



the spoken
quality



INCH CATALOG

Indexable Tools, Tool Holder Systems And Cutting Inserts

Version: 0100/1124

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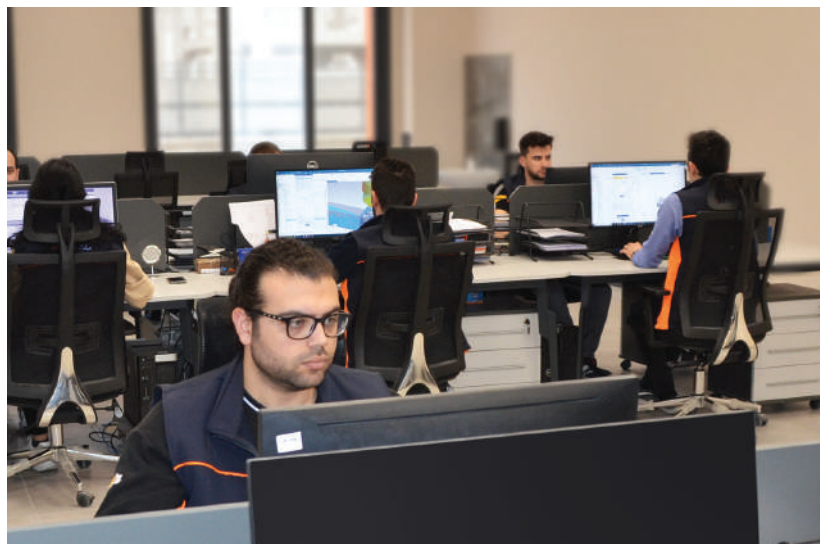
the spoken quality

AKKO Metalworking Tools, founded in 1986 continues its vision of “Spoken Quality” with indexable tools, tool holder systems and cutting insert solutions that make a difference in the competition of machining players in the global arena.

AKKO Makina Sanayi ve Ticaret A.Ş., an experienced machining specialist, produces Turning Tools, Threading and Grooving Tools, Antivibration Tools, Drilling and Holemaking Tools, Milling Tools, Monoblock Tools, Holders and Profile Inserts.

Every step of the manufacturing process, from raw material input to final product, occurs at AKKO’s integrated facility which is approximately 430,000 square feet equipped with expert production technologies. Furthermore, quality standards are continuously maintained as the processes that are decisive for product quality, including heat treatments and coating, are carried out under one roof. By continuously focusing on its R&D and innovation activities with precision, AKKO increases its global market share day by day without compromising on quality and service with developed innovative products.

AKKO, which produces 10,000 types of tool holders as standard with a production capacity of 750,000 pieces of tools and 70,000 special profile inserts per year, is an expert in developing fast solutions for special tool needs as well as standard tools with its wide stock range. With its experience, AKKO has expanded its presence in the global arena with AKKO Europe GmbH, which was established in Germany in 2018, and AKKO USA INC, in the United States in 2024. Today, AKKO’s solutions are shaping metal in 90 countries, including Europe, Asia, Africa, North and South American Countries and Australia.



> TOOL HOLDERS

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the spoken quality...

MONOBLOCK TOOLS

MONOBLOCK TOOLS WITH POLYGONAL SHANK



1	2	3	4	5	6	7	8	9	10	11
A	C6	S	C	L	C	R	17 WF	090 LF	12	H
AKKO	SHANK TYPE	TIGHTENING ANGLE	INSERT TYPE	ENTERING ANGLE	INSERT CLEARANCE ANGLE	CUTTING DIRECTION	FUNCTIONAL WIDTH	FUNCTIONAL LENGTH	CUTTING EDGE LENGTH	COOLANT

MONOBLOCK TOOLS WITH POLYGONAL SHANK

C4-C5-C6-C8

EXTERNAL TURNING TOOLS WITH POLYGONSHANK
INTERNAL TURNING TOOLS WITH POLYGONSHANK
EXTERNAL THREADING TOOLS WITH POLYGONSHANK
INTERNAL THREADING TOOLS WITH POLYGONSHANK

3 Method of Mounting of Insert

Top Clamping Without Hole	Top and Hole Clamping	Top and Hole Clamping	Hole Clamping (Lever Lock)	Screw on
C	T	M	P	S

4 Type of Insert

C	D	E	K
L	R	S	T
V	W	A	B
H	M	O	P

5 Tool Holder Shape Bar Geometry

A	B	D	E	F	G
J	K	L	M	N	R
S	T	V	Y	Z	

6 Insert Clearance Angel

A	B	C
D	E	F
G	N	P

7 Cutting Direction

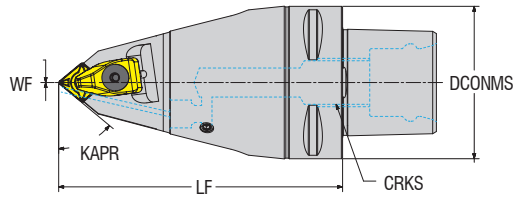
L	N	R

8 WF	9 LF
WF: Functional Width	LF: Functional Length

KAPR=50°



Illustrations shown may vary from actual product.



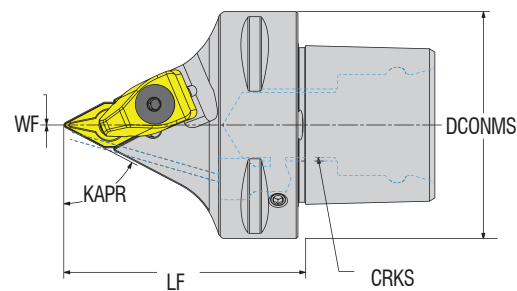
Dimensions in Inch

Ordering Code	DCONMS	LF	WF	CRKS	KG	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Nozzle	Allen Key
AC6 DCMNN 00115 12	2.480	4.528	0	M20x2	1.950	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-13-M5x8	AS-01	ABPL-01	ACN-M12-12.5	AAL-03-3
AC8 DCMNN 00150 16	3.150	5.906	0	M20x2	4.200	CN.. 542 CN.. 160608	ATK-04	AKV-19-M7x25	AACN-3-0002	AAV-05-M6x15	AS-02	ABPL-02	ACN-M12-12.5	AAL-05-4

KAPR=50°



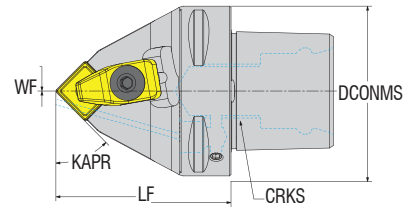
Illustrations shown may vary from actual product.



Dimensions in Inch

Ordering Code	DCONMS	LF	WF	CRKS	KG	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Nozzle	Allen Key
AC4 DDNNN 00050 11	1.575	1.969	0	M14x1.5	0.300	DN.. 332 DN.. 110408	ATK-01	AKV-01-M5x22	AADN-2-0001	AAV-04-M5x12	-	ABPL-01	ACN-M8-8.5	AAL-03-3
AC4 DDNNN 00055 15	1.575	2.165	0	M14x1.5	0.330	DN.. 442 DN.. 150608	ATK-02	AKV-30-M6x22	AADN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	ACN-M8-8.5	AAL-03-3
AC5 DDNNN 00060 15	1.969	2.362	0	M16x1.5	0.600	DN.. 442 DN.. 150608	ATK-02	AKV-30-M6x22	AADN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	ACN-M10-10.5	AAL-03-3
AC6 DDNNN 00065 15	2.480	2.559	0	M20x2	1.000	DN.. 442 DN.. 150608	ATK-02	AKV-30-M6x22	AADN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	ACN-M12-12.5	AAL-03-3
AC8 DDNNN 00080 15	3.150	3.150	0	M20x2	2.150	DN.. 4402	ATK-02	AKV-30-M6x22	AADN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	ACN-M12-12.5	AAL-03-3

KAPR=50°



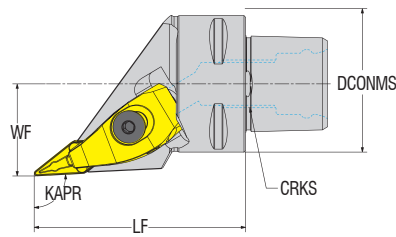
Illustrations shown may vary from actual product.

Dimensions in Inch



Ordering Code	DCONMS	LF	WF	CRKS	KG	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Nozzle	Allen Key
AC3 DSDNN 00048 12	1.260	1.890	0	M12x1.5	0.200	SN.. 432 SN.. 120408	ATK-02	AKV-30-M6x22	AASN-3-0004	AAV-02-M5x12	AS-01	ABPL-01	-	AAL-03-3
AC4 DSDNN 00050 12	1.575	1.969	0	M14x1.5	0.350	SN.. 432 SN.. 120408	ATK-02	AKV-30-M6x22	AASN-3-0004	AAV-02-M5x12	AS-01	ABPL-01	ACN-M8-8.5	AAL-03-3
AC5 DSDNN 00060 12	1.969	2.362	0	M16x1.5	0.650	SN.. 432 SN.. 120408	ATK-02	AKV-30-M6x22	AASN-3-0004	AAV-02-M5x12	AS-01	ABPL-01	ACN-M10-10.5	AAL-03-3
AC6 DSDNN 00065 12	2.480	2.559	0	M20x2	1.050	SN.. 432 SN.. 120408	ATK-02	AKV-30-M6x22	AASN-3-0004	AAV-02-M5x12	AS-01	ABPL-01	ACN-M12-12.5	AAL-03-3
AC5 DSDNN 00060 15	1.969	2.362	0	M16x1.5	0.600	SN.. 542 SN.. 150608	ATK-04	AKV-19-M7x25	AASN-3-0023	AAV-05-M6x15	AS-02	ABPL-02	ACN-M10-10.5	AAL-05-4
AC6 DSDNN 00065 15	2.480	2.559	0	M20x2	1.100	SN.. 542 SN.. 150608	ATK-04	AKV-19-M7x25	AASN-3-0023	AAV-05-M6x15	AS-02	ABPL-02	ACN-M12-12.5	AAL-05-4
AC5 DSDNN 00065 19	1.969	2.559	0	M16x1.5	0.700	SN.. 642 SN.. 190608	ATK-04	AKV-19-M7x25	AASN-3-0005	AAV-17-M6x14	AS-02	ABPL-02	ACN-M10-10.5	AAL-05-4
AC6 DSDNN 00070 19	2.480	2.756	0	M20x2	1.120	SN.. 642 SN.. 190608	ATK-04	AKV-19-M7x25	AASN-3-0005	AAV-17-M6x14	AS-02	ABPL-02	ACN-M12-12.5	AAL-05-4

KAPR=93°



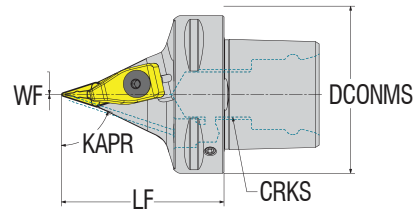
Illustrations shown may vary from actual product.

Dimensions in Inch



Ordering Code	DCONMS	LF	WF	CRKS	KG	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Spring	Ring	Allen Key
AC4 DVJNR 27062 16 H	1.575	2.441	1.063	M14x1.5	0.400	VN.. 332 VN.. 160408	ATKH-06-L	AKV-33-M6x22	AAVN-2-0002	AAV-04-M5x12	AKY-01	AXR-01	AAL-03-3
AC4 DVJNL 27062 16 H	1.575	2.441	1.063	M14x1.5	0.400	VN.. 332 VN.. 160408	ATKH-05-R	AKV-33-M6x22	AAVN-2-0002	AAV-04-M5x12	AKY-01	AXR-01	AAL-03-3

KAPR=50°



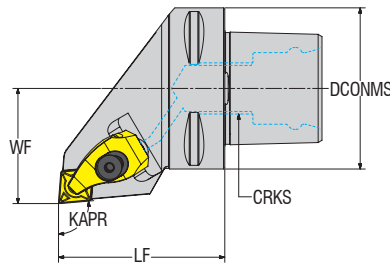
Illustrations shown may vary from actual product.

Dimensions in Inch



Ordering Code	DCONMS	LF	WF	CRKS	KG	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Nozzle	Allen Key
AC4 DVVNN 00062 16	1.575	2.441	0	M14x1.5	0.400	VN.. 332 VN.. 160408	ATK-03	AKV-30-M6x22	AAVN-2-0002	AAV-04-M5x12	AS-01	ABPL-01	ACN-M8-8.5	AAL-03-3
AC5 DVVNN 00065 16	1.969	2.559	0	M16x1.5	0.600	VN.. 332 VN.. 160408	ATK-03	AKV-30-M6x22	AAVN-2-0002	AAV-04-M5x12	AS-01	ABPL-01	ACN-M10-10.5	AAL-03-3
AC6 DVVNN 00065 16	2.480	2.559	0	M20x2	0.950	VN.. 332 VN.. 160408	ATK-03	AKV-30-M6x22	AAVN-2-0002	AAV-04-M5x12	AS-01	ABPL-01	ACN-M12-12.5	AAL-03-3
AC8 DVVNN 00080 16	3.150	3.150	0	M20x2	2.000	VN.. 332 VN.. 160408	ATK-03	AKV-30-M6x22	AAVN-2-0002	AAV-04-M5x12	AS-01	ABPL-01	ACN-M12-12.5	AAL-03-3

KAPR=95°



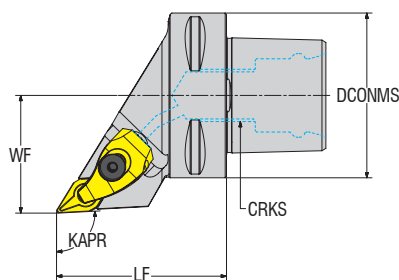
Illustrations shown may vary from actual product.

Dimensions in Inch



Ordering Code	DCONMS	LF	WF	CRKS	KG	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Spring	Ring	Allen Key
AC4 DCLNR 27060 12 H	1.575	2.362	1.063	M14x1.5	0.440	CN.. 432 CN.. 120408	ATKH-01-R	AKV-33-M6x22	AACN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	AAL-03-3
AC5 DCLNR 35060 12 H	1.969	2.362	1.378	M16x1.5	0.720	CN.. 432 CN.. 120408	ATKH-01-R	AKV-33-M6x22	AACN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	AAL-03-3
AC6 DCLNR 45065 12 H	2.480	2.559	1.772	M20x2	1.160	CN.. 432 CN.. 120408	ATKH-01-R	AKV-33-M6x22	AACN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	AAL-03-3
AC8 DCLNR 55080 12 H	3.150	3.150	2.165	M20x2	2.430	CN.. 432 CN.. 120408	ATKH-01-R	AKV-33-M6x22	AACN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	AAL-03-3
AC4 DCLNL 27060 12 H	1.575	2.362	1.063	M14x1.5	0.440	CN.. 432 CN.. 120408	ATKH-02-L	AKV-33-M6x22	AACN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	AAL-03-3
AC5 DCLNL 35060 12 H	1.969	2.362	1.378	M16x1.5	0.720	CN.. 432 CN.. 120408	ATKH-02-L	AKV-33-M6x22	AACN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	AAL-03-3
AC6 DCLNL 45065 12 H	2.480	2.559	1.772	M20x2	1.160	CN.. 432 CN.. 120408	ATKH-02-L	AKV-33-M6x22	AACN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	AAL-03-3
AC8 DCLNL 55080 12 H	3.150	3.150	2.165	M20x2	2.430	CN.. 432 CN.. 120408	ATKH-02-L	AKV-33-M6x22	AACN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	AAL-03-3

KAPR=93°



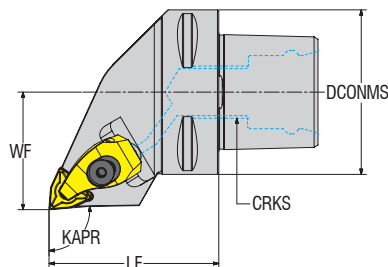
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Dimensions in Inch



Ordering Code	DCONMS	LF	WF	CRKS	KG	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Spring	Ring	Allen Key
AC4 DDJNR 27060 15 H	1.575	2.362	1.063	M14x1.5	0.400	DN.. 442 DN.. 150608	ATKH-02-L	AKV-33-M6x22	AADN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	AAL-03-3
AC5 DDJNR 35060 15 H	1.969	2.362	1.378	M16x1.5	0.620	DN.. 442 DN.. 150608	ATKH-02-L	AKV-33-M6x22	AADN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	AAL-03-3
AC6 DDJNR 45065 15 H	2.480	2.559	1.772	M20x2	1.030	DN.. 442 DN.. 150608	ATKH-02-L	AKV-33-M6x22	AADN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	AAL-03-3
AC8 DDJNR 55080 15 H	3.150	3.150	2.165	M20x2	2.200	DN.. 442 DN.. 150608	ATKH-02-L	AKV-33-M6x22	AADN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	AAL-03-3
AC4 DDJNL 27060 15 H	1.575	2.362	1.063	M14x1.5	0.400	DN.. 442 DN.. 150608	ATKH-01-R	AKV-33-M6x22	AADN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	AAL-03-3
AC5 DDJNL 35060 15 H	1.969	2.362	1.378	M16x1.5	0.620	DN.. 442 DN.. 150608	ATKH-01-R	AKV-33-M6x22	AADN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	AAL-03-3
AC6 DDJNL 45065 15 H	2.480	2.559	1.772	M20x2	1.030	DN.. 442 DN.. 150608	ATKH-01-R	AKV-33-M6x22	AADN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	AAL-03-3
AC8 DDJNL 55080 15 H	3.150	3.150	2.165	M20x2	2.200	DN.. 442 DN.. 150608	ATKH-01-R	AKV-33-M6x22	AADN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	AAL-03-3

KAPR=95°



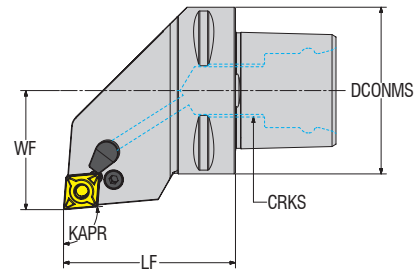
Illustrations shown may vary from actual product.

Dimensions in Inch



Ordering Code	DCONMS	LF	WF	CRKS	KG	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Spring	Ring	Allen Key
AC4 DWLNR 27060 08 H	1.575	2.362	1.063	M14x1.5	0.430	WN.. 432 WN.. 080408	ATKH-01-R	AKV-33-M6X22	AAWN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	AAL-03-3
AC5 DWLNR 35060 08 H	1.969	2.362	1.378	M16x1.5	0.680	WN.. 432 WN.. 080408	ATKH-01-R	AKV-33-M6X22	AAWN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	AAL-03-3
AC6 DWLNR 45065 08 H	2.480	2.559	1.772	M20x2	1.190	WN.. 432 WN.. 080408	ATKH-01-R	AKV-33-M6X22	AAWN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	AAL-03-3
AC8 DWLNR 55080 08 H	3.150	3.150	2.165	M20x2	2.450	WN.. 432 WN.. 080408	ATKH-01-R	AKV-33-M6X22	AAWN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	AAL-03-3
AC4 DWLNL 27060 08 H	1.575	2.362	1.063	M14x1.5	0.430	WN.. 432 WN.. 080408	ATKH-02-L	AKV-33-M6X22	AAWN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	AAL-03-3
AC5 DWLNL 35060 08 H	1.969	2.362	1.378	M16x1.5	0.680	WN.. 432 WN.. 080408	ATKH-02-L	AKV-33-M6X22	AAWN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	AAL-03-3
AC6 DWLNL 45065 08 H	2.480	2.559	1.772	M20x2	1.190	WN.. 432 WN.. 080408	ATKH-02-L	AKV-33-M6X22	AAWN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	AAL-03-3
AC8 DWLNL 55080 08 H	3.150	3.150	2.165	M20x2	2.450	WN.. 432 WN.. 080408	ATKH-02-L	AKV-33-M6X22	AAWN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	AAL-03-3

KAPR=95°

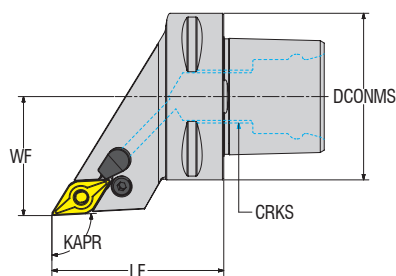


Illustrations shown may vary from actual product.

Dimensions in Inch



Ordering Code	DCONMS	LF	WF	CRKS	KG	Insert Inch/Metric	Lever	Lever Screw	Shim	Shim Spring	Ring	Nozzle	Nozzle Screw	Allen Key
AC4 PCLNR 27050 12 H	1.575	1.969	1.063	M14x1.5	0.400	CN.. 432 CN.. 120408	APL-02	ALV-03-M8X19	AACN-3-0001	AAY-02	AXR-01 / AOR-01	AN-01	2715-M3x5	AAL-03-3
AC5 PCLNR 35060 12 H	1.969	2.362	1.378	M16x1.5	0.700	CN.. 432 CN.. 120408	APL-02	ALV-03-M8X19	AACN-3-0001	AAY-02	AXR-01 / AOR-01	AN-01	2715-M3x5	AAL-03-3
AC6 PCLNR 45065 12 H	2.480	2.559	1.772	M20x2	1.230	CN.. 432 CN.. 120408	APL-02	ALV-03-M8X19	AACN-3-0001	AAY-02	AXR-01 / AOR-01	AN-01	2715-M3x5	AAL-03-3
AC6 PCLNR 45165 12 H	2.480	6.496	1.772	M20x2	3.500	CN.. 432 CN.. 120408	APL-02	ALV-03-M8X19	AACN-3-0001	AAY-02	AXR-01 / AOR-01	AN-01	2715-M3x5	AAL-03-3
AC8 PCLNR 55080 12 H	3.150	3.150	2.165	M20x2	2.500	CN.. 432 CN.. 120408	APL-02	ALV-03-M8X19	AACN-3-0001	AAY-02	AXR-01 / AOR-01	AN-01	2715-M3x5	AAL-03-3
AC4 PCLNL 27050 12 H	1.575	1.969	1.063	M14x1.5	0.400	CN.. 432 CN.. 120408	APL-02	ALV-03-M8X19	AACN-3-0001	AAY-02	AXR-01 / AOR-01	AN-01	2715-M3x5	AAL-03-3
AC5 PCLNL 35060 12 H	1.969	2.362	1.378	M16x1.5	0.700	CN.. 432 CN.. 120408	APL-02	ALV-03-M8X19	AACN-3-0001	AAY-02	AXR-01 / AOR-01	AN-01	2715-M3x5	AAL-03-3
AC6 PCLNL 45065 12 H	2.480	2.559	1.772	M20x2	1.230	CN.. 432 CN.. 120408	APL-02	ALV-03-M8X19	AACN-3-0001	AAY-02	AXR-01 / AOR-01	AN-01	2715-M3x5	AAL-03-3
AC6 PCLNL 45165 12 H	2.480	6.496	1.772	M20x2	3.500	CN.. 432 CN.. 120408	APL-02	ALV-03-M8X19	AACN-3-0001	AAY-02	AXR-01 / AOR-01	AN-01	2715-M3x5	AAL-03-3
AC8 PCLNL 55080 12 H	3.150	3.150	2.165	M20x2	2.500	CN.. 432 CN.. 120408	APL-02	ALV-03-M8X19	AACN-3-0001	AAY-02	AXR-01 / AOR-01	AN-01	2715-M3x5	AAL-03-3

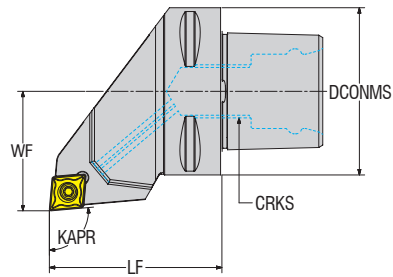


Illustrations shown may vary from actual product.

Dimensions in Inch

Ordering Code	DCONMS	LF	WF	CRKS	KG	Insert Inch/Metric	Lever	Lever Screw	Shim	Shim Spring	Ring	Nozzle	Nozzle Screw	Allen Key
AC4 PDJNR 27060 15 H	1.575	2.362	1.063	M14x1.5	0.420	DN.. 442 DN.. 150608	APL-03	ALV-03-M8X19	AADN-3-0001	AAY-02	AXR-01 / AOR-01	AN-01	2715-M3x5	AAL-03-3
AC5 PDJNR 35060 15 H	1.969	2.362	1.378	M16x1.5	0.620	DN.. 442 DN.. 150608	APL-03	ALV-03-M8X19	AADN-3-0001	AAY-02	AXR-01 / AOR-01	AN-01	2715-M3x5	AAL-03-3
AC6 PDJNR 45065 15 H	2.480	2.559	1.772	M20x2	1.030	DN.. 442 DN.. 150608	APL-03	ALV-03-M8X19	AADN-3-0001	AAY-02	AXR-01 / AOR-01	AN-01	2715-M3x5	AAL-03-3
AC6 PDJNR 45165 15 H	2.480	6.496	1.772	M20x2	3.260	DN.. 442 DN.. 150608	APL-03	ALV-03-M8X19	AADN-3-0001	AAY-02	AXR-01 / AOR-01	AN-01	2715-M3x5	AAL-03-3
AC8 PDJNR 55080 15 H	3.150	3.150	2.165	M20x2	2.340	DN.. 442 DN.. 150608	APL-03	ALV-03-M8X19	AADN-3-0001	AAY-02	AXR-01 / AOR-01	AN-01	2715-M3x5	AAL-03-3
AC4 PDJNL 27060 15 H	1.575	2.362	1.063	M14x1.5	0.420	DN.. 442 DN.. 150608	APL-03	ALV-03-M8X19	AADN-3-0001	AAY-02	AXR-01 / AOR-01	AN-01	2715-M3x5	AAL-03-3
AC5 PDJNL 35060 15 H	1.969	2.362	1.378	M16x1.5	0.620	DN.. 442 DN.. 150608	APL-03	ALV-03-M8X19	AADN-3-0001	AAY-02	AXR-01 / AOR-01	AN-01	2715-M3x5	AAL-03-3
AC6 PDJNL 45065 15 H	2.480	2.559	1.772	M20x2	1.030	DN.. 442 DN.. 150608	APL-03	ALV-03-M8X19	AADN-3-0001	AAY-02	AXR-01 / AOR-01	AN-01	2715-M3x5	AAL-03-3
AC6 PDJNL 45165 15 H	2.480	6.496	1.772	M20x2	3.260	DN.. 442 DN.. 150608	APL-03	ALV-03-M8X19	AADN-3-0001	AAY-02	AXR-01 / AOR-01	AN-01	2715-M3x5	AAL-03-3
AC8 PDJNL 55080 15 H	3.150	3.150	2.165	M20x2	2.340	DN.. 442 DN.. 150608	APL-03	ALV-03-M8X19	AADN-3-0001	AAY-02	AXR-01 / AOR-01	AN-01	2715-M3x5	AAL-03-3

KAPR=95°



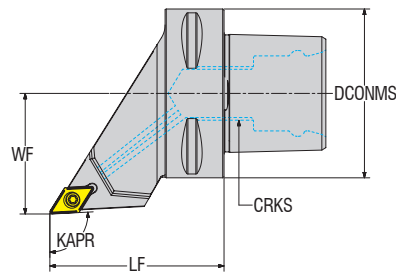
Illustrations shown may vary from actual product.

Dimensions in Inch



Ordering Code	DCONMS	LF	WF	CRKS	KG	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
AC4 SCLCR 27050 12 H	1.575	1.969	1.063	M14x1.5	0.350	CC.. 432 CC.. 120408	1020-M4.5x16	AACN-2-0003	AAV-10-M4.5x8	80-T20
AC5 SCLCR 35060 12 H	1.969	2.362	1.378	M16x1.5	0.700	CC.. 432 CC.. 120408	1020-M4.5x16	AACN-2-0003	AAV-10-M4.5x8	80-T20
AC6 SCLCR 45065 12 H	2.480	2.559	1.772	M20x2	1.160	CC.. 432 CC.. 120408	1020-M4.5x16	AACN-2-0003	AAV-10-M4.5x8	80-T20
AC4 SCLCL 27050 12 H	1.575	1.969	1.063	M14x1.5	0.350	CC.. 432 CC.. 120408	1020-M4.5x16	AACN-2-0003	AAV-10-M4.5x8	80-T20
AC5 SCLCL 35060 12 H	1.969	2.362	1.378	M16x1.5	0.700	CC.. 432 CC.. 120408	1020-M4.5x16	AACN-2-0003	AAV-10-M4.5x8	80-T20
AC6 SCLCL 45065 12 H	2.480	2.559	1.772	M20x2	1.160	CC.. 432 CC.. 120408	1020-M4.5x16	AACN-2-0003	AAV-10-M4.5x8	80-T20

KAPR=93°



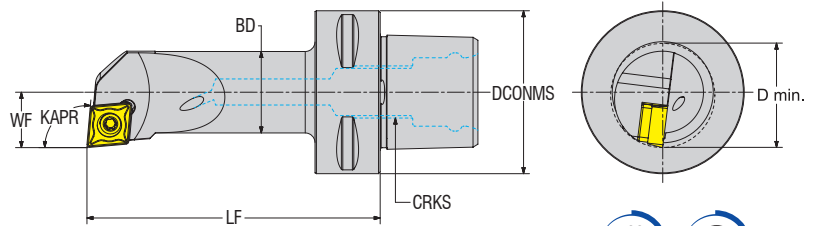
Illustrations shown may vary from actual product.

Dimensions in Inch



Ordering Code	DCONMS	LF	WF	CRKS	KG	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
AC4 SDJCR 27050 11 H	1.575	1.969	1.063	M14x1.5	0.340	DC.. 3252 DC.. 11T308	4015-M3.5x11	AADN-2-0001	AAV-08-M3.5x8	80-T15
AC5 SDJCR 35060 11 H	1.969	2.362	1.378	M16x1.5	0.640	DC.. 3252 DC.. 11T308	4015-M3.5x11	AADN-2-0001	AAV-06-M3.5x11	80-T15
AC6 SDJCR 45065 11 H	2.480	2.559	1.772	M20x2	1.040	DC.. 3252 DC.. 11T308	4015-M3.5x11	AADN-2-0001	AAV-06-M3.5x11	80-T15
AC4 SDJCL 27050 11 H	1.575	1.969	1.063	M14x1.5	0.340	DC.. 3252 DC.. 11T308	4015-M3.5x11	AADN-2-0001	AAV-08-M3.5x8	80-T15
AC5 SDJCL 35060 11 H	1.969	2.362	1.378	M16x1.5	0.640	DC.. 3252 DC.. 11T308	4015-M3.5x11	AADN-2-0001	AAV-06-M3.5x11	80-T15
AC6 SDJCL 45065 11 H	2.480	2.559	1.772	M20x2	1.040	DC.. 3252 DC.. 11T308	4015-M3.5x11	AADN-2-0001	AAV-06-M3.5x11	80-T15

KAPR=95°

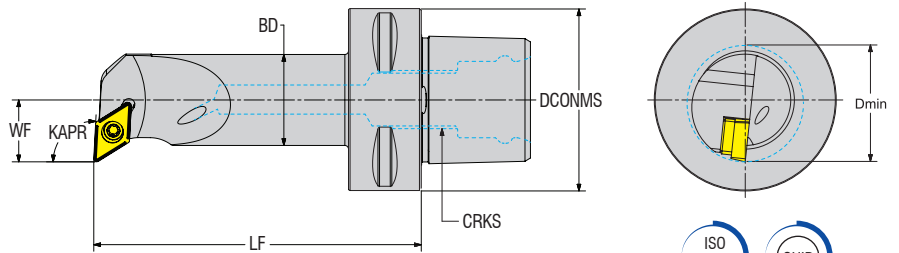


Illustrations shown may vary from actual product.

Dimensions in Inch

Ordering Code	DCONMS	LF	WF	BD	D.min	CRKS	KG	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
AC4 SCLCR 17090 12 H	1.575	3.543	0.669	0.9843	1.2598	M14x1.5	0.450	CC.. 432 CC.. 120408	4020-M4.5x12	AACN-2-0003	AAV-10-M4.5x8	80-T20
AC4 SCLCL 17090 12 H	1.575	3.543	0.669	0.9843	1.2598	M14x1.5	0.450	CC.. 432 CC.. 120408	4020-M4.5x12	AACN-2-0003	AAV-10-M4.5x8	80-T20
AC5 SCLCR 17090 12 H	1.969	3.543	0.669	0.9843	1.2598	M16x1.5	0.620	CC.. 432 CC.. 120408	4020-M4.5x12	AACN-2-0003	AAV-10-M4.5x8	80-T20
AC5 SCLCL 17090 12 H	1.969	3.543	0.669	0.9843	1.2598	M16x1.5	0.620	CC.. 432 CC.. 120408	4020-M4.5x12	AACN-2-0003	AAV-10-M4.5x8	80-T20

KAPR=93°



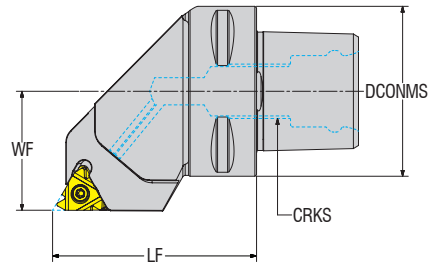
Illustrations shown may vary from actual product.

Dimensions in Inch

Ordering Code	DCONMS	LF	WF	BD	D.min	CRKS	KG	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
AC4 SDUCR 13080 11 H	1.575	3.150	0.512	0.7874	0.9843	M14x1.5	0.340	DC.. 3252 DC.. 11T308	4015-M3.5x11	AADN-2-0001	AAV-08-M3.5X8	80-T15
AC4 SDUCR 17090 11 H	1.575	3.543	0.669	0.9843	1.2598	M14x1.5	0.450	DC.. 3252 DC.. 11T308	4015-M3.5x11	AADN-2-0001	AAV-08-M3.5X8	80-T15
AC5 SDUCR 13080 11 H	1.969	3.150	0.512	0.9843	1.2598	M16x1.5	0.520	DC.. 3252 DC.. 11T308	4015-M3.5x11	AADN-2-0001	AAV-08-M3.5X8	80-T15
AC5 SDUCR 17090 11 H	1.969	3.543	0.669	0.9843	1.2598	M16x1.5	0.620	DC.. 3252 DC.. 11T308	4015-M3.5x11	AADN-2-0001	AAV-08-M3.5X8	80-T15
AC4 SDUCL 13080 11 H	1.575	3.150	0.512	0.7874	0.9843	M14x1.5	0.340	DC.. 3252 DC.. 11T308	4015-M3.5x11	AADN-2-0001	AAV-08-M3.5X8	80-T15
AC4 SDUCL 17090 11 H	1.575	3.543	0.669	0.9843	1.2598	M14x1.5	0.450	DC.. 3252 DC.. 11T308	4015-M3.5x11	AADN-2-0001	AAV-08-M3.5X8	80-T15
AC5 SDUCL 13080 11 H	1.969	3.150	0.512	0.9843	1.2598	M16x1.5	0.520	DC.. 3252 DC.. 11T308	4015-M3.5x11	AADN-2-0001	AAV-08-M3.5X8	80-T15
AC5 SDUCL 17090 11 H	1.969	3.543	0.669	0.9843	1.2598	M16x1.5	0.620	DC.. 3252 DC.. 11T308	4015-M3.5x11	AADN-2-0001	AAV-08-M3.5X8	80-T15



Illustrations shown may vary from actual product.

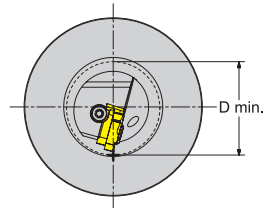
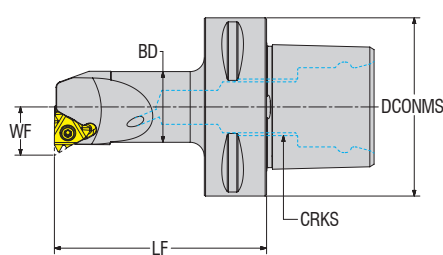


Dimensions in Inch

Ordering Code	DCONMS	LF	WF	CRKS	KG	Insert	Screw	Shim	Shim Screw	Ring	Torx Key
AC4 TER 27050 16 H	1.575	1.969	1.063	M14x1.5	0.360	16 ER	1710-U5-40x12.2	ATS-16E	AAV-11-U5-40x4.5	ABPL-03	82-T10
AC5 TER 35060 16 H	1.969	2.362	1.378	M16x1.5	0.700	16 ER	1710-U5-40x12.2	ATS-16E	AAV-11-U5-40x4.5	ABPL-03	82-T10
AC6 TER 45065 16 H	2.480	2.559	1.772	M20x2	1.240	16 ER	1710-U5-40x12.2	ATS-16E	AAV-11-U5-40x4.5	ABPL-03	82-T10
AC4 TEL 27050 16 H	1.575	1.969	1.063	M14x1.5	0.360	16 EL	1710-U5-40x12.2	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
AC5 TEL 35060 16 H	1.969	2.362	1.378	M16x1.5	0.700	16 EL	1710-U5-40x12.2	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
AC6 TEL 45065 16 H	2.480	2.559	1.772	M20x2	1.240	16 EL	1710-U5-40x12.2	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10



Illustrations shown may vary from actual product.



Dimensions in Inch

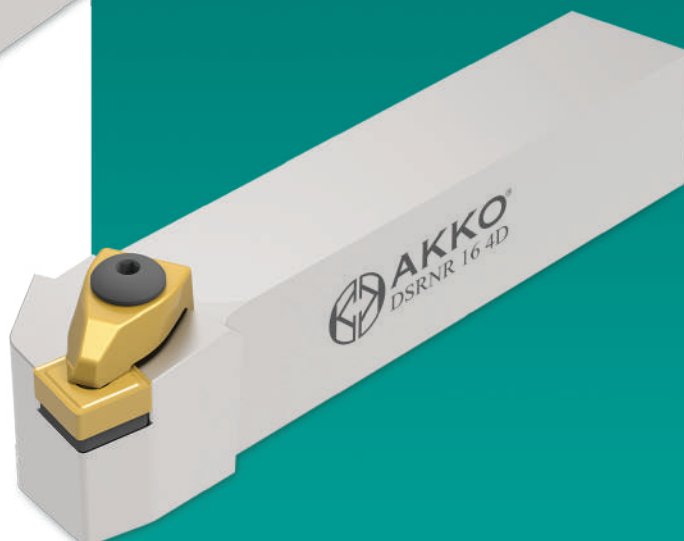
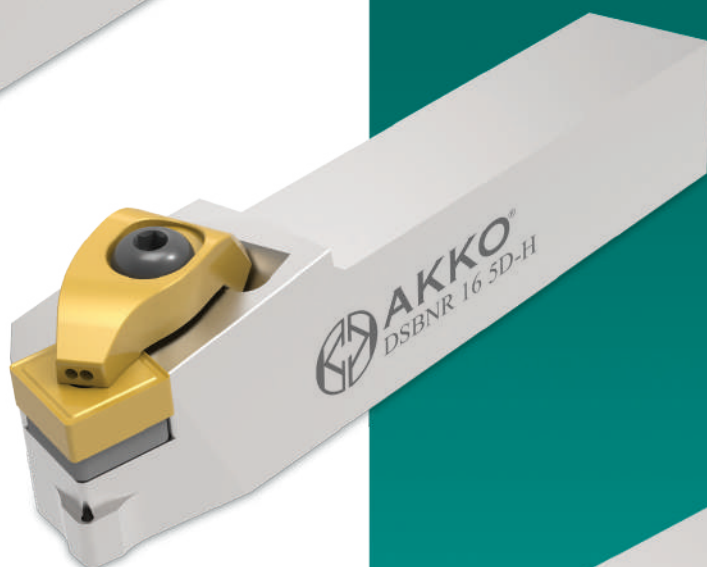


Ordering Code	DCONMS	LF	WF	BD	D.min	CRKS	KG	Insert	Screw	Shim	Shim Screw	Ring	Torx Key
AC4 TIR 14060 16 H	1.575	2.362	0.551	0.787	1.299	M14x1.5	0.320	16 IR	1710-U5-40x12.2	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
AC4 TIR 17070 16 H	1.575	2.756	0.669	0.984	1.299	M14x1.5	0.400	16 IR	1710-U5-40x12.2	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
AC4 TIR 22090 16 H	1.575	3.543	0.866	1.260	1.575	M14x1.5	0.590	16 IR	1710-U5-40x12.2	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
AC5 TIR 17070 16 H	1.969	2.756	0.669	0.984	1.299	M16x1.5	0.570	16 IR	1710-U5-40x12.2	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
AC5 TIR 22090 16 H	1.969	3.543	0.866	1.260	1.299	M16x1.5	0.760	16 IR	1710-U5-40x12.2	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
AC5 TIR 27105 16 H	1.969	4.134	1.063	1.575	1.575	M16x1.5	1.080	16 IR	1710-U5-40x12.2	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
AC6 TIR 17075 16 H	2.480	2.953	0.669	0.984	1.299	M20x2	0.900	16 IR	1710-U5-40x12.2	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
AC6 TIR 22090 16 H	2.480	3.543	0.866	1.260	1.299	M20x2	1.060	16 IR	1710-U5-40x12.2	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
AC6 TIR 27105 16 H	2.480	4.134	1.063	1.575	1.575	M20x2	1.370	16 IR	1710-U5-40x12.2	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
AC4 TIL 14060 16 H	1.575	2.362	0.551	0.787	1.299	M14x1.5	0.320	16 IL	1710-U5-40x12.2	ATS-16E	AAV-11-U5-40x4.5	ABPL-03	82-T10
AC4 TIL 17070 16 H	1.575	2.756	0.669	0.984	1.299	M14x1.5	0.400	16 IL	1710-U5-40x12.2	ATS-16E	AAV-11-U5-40x4.5	ABPL-03	82-T10
AC4 TIL 22090 16 H	1.575	3.543	0.866	1.260	1.575	M14x1.5	0.590	16 IL	1710-U5-40x12.2	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
AC5 TIL 17070 16 H	1.969	2.756	0.669	0.984	1.299	M16x1.5	0.570	16 IL	1710-U5-40x12.2	ATS-16E	AAV-11-U5-40x4.5	ABPL-03	82-T10
AC5 TIL 22090 16 H	1.969	3.543	0.866	1.260	1.299	M16x1.5	0.760	16 IL	1710-U5-40x12.2	ATS-16E	AAV-11-U5-40x4.5	ABPL-03	82-T10
AC5 TIL 27105 16 H	1.969	4.134	1.063	1.575	1.575	M16x1.5	1.080	16 IL	1710-U5-40x12.2	ATS-16E	AAV-11-U5-40x4.5	ABPL-03	82-T10
AC6 TIL 17075 16 H	2.480	2.953	0.669	0.984	1.299	M20x2	0.900	16 IL	1710-U5-40x12.2	ATS-16E	AAV-11-U5-40x4.5	ABPL-03	82-T10
AC6 TIL 22090 16 H	2.480	3.543	0.866	1.260	1.299	M20x2	1.060	16 IL	1710-U5-40x12.2	ATS-16E	AAV-11-U5-40x4.5	ABPL-03	82-T10
AC6 TIL 27105 16 H	2.480	4.134	1.063	1.575	1.575	M20x2	1.370	16 IL	1710-U5-40x12.2	ATS-16E	AAV-11-U5-40x4.5	ABPL-03	82-T10

the spoken quality...

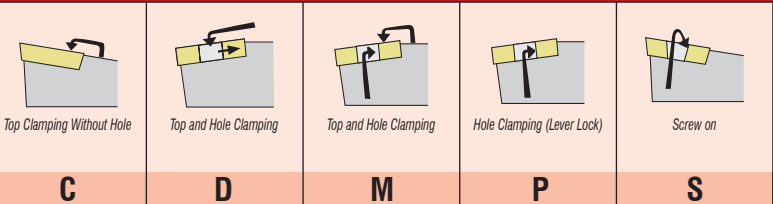
D-SYSTEM

D-SYSTEM EXTERNAL TURNING TOOLHOLDERS

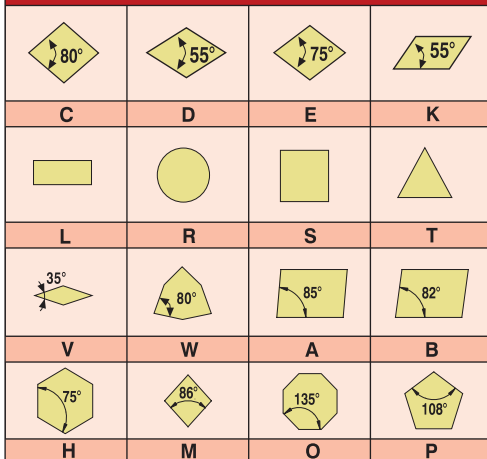




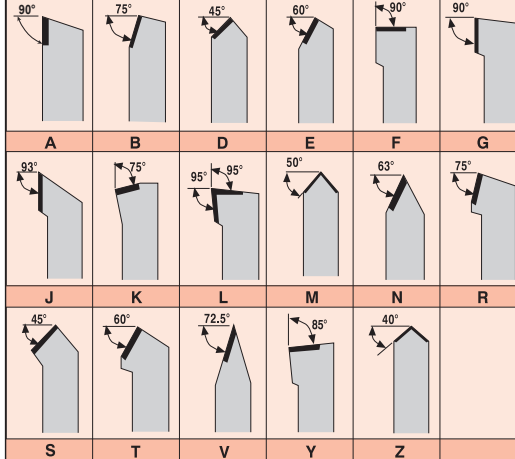
1 Method of Mounting of Insert



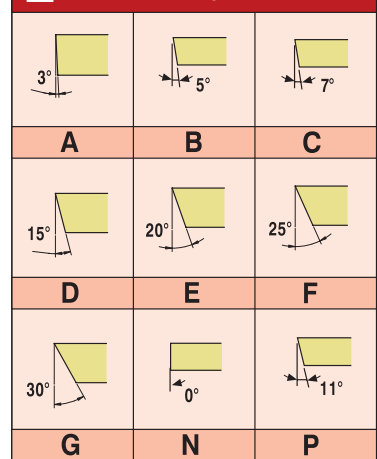
2 Type of Insert



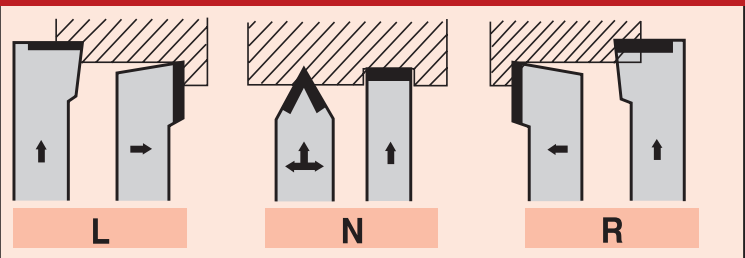
3 Tool Holder Shape Bar Geometry



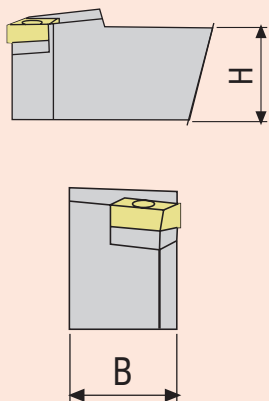
4 Insert Clearance Angle



5 Cutting Direction

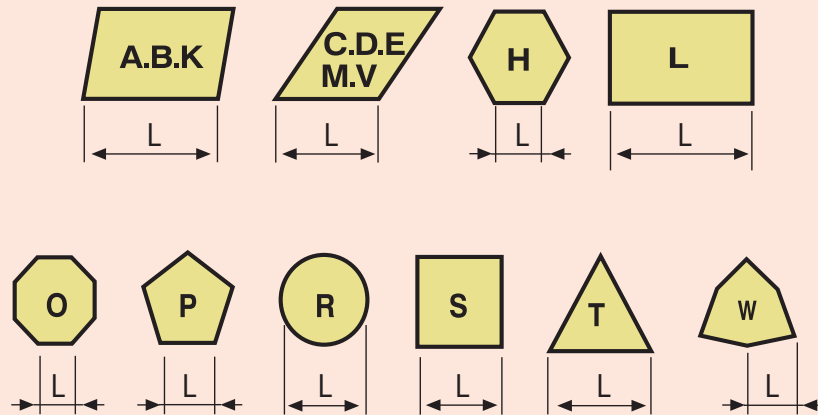


6 Cutting Edge Height

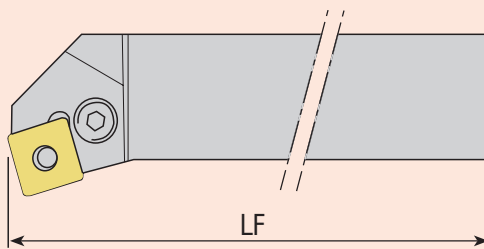


	B	H
05	0.3125	0.3125
06	0.375	0.375
08	0.50	0.50
10	0.625	0.625
12	0.75	0.75
16	1.00	1.00
20	1.25	1.25

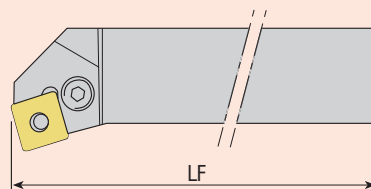
7 Cutting Edge Length



8 Shank Length

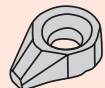
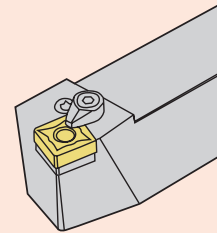


(A): 4.00	Qualified back and end. 4.00" long
(B): 4.50	Qualified back and end. 4.50" long
(C): 5.00	Qualified back and end. 5.00" long
(D): 6.00	Qualified back and end. 6.00" long
(E): 7.00	Qualified back and end. 7.00" long
(F): 8.00	Qualified back and end. 8.00" long
(V): 3.50	Qualified back and end. 3.50" long
(X): Special	



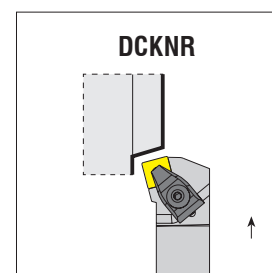
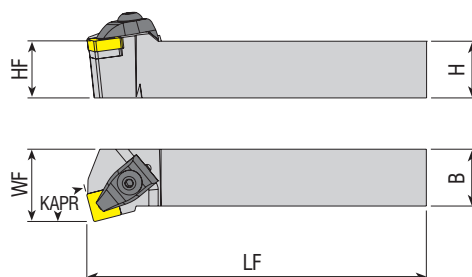
A - 32	H - 100	Q - 180	x-special
B - 40	J - 110	R - 200	
C - 50	K - 125	S - 250	
D - 60	L - 140	T - 300	
E - 70	M - 150	U - 350	
F - 80	N - 160	V - 400	
G - 90	P - 170	W - 450	

9 Wedge Clamp





Illustrations shown may vary from actual product.

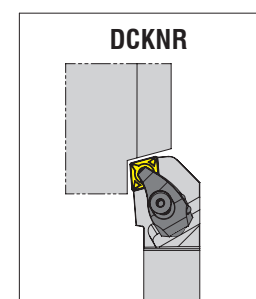
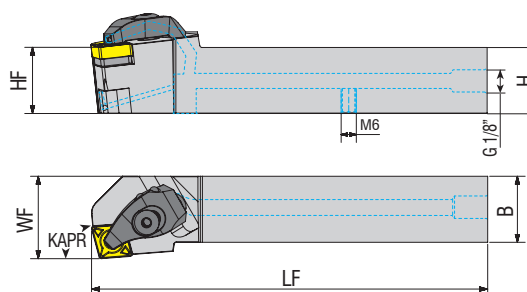


Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Allen Key
DCKNR 12 4B	0.750	0.750	4.500	1.250	1.000	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DCKNR 16 4C	1.000	1.000	5.000	1.250	1.250	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DCKNR 16 4D	1.000	1.000	6.000	1.250	1.250	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DCKNR 20 4D	1.250	1.250	6.000	1.250	1.500	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DCKNR 20 5D	1.250	1.250	6.000	1.250	1.500	CN.. 543 CN.. 160612	ATK-04	AKV-19-M7x25	AACN-3-0002	AAV-05-M6x15	AS-02	ABPL-02	AAL-05-4
DCKNL 16 4D	1.000	1.000	6.000	1.250	1.250	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DCKNL 20 4D	1.250	1.250	6.000	1.250	1.500	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3



Illustrations shown may vary from actual product.

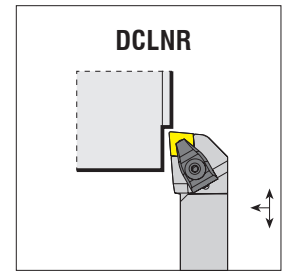
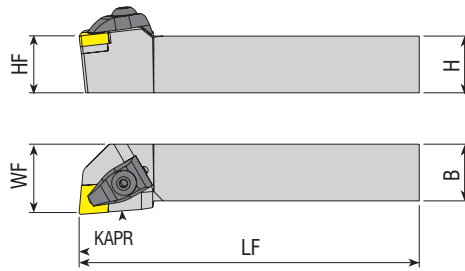


Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Spring	Ring	Threaded Pin	Allen Key
DCKNR 16 4D-H	1.000	1.000	6.000	1.650	1.250	CN.. 432 CN.. 120408	ATKH-01-R	AKV-33-M6x22	AKV-33-M6x22	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DCKNR 20 4D-H	1.250	1.250	6.000	1.650	1.500	CN.. 432 CN.. 120408	ATKH-01-R	AKV-33-M6x22	AKV-33-M6x22	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DCKNR 12 4D-H	0.750	0.750	6.000	1.690	1.000	CN.. 432 CN.. 120408	ATKH-02-L	AKV-33-M6x22	AKV-33-M6x22	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DCKNL 16 4D-H	1.000	1.000	6.000	1.650	1.250	CN.. 432 CN.. 120408	ATKH-02-L	AKV-33-M6x22	AKV-33-M6x22	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DCKNL 20 4D-H	1.250	1.250	6.000	1.650	1.500	CN.. 432 CN.. 120408	ATKH-02-L	AKV-33-M6x22	AKV-33-M6x22	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DCKNL 12 4D-H	0.750	0.750	6.000	1.690	1.000	CN.. 432 CN.. 120408	ATKH-01-R	AKV-33-M6x22	AKV-33-M6x22	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3

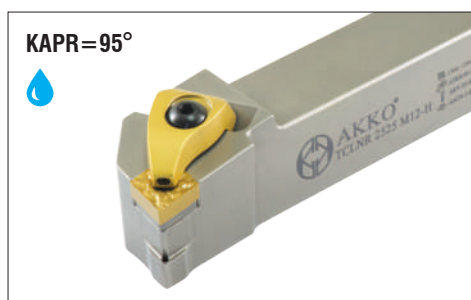


Illustrations shown may vary from actual product.

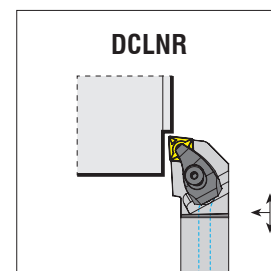
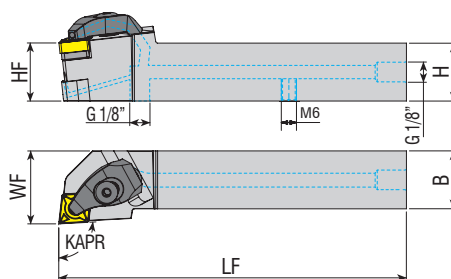


Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Allen Key
DCLNR 12 3B	0.750	0.750	4.500	1.000	1.000	CN.. 322 CN.. 09T308	ATK-01	AKV-01-M5x22	AACN -2-0001	AAV-09-M5x9	-	ABPL-01	AAL-03-3
DCLNR 16 3D	1.000	1.000	6.000	1.000	1.250	CN.. 322 CN.. 09T308	ATK-01	AKV-01-M5x22	AACN -2-0001	AAV-09-M5x9	-	ABPL-01	AAL-03-3
DCLNR 12 4B	0.750	0.750	4.500	1.250	1.000	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DCLNR 16 4C	1.000	1.000	5.000	1.250	1.250	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DCLNR 16 4D	1.000	1.000	6.000	1.250	1.250	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DCLNR 20 4D	1.250	1.250	6.000	1.250	1.500	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DCLNR 24 4D	1.500	1.500	6.000	1.250	2.000	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DCLNR 16 5C	1.000	1.000	5.000	1.380	1.250	CN.. 543 CN.. 160612	ATK-04	AKV-19-M7x25	AACN-3-0002	AAV-05-M6x15	AS-02	ABPL-02	AAL-05-4
DCLNR 16 5D	1.000	1.000	6.000	1.380	1.250	CN.. 543 CN.. 160612	ATK-04	AKV-19-M7x25	AACN-3-0002	AAV-05-M6x15	AS-02	ABPL-02	AAL-05-4
DCLNR 20 5D	1.250	1.250	6.000	1.380	1.500	CN.. 543 CN.. 160612	ATK-04	AKV-19-M7x25	AACN-3-0002	AAV-05-M6x15	AS-02	ABPL-02	AAL-05-4
DCLNR 24 5D	1.500	1.500	6.000	1.380	2.000	CN.. 543 CN.. 160612	ATK-04	AKV-19-M7x25	AACN-3-0002	AAV-05-M6x15	AS-02	ABPL-02	AAL-05-4
DCLNL 12 3B	0.750	0.750	4.500	1.000	1.000	CN.. 322 CN.. 09T308	ATK-01	AKV-01-M5x22	AACN -2-0001	AAV-09-M5x9	-	ABPL-01	AAL-03-3
DCLNL 16 3D	1.000	1.000	6.000	1.000	1.250	CN.. 322 CN.. 09T308	ATK-01	AKV-01-M5x22	AACN -2-0001	AAV-09-M5x9	-	ABPL-01	AAL-03-3
DCLNL 12 4B	0.750	0.750	4.500	1.250	1.000	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DCLNL 16 4C	1.000	1.000	5.000	1.250	1.250	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DCLNL 16 4D	1.000	1.000	6.000	1.250	1.250	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DCLNL 20 4D	1.250	1.250	6.000	1.250	1.500	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DCLNL 24 4D	1.500	1.500	6.000	1.250	2.000	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DCLNL 16 5C	1.000	1.000	5.000	1.380	1.250	CN.. 543 CN.. 160612	ATK-04	AKV-19-M7x25	AACN-3-0002	AAV-05-M6x15	AS-02	ABPL-02	AAL-05-4
DCLNL 16 5D	1.000	1.000	6.000	1.380	1.250	CN.. 543 CN.. 160612	ATK-04	AKV-19-M7x25	AACN-3-0002	AAV-05-M6x15	AS-02	ABPL-02	AAL-05-4
DCLNL 20 5D	1.250	1.250	6.000	1.380	1.500	CN.. 543 CN.. 160612	ATK-04	AKV-19-M7x25	AACN-3-0002	AAV-05-M6x15	AS-02	ABPL-02	AAL-05-4
DCLNL 24 5D	1.500	1.500	6.000	1.380	2.000	CN.. 543 CN.. 160612	ATK-04	AKV-19-M7x25	AACN-3-0002	AAV-05-M6x15	AS-02	ABPL-02	AAL-05-4



Illustrations shown may vary from actual product.

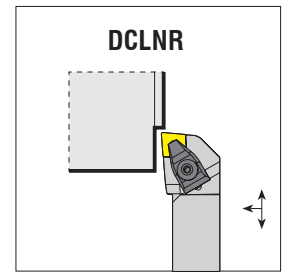
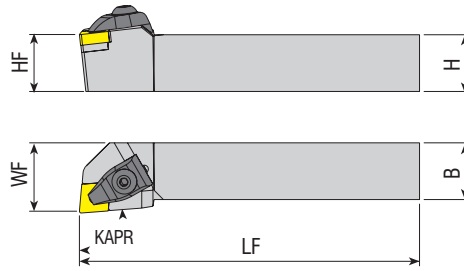


Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Spring	Ring	Threaded Pin	Allen Key
DCLNR 12 4B-H	0.750	0.750	4.500	1.690	1.000	CN.. 432 CN.. 120408	ATKH-01-R	AKV-33-M6x22	AACN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DCLNR 16 4D-H	1.000	1.000	6.000	1.650	1.250	CN.. 432 CN.. 120408	ATKH-01-R	AKV-33-M6x22	AACN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DCLNR 16 5D-H	1.000	1.000	6.000	1.770	1.250	CN.. 543 CN.. 160612	ATKH-07-R	AKV-39-M7X21	AACN-3-0002	AAV-05-M6X10	AKY-01	AXR-01	2705-G1/8x5.5	AAL-05-4
DCLNR 20 4D-H	1.250	1.250	6.000	1.650	1.500	CN.. 432 CN.. 120408	ATKH-01-R	AKV-33-M6x22	AACN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DCLNR 20 5D-H	1.250	1.250	6.000	1.770	1.500	CN.. 543 CN.. 160612	ATKH-07-R	AKV-39-M7X21	AACN-3-0002	AAV-05-M6X10	AKY-01	AXR-01	2705-G1/8x5.5	AAL-05-4
DCLNR 20 6D-H	1.250	1.250	6.000	1.960	1.500	CN.. 643 CN.. 190612	ATKH-09-R	AKV-39-M7X21	AACN-3-0003	AAV-17-M6X14	AKY-01	AXR-01	2705-G1/8x5.5	AAL-05-4
DCLNR 24 5E-H	1.500	1.500	7.000	1.770	2.000	CN.. 543 CN.. 160612	ATKH-07-R	AKV-39-M7X21	AACN-3-0002	AAV-05-M6X10	AKY-01	AXR-01	2705-G1/8x5.5	AAL-05-4
DCLNR 24 6E-H	1.500	1.500	7.000	1.960	2.000	CN.. 643 CN.. 190612	ATKH-09-R	AKV-39-M7X21	AACN-3-0003	AAV-17-M6X14	AKY-01	AXR-01	2705-G1/8x5.5	AAL-05-4
DCLNL 12 4B-H	0.750	0.750	4.500	1.690	1.000	CN.. 432 CN.. 120408	ATKH-02-L	AKV-33-M6x22	AACN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DCLNL 16 4D-H	1.000	1.000	6.000	1.650	1.250	CN.. 432 CN.. 120408	ATKH-02-L	AKV-33-M6x22	AACN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DCLNL 16 5D-H	1.000	1.000	6.000	1.770	1.250	CN.. 543 CN.. 160612	ATKH-08-L	AKV-39-M7X21	AACN-3-0002	AAV-05-M6X10	AKY-01	AXR-01	2705-G1/8x5.5	AAL-05-4
DCLNL 20 4D-H	1.250	1.250	6.000	1.650	1.500	CN.. 432 CN.. 120408	ATKH-02-L	AKV-33-M6x22	AACN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DCLNL 20 5D-H	1.250	1.250	6.000	1.770	1.500	CN.. 543 CN.. 160612	ATKH-08-L	AKV-39-M7X21	AACN-3-0002	AAV-05-M6X10	AKY-01	AXR-01	2705-G1/8x5.5	AAL-05-4
DCLNL 20 6D-H	1.250	1.250	6.000	1.960	1.500	CN.. 643 CN.. 190612	ATKH-10-L	AKV-39-M7X21	AACN-3-0003	AAV-17-M6X14	AKY-01	AXR-01	2705-G1/8x5.5	AAL-05-4
DCLNL 24 5E-H	1.500	1.500	7.000	1.770	2.000	CN.. 543 CN.. 160612	ATKH-08-L	AKV-39-M7X21	AACN-3-0002	AAV-05-M6X10	AKY-01	AXR-01	2705-G1/8x5.5	AAL-05-4
DCLNL 24 6E-H	1.500	1.500	7.000	1.960	2.000	CN.. 643 CN.. 190612	ATKH-10-L	AKV-39-M7X21	AACN-3-0003	AAV-17-M6X14	AKY-01	AXR-01	2705-G1/8x5.5	AAL-05-4



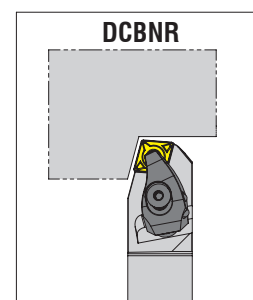
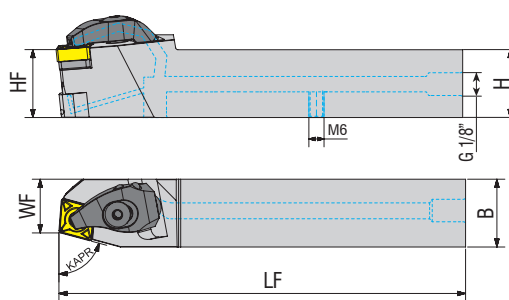
Illustrations shown may vary from actual product.



Dimensions in Metric												
Ordering Code	HF=H	B	LF	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Allen Key
DCLNR 2020 K12	20	20	125	25	CN.. 43.. CN.. 1204..	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DCLNR 2525 M12	25	25	150	32	CN.. 43.. CN.. 1204..	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DCLNR 3232 P12	32	32	170	40	CN.. 43.. CN.. 1204..	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DCLNR 4040 S12	40	40	250	50	CN.. 43.. CN.. 1204..	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DCLNR 5050 S12	50	50	250	63	CN.. 43.. CN.. 1204..	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DCLNR 2525 M16	25	25	150	32	CN.. 54.. CN.. 1606..	ATK-04	AKV-19-M7x25	AACN-3-0002	AAV-05-M6x15	AS-02	ABPL-02	AAL-05-4
DCLNR 3232 P16	32	32	170	40	CN.. 54.. CN.. 1606..	ATK-04	AKV-19-M7x25	AACN-3-0002	AAV-05-M6x15	AS-02	ABPL-02	AAL-05-4
DCLNL 2020 K12	20	20	125	25	CN.. 43.. CN.. 1204..	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DCLNL 2525 M12	25	25	150	32	CN.. 43.. CN.. 1204..	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DCLNL 3232 P12	32	32	170	40	CN.. 43.. CN.. 1204..	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DCLNL 4040 S12	40	40	250	50	CN.. 43.. CN.. 1204..	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DCLNL 5050 S12	50	50	250	63	CN.. 43.. CN.. 1204..	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DCLNL 2525 M16	25	25	150	32	CN.. 54.. CN.. 1606..	ATK-04	AKV-19-M7x25	AACN-3-0002	AAV-05-M6x15	AS-02	ABPL-02	AAL-05-4
DCLNL 3232 P16	32	32	170	40	CN.. 54.. CN.. 1606..	ATK-04	AKV-19-M7x25	AACN-3-0002	AAV-05-M6x15	AS-02	ABPL-02	AAL-05-4



Illustrations shown may vary from actual product.

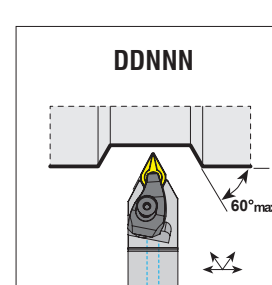
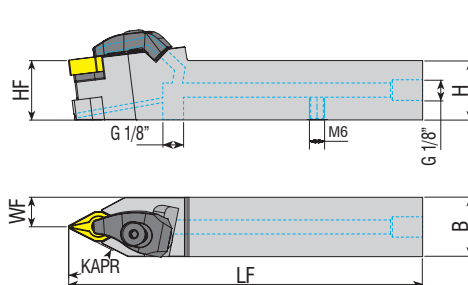


Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Spring	Ring	Threaded Pin	Allen Key
DCBNR 12 4D-H	0.750	0.750	6.000	1.770	0.600	CN.. 432 CN.. 120408	ATKH-01-R	AKV-33-M6x22	AACN-3-0001	AAV-13-M5X8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DCBNR 16 4D-H	1.000	1.000	6.000	1.770	0.910	CN.. 432 CN.. 120408	ATKH-01-R	AKV-33-M6x22	AACN-3-0001	AAV-13-M5X8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DCBNR 20 4D-H	1.250	1.250	6.000	1.770	0.990	CN.. 432 CN.. 120408	ATKH-01-R	AKV-33-M6x22	AACN-3-0001	AAV-13-M5X8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DCBNL 12 4D-H	0.750	0.750	6.000	1.770	0.600	CN.. 432 CN.. 120408	ATKH-02-L	AKV-33-M6x22	AACN-3-0001	AAV-13-M5X8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DCBNL 16 4D-H	1.000	1.000	6.000	1.770	0.910	CN.. 432 CN.. 120408	ATKH-02-L	AKV-33-M6x22	AACN-3-0001	AAV-13-M5X8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DCBNL 20 4D-H	1.250	1.250	6.000	1.770	0.990	CN.. 432 CN.. 120408	ATKH-02-L	AKV-33-M6x22	AACN-3-0001	AAV-13-M5X8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3

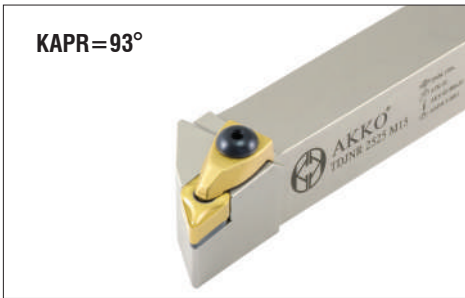


Illustrations shown may vary from actual product.

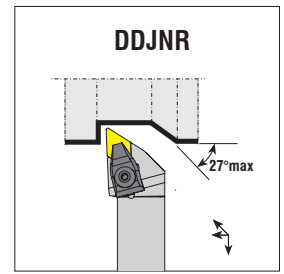
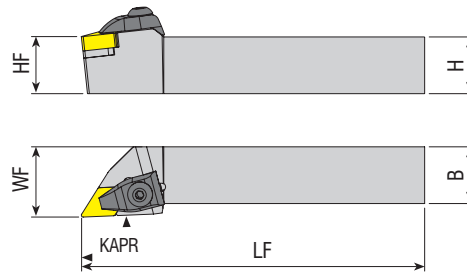


Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Spring	Ring	Threaded Pin	Allen Key
DDNNN 16 4D-H	1.000	1.000	6.000	2.000	0.500	DN.. 432 DN.. 150408	ATKH-01-R	AKV-33-M6x22	AADN-3-0001	AAV-13-M5X8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DDNNN 20 4D-H	1.250	1.250	6.000	2.000	0.625	DN.. 432 DN.. 150408	ATKH-01-R	AKV-33-M6x22	AADN-3-0001	AAV-13-M5X8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3



Illustrations shown may vary from actual product.

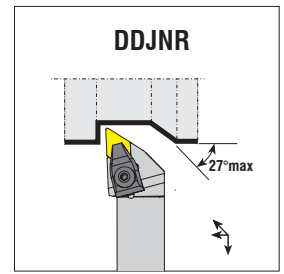
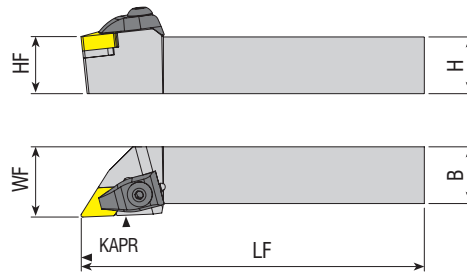


Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Allen Key
DDJNR 12 3B	0.750	0.750	4.500	1.250	1.000	DN.. 332 DN.. 110408	ATK-01	AKV-01-M5x22	AADN-2-0001	AAV-04-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNR 16 3C	1.000	1.000	5.000	1.250	1.250	DN.. 332 DN.. 110408	ATK-01	AKV-01-M5x22	AADN-2-0001	AAV-04-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNR 16 3D	1.000	1.000	6.000	1.250	1.250	DN.. 332 DN.. 110408	ATK-01	AKV-01-M5x22	AADN-2-0001	AAV-04-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNR 20 3D	1.250	1.250	6.000	1.250	1.500	DN.. 332 DN.. 110408	ATK-01	AKV-01-M5x22	AADN-2-0001	AAV-04-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNR 12 4B	0.750	0.750	4.500	1.000	1.500	DN.. 432 DN.. 150408	ATK-02	AKV-30-M6x22	AADN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNR 16 4C	1.000	1.000	5.000	1.500	1.250	DN.. 432 DN.. 150408	ATK-02	AKV-30-M6x22	AADN-2-0003	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNR 16 4D	1.000	1.000	6.000	1.500	1.250	DN.. 432 DN.. 150408	ATK-02	AKV-30-M6x22	AADN-2-0003	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNR 20 4D	1.250	1.250	6.000	1.500	1.500	DN.. 432 DN.. 150408	ATK-02	AKV-30-M6x22	AADN-2-0003	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNL 12 3B	0.750	0.750	4.500	1.250	1.000	DN.. 332 DN.. 110408	ATK-01	AKV-01-M5x22	AADN-2-0001	AAV-04-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNL 16 3C	1.000	1.000	5.000	1.250	1.250	DN.. 332 DN.. 110408	ATK-01	AKV-01-M5x22	AADN-2-0001	AAV-04-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNL 16 3D	1.000	1.000	6.000	1.250	1.250	DN.. 332 DN.. 110408	ATK-01	AKV-01-M5x22	AADN-2-0001	AAV-04-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNL 16 4C	1.000	1.000	5.000	1.500	1.250	DN.. 432 DN.. 150408	ATK-02	AKV-30-M6x22	AADN-2-0003	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNL 16 4D	1.000	1.000	6.000	1.500	1.250	DN.. 432 DN.. 150408	ATK-02	AKV-30-M6x22	AADN-2-0003	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNL 20 4D	1.250	1.250	6.000	1.500	1.500	DN.. 432 DN.. 150408	ATK-02	AKV-30-M6x22	AADN-2-0003	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3



Illustrations shown may vary from actual product.

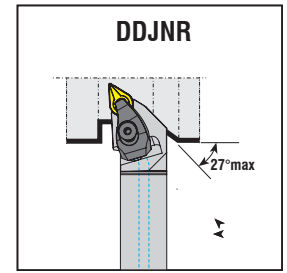
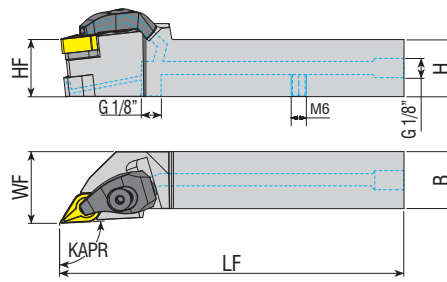


Dimensions in Metric

Ordering Code	HF=H	B	LF	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Allen Key
DDJNR 1616 H11	16	16	100	20	DN.. 33.. DN.. 1104..	ATK-01	AKV-01-M5x22	AADN-2-0001	AAV-04-M5x12	-	ABPL-01	AAL-03-3
DDJNR 2020 K11	20	20	125	25	DN.. 33.. DN.. 1104..	ATK-01	AKV-01-M5x22	AADN-2-0001	AAV-04-M5x12	-	ABPL-01	AAL-03-3
DDJNR 2525 M11	25	25	150	32	DN.. 33.. DN.. 1104..	ATK-01	AKV-01-M5x22	AADN-2-0001	AAV-04-M5x12	-	ABPL-01	AAL-03-3
DDJNR 2020 K15	20	20	125	25	DN.. 44.. DN.. 1506..	ATK-02	AKV-30-M6x22	AADN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNR 2525 M15	25	25	150	32	DN.. 44.. DN.. 1506..	ATK-02	AKV-30-M6x22	AADN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNR 3232 P15	32	32	170	40	DN.. 44.. DN.. 1506..	ATK-02	AKV-30-M6x22	AADN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNR 4040 S15	40	40	250	50	DN.. 44.. DN.. 1506..	ATK-02	AKV-30-M6x22	AADN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNR 5050 S15	50	50	250	63	DN.. 44.. DN.. 1506..	ATK-02	AKV-30-M6x22	AADN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNR 2020 K1504	20	20	125	25	DN.. 43.. DN.. 1504..	ATK-02	AKV-30-M6x22	AADN-2-0003	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNR 2525 M1504	25	25	150	32	DN.. 43.. DN.. 1504..	ATK-02	AKV-30-M6x22	AADN-2-0003	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNR 3232 P1504	32	32	170	40	DN.. 43.. DN.. 1504..	ATK-02	AKV-30-M6x22	AADN-2-0003	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNR 4040 S1504	40	40	250	50	DN.. 43.. DN.. 1504..	ATK-02	AKV-30-M6x22	AADN-2-0003	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNL 1616 H11	16	16	100	20	DN.. 33.. DN.. 1104..	ATK-01	AKV-01-M5x22	AADN-2-0001	AAV-04-M5x12	-	ABPL-01	AAL-03-3
DDJNL 2020 K11	20	20	125	25	DN.. 33.. DN.. 1104..	ATK-01	AKV-01-M5x22	AADN-2-0001	AAV-04-M5x12	-	ABPL-01	AAL-03-3
DDJNL 2525 M11	25	25	150	32	DN.. 33.. DN.. 1104..	ATK-01	AKV-01-M5x22	AADN-2-0001	AAV-04-M5x12	-	ABPL-01	AAL-03-3
DDJNL 2020 K15	20	20	125	25	DN.. 44.. DN.. 1506..	ATK-02	AKV-30-M6x22	AADN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNL 2525 M15	25	25	150	32	DN.. 44.. DN.. 1506..	ATK-02	AKV-30-M6x22	AADN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNL 3232 P15	32	32	170	40	DN.. 44.. DN.. 1506..	ATK-02	AKV-30-M6x22	AADN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNL 4040 S15	40	40	250	50	DN.. 44.. DN.. 1506..	ATK-02	AKV-30-M6x22	AADN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNL 5050 S15	50	50	250	63	DN.. 44.. DN.. 1506..	ATK-02	AKV-30-M6x22	AADN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNL 2020 K1504	20	20	125	25	DN.. 43.. DN.. 1504..	ATK-02	AKV-30-M6x22	AADN-2-0003	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNL 2525 M1504	25	25	150	32	DN.. 43.. DN.. 1504..	ATK-02	AKV-30-M6x22	AADN-2-0003	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNL 3232 P1504	32	32	170	40	DN.. 43.. DN.. 1504..	ATK-02	AKV-30-M6x22	AADN-2-0003	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DDJNL 4040 S1504	40	40	250	50	DN.. 43.. DN.. 1504..	ATK-02	AKV-30-M6x22	AADN-2-0003	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3



Illustrations shown may vary from actual product.

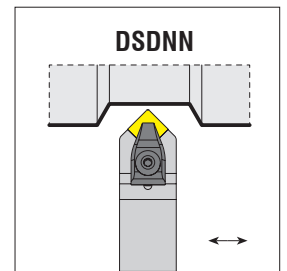
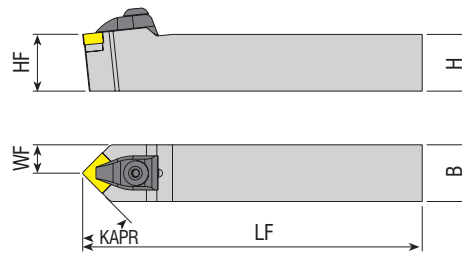


Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Spring	Ring	Threaded Pin	Allen Key
DDJNR 12 4B-H	0.750	0.750	4.500	1.930	1.000	DN.. 442 DN.. 150608	ATKH-01-R	AKV-33-M6x22	AADN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DDJNR 16 4D-H	1.000	1.000	6.000	1.930	1.250	DN.. 442 DN.. 150608	ATKH-01-R	AKV-33-M6x22	AADN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DDJNR 20 4D-H	1.250	1.250	6.000	1.930	1.500	DN.. 442 DN.. 150608	ATKH-01-R	AKV-33-M6x22	AADN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DDJNL 12 4B-H	0.750	0.750	4.500	1.930	1.000	DN.. 442 DN.. 150608	ATKH-02-L	AKV-33-M6x22	AADN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DDJNL 16 4D-H	1.000	1.000	6.000	1.930	1.250	DN.. 442 DN.. 150608	ATKH-02-L	AKV-33-M6x22	AADN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DDJNL 20 4D-H	1.250	1.250	6.000	1.930	1.500	DN.. 442 DN.. 150608	ATKH-02-L	AKV-33-M6x22	AADN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3



Illustrations shown may vary from actual product.



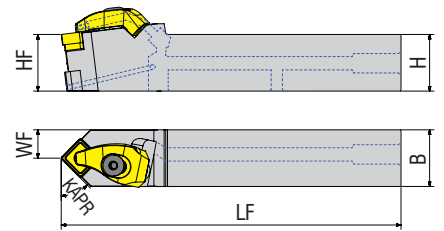
Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Allen Key
DSDNN 12 4B	0.750	0.750	4.500	1.440	0.375	SN.. 432 SN.. 120408	ATK-02	AKV-30-M6x22	AASN-3-0004	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DSDNN 16 4D	1.000	1.000	6.000	1.440	0.500	SN.. 432 SN.. 120408	ATK-02	AKV-30-M6x22	AASN-3-0004	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DSDNN 20 4D	1.250	1.250	6.000	1.440	0.625	SN.. 432 SN.. 120408	ATK-02	AKV-30-M6x22	AASN-3-0004	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3

KAPR=45°



Illustrations shown may vary from actual product.

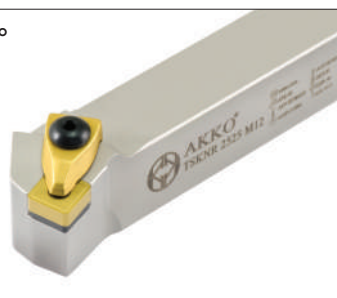


Dimensions in Inch

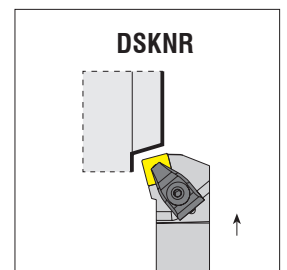
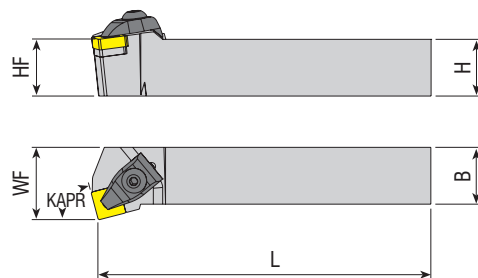
Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Spring	Allen Key
DSDNN 16 4D-H	1.000	1.000	6.000	1.850	0.500	SN.. 432 SN.. 120408	ATKH-01-R	AKV-33-M6x22	AASN-3-0004	AAV-02-M5x12	AXR-01	AKY-01	AAL-03-3
DSDNN 20 4D-H	1.250	1.250	6.000	1.850	0.625	SN.. 432 SN.. 120408	ATKH-01-R	AKV-33-M6x22	AASN-3-0004	AAV-02-M5x12	AXR-01	AKY-01	AAL-03-3
DSDNN 16 5D-H	1.000	1.000	6.000	2.000	0.500	SN.. 543 SN.. 150612	ATKH-07-R	AKV-39-M7x21	AASN-3-0023	AAV-05-M6x10	AXR-01	AKY-01	AAL-05-4
DSDNN 20 5D-H	1.250	1.250	6.000	2.000	0.625	SN.. 543 SN.. 150612	ATKH-07-R	AKV-39-M7x21	AASN-3-0023	AAV-05-M6x10	AXR-01	AKY-01	AAL-05-4
DSDNN 24 5E-H	1.500	1.500	7.000	2.150	0.750	SN.. 543 SN.. 150612	ATKH-07-R	AKV-39-M7x21	AASN-3-0023	AAV-05-M6x10	AXR-01	AKY-02	AAL-05-4



KAPR=75°



Illustrations shown may vary from actual product.



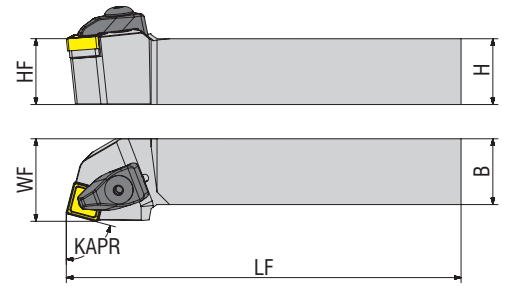
Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Allen Key
DSKNR 16 4C	1.000	1.000	5.000	1.300	1.250	SN.. 432 SN.. 120408	ATK-02	AKV-30-M6x22	AASN-3-0004	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DSKNL 16 4C	1.000	1.000	5.000	1.300	1.250	SN.. 432 SN.. 120408	ATK-02	AKV-30-M6x22	AASN-3-0004	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3





Illustrations shown may vary from actual product.

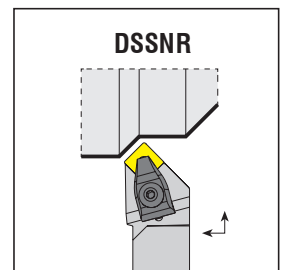
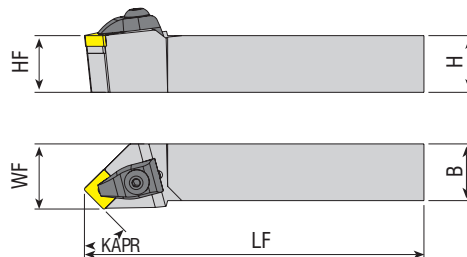


Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Allen Key
DSRNL 16 4D	1.000	1.000	6.000	1.300	1.130	SN.. 432 SN.. 120408	ATK-02	AKV-30-M6x22	AASN-3-0004	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DSRNL 20 4D	1.250	1.250	6.000	1.300	1.380	SN.. 432 SN.. 120408	ATK-02	AKV-30-M6x22	AASN-3-0004	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3



Illustrations shown may vary from actual product.

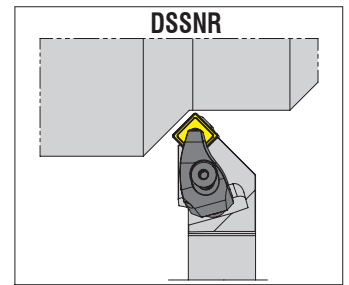
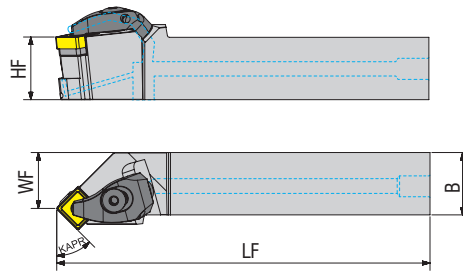


Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Allen Key
DSSNR 16 4D	1.000	1.000	6.000	1.300	0.912	SN.. 432 SN.. 120408	ATK-02	AKV-30-M6x22	AASN-3-0004	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3



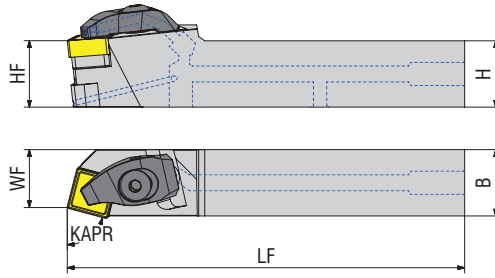
Illustrations shown may vary from actual product.



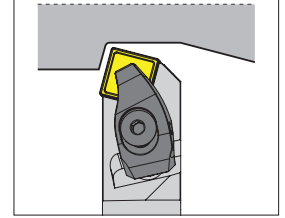
Dimensions in Inch						        								
Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Spring	Ring	Threaded Pin	Allen Key
DSSNR 16 4D-H	1.000	1.000	6.000	1.810	1.250	SN.. 432 SN.. 120408	ATKH-02-L	AKV-33-M6x22	AASN-3-0004	AAV-13-M5X8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DSSNR 20 4D-H	1.250	1.250	6.000	1.810	1.500	SN.. 432 SN.. 120408	ATKH-02-L	AKV-33-M6x22	AASN-3-0004	AAV-13-M5X8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DSSNR 16 5D-H	1.000	1.000	6.000	2.000	1.250	SN.. 543 SN.. 150612	ATKH-08-L	AKV-39-M7x21	AASN-3-0023	AAV-05-M6x10	AKY-01	AXR-01	2705-G1/8x5.5	AAL-05-4
DSSNR 20 5D-H	1.250	1.250	6.000	2.000	1.500	SN.. 543 SN.. 150612	ATKH-08-L	AKV-39-M7x21	AASN-3-0023	AAV-05-M6x10	AKY-01	AXR-01	2705-G1/8x5.5	AAL-05-4
DSSNR 24 5E-H	1.500	1.500	7.000	2.000	2.000	SN.. 543 SN.. 150612	ATKH-08-L	AKV-39-M7x21	AASN-3-0023	AAV-05-M6x10	AKY-01	AXR-01	2705-G1/8x5.5	AAL-05-4
DSSNL 16 4D-H	1.000	1.000	6.000	1.810	1.250	SN.. 432 SN.. 120408	ATKH-01-R	AKV-33-M6x22	AASN-3-0004	AAV-13-M5X8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DSSNL 20 4D-H	1.250	1.250	6.000	1.810	1.500	SN.. 432 SN.. 120408	ATKH-01-R	AKV-33-M6x22	AASN-3-0004	AAV-13-M5X8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DSSNL 16 5D-H	1.000	1.000	6.000	2.000	1.250	SN.. 543 SN.. 150612	ATKH-07-R	AKV-39-M7x21	AASN-3-0023	AAV-05-M6x10	AKY-01	AXR-01	2705-G1/8x5.5	AAL-05-4
DSSNL 20 5D-H	1.250	1.250	6.000	2.000	1.500	SN.. 543 SN.. 150612	ATKH-07-R	AKV-39-M7x21	AASN-3-0023	AAV-05-M6x10	AKY-01	AXR-01	2705-G1/8x5.5	AAL-05-4
DSSNL 24 5E-H	1.500	1.500	7.000	2.000	2.000	SN.. 543 SN.. 150612	ATKH-07-R	AKV-39-M7x21	AASN-3-0023	AAV-05-M6x10	AKY-01	AXR-01	2705-G1/8x5.5	AAL-05-4

The left wedge clamp should be used on right-hand tools. and the right wedge clamp should be used on left-hand tools.

KAPR=75°



DSBNR



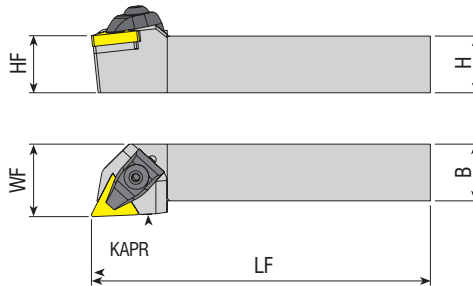
Illustrations shown may vary from actual product.

Dimensions in Inch

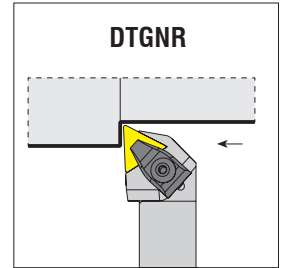


Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Spring	Ring	Threaded Pin	Allen Key
DSBNR 16 4D-H	1.000	1.000	6.000	1.730	0.790	SN.. 432 SN.. 120408	ATKH-01-R	AKV-33-M6x22	AASN-3-0004	AAV-02-M5x12	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DSBNR 20 4D-H	1.250	1.250	6.000	1.770	0.990	SN.. 432 SN.. 120408	ATKH-01-R	AKV-33-M6x22	AASN-3-0004	AAV-02-M5x12	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DSBNR 16 5D-H	1.000	1.000	6.000	1.960	0.790	SN.. 543 SN.. 150612	ATKH-07-R	AKV-39-M7x21	AASN-3-0023	AAV-05-M6x10	AKY-01	AXR-01	2705-G1/8x5.5	AAL-05-4
DSBNR 20 5D-H	1.250	1.250	6.000	1.960	0.990	SN.. 543 SN.. 150612	ATKH-07-R	AKV-39-M7x21	AASN-3-0023	AAV-05-M6x10	AKY-01	AXR-01	2705-G1/8x5.5	AAL-05-4
DSBNL 16 4D-H	1.000	1.000	6.000	1.730	0.790	SN.. 432 SN.. 120408	ATKH-02-L	AKV-33-M6x22	AASN-3-0004	AAV-02-M5x12	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DSBNL 20 4D-H	1.250	1.250	6.000	1.770	0.990	SN.. 432 SN.. 120408	ATKH-02-L	AKV-33-M6x22	AASN-3-0004	AAV-02-M5x12	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DSBNL 16 5D-H	1.000	1.000	6.000	1.960	0.790	SN.. 543 SN.. 150612	ATKH-08-L	AKV-39-M7x21	AASN-3-0023	AAV-05-M6x10	AKY-01	AXR-01	2705-G1/8x5.5	AAL-05-4
DSBNL 20 5D-H	1.250	1.250	6.000	1.960	0.990	SN.. 543 SN.. 150612	ATKH-08-L	AKV-39-M7x21	AASN-3-0023	AAV-05-M6x10	AKY-01	AXR-01	2705-G1/8x5.5	AAL-05-4

KAPR=90°



DTGNR



Illustrations shown may vary from actual product.

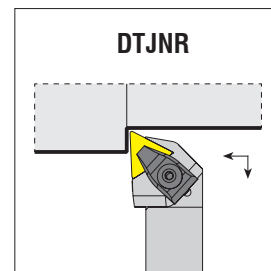
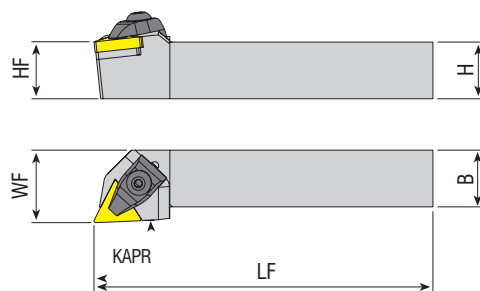
Dimensions in Inch



Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Allen Key
DTGNR 12 3B	0.750	0.750	4.500	1.250	1.000	TN.. 332 TN.. 160408	ATK-01	AKV-01-M5x22	AATN-2-0002	AAV-03-M5x12	-	ABPL-01	AAL-03-3
DTGNR 16 4D	1.000	1.000	6.000	1.250	1.250	TN.. 432 TN.. 220408	ATK-02	AKV-30-M6x22	AATN-3-0015	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DTGNL 16 3D	1.000	1.000	6.000	1.250	1.250	TN.. 332 TN.. 160408	ATK-01	AKV-01-M5x22	AATN-2-0002	AAV-03-M5x12	-	ABPL-01	AAL-03-3



Illustrations shown may vary from actual product.

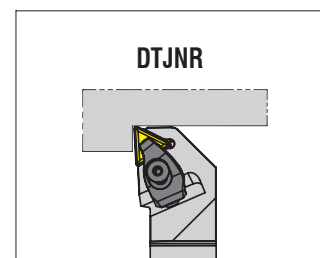
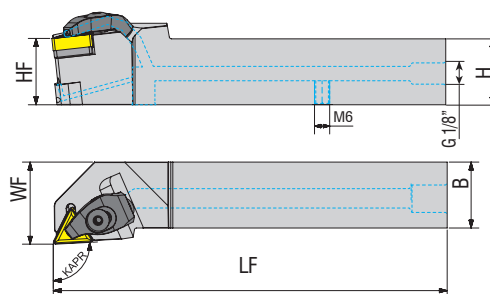


Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Allen Key
DTJNR 16 4D	1.000	1.000	6.000	1.250	1.250	TN.. 432 TN.. 220408	ATK-02	AKV-30-M6x22	AATN-3-0015	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3



Illustrations shown may vary from actual product.



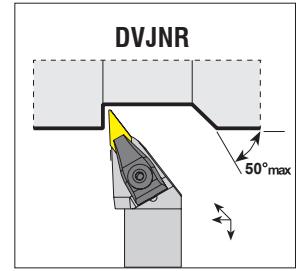
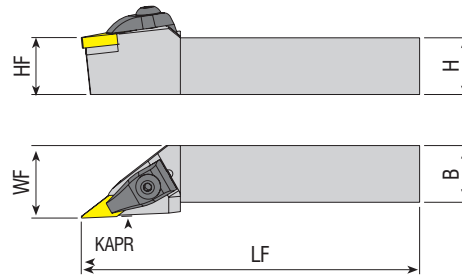
Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Spring	Ring	Threaded Pin	Allen Key
DTJNR 16 3D-H	1.000	1.000	6.000	1.810	1.250	TN.. 332 TN.. 160408	ATKH-03-R	AKV-37-M5x18	AATN-2-0002	AAV-03-M5x12	AKY-02	AXR-02	2705-G1/8x5.5	AAL-02-2.5
DTJNR 20 3D-H	1.250	1.250	6.000	1.810	1.500	TN.. 332 TN.. 160408	ATKH-03-R	AKV-37-M5x18	AATN-2-0002	AAV-03-M5x12	AKY-02	AXR-02	2705-G1/8x5.5	AAL-02-2.5
DTJNR 16 4D-H	1.000	1.000	6.000	1.810	1.250	TN.. 432 TN.. 220408	ATKH-01-R	AKV-33-M6x22	AATN-3-0015	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DTJNR 20 4D-H	1.250	1.250	6.000	1.810	1.500	TN.. 432 TN.. 220408	ATKH-01-R	AKV-33-M6x22	AATN-3-0015	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DTJNL 16 3D-H	1.000	1.000	6.000	1.810	1.250	TN.. 332 TN.. 160408	ATKH-04-L	AKV-37-M5x18	AATN-2-0002	AAV-03-M5x12	AKY-02	AXR-02	2705-G1/8x5.5	AAL-02-2.5
DTJNL 20 3D-H	1.250	1.250	6.000	1.810	1.500	TN.. 332 TN.. 160408	ATKH-04-L	AKV-37-M5x18	AATN-2-0002	AAV-03-M5x12	AKY-02	AXR-02	2705-G1/8x5.5	AAL-02-2.5
DTJNL 16 4D-H	1.000	1.000	6.000	1.810	1.250	TN.. 432 TN.. 220408	ATKH-02-L	AKV-33-M6x22	AATN-3-0015	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DTJNL 20 4D-H	1.250	1.250	6.000	1.810	1.500	TN.. 432 TN.. 220408	ATKH-02-L	AKV-33-M6x22	AATN-3-0015	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3

KAPR=93°



Illustrations shown may vary from actual product.



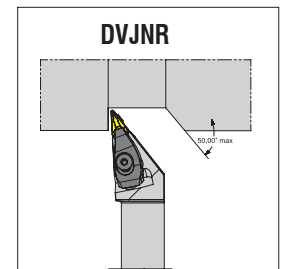
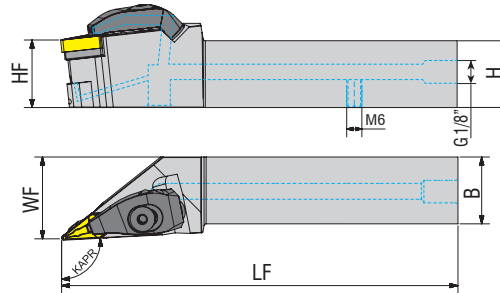
Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Allen Key
DVJNR 12 3C	0.750	0.750	5.000	1.750	1.000	VN.. 332 VN.. 160408	ATK-03	AKV-30-M6x22	AAVN-2-0002	AAV-04-M5x12	AS-01	ABPL-01	AAL-03-3
DVJNR 16 3D	1.000	1.000	6.000	1.750	1.250	VN.. 332 VN.. 160408	ATK-03	AKV-30-M6x22	AAVN-2-0002	AAV-04-M5x12	AS-01	ABPL-01	AAL-03-3
DVJNR 85 3D	1.250	1.000	6.000	1.750	1.250	VN.. 332 VN.. 160408	ATK-03	AKV-30-M6x22	AAVN-2-0002	AAV-04-M5x12	AS-01	ABPL-01	AAL-03-3
DVJNL 12 3C	0.750	0.750	5.000	1.750	1.000	VN.. 332 VN.. 160408	ATK-03	AKV-30-M6x22	AAVN-2-0002	AAV-04-M5x12	AS-01	ABPL-01	AAL-03-3
DVJNL 16 3D	1.000	1.000	6.000	1.750	1.250	VN.. 332 VN.. 160408	ATK-03	AKV-30-M6x22	AAVN-2-0002	AAV-04-M5x12	AS-01	ABPL-01	AAL-03-3
DVJNL 85 3D	1.250	1.000	6.000	1.750	1.250	VN.. 332 VN.. 160408	ATK-03	AKV-30-M6x22	AAVN-2-0002	AAV-04-M5x12	AS-01	ABPL-01	AAL-03-3

KAPR=93°



Illustrations shown may vary from actual product.

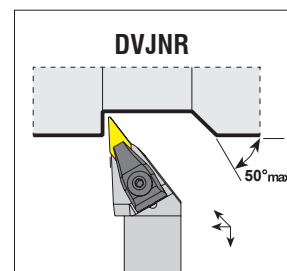
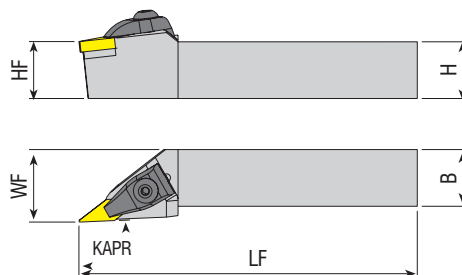


Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Spring	Ring	Threaded Pin	Allen Key
DVJNR 12 3B-H	0.750	0.750	4.500	2.200	1.000	VN.. 332 VN.. 160408	ATKH-05-R	AKV-33-M6x22	AAVN-2-0002	AAV-04-M5x12	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DVJNR 16 3D-H	1.000	1.000	6.000	2.200	1.250	VN.. 332 VN.. 160408	ATKH-05-R	AKV-33-M6x22	AAVN-2-0002	AAV-04-M5x12	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DVJNR 20 3D-H	1.250	1.250	6.000	2.200	1.250	VN.. 332 VN.. 160408	ATKH-05-R	AKV-33-M6x22	AAVN-2-0002	AAV-04-M5x12	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DVJNL 12 3B-H	0.750	0.750	4.500	2.200	1.000	VN.. 332 VN.. 160408	ATKH-06-L	AKV-33-M6x22	AAVN-2-0002	AAV-04-M5x12	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DVJNL 16 3D-H	1.000	1.000	6.000	2.200	1.250	VN.. 332 VN.. 160408	ATKH-06-L	AKV-33-M6x22	AAVN-2-0002	AAV-04-M5x12	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DVJNL 20 3D-H	1.250	1.250	6.000	2.200	1.250	VN.. 332 VN.. 160408	ATKH-06-L	AKV-33-M6x22	AAVN-2-0002	AAV-04-M5x12	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3



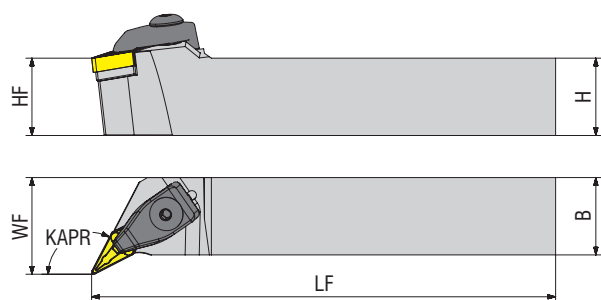
Illustrations shown may vary from actual product.



Dimensions in Metric												
Ordering Code	HF=H	B	LF	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Allen Key
DVJNR 2020 K16	20	20	125	25	VN.. 33.. VN.. 1604..	ATK-03	AKV-30-M6x22	AAVN-2-0002	AAV-04-M5x12	AS-01	ABPL-01	AAL-03-3
DVJNR 2525 M16	25	25	150	32	VN.. 33.. VN.. 1604..	ATK-03	AKV-30-M6x22	AAVN-2-0002	AAV-04-M5x12	AS-01	ABPL-01	AAL-03-3
DVJNR 3232 P16	32	32	170	40	VN.. 33.. VN.. 1604..	ATK-03	AKV-30-M6x22	AAVN-2-0002	AAV-04-M5x12	AS-01	ABPL-01	AAL-03-3
DVJNL 2020 K16	20	20	125	25	VN.. 33.. VN.. 1604..	ATK-03	AKV-30-M6x22	AAVN-2-0002	AAV-04-M5x12	AS-01	ABPL-01	AAL-03-3
DVJNL 2525 M16	25	25	150	32	VN.. 33.. VN.. 1604..	ATK-03	AKV-30-M6x22	AAVN-2-0002	AAV-04-M5x12	AS-01	ABPL-01	AAL-03-3
DVJNL 3232 P16	32	32	170	40	VN.. 33.. VN.. 1604..	ATK-03	AKV-30-M6x22	AAVN-2-0002	AAV-04-M5x12	AS-01	ABPL-01	AAL-03-3



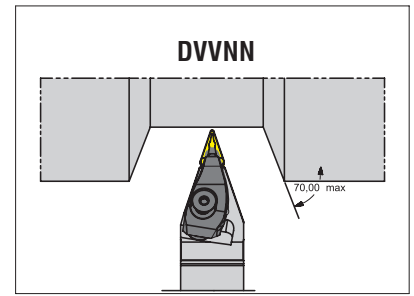
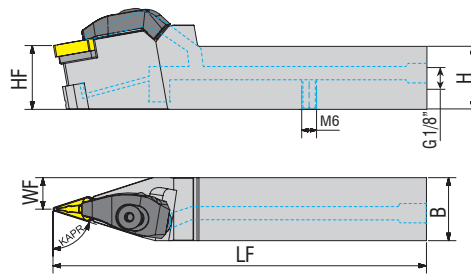
Illustrations shown may vary from actual product.



Dimensions in Inch													
Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Allen Key
DVONR 12 3C	0.750	0.750	5.000	1.500	1.000	VN.. 332 VN.. 160408	ATK-03	AKV-30-M6x22	AAVN-2-0002	AAV-04-M5x12	AS-01	ABPL-01	AAL-03-3
DVONR 16 3D	1.000	1.000	6.000	1.470	1.250	VN.. 332 VN.. 160408	ATK-03	AKV-30-M6x22	AAVN-2-0002	AAV-04-M5x12	AS-01	ABPL-01	AAL-03-3
DVONR 85 3D	1.250	1.000	6.000	1.470	1.250	VN.. 332 VN.. 160408	ATK-03	AKV-30-M6x22	AAVN-2-0002	AAV-04-M5x12	AS-01	ABPL-01	AAL-03-3
DVONL 12 3C	0.750	0.750	5.000	1.500	1.000	VN.. 332 VN.. 160408	ATK-03	AKV-30-M6x22	AAVN-2-0002	AAV-04-M5x12	AS-01	ABPL-01	AAL-03-3
DVONL 16 3D	1.000	1.000	6.000	1.470	1.250	VN.. 332 VN.. 160408	ATK-03	AKV-30-M6x22	AAVN-2-0002	AAV-04-M5x12	AS-01	ABPL-01	AAL-03-3
DVONL 85 3D	1.250	1.000	6.000	1.470	1.250	VN.. 332 VN.. 160408	ATK-03	AKV-30-M6x22	AAVN-2-0002	AAV-04-M5x12	AS-01	ABPL-01	AAL-03-3



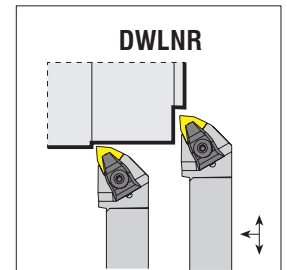
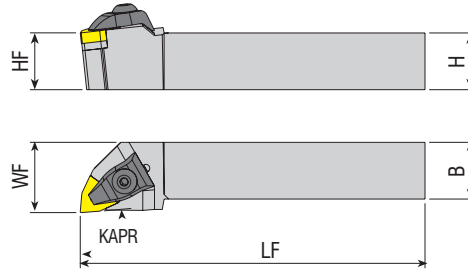
Illustrations shown may vary from actual product.



Dimensions in Inch														
Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Spring	Ring	Threaded Pin	Allen Key
DVVNN 16 3D-H	1.000	1.000	6.000	2.360	0.500	VN.. 332 VN.. 160408	ATKH-05-R	AKV-33-M6x22	AAVN-2-0002	AAV-04-M5x12	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DVVNN 12 3B-H	0.750	0.750	4.500	2.250	0.375	VN.. 332 VN.. 160408	ATKH-05-R	AKV-33-M6x22	AAVN-2-0002	AAV-04-M5x12	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3



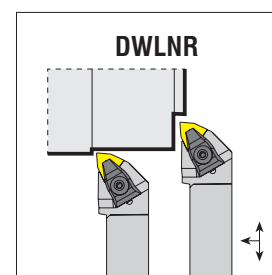
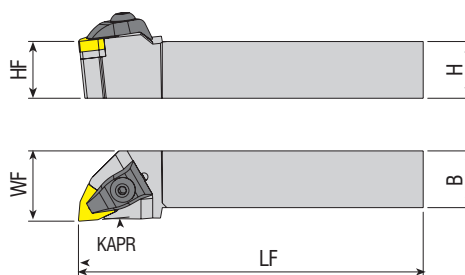
Illustrations shown may vary from actual product.



Dimensions in Inch													
Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Allen Key
DWLNR 12 3B	0.750	0.750	4.500	1.000	1.000	WN.. 332 WN.. 060408	ATK-01	AKV-01-M5x22	AAWN-SW317	AAV-01-M3x10	-	ABPL-01	AAL-03-3
DWLNR 16 3C	1.000	1.000	5.000	1.000	1.250	WN.. 332 WN.. 060408	ATK-01	AKV-01-M5x22	AAWN-SW317	AAV-01-M3x10	-	ABPL-01	AAL-03-3
DWLNR 16 3D	1.000	1.000	6.000	1.000	1.250	WN.. 332 WN.. 060408	ATK-01	AKV-01-M5x22	AAWN-SW317	AAV-01-M3x10	-	ABPL-01	AAL-03-3
DWLNR 16 4C	1.000	1.000	5.000	1.250	1.250	WN.. 432 WN.. 080408	ATK-02	AKV-30-M6x22	AAWN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DWLNR 16 4D	1.000	1.000	6.000	1.250	1.250	WN.. 432 WN.. 080408	ATK-02	AKV-30-M6x22	AAWN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DWLNR 20 4D	1.250	1.250	6.000	1.250	1.500	WN.. 432 WN.. 080408	ATK-02	AKV-30-M6x22	AAWN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DWLNL 12 3B	0.750	0.750	4.500	1.000	1.000	WN.. 332 WN.. 060408	ATK-01	AKV-01-M5x22	AAWN-SW317	AAV-01-M3x10	-	ABPL-01	AAL-03-3
DWLNL 16 3C	1.000	1.000	5.000	1.000	1.250	WN.. 332 WN.. 060408	ATK-01	AKV-01-M5x22	AAWN-SW317	AAV-01-M3x10	-	ABPL-01	AAL-03-3
DWLNL 16 3D	1.000	1.000	6.000	1.000	1.250	WN.. 332 WN.. 060408	ATK-01	AKV-01-M5x22	AAWN-SW317	AAV-01-M3x10	-	ABPL-01	AAL-03-3
DWLNL 16 4C	1.000	1.000	5.000	1.250	1.250	WN.. 432 WN.. 080408	ATK-02	AKV-30-M6x22	AAWN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DWLNL 16 4D	1.000	1.000	6.000	1.250	1.250	WN.. 432 WN.. 080408	ATK-02	AKV-30-M6x22	AAWN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DWLNL 20 4D	1.250	1.250	6.000	1.250	1.500	WN.. 432 WN.. 080408	ATK-02	AKV-30-M6x22	AAWN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3



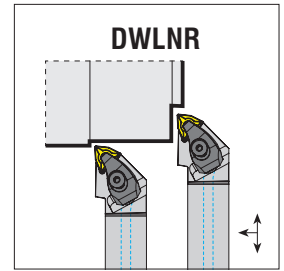
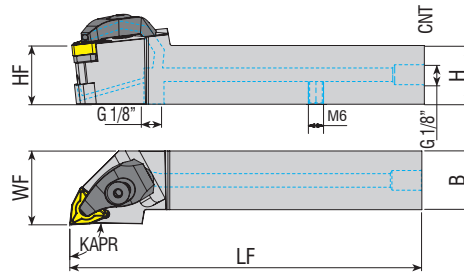
Illustrations shown may vary from actual product.



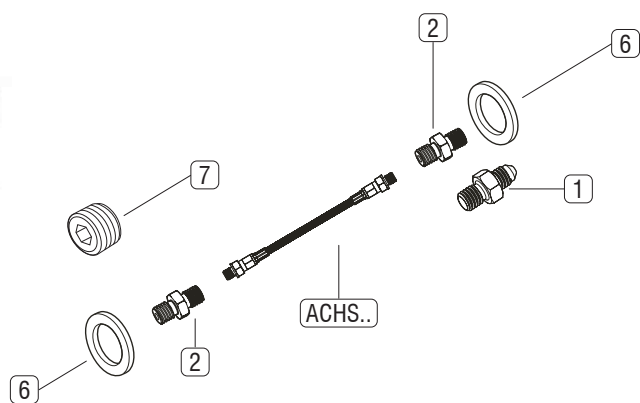
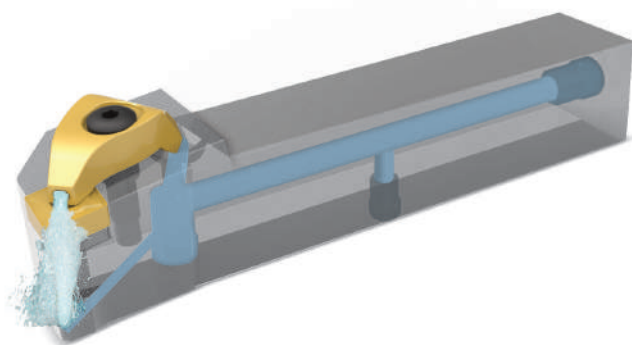
Dimensions in Metric												
Ordering Code	HF=H	B	LF	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Allen Key
DWLNR 1616 H06	16	16	100	20	WN.. 33.. WN.. 0604..	ATK-01	AKV-01-M5x22	AAWN-SW317	AAV-01-M3x10	-	ABPL-01	AAL-03-3
DWLNR 2020 K06	20	20	125	25	WN.. 33.. WN.. 0604..	ATK-01	AKV-01-M5x22	AAWN-SW317	AAV-01-M3x10	-	ABPL-01	AAL-03-3
DWLNR 2525 M06	25	25	150	32	WN.. 33.. WN.. 0604..	ATK-01	AKV-01-M5x22	AAWN-SW317	AAV-01-M3x10	-	ABPL-01	AAL-03-3
DWLNR 2020 K08	20	20	125	25	WN.. 43.. WN.. 0804..	ATK-02	AKV-30-M6x22	AAWN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DWLNR 2525 M08	25	25	150	32	WN.. 43.. WN.. 0804..	ATK-02	AKV-30-M6x22	AAWN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DWLNR 3232 P08	32	32	170	40	WN.. 43.. WN.. 0804..	ATK-02	AKV-30-M6x22	AAWN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DWLNR 4040 S08	40	40	250	50	WN.. 43.. WN.. 0804..	ATK-02	AKV-30-M6x22	AAWN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DWLNR 5050 S08	50	50	250	60	WN.. 43.. WN.. 0804..	ATK-02	AKV-30-M6x22	AAWN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DWLNL 1616 H06	16	16	100	20	WN.. 33.. WN.. 0604..	ATK-01	AKV-01-M5x22	AAWN-SW317	AAV-01-M3x10	-	ABPL-01	AAL-03-3
DWLNL 2020 K06	20	20	125	25	WN.. 33.. WN.. 0604..	ATK-01	AKV-01-M5x22	AAWN-SW317	AAV-01-M3x10	-	ABPL-01	AAL-03-3
DWLNL 2525 M06	25	25	150	32	WN.. 33.. WN.. 0604..	ATK-01	AKV-01-M5x22	AAWN-SW317	AAV-01-M3x10	-	ABPL-01	AAL-03-3
DWLNL 2020 K08	20	20	125	25	WN.. 43.. WN.. 0804..	ATK-02	AKV-30-M6x22	AAWN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DWLNL 2525 M08	25	25	150	32	WN.. 43.. WN.. 0804..	ATK-02	AKV-30-M6x22	AAWN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DWLNL 3232 P08	32	32	170	40	WN.. 43.. WN.. 0804..	ATK-02	AKV-30-M6x22	AAWN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DWLNL 4040 S08	40	40	250	50	WN.. 43.. WN.. 0804..	ATK-02	AKV-30-M6x22	AAWN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
DWLNL 5050 S08	50	50	250	60	WN.. 43.. WN.. 0804..	ATK-02	AKV-30-M6x22	AAWN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3



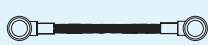
Illustrations shown may vary from actual product.



Dimensions in Inch														
Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Spring	Ring	Threaded Pin	Allen Key
DWLNR 12 3B-H	0.750	0.750	4.500	1.380	1.000	WN.. 332 WN.. 060408	ATKH-03-R	AKV-37-M5x18	AAWN-SW317	AAV-01-M3X10	AKY-03	AXR-02	2705-G1/8x5.5	AAL-02-2.5
DWLNR 16 3D-H	1.000	1.000	6.000	1.650	1.250	WN.. 332 WN.. 060408	ATKH-03-R	AKV-37-M5x18	AAWN-SW317	AAV-01-M3X10	AKY-03	AXR-02	2705-G1/8x5.5	AAL-02-2.5
DWLNR 12 4B-H	0.750	0.750	4.500	1.690	1.000	WN.. 432 WN.. 080408	ATKH-01-R	AKV-33-M6x22	AAWN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DWLNR 16 4D-H	1.000	1.000	6.000	1.650	1.250	WN.. 432 WN.. 080408	ATKH-01-R	AKV-33-M6x22	AAWN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DWLNR 20 4D-H	1.250	1.250	6.000	1.650	1.500	WN.. 432 WN.. 080408	ATKH-01-R	AKV-33-M6x22	AAWN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DWLNL 12 3B-H	0.750	0.750	4.500	1.380	1.000	WN.. 332 WN.. 060408	ATKH-03-R	AKV-37-M5x18	AAWN-SW317	AAV-01-M3X10	AKY-03	AXR-02	2705-G1/8x5.5	AAL-02-2.5
DWLNL 16 3D-H	1.000	1.000	6.000	1.650	1.250	WN.. 332 WN.. 060408	ATKH-03-R	AKV-37-M5x18	AAWN-SW317	AAV-01-M3X10	AKY-03	AXR-02	2705-G1/8x5.5	AAL-02-2.5
DWLNL 12 4B-H	0.750	0.750	4.500	1.690	1.000	WN.. 432 WN.. 080408	ATKH-02-L	AKV-33-M6x22	AAWN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DWLNL 16 4D-H	1.000	1.000	6.000	1.650	1.250	WN.. 432 WN.. 080408	ATKH-02-L	AKV-33-M6x22	AAWN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3
DWLNL 20 4D-H	1.250	1.250	6.000	1.650	1.500	WN.. 432 WN.. 080408	ATKH-02-L	AKV-33-M6x22	AAWN-3-0001	AAV-13-M5x8	AKY-01	AXR-01	2705-G1/8x5.5	AAL-03-3



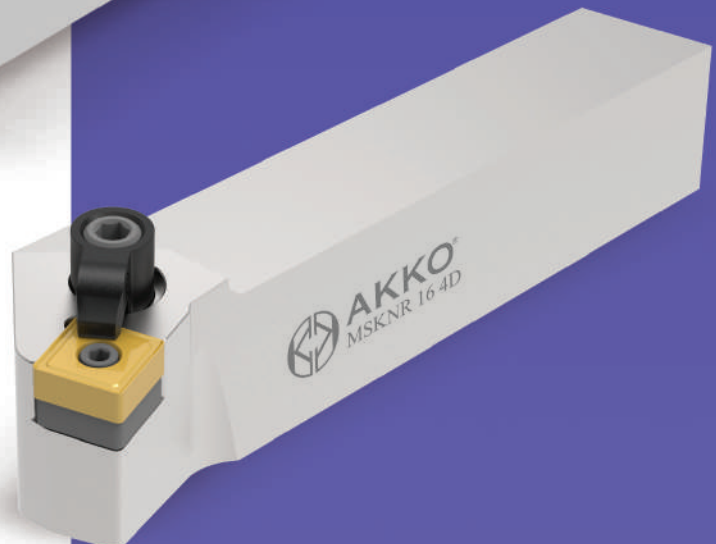
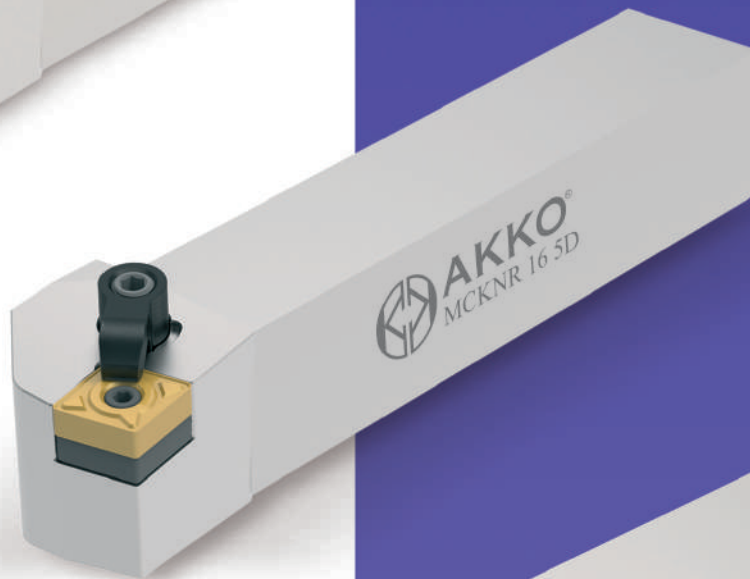
Note: 3 types of cooling hose sets are designed that can be used in all external turning lathes. Before using the tools, care should be taken to ensure that the unused connections are closed with the screw in the set and that sealing is ensured. Cooling hose sets for lathe tools can be used in the pressure range of ACHS ... 10 bar to max 150 bar.

Parts In The Set				Length Code		
				Set Code: ACHS-1-250	Set Code: ACHS-2-250	Set Code: ACHS-3-250
	Picture	Set Code	Product Description			
1		AMP-01	M10 Fastener	1x	-	-
2		AMP-02	G 1/8" Double Fastener	2x	1x	-
3		AMP-03	G 1/8" Angle Connection	-	1x	2x
4		AMP-04	M10" Angle Connection	-	1x	1x
5		AMP-05	G1 / 4"-G1/8" Capillary Piece	-	1x	1x
6		AG-01	Copper Gasket	2x	3x	4x
7		2705-G1/8-5.5	G1/8" Sealing Bolt	1x	1x	1x
8		AH-1-250	Hose	1x	-	-
9		AH-2-250	Hose	-	1x	-
10		AH-3-250	Hose	-	-	1x

the spoken quality...

M-SYSTEM

M-SYSTEM EXTERNAL TURNING TOOLHOLDERS

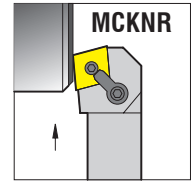
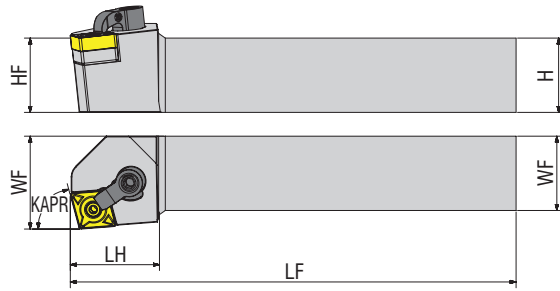


M-SYSTEM EXTERNAL TURNING TOOLHOLDERS





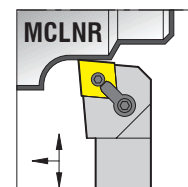
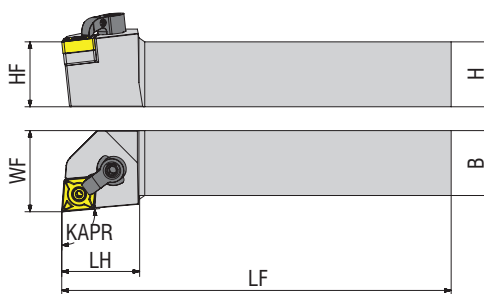
Illustrations shown may vary from actual product.



Dimensions in Inch												
Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
MCKNR 12 4B	0.750	0.750	4.500	1.200	1.000	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
MCKNR 16 4C	1.000	1.000	5.000	1.200	1.250	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
MCKNR 16 4D	1.000	1.000	6.000	1.200	1.250	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
MCKNR 16 5D	1.000	1.000	6.000	1.260	1.250	CN.. 543 CN.. 160612	CK-9	STC-4	AAL-17-5/32	ICSN-533	KL-58	AAL-14-1/8
MCKNR 20 4D	1.250	1.250	6.000	1.200	1.500	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
MCKNR 20 5D	1.250	1.250	6.000	1.260	1.500	CN.. 543 CN.. 160612	CK-9	STC-4	AAL-17-5/32	ICSN-533	KL-58	AAL-14-1/8
MCKNR 20 6D	1.250	1.250	6.000	1.470	1.500	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64
MCKNR 24 5D	1.500	1.500	6.000	1.260	2.000	CN.. 543 CN.. 160612	CK-9	STC-4	AAL-17-5/32	ICSN-533	KL-58	AAL-14-1/8
MCKNR 24 6D	1.500	1.500	6.000	1.470	2.000	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64
MCKNL 12 4B	0.750	0.750	4.500	1.200	1.000	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
MCKNL 16 4C	1.000	1.000	5.000	1.200	1.250	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
MCKNL 16 4D	1.000	1.000	6.000	1.200	1.250	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
MCKNL 16 5D	1.000	1.000	6.000	1.260	1.250	CN.. 543 CN.. 160612	CK-9	STC-4	AAL-17-5/32	ICSN-533	KL-58	AAL-14-1/8
MCKNL 20 4D	1.250	1.250	6.000	1.200	1.500	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
MCKNL 20 5D	1.250	1.250	6.000	1.260	1.500	CN.. 543 CN.. 160612	CK-9	STC-4	AAL-17-5/32	ICSN-533	KL-58	AAL-14-1/8
MCKNL 20 6D	1.250	1.250	6.000	1.470	1.500	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64
MCKNL 24 5D	1.500	1.500	6.000	1.260	2.000	CN.. 543 CN.. 160612	CK-9	STC-4	AAL-17-5/32	ICSN-533	KL-58	AAL-14-1/8
MCKNL 24 6D	1.500	1.500	6.000	1.470	2.000	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64



Illustrations shown may vary from actual product.

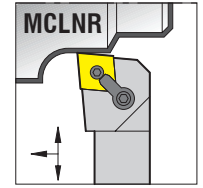
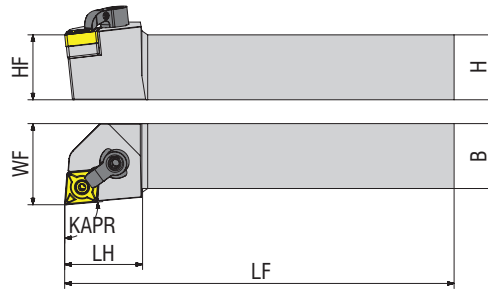


Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
MCLNR 08 3A	0.500	0.500	4.000	1.000	0.750	CN.. 322 CN.. 09T308	CK-6	STC-5	AAL-16-3/32	-	KL-33	AAL-18-5/64
MCLNR 10 3A	0.625	0.625	4.000	1.000	0.875	CN.. 322 CN.. 09T308	CK-6	STC-5	AAL-16-3/32	-	KL-33	AAL-18-5/64
MCLNR 12 3B	0.750	0.750	4.500	1.000	1.000	CN.. 322 CN.. 09T308	CK-6	STC-5	AAL-16-3/32	ICSN-332	KL-34L	AAL-18-5/64
MCLNR 12 4A	0.750	0.750	4.000	1.200	1.000	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
MCLNR 12 4B	0.750	0.750	4.500	1.200	1.000	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
MCLNR 16 3C	1.000	1.000	5.000	1.000	1.250	CN.. 322 CN.. 09T308	CK-6	STC-5	AAL-16-3/32	ICSN-332	KL-34L	AAL-18-5/64
MCLNR 16 3D	1.000	1.000	6.000	1.000	1.250	CN.. 322 CN.. 09T308	CK-6	STC-5	AAL-16-3/32	ICSN-332	KL-34L	AAL-18-5/64
MCLNR 16 4C	1.000	1.000	5.000	1.200	1.250	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
MCLNR 16 4D	1.000	1.000	6.000	1.200	1.250	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
MCLNR 16 5C	1.000	1.000	5.000	1.370	1.250	CN.. 543 CN.. 160612	CK-12	STC-4	AAL-17-5/32	ICSN-533	KL-58	AAL-14-1/8
MCLNR 16 5D	1.000	1.000	6.000	1.370	1.250	CN.. 543 CN.. 160612	CK-12	STC-4	AAL-17-5/32	ICSN-533	KL-58	AAL-14-1/8
MCLNR 16 6C	1.000	1.000	5.000	1.500	1.250	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64
MCLNR 16 6D	1.000	1.000	6.000	1.500	1.250	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64
MCLNR 20 4D	1.250	1.250	6.000	1.200	1.500	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
MCLNR 20 5D	1.250	1.250	6.000	1.370	1.500	CN.. 543 CN.. 160612	CK-12	STC-4	AAL-17-5/32	ICSN-533	KL-58	AAL-14-1/8
MCLNR 20 6D	1.250	1.250	6.000	1.500	1.500	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64
MCLNR 24 4D	1.500	1.500	6.000	1.200	2.000	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
MCLNR 24 5D	1.500	1.500	6.000	1.370	2.000	CN.. 543 CN.. 160612	CK-12	STC-4	AAL-17-5/32	ICSN-533	KL-58	AAL-14-1/8
MCLNR 24 5E	1.500	1.500	7.000	1.370	2.000	CN.. 543 CN.. 160612	CK-12	STC-4	AAL-17-5/32	ICSN-533	KL-58	AAL-14-1/8
MCLNR 24 6D	1.500	1.500	6.000	1.500	2.000	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64
MCLNR 24 6E	1.500	1.500	7.000	1.500	2.000	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64
MCLNR 24 8E	1.500	1.500	7.000	1.500	2.000	CN.. 866 CN.. 250924	CK-24	STC-19	AAL-15-3/16	ICSN-846	KL-810	AAL-17-5/32
MCLNR 32 6F	2.000	2.000	8.000	1.500	2.500	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64



Illustrations shown may vary from actual product.

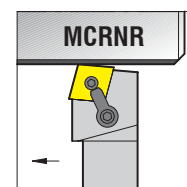
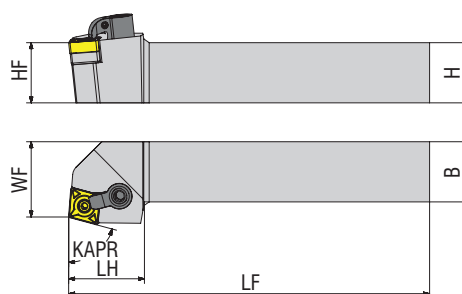


Dimensions in Inch

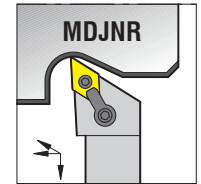
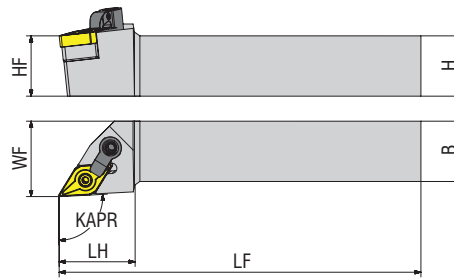
Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
MCLNR 85 4D	1.250	1.000	6.000	1.200	1.250	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
MCLNR 85 6D	1.250	1.000	6.000	1.500	1.250	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64
MCLNR 86 6E	1.500	1.000	7.000	1.500	1.250	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64
MCLNL 08 3A	0.500	0.500	4.000	1.000	0.750	CN.. 322 CN.. 09T308	CK-6	STC-5	AAL-16-3/32	-	KL-33	AAL-18-5/64
MCLNL 10 3A	0.625	0.625	4.000	1.000	0.875	CN.. 322 CN.. 09T308	CK-6	STC-5	AAL-16-3/32	-	KL-33	AAL-18-5/64
MCLNL 12 3B	0.750	0.750	4.500	1.000	1.000	CN.. 322 CN.. 09T308	CK-6	STC-5	AAL-16-3/32	ICSN-332	KL-34L	AAL-18-5/64
MCLNL 12 4A	0.750	0.750	4.000	1.200	1.000	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
MCLNL 12 4B	0.750	0.750	4.500	1.200	1.000	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
MCLNL 16 4C	1.000	1.000	5.000	1.200	1.250	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
MCLNL 16 4D	1.000	1.000	6.000	1.200	1.250	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
MCLNL 16 5C	1.000	1.000	5.000	1.370	1.250	CN.. 543 CN.. 160612	CK-12	STC-4	AAL-17-5/32	ICSN-533	KL-58	AAL-14-1/8
MCLNL 16 5D	1.000	1.000	6.000	1.370	1.250	CN.. 543 CN.. 160612	CK-12	STC-4	AAL-17-5/32	ICSN-533	KL-58	AAL-14-1/8
MCLNL 16 6C	1.000	1.000	5.000	1.500	1.250	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64
MCLNL 16 6D	1.000	1.000	6.000	1.500	1.250	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64
MCLNL 20 4D	1.250	1.250	6.000	1.200	1.500	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
MCLNL 24 4D	1.500	1.500	6.000	1.200	2.000	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
MCLNL 24 5D	1.500	1.500	6.000	1.370	2.000	CN.. 543 CN.. 160612	CK-12	STC-4	AAL-17-5/32	ICSN-533	KL-58	AAL-14-1/8
MCLNL 24 5E	1.500	1.500	7.000	1.370	2.000	CN.. 543 CN.. 160612	CK-12	STC-4	AAL-17-5/32	ICSN-533	KL-58	AAL-14-1/8
MCLNL 24 6D	1.500	1.500	6.000	1.500	2.000	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64
MCLNL 24 6E	1.500	1.500	7.000	1.500	2.000	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64
MCLNL 24 8E	1.500	1.500	7.000	1.500	2.000	CN.. 866 CN.. 250924	CK-24	STC-19	AAL-15-3/16	ICSN-846	KL-810	AAL-17-5/32
MCLNL 32 6F	2.000	2.000	8.000	1.500	2.500	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64
MCLNL 85 4D	1.250	1.000	6.000	1.200	1.250	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
MCLNL 86 6E	1.500	1.000	7.000	1.500	1.250	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64



Illustrations shown may vary from actual product.



Dimensions in Inch												
Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
MCRNR 12 4B	0.750	0.750	4.500	1.260	0.751	CN.. 432 CN.. 120408	CK-9	STC-4	AAL-17-5/32	ICSN-433	KL-46	AAL-16-3/32
MCRNR 16 4C	1.000	1.000	5.000	1.260	1.251	CN.. 432 CN.. 120408	CK-9	STC-4	AAL-17-5/32	ICSN-433	KL-46	AAL-16-3/32
MCRNR 16 4D	1.000	1.000	6.000	1.260	1.251	CN.. 432 CN.. 120408	CK-9	STC-4	AAL-17-5/32	ICSN-433	KL-46	AAL-16-3/32
MCRNR 16 5D	1.000	1.000	6.000	1.340	1.251	CN.. 543 CN.. 160612	CK-9	STC-4	AAL-17-5/32	ICSN-533	KL-58	AAL-14-1/8
MCRNR 16 6D	1.000	1.000	6.000	1.500	1.251	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64
MCRNR 20 4D	1.250	1.250	6.000	1.260	1.500	CN.. 432 CN.. 120408	CK-9	STC-4	AAL-17-5/32	ICSN-433	KL-46	AAL-16-3/32
MCRNR 20 5D	1.250	1.250	6.000	1.340	1.501	CN.. 543 CN.. 160612	CK-9	STC-4	AAL-17-5/32	ICSN-533	KL-58	AAL-14-1/8
MCRNR 20 6D	1.250	1.250	6.000	1.500	1.501	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64
MCRNR 24 6D	1.500	1.500	6.000	1.500	2.001	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64
MCRNR 24 6E	1.500	1.500	7.000	1.500	2.001	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64
MCRNL 12 4B	0.750	0.750	4.500	1.260	0.751	CN.. 432 CN.. 120408	CK-9	STC-4	AAL-17-5/32	ICSN-433	KL-46	AAL-16-3/32
MCRNL 16 4C	1.000	1.000	5.000	1.260	1.251	CN.. 432 CN.. 120408	CK-9	STC-4	AAL-17-5/32	ICSN-433	KL-46	AAL-16-3/32
MCRNL 16 4D	1.000	1.000	6.000	1.260	1.251	CN.. 432 CN.. 120408	CK-9	STC-4	AAL-17-5/32	ICSN-433	KL-46	AAL-16-3/32
MCRNL 16 5D	1.000	1.000	6.000	1.340	1.251	CN.. 543 CN.. 160612	CK-9	STC-4	AAL-17-5/32	ICSN-533	KL-58	AAL-14-1/8
MCRNL 16 6D	1.000	1.000	6.000	1.500	1.251	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64
MCRNL 20 4D	1.250	1.250	6.000	1.260	1.500	CN.. 432 CN.. 120408	CK-9	STC-4	AAL-17-5/32	ICSN-433	KL-46	AAL-16-3/32
MCRNL 20 5D	1.250	1.250	6.000	1.340	1.501	CN.. 543 CN.. 160612	CK-9	STC-4	AAL-17-5/32	ICSN-533	KL-58	AAL-14-1/8
MCRNL 20 6D	1.250	1.250	6.000	1.500	1.501	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64
MCRNL 24 6D	1.500	1.500	6.000	1.500	2.001	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64
MCRNL 24 6E	1.500	1.500	7.000	1.500	2.001	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64



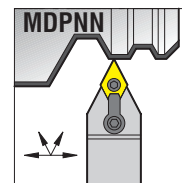
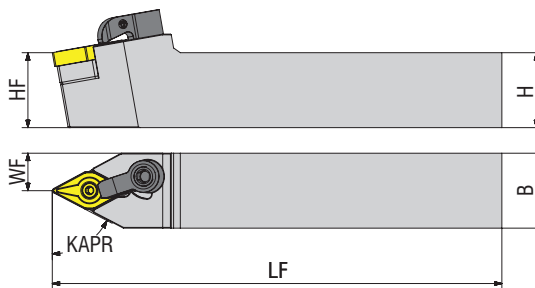
Illustrations shown may vary from actual product.

Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
MDJNR 12 3B	0.750	0.750	4.500	1.260	1.000	DN.. 332 DN.. 110408	CK-7	STC-5	AAL-16-3/32	IDSN-322	KL-34L	AAL-18-5/64
MDJNR 16 3C	1.000	1.000	5.000	1.260	1.250	DN.. 332 DN.. 110408	CK-7	STC-5	AAL-16-3/32	IDSN-322	KL-34L	AAL-18-5/64
MDJNR 16 3D	1.000	1.000	6.000	1.260	1.250	DN.. 332 DN.. 110408	CK-7	STC-5	AAL-16-3/32	IDSN-322	KL-34L	AAL-18-5/64
MDJNR 20 3D	1.250	1.250	6.000	1.260	1.500	DN.. 332 DN.. 110408	CK-7	STC-5	AAL-16-3/32	IDSN-322	KL-34L	AAL-18-5/64
MDJNR 12 4A	0.750	0.750	4.000	1.380	1.000	DN.. 432 DN.. 150408	CK-23	STC-20	AAL-14-1/8	IDSN-443	KL-46L	AAL-16-3/32
MDJNR 12 4B	0.750	0.750	4.500	1.380	1.000	DN.. 432 DN.. 150408	CK-23	STC-20	AAL-14-1/8	IDSN-443	KL-46L	AAL-16-3/32
MDJNR 16 4C	1.000	1.000	5.000	1.260	1.250	DN.. 432 DN.. 150408	CK-20	STC-20	AAL-14-1/8	IDSN-443	KL-46L	AAL-16-3/32
MDJNR 16 4D	1.000	1.000	6.000	1.260	1.250	DN.. 432 DN.. 150408	CK-20	STC-20	AAL-14-1/8	IDSN-443	KL-46L	AAL-16-3/32
MDJNR 85 4D	1.250	1.000	6.000	1.260	1.250	DN.. 432 DN.. 150408	CK-20	STC-20	AAL-14-1/8	IDSN-443	KL-46L	AAL-16-3/32
MDJNR 20 4D	1.250	1.250	6.000	1.260	1.500	DN.. 432 DN.. 150408	CK-20	STC-20	AAL-14-1/8	IDSN-443	KL-46L	AAL-16-3/32
MDJNR 16 5D	1.000	1.000	6.000	1.470	1.250	DN.. 543 DN.. 190612	CK-12	STC-4	AAL-17-5/32	IDSN-533	KL-58	AAL-14-1/8
MDJNR 20 5D	1.250	1.250	6.000	1.470	1.500	DN.. 543 DN.. 190612	CK-12	STC-4	AAL-17-5/32	IDSN-533	KL-58	AAL-14-1/8
MDJNR 24 5D	1.500	1.500	6.000	1.470	2.000	DN.. 543 DN.. 190612	CK-12	STC-4	AAL-17-5/32	IDSN-533	KL-58	AAL-14-1/8
MDJNR 24 5E	1.500	1.500	7.000	1.470	2.000	DN.. 543 DN.. 190612	CK-12	STC-4	AAL-17-5/32	IDSN-533	KL-58	AAL-14-1/8
MDJNL 12 3B	0.750	0.750	4.500	1.260	1.000	DN.. 332 DN.. 110408	CK-7	STC-5	AAL-16-3/32	IDSN-322	KL-34L	AAL-18-5/64
MDJNL 16 3C	1.000	1.000	5.000	1.260	1.250	DN.. 332 DN.. 110408	CK-7	STC-5	AAL-16-3/32	IDSN-322	KL-34L	AAL-18-5/64
MDJNL 16 3D	1.000	1.000	6.000	1.260	1.250	DN.. 332 DN.. 110408	CK-7	STC-5	AAL-16-3/32	IDSN-322	KL-34L	AAL-18-5/64
MDJNL 20 3D	1.250	1.250	6.000	1.260	1.500	DN.. 332 DN.. 110408	CK-7	STC-5	AAL-16-3/32	IDSN-322	KL-34L	AAL-18-5/64
MDJNL 12 4A	0.750	0.750	4.000	1.380	1.000	DN.. 432 DN.. 150408	CK-23	STC-20	AAL-14-1/8	IDSN-443	KL-46L	AAL-16-3/32
MDJNL 12 4B	0.750	0.750	4.500	1.380	1.000	DN.. 432 DN.. 150408	CK-23	STC-20	AAL-14-1/8	IDSN-443	KL-46L	AAL-16-3/32
MDJNL 16 4C	1.000	1.000	5.000	1.260	1.250	DN.. 432 DN.. 150408	CK-20	STC-20	AAL-14-1/8	IDSN-443	KL-46L	AAL-16-3/32
MDJNL 16 4D	1.000	1.000	6.000	1.260	1.250	DN.. 432 DN.. 150408	CK-20	STC-20	AAL-14-1/8	IDSN-443	KL-46L	AAL-16-3/32
MDJNL 20 4D	1.250	1.250	6.000	1.260	1.500	DN.. 432 DN.. 150408	CK-20	STC-20	AAL-14-1/8	IDSN-443	KL-46L	AAL-16-3/32
MDJNL 20 5D	1.250	1.250	6.000	1.470	1.500	DN.. 543 DN.. 190612	CK-12	STC-4	AAL-17-5/32	IDSN-533	KL-58	AAL-14-1/8
MDJNL 24 5D	1.500	1.500	6.000	1.470	2.000	DN.. 543 DN.. 190612	CK-12	STC-4	AAL-17-5/32	IDSN-533	KL-58	AAL-14-1/8
MDJNL 24 5E	1.500	1.500	7.000	1.470	2.000	DN.. 543 DN.. 190612	CK-12	STC-4	AAL-17-5/32	IDSN-533	KL-58	AAL-14-1/8



Illustrations shown may vary from actual product.



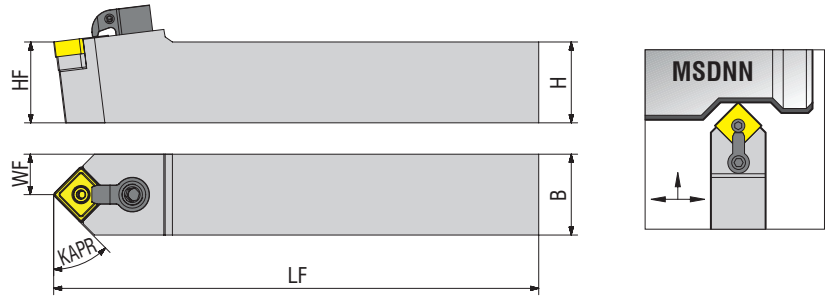
Dimensions in Inch



Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
MDPNN 12 3B	0.750	0.750	4.500	1.500	0.375	DN.. 332 DN.. 110408	CK-7	STC-5	AAL-16-3/32	IDSN-322	KL-34L	AAL-18-5/64
MDPNN 16 3D	1.000	1.000	6.000	1.500	0.500	DN.. 332 DN.. 110408	CK-7	STC-5	AAL-16-3/32	IDSN-322	KL-34L	AAL-18-5/64
MDPNN 16 4D	1.000	1.000	6.000	1.630	0.500	DN.. 432 DN.. 150408	CK-12	STC-4	AAL-17-5/32	IDSN-443	KL-46L	AAL-16-3/32
MDPNN 20 5D	1.250	1.250	6.000	1.920	0.625	DN.. 543 DN.. 190612	CK-12	STC-4	AAL-17-5/32	IDSN-533	KL-58	AAL-14-1/8
MDPNN 24 5D	1.500	1.500	6.000	1.920	0.750	DN.. 543 DN.. 190612	CK-12	STC-4	AAL-17-5/32	IDSN-533	KL-58	AAL-14-1/8



Illustrations shown may vary from actual product.

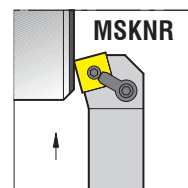
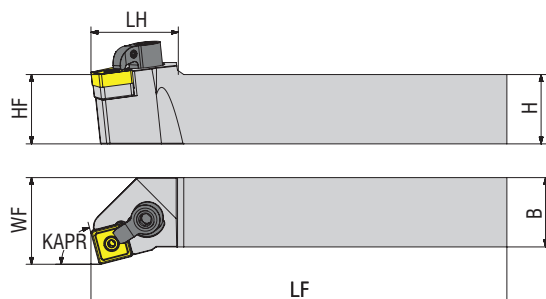


Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
MSDNN 08 3B	0.500	0.500	4.500	1.140	0.250	SN.. 322 SN.. 090308	CK-6	STC-5	AAL-16-3/32	ISSN-322	KL-34	AAL-18-5/64
MSDNN 10 3B	0.625	0.625	4.500	1.140	0.312	SN.. 322 SN.. 090308	CK-6	STC-5	AAL-16-3/32	ISSN-322	KL-34	AAL-18-5/64
MSDNN 12 3B	0.750	0.750	4.500	1.140	0.375	SN.. 322 SN.. 090308	CK-6	STC-5	AAL-16-3/32	ISSN-322	KL-34	AAL-18-5/64
MSDNN 12 4B	0.750	0.750	4.500	1.390	0.375	SN.. 432 SN.. 120408	CK-9	STC-4	AAL-17-5/32	ISSN-433	KL-46	AAL-16-3/32
MSDNN 16 4D	1.000	1.000	6.000	1.390	0.500	SN.. 432 SN.. 120408	CK-9	STC-4	AAL-17-5/32	ISSN-433	KL-46	AAL-16-3/32
MSDNN 85 4D	1.250	1.000	6.000	1.390	0.500	SN.. 432 SN.. 120408	CK-9	STC-4	AAL-17-5/32	ISSN-433	KL-46	AAL-16-3/32
MSDNN 85 5D	1.250	1.000	6.000	1.620	0.500	SN.. 543 SN.. 150612	CK-12	STC-4	AAL-17-5/32	ISSN-533	KL-58	AAL-14-1/8
MSDNN 85 6D	1.250	1.000	6.000	1.620	0.500	SN.. 643 SN.. 190612	CK-12	STC-4	AAL-17-5/32	ISSN-633	KL-68	AAL-19-9/64
MSDNN 20 6E	1.250	1.250	7.000	1.680	0.625	SN.. 643 SN.. 190612	CK-12	STC-4	AAL-17-5/32	ISSN-633	KL-68	AAL-19-9/64
MSDNN 24 6E	1.500	1.500	7.000	1.680	0.750	SN.. 643 SN.. 190612	CK-12	STC-4	AAL-17-5/32	ISSN-633	KL-68	AAL-19-9/64



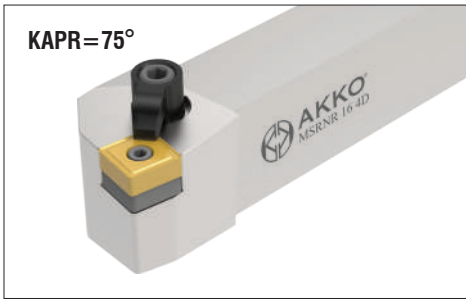
Illustrations shown may vary from actual product.



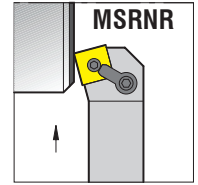
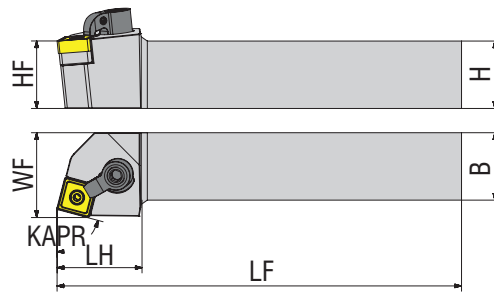
Dimensions in Inch



Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
MSKNR 12 4B	0.750	0.750	4.500	1.260	1.000	SN.. 432 SN.. 120408	CK-9	STC-4	AAL-17-5/32	ISSN-433	KL-46	AAL-16-3/32
MSKNR 16 4C	1.000	1.000	5.000	1.260	1.250	SN.. 432 SN.. 120408	CK-9	STC-4	AAL-17-5/32	ISSN-433	KL-46	AAL-16-3/32
MSKNR 16 4D	1.000	1.000	6.000	1.260	1.250	SN.. 432 SN.. 120408	CK-9	STC-4	AAL-17-5/32	ISSN-433	KL-46	AAL-16-3/32
MSKNR 20 5D	1.250	1.250	6.000	1.340	1.500	SN.. 543 SN.. 150612	CK-12	STC-4	AAL-17-5/32	ISSN-533	KL-58	AAL-14-1/8
MSKNR 20 6D	1.250	1.250	6.000	1.500	1.500	SN.. 643 SN.. 190612	CK-12	STC-4	AAL-17-5/32	ISSN-633	KL-68	AAL-19-9/64
MSKNR 24 8D	1.500	1.500	8.000	1.620	2.000	SN.. 866 SN.. 250924	CK-24	STC-19	AAL-15-3/16	ISSN-846	KL-810	AAL-17-5/32
MSKNL 20 5D	1.250	1.250	6.000	1.340	1.500	SN.. 543 SN.. 150612	CK-12	STC-4	AAL-17-5/32	ISSN-533	KL-58	AAL-14-1/8
MSKNL 20 6D	1.250	1.250	6.000	1.500	1.500	SN.. 643 SN.. 190612	CK-12	STC-4	AAL-17-5/32	ISSN-633	KL-68	AAL-19-9/64
MSKNL 24 6D	1.500	1.500	6.000	1.500	2.000	SN.. 643 SN.. 190612	CK-12	STC-4	AAL-17-5/32	ISSN-633	KL-68	AAL-19-9/64



Illustrations shown may vary from actual product.

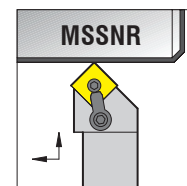
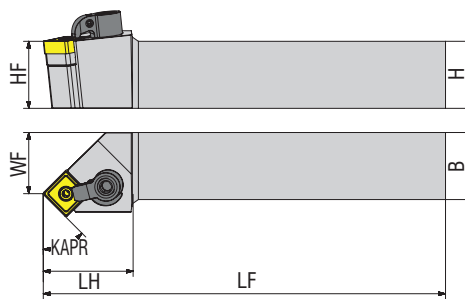


Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
MSRNR 12 4B	0.750	0.750	4.500	1.260	0.880	SN.. 432 SN.. 120408	CK-9	STC-4	AAL-17-5/32	ISSN-433	KL-46	AAL-16-3/32
MSRNR 16 4C	1.000	1.000	5.000	1.260	1.130	SN.. 432 SN.. 120408	CK-9	STC-4	AAL-17-5/32	ISSN-433	KL-46	AAL-16-3/32
MSRNR 16 4D	1.000	1.000	6.000	1.260	1.130	SN.. 432 SN.. 120408	CK-9	STC-4	AAL-17-5/32	ISSN-433	KL-46	AAL-16-3/32
MSRNR 16 5C	1.000	1.000	5.000	1.470	1.103	SN.. 543 SN.. 150612	CK-12	STC-4	AAL-17-5/32	ISSN-533	KL-58	AAL-14-1/8
MSRNR 20 5D	1.250	1.250	6.000	1.470	1.353	SN.. 543 SN.. 150612	CK-12	STC-4	AAL-17-5/32	ISSN-533	KL-58	AAL-14-1/8
MSRNR 85 6D	1.250	1.000	6.000	1.500	1.071	SN.. 643 SN.. 190612	CK-12	STC-4	AAL-17-5/32	ISSN-633	KL-68	AAL-19-9/64
MSRNR 20 6D	1.250	1.250	6.000	1.500	1.321	SN.. 643 SN.. 190612	CK-12	STC-4	AAL-17-5/32	ISSN-633	KL-68	AAL-19-9/64
MSRNR 24 6D	1.500	1.500	6.000	1.500	1.821	SN.. 643 SN.. 190612	CK-12	STC-4	AAL-17-5/32	ISSN-633	KL-68	AAL-19-9/64
MSRNR 24 6E	1.500	1.500	7.000	1.500	1.821	SN.. 643 SN.. 190612	CK-12	STC-4	AAL-17-5/32	ISSN-633	KL-68	AAL-19-9/64
MSRNR 24 8F	1.500	1.500	8.000	1.620	1.770	SN.. 866 SN.. 250924	CK-24	STC-19	AAL-15-3/16	ISSN-846	KL-810	AAL-17-5/32
MSRNL 12 4B	0.750	0.750	4.500	1.260	0.880	SN.. 432 SN.. 120408	CK-9	STC-4	AAL-17-5/32	ISSN-433	KL-46	AAL-16-3/32
MSRNL 16 4C	1.000	1.000	5.000	1.260	1.130	SN.. 432 SN.. 120408	CK-9	STC-4	AAL-17-5/32	ISSN-433	KL-46	AAL-16-3/32
MSRNL 16 4D	1.000	1.000	6.000	1.260	1.130	SN.. 432 SN.. 120408	CK-9	STC-4	AAL-17-5/32	ISSN-433	KL-46	AAL-16-3/32
MSRNL 85 4D	1.250	1.000	6.000	1.260	1.130	SN.. 432 SN.. 120408	CK-9	STC-4	AAL-17-5/32	ISSN-433	KL-46	AAL-16-3/32
MSRNL 20 4D	1.250	1.250	6.000	1.260	1.380	SN.. 432 SN.. 120408	CK-9	STC-4	AAL-17-5/32	ISSN-433	KL-46	AAL-16-3/32
MSRNL 16 5C	1.000	1.000	5.000	1.470	1.103	SN.. 543 SN.. 150612	CK-12	STC-4	AAL-17-5/32	ISSN-533	KL-58	AAL-14-1/8
MSRNL 20 5D	1.250	1.250	6.000	1.470	1.353	SN.. 543 SN.. 150612	CK-12	STC-4	AAL-17-5/32	ISSN-533	KL-58	AAL-14-1/8
MSRNL 20 6D	1.250	1.250	6.000	1.500	1.321	SN.. 643 SN.. 190612	CK-12	STC-4	AAL-17-5/32	ISSN-633	KL-68	AAL-19-9/64
MSRNL 24 6D	1.500	1.500	6.000	1.500	1.821	SN.. 643 SN.. 190612	CK-12	STC-4	AAL-17-5/32	ISSN-633	KL-68	AAL-19-9/64
MSRNL 24 6E	1.500	1.500	7.000	1.500	1.821	SN.. 643 SN.. 190612	CK-12	STC-4	AAL-17-5/32	ISSN-633	KL-68	AAL-19-9/64



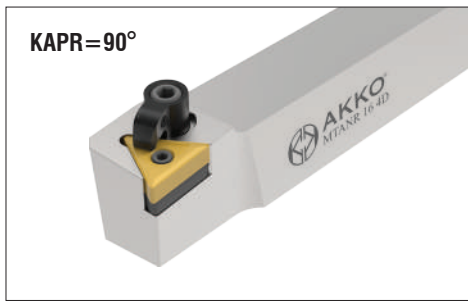
Illustrations shown may vary from actual product.



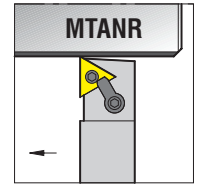
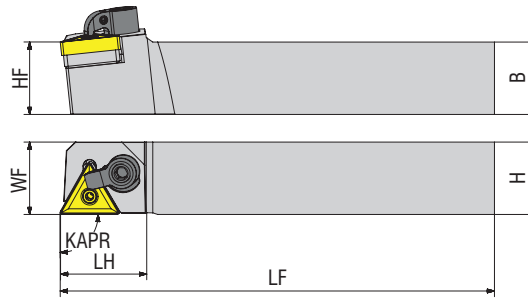
Dimensions in Inch



Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
MSSNR 12 3B	0.750	0.750	4.500	1.000	0.641	SN.. 322 SN.. 090308	CK-6	STC-5	AAL-16-3/32	ISSN-322	KL-34	AAL-18-5/64
MSSNR 12 4B	0.750	0.750	4.500	1.340	0.662	SN.. 432 SN.. 120408	CK-9	STC-4	AAL-17-5/32	ISSN-433	KL-46	AAL-16-3/32
MSSNR 16 4C	1.000	1.000	5.000	1.340	0.912	SN.. 432 SN.. 120408	CK-9	STC-4	AAL-17-5/32	ISSN-433	KL-46	AAL-16-3/32
MSSNR 16 4D	1.000	1.000	6.000	1.340	0.912	SN.. 432 SN.. 120408	CK-9	STC-4	AAL-17-5/32	ISSN-433	KL-46	AAL-16-3/32
MSSNR 85 4D	1.250	1.000	6.000	1.340	0.912	SN.. 432 SN.. 120408	CK-9	STC-4	AAL-17-5/32	ISSN-433	KL-46	AAL-16-3/32
MSSNR 16 5D	1.000	1.000	6.000	1.378	0.828	SN.. 543 SN.. 150612	CK-9	STC-4	AAL-17-5/32	ISSN-533	KL-58	AAL-14-1/8
MSSNR 20 5D	1.250	1.250	6.000	1.378	1.078	SN.. 543 SN.. 150612	CK-9	STC-4	AAL-17-5/32	ISSN-533	KL-58	AAL-14-1/8
MSSNR 20 6D	1.250	1.250	6.000	1.480	0.992	SN.. 643 SN.. 190612	CK-9	STC-4	AAL-17-5/32	ISSN-633	KL-68	AAL-19-9/64
MSSNR 24 6D	1.500	1.500	6.000	1.480	1.511	SN.. 643 SN.. 190612	CK-9	STC-4	AAL-17-5/32	ISSN-633	KL-68	AAL-19-9/64
MSSNL 16 4C	1.000	1.000	5.000	1.340	0.912	SN.. 432 SN.. 120408	CK-9	STC-4	AAL-17-5/32	ISSN-433	KL-46	AAL-16-3/32
MSSNL 16 4D	1.000	1.000	6.000	1.340	0.912	SN.. 432 SN.. 120408	CK-9	STC-4	AAL-17-5/32	ISSN-433	KL-46	AAL-16-3/32
MSSNL 85 4D	1.250	1.000	6.000	1.340	0.912	SN.. 432 SN.. 120408	CK-9	STC-4	AAL-17-5/32	ISSN-433	KL-46	AAL-16-3/32
MSSNL 16 5D	1.000	1.000	6.000	1.378	0.828	SN.. 543 SN.. 150612	CK-9	STC-4	AAL-17-5/32	ISSN-533	KL-58	AAL-14-1/8
MSSNL 20 5D	1.250	1.250	6.000	1.378	1.078	SN.. 543 SN.. 150612	CK-9	STC-4	AAL-17-5/32	ISSN-533	KL-58	AAL-14-1/8
MSSNL 20 6D	1.250	1.250	6.000	1.480	0.992	SN.. 643 SN.. 190612	CK-9	STC-4	AAL-17-5/32	ISSN-633	KL-68	AAL-19-9/64
MSSNL 24 6D	1.500	1.500	6.000	1.480	1.511	SN.. 643 SN.. 190612	CK-9	STC-4	AAL-17-5/32	ISSN-633	KL-68	AAL-19-9/64



Illustrations shown may vary from actual product.

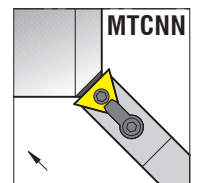
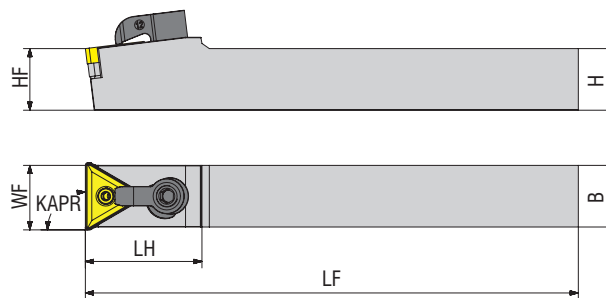


Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
MTANR 08 2B	0.500	0.500	4.500	0.960	0.500	TN.. 221 TN.. 110304	CK-19	STC-9	AAL-16-3/32	-	KL-23	AAL-13-1/16
MTANR 10 3B	0.625	0.625	4.500	1.130	0.625	TN.. 332 TN.. 160408	CK-6	STC-5	AAL-16-3/32	ITSN-323	KL-34L	AAL-18-5/64
MTANR 12 3B	0.750	0.750	4.500	1.130	0.750	TN.. 332 TN.. 160408	CK-6	STC-5	AAL-16-3/32	ITSN-323	KL-34L	AAL-18-5/64
MTANR 16 4D	1.000	1.000	6.000	1.200	1.000	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
MTANL 10 3B	0.625	0.625	4.500	1.130	0.625	TN.. 332 TN.. 160408	CK-6	STC-5	AAL-16-3/32	ITSN-323	KL-34L	AAL-18-5/64
MTANL 12 3B	0.750	0.750	4.500	1.130	0.750	TN.. 332 TN.. 160408	CK-6	STC-5	AAL-16-3/32	ITSN-323	KL-34L	AAL-18-5/64
MTANL 16 4D	1.000	1.000	6.000	1.200	1.000	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32



Illustrations shown may vary from actual product.

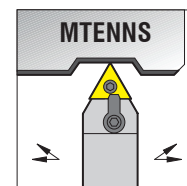
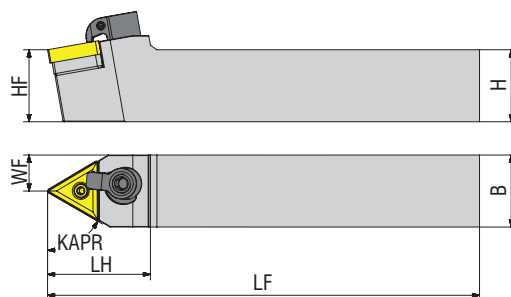


Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
MTCNN 08 3B	0.500	0.500	4.500	1.130	0.552	TN.. 332 TN.. 160408	CK-7	STC-9	AAL-16-3/32	ITSN-323	KL-34L	AAL-18-5/64
MTCNN 44 3F	1.000	0.500	8.000	1.130	0.552	TN.. 332 TN.. 160408	CK-7	STC-9	AAL-16-3/32	ITSN-323	KL-34L	AAL-18-5/64
MTCNN 12 4D	0.750	0.750	6.000	1.430	0.785	TN.. 432 TN.. 220408	CK-12	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
MTCNN 64 4F	1.000	0.750	8.000	1.430	0.775	TN.. 432 TN.. 220408	CK-12	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32



Illustrations shown may vary from actual product.



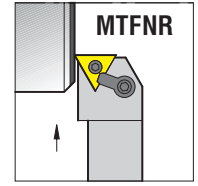
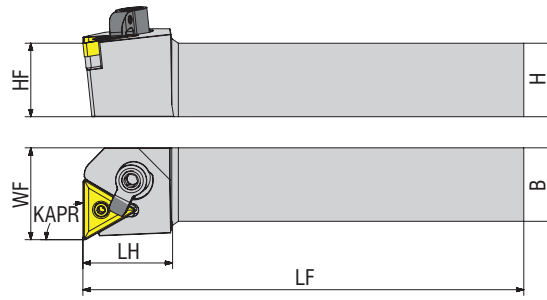
Dimensions in Inch



Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
MTENNS 08 2B	0.500	0.500	4.500	1.000	0.250	TN.. 221 TN.. 110304	CK-6	STC-5	AAL-16-3/32	-	KL-23	AAL-13-1/16
MTENNS 10 3B	0.625	0.625	4.500	1.160	0.312	TN.. 332 TN.. 160408	CK-6	STC-5	AAL-16-3/32	ITSN-323	KL-34L	AAL-18-5/64
MTENNS 12 3B	0.750	0.750	4.500	1.160	0.375	TN.. 332 TN.. 160408	CK-6	STC-5	AAL-16-3/32	ITSN-323	KL-34L	AAL-18-5/64
MTENNS 16 3C	1.000	1.000	5.000	1.160	0.500	TN.. 332 TN.. 160408	CK-6	STC-5	AAL-16-3/32	ITSN-323	KL-34L	AAL-18-5/64
MTENNS 16 4D	1.000	1.000	6.000	1.440	0.500	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
MTENNS 85 4D	1.250	1.000	6.000	1.420	0.500	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
MTENNS 20 5D	1.250	1.250	6.000	1.630	0.625	TN.. 543 TN.. 270612	CK-9	STC-4	AAL-17-5/32	ITSN-534	KL-58	AAL-14-1/8
MTENNS 24 6E	1.500	1.500	7.000	1.950	0.750	TN.. 666 TN.. 330924	CK-12	STC-4	AAL-17-5/32	ITSN-636	KL-68L	AAL-19-9/64



Illustrations shown may vary from actual product.

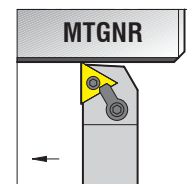
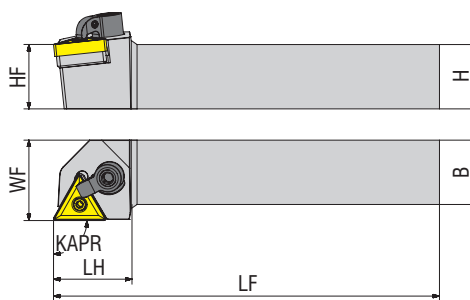


Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
MTFNR 12 3B	0.750	0.750	4.500	0.940	1.000	TN.. 332 TN.. 160408	CK-6	STC-5	AAL-16-3/32	ITSN-323	KL-34L	AAL-18-5/64
MTFNR 16 4C	1.000	1.000	5.000	1.220	1.250	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
MTFNR 16 4D	1.000	1.000	6.000	1.220	1.250	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
MTFNR 20 4D	1.250	1.250	6.000	1.220	1.500	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
MTFNR 20 5D	1.250	1.250	6.000	1.440	1.500	TN.. 543 TN.. 270612	CK-12	STC-4	AAL-17-5/32	ITSN-534	KL-58	AAL-14-1/8
MTFNR 24 6E	1.500	1.500	7.000	1.500	2.000	TN.. 666 TN.. 330924	CK-12	STC-4	AAL-17-5/32	ITSN-636	KL-68L	AAL-19-9/64
MTFNL 12 3B	0.750	0.750	4.500	0.940	1.000	TN.. 332 TN.. 160408	CK-6	STC-5	AAL-16-3/32	ITSN-323	KL-34L	AAL-18-5/64
MTFNL 16 4C	1.000	1.000	5.000	1.220	1.250	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
MTFNL 16 4D	1.000	1.000	6.000	1.220	1.250	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
MTFNL 20 4D	1.250	1.250	6.000	1.220	1.500	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
MTFNL 85 4D	1.250	1.250	6.000	1.220	1.250	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
MTFNL 24 5D	1.500	1.500	6.000	1.440	2.000	TN.. 543 TN.. 270612	CK-12	STC-4	AAL-17-5/32	ITSN-534	KL-58	AAL-14-1/8
MTFNL 24 6E	1.500	1.500	7.000	1.500	2.000	TN.. 666 TN.. 330924	CK-12	STC-4	AAL-17-5/32	ITSN-636	KL-68L	AAL-19-9/64



Illustrations shown may vary from actual product.



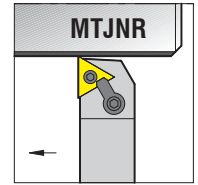
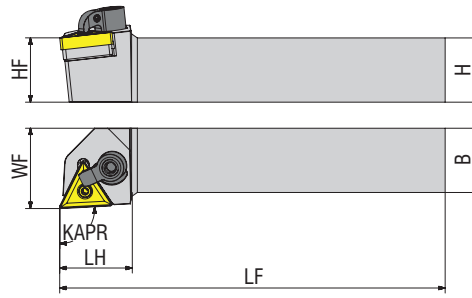
Dimensions in Inch



Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
MTGNR 08 2B	0.500	0.500	4.500	0.960	0.625	TN.. 221 TN.. 110304	CK-19	STC-9	AAL-16-3/32	-	KL-23	AAL-13-1/16
MTGNR 10 3B	0.625	0.625	4.500	1.120	0.875	TN.. 322 TN.. 160308	CK-6	STC-5	AAL-16-3/32	ITSN-333	KL-34L	AAL-18-5/64
MTGNR 12 3B	0.750	0.750	4.500	1.120	1.000	TN.. 332 TN.. 160408	CK-6	STC-5	AAL-16-3/32	ITSN-323	KL-34L	AAL-18-5/64
MTGNR 12 4B	0.750	0.750	4.500	1.200	1.000	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
MTGNR 16 4C	1.000	1.000	5.000	1.200	1.250	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
MTGNR 16 5C	1.000	1.000	5.000	1.380	1.250	TN.. 543 TN.. 270612	CK-9	STC-4	AAL-17-5/32	ITSN-534	KL-58	AAL-14-1/8
MTGNR 16 4D	1.000	1.000	6.000	1.200	1.250	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
MTGNR 20 4D	1.250	1.250	6.000	1.200	1.500	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
MTGNR 20 5D	1.250	1.250	6.000	1.440	1.500	TN.. 543 TN.. 270612	CK-9	STC-4	AAL-17-5/32	ITSN-534	KL-58	AAL-14-1/8
MTGNL 10 3B	0.625	0.625	4.500	1.120	0.875	TN.. 221 TN.. 110304	CK-6	STC-5	AAL-16-3/32	ITSN-333	KL-34L	AAL-18-5/64
MTGNL 12 3B	0.750	0.750	4.500	1.120	1.000	TN.. 332 TN.. 160408	CK-6	STC-5	AAL-16-3/32	ITSN-323	KL-34L	AAL-18-5/64
MTGNL 12 4B	0.750	0.750	4.500	1.200	1.000	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
MTGNL 16 4C	1.000	1.000	5.000	1.200	1.250	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
MTGNL 16 4D	1.000	1.000	6.000	1.200	1.250	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
MTGNL 20 4D	1.250	1.250	6.000	1.200	1.500	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
MTGNL 20 5D	1.250	1.250	6.000	1.440	1.500	TN.. 543 TN.. 270612	CK-9	STC-4	AAL-17-5/32	ITSN-534	KL-58	AAL-14-1/8



Illustrations shown may vary from actual product.



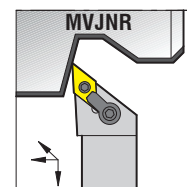
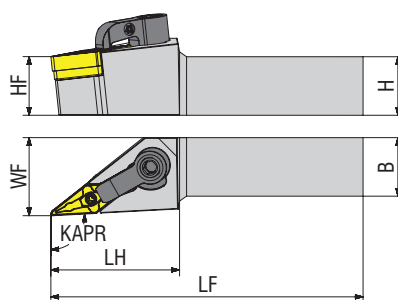
Dimensions in Inch



Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
MTJNR 08 2B	0.500	0.500	4.500	0.720	0.625	TN.. 221 TN.. 110304	CK-19	STC-9	AAL-16-3/32	-	KL-23	AAL-13-1/16
MTJNR 10 3B	0.625	0.625	4.500	0.880	0.875	TN.. 322 TN.. 160308	CK-6	STC-5	AAL-16-3/32	ITSN-333	KL-34L	AAL-18-5/64
MTJNR 12 3B	0.750	0.750	4.500	0.880	1.000	TN.. 322 TN.. 160308	CK-6	STC-5	AAL-16-3/32	ITSN-333	KL-34L	AAL-18-5/64
MTJNR 16 3C	1.000	1.000	5.000	0.880	1.250	TN.. 322 TN.. 160308	CK-6	STC-5	AAL-16-3/32	ITSN-333	KL-34L	AAL-18-5/64
MTJNR 16 3D	1.000	1.000	6.000	0.880	1.250	TN.. 322 TN.. 160308	CK-6	STC-5	AAL-16-3/32	ITSN-333	KL-34L	AAL-18-5/64
MTJNR 16 4D	1.000	1.000	6.000	1.130	1.250	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
MTJNR 20 4D	1.250	1.250	6.000	1.130	1.500	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
MTJNR 20 5D	1.250	1.250	6.000	1.260	1.500	TN.. 543 TN.. 270612	CK-9	STC-4	AAL-17-5/32	ITSN-534	KL-58	AAL-14-1/8
MTJNL 08 2B	0.500	0.500	4.500	0.720	0.625	TN.. 221 TN.. 110304	CK-19	STC-9	AAL-16-3/32	-	KL-23	AAL-13-1/16
MTJNL 10 3B	0.625	0.625	4.500	0.880	0.875	TN.. 322 TN.. 160308	CK-6	STC-5	AAL-16-3/32	ITSN-333	KL-34L	AAL-18-5/64
MTJNL 12 3B	0.750	0.750	4.500	0.880	1.000	TN.. 322 TN.. 160308	CK-6	STC-5	AAL-16-3/32	ITSN-333	KL-34L	AAL-18-5/64
MTJNL 16 3C	1.000	1.000	5.000	0.880	1.250	TN.. 322 TN.. 160308	CK-6	STC-5	AAL-16-3/32	ITSN-333	KL-34L	AAL-18-5/64
MTJNL 16 3D	1.000	1.000	6.000	0.880	1.250	TN.. 322 TN.. 160308	CK-6	STC-5	AAL-16-3/32	ITSN-333	KL-34L	AAL-18-5/64
MTJNL 16 4D	1.000	1.000	6.000	1.130	1.250	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
MTJNL 20 4D	1.250	1.250	6.000	1.130	1.500	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
MTJNL 20 5D	1.250	1.250	6.000	1.260	1.500	TN.. 543 TN.. 270612	CK-9	STC-4	AAL-17-5/32	ITSN-534	KL-58	AAL-14-1/8



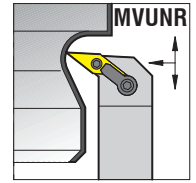
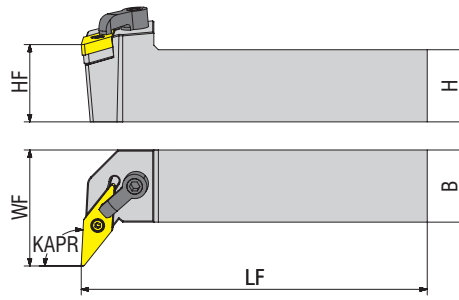
Illustrations shown may vary from actual product.



Dimensions in Inch						      						
Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
MVJNR 12 3A	0.750	0.750	4.000	1.660	1.000	VN.. 332 VN.. 160408	CK-43	STC-4	AAL-17-5/32	IVSN-322	KL-34L	AAL-18-5/64
MVJNR 12 3B	0.750	0.750	4.500	1.660	1.000	VN.. 332 VN.. 160408	CK-43	STC-4	AAL-17-5/32	IVSN-322	KL-34L	AAL-18-5/64
MVJNR 16 3C	1.000	1.000	5.000	1.660	1.250	VN.. 332 VN.. 160408	CK-43	STC-4	AAL-17-5/32	IVSN-322	KL-34L	AAL-18-5/64
MVJNR 16 3D	1.000	1.000	6.000	1.660	1.250	VN.. 332 VN.. 160408	CK-43	STC-4	AAL-17-5/32	IVSN-322	KL-34L	AAL-18-5/64
MVJNR 20 3D	1.250	1.250	6.000	1.660	1.500	VN.. 332 VN.. 160408	CK-43	STC-4	AAL-17-5/32	IVSN-322	KL-34L	AAL-18-5/64
MVJNR 24 3D	1.500	1.500	6.000	1.660	2.000	VN.. 332 VN.. 160408	CK-43	STC-4	AAL-17-5/32	IVSN-322	KL-34L	AAL-18-5/64
MVJNR 12 4B	0.750	0.750	4.500	2.000	1.000	VN.. 432 VN.. 220408	CK-43	STC-4	AAL-17-5/32	IVSN-433	KL-46	AAL-16-3/32
MVJNR 16 4C	1.000	1.000	5.000	2.000	1.250	VN.. 432 VN.. 220408	CK-43	STC-4	AAL-17-5/32	IVSN-433	KL-46	AAL-16-3/32
MVJNR 16 4D	1.000	1.000	6.000	2.000	1.250	VN.. 432 VN.. 220408	CK-43	STC-4	AAL-17-5/32	IVSN-433	KL-46	AAL-16-3/32
MVJNR 20 4D	1.250	1.250	6.000	2.000	1.500	VN.. 432 VN.. 220408	CK-43	STC-4	AAL-17-5/32	IVSN-433	KL-46	AAL-16-3/32
MVJNR 24 4D	1.500	1.500	6.000	2.000	2.000	VN.. 432 VN.. 220408	CK-43	STC-4	AAL-17-5/32	IVSN-433	KL-46	AAL-16-3/32
MVJNL 12 3A	0.750	0.750	4.000	1.660	1.000	VN.. 332 VN.. 160408	CK-43	STC-4	AAL-17-5/32	IVSN-322	KL-34L	AAL-18-5/64
MVJNL 12 3B	0.750	0.750	4.500	1.660	1.000	VN.. 332 VN.. 160408	CK-43	STC-4	AAL-17-5/32	IVSN-322	KL-34L	AAL-18-5/64
MVJNL 16 3C	1.000	1.000	5.000	1.660	1.250	VN.. 332 VN.. 160408	CK-43	STC-4	AAL-17-5/32	IVSN-322	KL-34L	AAL-18-5/64
MVJNL 16 3D	1.000	1.000	6.000	1.660	1.250	VN.. 332 VN.. 160408	CK-43	STC-4	AAL-17-5/32	IVSN-322	KL-34L	AAL-18-5/64
MVJNL 20 3D	1.250	1.250	6.000	1.660	1.500	VN.. 332 VN.. 160408	CK-43	STC-4	AAL-17-5/32	IVSN-322	KL-34L	AAL-18-5/64
MVJNL 16 4C	1.000	1.000	5.000	2.000	1.250	VN.. 432 VN.. 220408	CK-43	STC-4	AAL-17-5/32	IVSN-433	KL-46	AAL-16-3/32
MVJNL 16 4D	1.000	1.000	6.000	2.000	1.250	VN.. 432 VN.. 220408	CK-43	STC-4	AAL-17-5/32	IVSN-433	KL-46	AAL-16-3/32
MVJNL 20 4D	1.250	1.250	6.000	2.000	1.500	VN.. 432 VN.. 220408	CK-43	STC-4	AAL-17-5/32	IVSN-433	KL-46	AAL-16-3/32
MVJNL 24 4D	1.500	1.500	6.000	2.000	2.000	VN.. 432 VN.. 220408	CK-43	STC-4	AAL-17-5/32	IVSN-433	KL-46	AAL-16-3/32



Illustrations shown may vary from actual product.

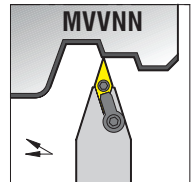
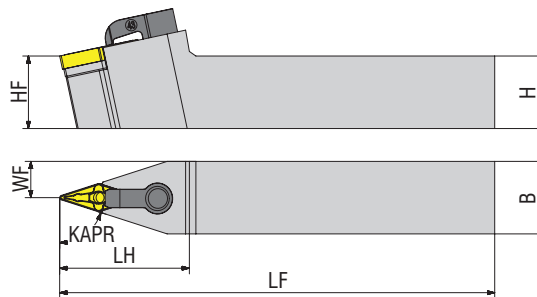


Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
MVUNR 20 4C	1.250	1.250	5.000	1.250	2.000	VN.. 432 VN.. 220408	CK-43	STC-4	AAL-17-5/32	IVSN-433	KL-46	AAL-16-3/32
MVUNR 20 4D	1.250	1.250	6.000	1.250	2.000	VN.. 432 VN.. 220408	CK-43	STC-4	AAL-17-5/32	IVSN-433	KL-46	AAL-16-3/32
MVUNR 24 4D	1.500	1.500	6.000	1.250	2.250	VN.. 432 VN.. 220408	CK-43	STC-4	AAL-17-5/32	IVSN-433	KL-46	AAL-16-3/32
MVUNL 20 4D	1.250	1.250	6.000	1.250	2.000	VN.. 432 VN.. 220408	CK-43	STC-4	AAL-17-5/32	IVSN-433	KL-46	AAL-16-3/32
MVUNL 24 4D	1.500	1.500	6.000	1.250	2.250	VN.. 432 VN.. 220408	CK-43	STC-4	AAL-17-5/32	IVSN-433	KL-46	AAL-16-3/32



Illustrations shown may vary from actual product.

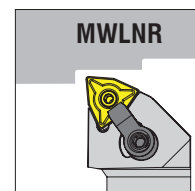
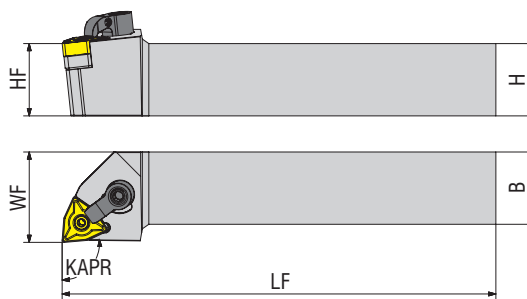


Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
MVVNN 12 3B	0.750	0.750	4.500	1.770	0.375	VN.. 332 VN.. 160408	CK-43	STC-4	AAL-17-5/32	IVSN-322	KL-34L	AAL-18-5/64
MVVNN 16 3C	1.000	1.000	5.000	1.770	0.500	VN.. 332 VN.. 160408	CK-43	STC-4	AAL-17-5/32	IVSN-322	KL-34L	AAL-18-5/64
MVVNN 16 3D	1.000	1.000	6.000	1.800	0.500	VN.. 332 VN.. 160408	CK-43	STC-4	AAL-17-5/32	IVSN-322	KL-34L	AAL-18-5/64
MVVNN 20 3D	1.250	1.250	6.000	1.770	0.625	VN.. 332 VN.. 160408	CK-43	STC-4	AAL-17-5/32	IVSN-322	KL-34L	AAL-18-5/64
MVVNN 16 4D	1.000	1.000	6.000	2.250	0.500	VN.. 432 VN.. 220408	CK-43	STC-4	AAL-17-5/32	IVSN-433	KL-46	AAL-16-3/32
MVVNN 20 4D	1.250	1.250	6.000	2.250	0.625	VN.. 432 VN.. 220408	CK-43	STC-4	AAL-17-5/32	IVSN-433	KL-46	AAL-16-3/32
MVVNN 24 4E	1.500	1.500	7.000	2.250	0.750	VN.. 432 VN.. 220408	CK-43	STC-4	AAL-17-5/32	IVSN-433	KL-46	AAL-16-3/32



Illustrations shown may vary from actual product.



Dimensions in Inch

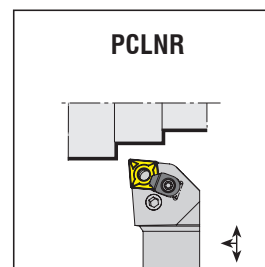
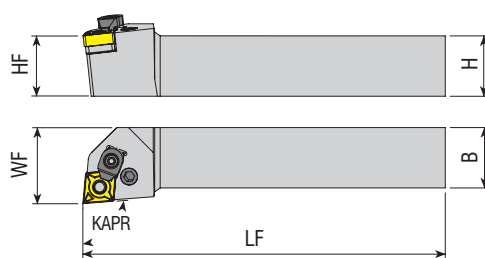
Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
MWLNR 12 3B	0.750	0.750	4.500	0.880	1.000	WN.. 332 WN.. 060408	CK-6	STC-5	AAL-16-3/32	IWSN-322	KL-34L	AAL-18-5/64
MWLNR 12 4B	0.750	0.750	4.500	1.120	1.000	WN.. 432 WN.. 080408	CK-20	STC-20	AAL-14-1/8	IWSN-433	KL-46	AAL-16-3/32
MWLNR 16 3C	1.000	1.000	5.000	0.880	1.250	WN.. 332 WN.. 060408	CK-6	STC-5	AAL-16-3/32	IWSN-322	KL-34L	AAL-18-5/64
MWLNR 16 3D	1.000	1.000	6.000	0.880	1.250	WN.. 332 WN.. 060408	CK-6	STC-5	AAL-16-3/32	IWSN-322	KL-34L	AAL-18-5/64
MWLNR 16 4C	1.000	1.000	5.000	1.130	1.250	WN.. 432 WN.. 080408	CK-20	STC-20	AAL-14-1/8	IWSN-433	KL-46	AAL-16-3/32
MWLNR 16 4D	1.000	1.000	6.000	1.120	1.250	WN.. 432 WN.. 080408	CK-20	STC-20	AAL-14-1/8	IWSN-433	KL-46	AAL-16-3/32
MWLNR 20 4D	1.250	1.250	6.000	1.120	1.500	WN.. 432 WN.. 080408	CK-20	STC-20	AAL-14-1/8	IWSN-433	KL-46	AAL-16-3/32
MWLNL 12 3B	0.750	0.750	4.500	0.880	1.000	WN.. 332 WN.. 060408	CK-6	STC-5	AAL-16-3/32	IWSN-322	KL-34L	AAL-18-5/64
MWLNL 12 4B	0.750	0.750	4.500	1.120	1.000	WN.. 432 WN.. 080408	CK-20	STC-20	AAL-14-1/8	IWSN-433	KL-46	AAL-16-3/32
MWLNL 16 3C	1.000	1.000	5.000	0.880	1.250	WN.. 332 WN.. 060408	CK-6	STC-5	AAL-16-3/32	IWSN-322	KL-34L	AAL-18-5/64
MWLNL 16 3D	1.000	1.000	6.000	0.880	1.250	WN.. 332 WN.. 060408	CK-6	STC-5	AAL-16-3/32	IWSN-322	KL-34L	AAL-18-5/64
MWLNL 16 4C	1.000	1.000	5.000	1.130	1.250	WN.. 432 WN.. 080408	CK-20	STC-20	AAL-14-1/8	IWSN-433	KL-46	AAL-16-3/32
MWLNL 16 4D	1.000	1.000	6.000	1.120	1.250	WN.. 432 WN.. 080408	CK-20	STC-20	AAL-14-1/8	IWSN-433	KL-46	AAL-16-3/32
MWLNL 20 4D	1.250	1.250	6.000	1.120	1.500	WN.. 432 WN.. 080408	CK-20	STC-20	AAL-14-1/8	IWSN-433	KL-46	AAL-16-3/32

the spoken quality...

P-SYSTEM

P-SYSTEM EXTERNAL TURNING TOOLHOLDERS





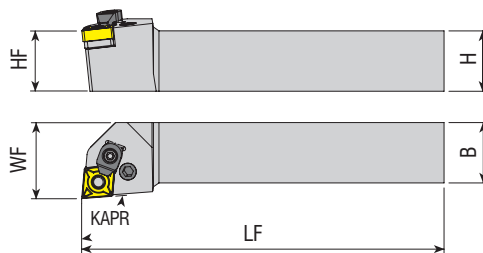
Illustrations shown may vary from actual product.

Dimensions in Metric

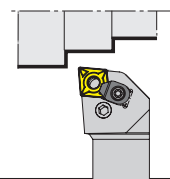


Ordering Code	HF=H	B	LF	WF	Insert Inch/Metric	Lever	Lever Screw	Shim	Shim Spring	Wedge Clamp	Clamp Screw	Allen Key
PCLNR 1616 H09	16	16	100	20	CN.. 32.. CN.. 0903..	APL-01	ALV-02-M6x17	AACN-2-0002	AAY-01	-	-	AAL-02-2.5
PCLNR 2020 K09	20	20	125	25	CN.. 32.. CN.. 0903..	APL-01	ALV-02-M6x17	AACN-2-0002	AAY-01	-	-	AAL-02-2.5
PCLNR 2525 M09	25	25	150	32	CN.. 32.. CN.. 0903..	APL-01	ALV-02-M6x17	AACN-2-0002	AAY-01	-	-	AAL-02-2.5
PCLNR 1616 H12	16	16	100	20	CN.. 43.. CN.. 1204..	APL-02	ALV-03-M8x19	AACN-3-0001	AAY-02	-	-	AAL-03-3
PCLNR 2020 K12C	20	20	125	25	CN.. 43.. CN.. 1204..	APL-02	ALV-03-M8x19	AACN-3-0001	AAY-02	ACK-05	4015-M4x11	AAL-03-3
PCLNR 2525 M12C	25	25	150	32	CN.. 43.. CN.. 1204..	APL-02	ALV-03-M8x19	AACN-3-0001	AAY-02	ACK-05	4015-M4x11	AAL-03-3
PCLNR 3232 P12C	32	32	170	40	CN.. 43.. CN.. 1204..	APL-02	ALV-03-M8x19	AACN-3-0001	AAY-02	ACK-05	4015-M4x11	AAL-03-3
PCLNR 2525 M16C	25	25	150	32	CN.. 54.. CN.. 1606..	APL-04	ALV-04-M8x22	AACN-3-0002	AAY-03	ACK-09	AAV-05-M6x15	AAL-03-3
PCLNR 3232 P16C	32	32	170	40	CN.. 54.. CN.. 1606..	APL-04	ALV-04-M8x22	AACN-3-0002	AAY-03	ACK-09	AAV-05-M6x15	AAL-03-3
PCLNR 2525 M19C	25	25	150	32	CN.. 64.. CN.. 1906..	APL-05	ALV-05-M10x27	AACN-3-0003	AAY-04	ACK-09	AAV-05-M6x15	AAL-05-4
PCLNR 3232 P19C	32	32	170	40	CN.. 64.. CN.. 1906..	APL-05	ALV-05-M10x27	AACN-3-0003	AAY-04	ACK-09	AAV-05-M6x15	AAL-05-4
PCLNR 4040 S19C	40	40	250	50	CN.. 64.. CN.. 1906..	APL-05	ALV-05-M10x27	AACN-3-0003	AAY-04	ACK-09	AAV-05-M6x15	AAL-05-4
PCLNR 5050 S19C	50	50	250	60	CN.. 64.. CN.. 1906..	APL-05	ALV-05-M10x27	AACN-3-0003	AAY-04	ACK-09	AAV-05-M6x15	AAL-05-4
PCLNR 4040 S25C	40	40	250	50	CN.. 86.. CN.. 2509..	APL-06	ALV-06-M12x36	AACN-3-0008	AAY-05	ACK-04	AKV-16-M6x16	AAL-07-5
PCLNR 5050 S25C	50	50	250	60	CN.. 86.. CN.. 2509..	APL-06	ALV-06-M12x36	AACN-3-0008	AAY-05	ACK-04	AKV-16-M6x16	AAL-07-5
PCLNL 1616 H09	16	16	100	20	CN.. 32.. CN.. 0903..	APL-01	ALV-02-M6x17	AACN-2-0002	AAY-01	-	-	AAL-02-2.5
PCLNL 2020 K09	20	20	125	25	CN.. 32.. CN.. 0903..	APL-01	ALV-02-M6x17	AACN-2-0002	AAY-01	-	-	AAL-02-2.5
PCLNL 2525 M09	25	25	150	32	CN.. 32.. CN.. 0903..	APL-01	ALV-02-M6x17	AACN-2-0002	AAY-01	-	-	AAL-02-2.5
PCLNL 1616 H12	16	16	100	20	CN.. 43.. CN.. 1204..	APL-02	ALV-03-M8x19	AACN-3-0001	AAY-02	-	-	AAL-03-3
PCLNL 2020 K12C	20	20	125	25	CN.. 43.. CN.. 1204..	APL-02	ALV-03-M8x19	AACN-3-0001	AAY-02	ACK-05	4015-M4x11	AAL-03-3
PCLNL 2525 M12C	25	25	150	32	CN.. 43.. CN.. 1204..	APL-02	ALV-03-M8x19	AACN-3-0001	AAY-02	ACK-05	4015-M4x11	AAL-03-3
PCLNL 3232 P12C	32	32	170	40	CN.. 43.. CN.. 1204..	APL-02	ALV-03-M8x19	AACN-3-0001	AAY-02	ACK-05	4015-M4x11	AAL-03-3
PCLNL 2525 M16C	25	25	150	32	CN.. 54.. CN.. 1606..	APL-04	ALV-04-M8x22	AACN-3-0002	AAY-03	ACK-09	AAV-05-M6x15	AAL-03-3
PCLNL 3232 P16C	32	32	170	40	CN.. 54.. CN.. 1606..	APL-04	ALV-04-M8x22	AACN-3-0002	AAY-03	ACK-09	AAV-05-M6x15	AAL-03-3
PCLNL 2525 M19C	25	25	150	32	CN.. 64.. CN.. 1906..	APL-05	ALV-05-M10x27	AACN-3-0003	AAY-04	ACK-09	AAV-05-M6x15	AAL-05-4
PCLNL 3232 P19C	32	32	170	40	CN.. 64.. CN.. 1906..	APL-05	ALV-05-M10x27	AACN-3-0003	AAY-04	ACK-09	AAV-05-M6x15	AAL-05-4

KAPR=95°



PCLNR

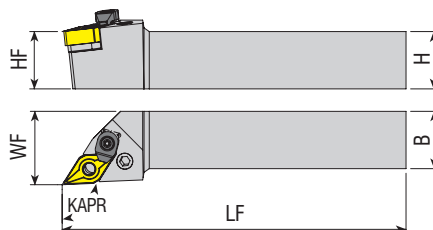


Illustrations shown may vary from actual product.

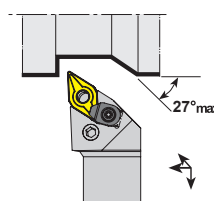
Dimensions in Metric

Ordering Code	HF=H	B	LF	WF	Insert Inch/Metric	Lever	Lever Screw	Shim	Shim Spring	Wedge Clamp	Clamp Screw	Allen Key
PCLNL 4040 S19C	40	40	250	50	CN.. 64.. CN.. 1906..	APL-05	ALV-05-M10x27	AACN-3-0003	AAY-04	ACK-09	AAV-05-M6x15	AAL-05-4
PCLNL 5050 S19C	50	50	250	60	CN.. 64.. CN.. 1906..	APL-05	ALV-05-M10x27	AACN-3-0003	AAY-04	ACK-09	AAV-05-M6x15	AAL-05-4
PCLNL 4040 S25C	40	40	250	50	CN.. 86.. CN.. 2509..	APL-06	ALV-06-M12x36	AACN-3-0008	AAY-05	ACK-04	AKV-16-M6x16	AAL-07-5
PCLNL 5050 S25C	50	50	250	60	CN.. 86.. CN.. 2509..	APL-06	ALV-06-M12x36	AACN-3-0008	AAY-05	ACK-04	AKV-16-M6x16	AAL-07-5

KAPR=93°



PDJNR

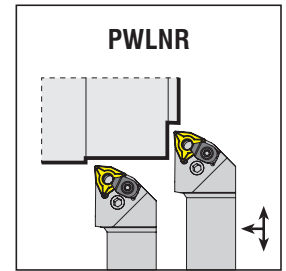
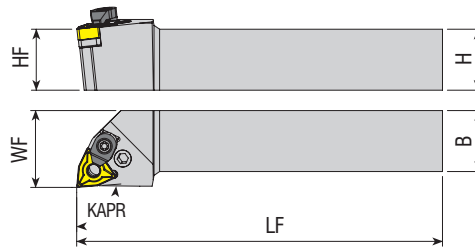


Illustrations shown may vary from actual product.

Dimensions in Metric

Ordering Code	HF=H	B	LF	WF	Insert Inch/Metric	Lever	Lever Screw	Shim	Shim Spring	Wedge Clamp	Clamp Screw	Allen Key
PDJNR 1616 H11	16	16	100	20	DN.. 33.. DN.. 1104..	APL-01	ALV-02-M6x17	AADN-SD317	AAY-01	-	-	AAL-02-2.5
PDJNR 2020 K11	20	20	125	25	DN.. 33.. DN.. 1104..	APL-01	ALV-02-M6x17	AADN-SD317	AAY-01	-	-	AAL-02-2.5
PDJNR 2525 M11	25	25	150	32	DN.. 33.. DN.. 1104..	APL-01	ALV-02-M6x17	AADN-SD317	AAY-01	-	-	AAL-02-2.5
PDJNR 2020 K15C	20	20	125	25	DN.. 44.. DN.. 1506..	APL-03	ALV-03-M8x19	AADN-3-0001	AAY-02	ACK-05	4015-M4x11	AAL-03-3
PDJNR 2525 M15C	25	25	150	32	DN.. 44.. DN.. 1506..	APL-03	ALV-03-M8x19	AADN-3-0001	AAY-02	ACK-05	4015-M4x11	AAL-03-3
PDJNR 3232 P15C	32	32	170	40	DN.. 44.. DN.. 1506..	APL-03	ALV-03-M8x19	AADN-3-0001	AAY-02	ACK-05	4015-M4x11	AAL-03-3
PDJNR 4040 S15C	40	40	250	50	DN.. 44.. DN.. 1506..	APL-03	ALV-03-M8x19	AADN-3-0001	AAY-02	ACK-05	4015-M4x11	AAL-03-3
PDJNL 1616 H11	16	16	100	20	DN.. 33.. DN.. 1104..	APL-01	ALV-02-M6x17	AADN-SD317	AAY-01	-	-	AAL-02-2.5
PDJNL 2020 K11	20	20	125	25	DN.. 33.. DN.. 1104..	APL-01	ALV-02-M6x17	AADN-SD317	AAY-01	-	-	AAL-02-2.5
PDJNL 2525 M11	25	25	150	32	DN.. 33.. DN.. 1104..	APL-01	ALV-02-M6x17	AADN-SD317	AAY-01	-	-	AAL-02-2.5
PDJNL 2020 K15C	20	20	125	25	DN.. 44.. DN.. 1506..	APL-03	ALV-03-M8x19	AADN-3-0001	AAY-02	ACK-05	4015-M4x11	AAL-03-3
PDJNL 2525 M15C	25	25	150	32	DN.. 44.. DN.. 1506..	APL-03	ALV-03-M8x19	AADN-3-0001	AAY-02	ACK-05	4015-M4x11	AAL-03-3
PDJNL 3232 P15C	32	32	170	40	DN.. 44.. DN.. 1506..	APL-03	ALV-03-M8x19	AADN-3-0001	AAY-02	ACK-05	4015-M4x11	AAL-03-3
PDJNL 4040 S15C	40	40	250	50	DN.. 44.. DN.. 1506..	APL-03	ALV-03-M8x19	AADN-3-0001	AAY-02	ACK-05	4015-M4x11	AAL-03-3

KAPR=95°



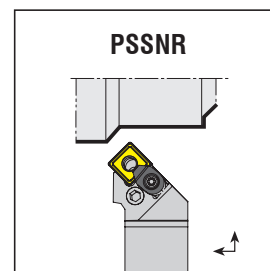
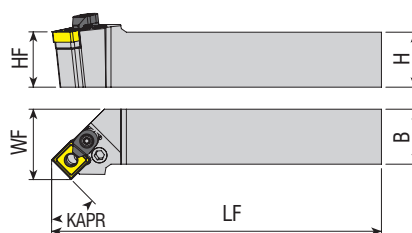
Illustrations shown may vary from actual product.

Dimensions in Metric



Ordering Code	HF=H	B	LF	WF	Insert Inch/Metric	Lever	Lever Screw	Shim	Shim Spring	Wedge Clamp	Clamp Screw	Allen Key
PWLNLR 1616 H06	16	16	100	20	WN.. 33.. WN.. 0604..	APL-01	ALV-02-M6x17	AAWN-SW317	AAY-01	-	-	AAL-02-2.5
PWLNLR 2020 K06	20	20	125	25	WN.. 33.. WN.. 0604..	APL-01	ALV-02-M6x17	AAWN-SW317	AAY-01	-	-	AAL-02-2.5
PWLNLR 2525 M06	25	25	150	32	WN.. 33.. WN.. 0604..	APL-01	ALV-02-M6x17	AAWN-SW317	AAY-01	-	-	AAL-02-2.5
PWLNLR 3232 P06	32	32	170	40	WN.. 33.. WN.. 0604..	APL-01	ALV-02-M6x17	AAWN-SW317	AAY-01	-	-	AAL-02-2.5
PWLNLR 1616 H08	16	16	100	20	WN.. 43.. WN.. 0804..	APL-02	ALV-03-M8x19	AAWN-3-0001	AAY-02	-	-	AAL-03-3
PWLNLR 2020 K08C	20	20	125	25	WN.. 43.. WN.. 0804..	APL-02	ALV-03-M8x19	AAWN-3-0001	AAY-02	ACK-05	4015-M4x11	AAL-03-3
PWLNLR 2525 M08C	25	25	150	32	WN.. 43.. WN.. 0804..	APL-02	ALV-03-M8x19	AAWN-3-0001	AAY-02	ACK-05	4015-M4x11	AAL-03-3
PWLNLR 3232 P08C	32	32	170	40	WN.. 43.. WN.. 0804..	APL-02	ALV-03-M8x19	AAWN-3-0001	AAY-02	ACK-05	4015-M4x11	AAL-03-3
PWLNLR 1616 H06	16	16	100	20	WN.. 33.. WN.. 0604..	APL-01	ALV-02-M6x17	AAWN-SW317	AAY-01	-	-	AAL-02-2.5
PWLNLR 2020 K06	20	20	125	25	WN.. 33.. WN.. 0604..	APL-01	ALV-02-M6x17	AAWN-SW317	AAY-01	-	-	AAL-02-2.5
PWLNLR 2525 M06	25	25	150	32	WN.. 33.. WN.. 0604..	APL-01	ALV-02-M6x17	AAWN-SW317	AAY-01	-	-	AAL-02-2.5
PWLNLR 3232 P06	32	32	170	40	WN.. 33.. WN.. 0604..	APL-01	ALV-02-M6x17	AAWN-SW317	AAY-01	-	-	AAL-02-2.5
PWLNLR 1616 H08	16	16	100	20	WN.. 43.. WN.. 0804..	APL-02	ALV-03-M8x19	AAWN-3-0001	AAY-02	-	-	AAL-03-3
PWLNLR 2020 K08C	20	20	125	25	WN.. 43.. WN.. 0804..	APL-02	ALV-03-M8x19	AAWN-3-0001	AAY-02	ACK-05	4015-M4x11	AAL-03-3
PWLNLR 2525 M08C	25	25	150	32	WN.. 43.. WN.. 0804..	APL-02	ALV-03-M8x19	AAWN-3-0001	AAY-02	ACK-05	4015-M4x11	AAL-03-3
PWLNLR 3232 P08C	32	32	170	40	WN.. 43.. WN.. 0804..	APL-02	ALV-03-M8x19	AAWN-3-0001	AAY-02	ACK-05	4015-M4x11	AAL-03-3

KAPR=45°



Illustrations shown may vary from actual product.

Dimensions in Metric

Ordering Code	HF=H	B	LF	WF	Insert Inch/Metric	Lever	Lever Screw	Shim	Shim Spring	Wedge Clamp	Clamp Screw	Allen Key
PSSNR 1616 H09	16	16	100	20	SN.. 32.. SN.. 0903..	APL-01	ALV-02-M6x17	AASN-2-0002	AAY-01	-	-	AAL-02-2.5
PSSNR 2020 K09	20	20	125	25	SN.. 32.. SN.. 0903..	APL-01	ALV-02-M6x17	AASN-2-0002	AAY-01	-	-	AAL-02-2.5
PSSNR 2020 K12C	20	20	125	25	SN.. 43.. SN.. 1204..	APL-02	ALV-03-M8x19	AASN-3-0004	AAY-02	ACK-05	4015-M4x11	AAL-03-3
PSSNR 2525 M12C	25	25	150	32	SN.. 43.. SN.. 1204..	APL-02	ALV-03-M8x19	AASN-3-0004	AAY-02	ACK-05	4015-M4x11	AAL-03-3
PSSNR 3232 P12C	32	32	170	40	SN.. 43.. SN.. 1204..	APL-02	ALV-03-M8x19	AASN-3-0004	AAY-02	ACK-05	4015-M4x11	AAL-03-3
PSSNR 3232 P15C	32	32	170	40	SN.. 54.. SN.. 1506..	APL-04	ALV-04-M8x22	AASN-3-0023	AAY-03	ACK-09	AAV-05-M6x15	AAL-03-3
PSSNR 3232 P19C	32	32	170	40	SN.. 64.. SN.. 1906..	APL-05	ALV-05-M10x27	AASN-3-0005	AAY-04	ACK-09	AAV-05-M6x15	AAL-05-4
PSSNR 4040 S19C	40	40	250	50	SN.. 64.. SN.. 1906..	APL-05	ALV-05-M10x27	AASN-3-0005	AAY-04	ACK-09	AAV-05-M6x15	AAL-05-4
PSSNR 4040 S25C	40	40	250	50	SN.. 86.. SN.. 2509..	APL-06	ALV-06-M12x36	AASN-3-0020	AAY-05	ACK-04	AKV-16-M6x16	AAL-07-5
PSSNL 1616 H09	16	16	100	20	SN.. 32.. SN.. 0903..	APL-01	ALV-02-M6x17	AASN-2-0002	AAY-01	-	-	AAL-02-2.5
PSSNL 2020 K09	20	20	125	25	SN.. 32.. SN.. 0903..	APL-01	ALV-02-M6x17	AASN-2-0002	AAY-01	-	-	AAL-02-2.5
PSSNL 2020 K12C	20	20	125	25	SN.. 43.. SN.. 1204..	APL-02	ALV-03-M8x19	AASN-3-0004	AAY-02	ACK-05	4015-M4x11	AAL-03-3
PSSNL 2525 M12C	25	25	150	32	SN.. 43.. SN.. 1204..	APL-02	ALV-03-M8x19	AASN-3-0004	AAY-02	ACK-05	4015-M4x11	AAL-03-3
PSSNL 3232 P12C	32	32	170	40	SN.. 43.. SN.. 1204..	APL-02	ALV-03-M8x19	AASN-3-0004	AAY-02	ACK-05	4015-M4x11	AAL-03-3
PSSNL 3232 P15C	32	32	170	40	SN.. 54.. SN.. 1506..	APL-04	ALV-04-M8x22	AASN-3-0023	AAY-03	ACK-09	AAV-05-M6x15	AAL-03-3
PSSNL 3232 P19C	32	32	170	40	SN.. 64.. SN.. 1906..	APL-05	ALV-05-M10x27	AASN-3-0005	AAY-04	ACK-09	AAV-05-M6x15	AAL-05-4
PSSNL 4040 S19C	40	40	250	50	SN.. 64.. SN.. 1906..	APL-05	ALV-05-M10x27	AASN-3-0005	AAY-04	ACK-09	AAV-05-M6x15	AAL-05-4
PSSNL 4040 S25C	40	40	250	50	SN.. 86.. SN.. 2509..	APL-06	ALV-06-M12x36	AASN-3-0020	AAY-05	ACK-04	AKV-16-M6x16	AAL-07-5

P-SYSTEM EXTERNAL TURNING TOOLHOLDERS



the spoken quality...

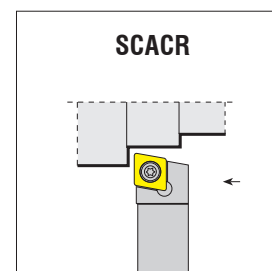
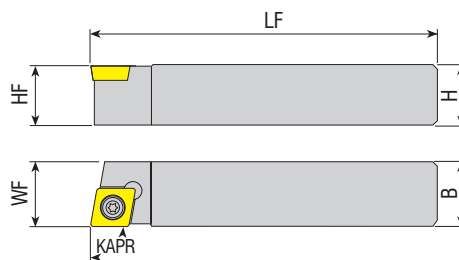
S-SYSTEM

S-SYSTEM EXTERNAL TURNING TOOLHOLDERS





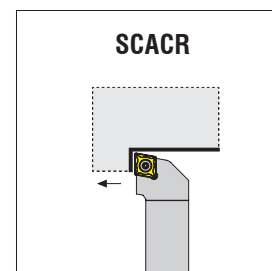
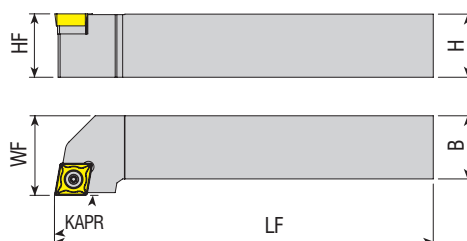
Illustrations shown may vary from actual product.



Dimensions in Inch										
Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SCACR 05 2D-S	0.312	0.312	6.000	0.440	0.313	CC.. 2151 CC.. 060204	4008-M2.5x6	-	-	82-T08
SCACR 06 2D-S	0.375	0.375	6.000	0.440	0.375	CC.. 2151 CC.. 060204	4008-M2.5x6	-	-	82-T08
SCACR 08 3D-S	0.500	0.500	6.000	0.620	0.500	CC.. 3252 CC.. 09T308	4015-M3.5x11	-	-	80-T15
SCACR 10 3B-S	0.625	0.625	4.500	0.620	0.625	CC.. 3252 CC.. 09T308	4015-M3.5x14	AACN-2-0001	AAV-06-M3.5x11	80-T15
SCACL 06 2D-S	0.375	0.375	6.000	0.440	0.375	CC.. 2151 CC.. 060204	4008-M2.5x6	-	-	82-T08
SCACL 08 3D-S	0.500	0.500	6.000	0.620	0.500	CC.. 3252 CC.. 09T308	4015-M3.5x11	-	-	80-T15
SCACL 10 3B-S	0.625	0.625	4.500	0.620	0.625	CC.. 3252 CC.. 09T308	4015-M3.5x14	AACN-2-0001	AAV-06-M3.5x11	80-T15

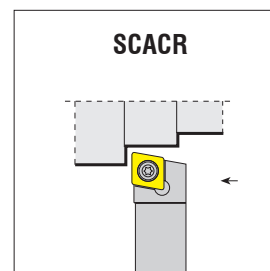
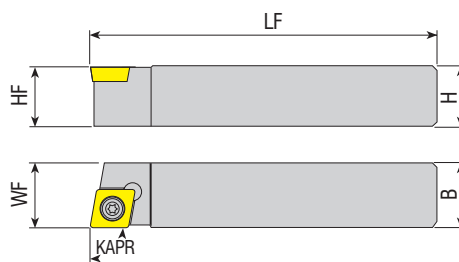


Illustrations shown may vary from actual product.



Dimensions in Inch										
Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SCACR 10 2A	0.625	0.625	4.000	0.500	0.750	CC.. 2151 CC.. 060204	4008-M2.5x6	-	-	82-T08
SCACR 10 3A	0.625	0.625	4.000	0.620	0.750	CC.. 3252 CC.. 09T308	4015-M3.5x14	AACN-2-0001	AAV-06-M3.5x11	80-T15
SCACR 12 3B	0.750	0.750	4.500	0.620	1.000	CC.. 3252 CC.. 09T308	4015-M3.5x14	AACN-2-0001	AAV-06-M3.5x11	80-T15
SCACR 16 3D	1.000	1.000	6.000	0.620	1.250	CC.. 3252 CC.. 09T308	4015-M3.5x14	AACN-2-0001	AAV-06-M3.5x11	80-T15
SCACL 12 3B	0.750	0.750	4.500	0.620	1.000	CC.. 3252 CC.. 09T308	4015-M3.5x14	AACN-2-0001	AAV-06-M3.5x11	80-T15
SCACL 16 3D	1.000	1.000	6.000	0.620	1.250	CC.. 3252 CC.. 09T308	4015-M3.5x14	AACN-2-0001	AAV-06-M3.5x11	80-T15

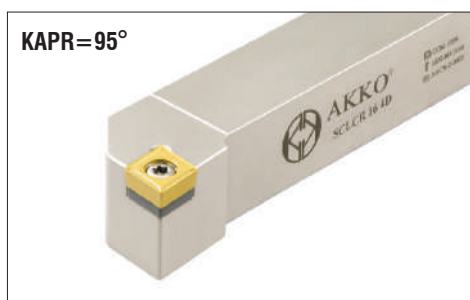
KAPR=90°



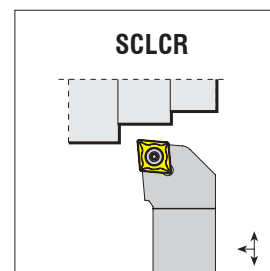
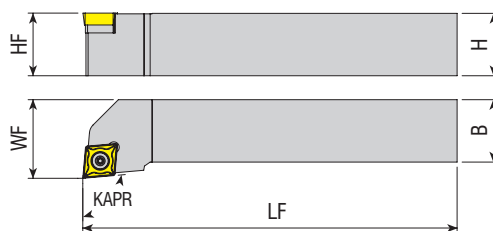
Illustrations shown may vary from actual product.

Dimensions in Metric

Ordering Code	HF=H	B	LF	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SCACR 0808 X06-S	08	08	115	08	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCACR 1010 K06-S	10	10	125	10	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCACR 1212 G06-S	12	12	90	12	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCACR 1212 K06-S	12	12	125	12	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCACR 1616 F06-S	16	16	75	16	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCACR 1616 K06-S	16	16	125	16	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCACR 1212 G09-S	12	12	90	12	CC.. 325.. CC.. 09T3..	4015-M3.5x11	-	-	80-T15
SCACR 1212 K09-S	12	12	125	12	CC.. 325.. CC.. 09T3..	4015-M3.5x11	-	-	80-T15
SCACR 1616 F09-S	16	16	75	16	CC.. 325.. CC.. 09T3..	4015-M3.5x11	-	-	80-T15
SCACR 1616 K09-S	16	16	125	16	CC.. 325.. CC.. 09T3..	4015-M3.5x11	-	-	80-T15
SCACR 2020 K09-S	20	20	125	20	CC.. 325.. CC.. 09T3..	4015-M3.5x11	-	-	80-T15
SCACL 0808 X06-S	08	08	115	08	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCACL 1010 K06-S	10	10	125	10	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCACL 1212 G06-S	12	12	90	12	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCACL 1212 K06-S	12	12	125	12	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCACL 1616 F06-S	16	16	75	16	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCACL 1616 K06-S	16	16	125	16	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCACL 1212 G09-S	12	12	90	12	CC.. 325.. CC.. 09T3..	4015-M3.5x11	-	-	80-T15
SCACL 1212 K09-S	12	12	125	12	CC.. 325.. CC.. 09T3..	4015-M3.5x11	-	-	80-T15
SCACL 1616 F09-S	16	16	75	16	CC.. 325.. CC.. 09T3..	4015-M3.5x11	-	-	80-T15
SCACL 1616 K09-S	16	16	125	16	CC.. 325.. CC.. 09T3..	4015-M3.5x11	-	-	80-T15
SCACL 2020 K09-S	20	20	125	20	CC.. 325.. CC.. 09T3..	4015-M3.5x11	-	-	80-T15



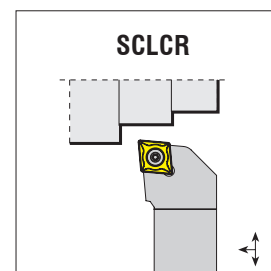
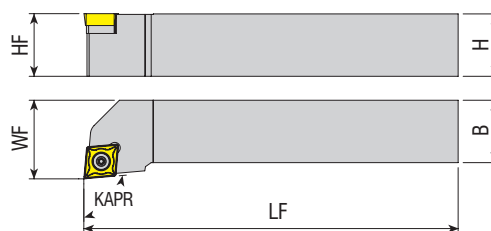
Illustrations shown may vary from actual product.



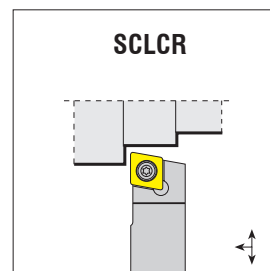
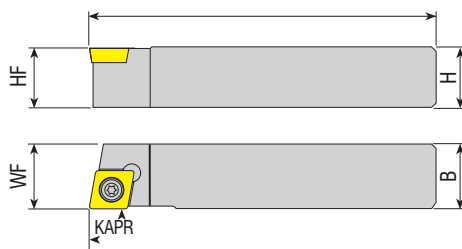
Dimensions in Inch										
Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SCLCR 10 2A	0.625	0.625	4.000	0.500	0.750	CC.. 2151 CC.. 060204	4008-M2.5x6	-	-	82-T08
SCLCR 10 3A	0.625	0.625	4.000	0.620	0.750	CC.. 3252 CC.. 09T308	4015-M3.5x14	AACN-2-0001	AAV-06-M3.5x11	80-T15
SCLCR 12 3B	0.750	0.750	4.500	0.620	1.000	CC.. 3252 CC.. 09T308	4015-M3.5x14	AACN-2-0001	AAV-06-M3.5x11	80-T15
SCLCR 16 3D	1.000	1.000	6.000	0.620	1.250	CC.. 3252 CC.. 09T308	4015-M3.5x14	AACN-2-0001	AAV-06-M3.5x11	80-T15
SCLCR 12 4B	0.750	0.750	4.500	0.750	1.000	CC.. 432 CC.. 120408	1020-M4.5x16	AACN-2-0003	AAV-07-M4.5x13	80-T20
SCLCR 16 4D	1.000	1.000	6.000	0.750	1.250	CC.. 432 CC.. 120408	1020-M4.5x16	AACN-2-0003	AAV-07-M4.5x13	80-T20
SCLCL 10 2A	0.625	0.625	4.000	0.500	0.750	CC.. 2151 CC.. 060204	4008-M2.5x6	-	-	82-T08
SCLCL 10 3A	0.625	0.625	4.000	0.620	0.750	CC.. 3252 CC.. 09T308	4015-M3.5x14	AACN-2-0001	AAV-06-M3.5x11	80-T15
SCLCL 12 3B	0.750	0.750	4.500	0.620	1.000	CC.. 3252 CC.. 09T308	4015-M3.5x14	AACN-2-0001	AAV-06-M3.5x11	80-T15
SCLCL 16 3D	1.000	1.000	6.000	0.620	1.250	CC.. 3252 CC.. 09T308	4015-M3.5x14	AACN-2-0001	AAV-06-M3.5x11	80-T15
SCLCL 12 4B	0.750	0.750	4.500	0.750	1.000	CC.. 432 CC.. 120408	1020-M4.5x16	AACN-2-0003	AAV-07-M4.5x13	80-T20
SCLCL 16 4D	1.000	1.000	6.000	0.750	1.250	CC.. 432 CC.. 120408	1020-M4.5x16	AACN-2-0003	AAV-07-M4.5x13	80-T20



Illustrations shown may vary from actual product.



Dimensions in Metric									
Ordering Code	HF=H	B	LF	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SCLCR 0808 E06	8	8	70	10	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCLCR 1010 E06	10	10	70	12	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCLCR 1212 F06	12	12	80	16	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCLCR 1010 E09	10	10	70	12	CC.. 325.. CC.. 09T3..	4015-M3.5x9	-	-	80-T15
SCLCR 1212 F09	12	12	80	16	CC.. 325.. CC.. 09T3..	4015-M3.5x11	-	-	80-T15
SCLCR 1212 M09	12	12	150	16	CC.. 325.. CC.. 09T3..	4015-M3.5x14	-	-	80-T15
SCLCR 1616 H09	16	16	100	20	CC.. 325.. CC.. 09T3..	4015-M3.5x14	AACN-2-0001	AAV-06-M3.5x11	80-T15
SCLCR 2020 K09	20	20	125	25	CC.. 325.. CC.. 09T3..	4015-M3.5x14	AACN-2-0001	AAV-06-M3.5x11	80-T15
SCLCR 2525 M09	25	25	150	32	CC.. 325.. CC.. 09T3..	4015-M3.5x14	-	-	80-T15
SCLCR 1616 H12	16	16	100	20	CC.. 43.. CC.. 1204..	1020-M5x11	AACN-2-0003	AAV-07-M4.5x13	80-T20
SCLCR 2020 K12	20	20	125	25	CC.. 43.. CC.. 1204..	1020-M4.5x16	AACN-2-0003	AAV-07-M4.5x13	80-T20
SCLCR 2525 M12	25	25	150	32	CC.. 43.. CC.. 1204..	1020-M4.5x16	AACN-2-0003	AAV-07-M4.5x13	80-T20
SCLCL 0808 E06	8	8	70	10	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCLCL 1010 E06	10	10	70	12	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCLCL 1212 F06	12	12	80	16	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCLCL 1010 E09	10	10	70	12	CC.. 325.. CC.. 09T3..	4015-M3.5x9	-	-	80-T15
SCLCL 1212 F09	12	12	80	16	CC.. 325.. CC.. 09T3..	4015-M3.5x11	-	-	80-T15
SCLCL 1212 M09	12	12	150	16	CC.. 325.. CC.. 09T3..	4015-M3.5x14	-	-	80-T15
SCLCL 1616 H09	16	16	100	20	CC.. 325.. CC.. 09T3..	4015-M3.5x14	AACN-2-0001	AAV-06-M3.5x11	80-T15
SCLCL 2020 K09	20	20	125	25	CC.. 325.. CC.. 09T3..	4015-M3.5x14	AACN-2-0001	AAV-06-M3.5x11	80-T15
SCLCL 2525 M09	25	25	150	32	CC.. 325.. CC.. 09T3..	4015-M3.5x14	-	-	80-T15
SCLCL 1616 H12	16	16	100	20	CC.. 43.. CC.. 1204..	1020-M5x11	AACN-2-0003	AAV-07-M4.5x13	80-T20
SCLCL 2020 K12	20	20	125	25	CC.. 43.. CC.. 1204..	1020-M4.5x16	AACN-2-0003	AAV-07-M4.5x13	80-T20
SCLCL 2525 M12	25	25	150	32	CC.. 43.. CC.. 1204..	1020-M4.5x16	AACN-2-0003	AAV-07-M4.5x13	80-T20



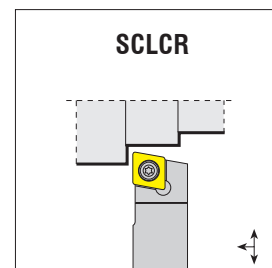
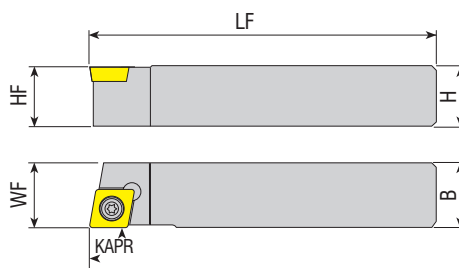
Illustrations shown may vary from actual product.

Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SCLCR 06 2D-S	0.375	0.375	6.000	0.500	0.375	CC.. 2151 CC.. 060204	4008-M2.5x6	-	-	82-T08
SCLCR 08 2D-S	0.500	0.500	6.000	0.500	0.500	CC.. 2151 CC.. 060204	4008-M2.5x6	-	-	82-T08
SCLCR 08 3D-S	0.500	0.500	6.000	0.620	0.500	CC.. 3252 CC.. 09T308	4015-M3.5x11	-	-	80-T15
SCLCR 10 3B-S	0.625	0.625	4.500	0.620	0.625	CC.. 3252 CC.. 09T308	4015-M3.5x14	AACN-2-0001	AAV-06-M3.5x11	80-T15
SCLCL 06 2D-S	0.375	0.375	6.000	0.500	0.375	CC.. 2151 CC.. 060204	4008-M2.5x6	-	-	82-T08
SCLCL 08 2D-S	0.500	0.500	6.000	0.500	0.500	CC.. 2151 CC.. 060204	4008-M2.5x6	-	-	82-T08
SCLCL 08 3D-S	0.500	0.500	6.000	0.620	0.500	CC.. 3252 CC.. 09T308	4015-M3.5x11	-	-	80-T15
SCLCL 10 3B-S	0.625	0.625	4.500	0.620	0.625	CC.. 3252 CC.. 09T308	4015-M3.5x14	AACN-2-0001	AAV-06-M3.5x11	80-T15

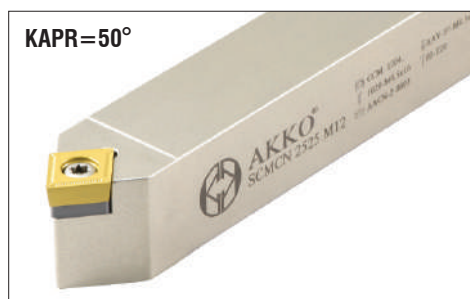


Illustrations shown may vary from actual product.

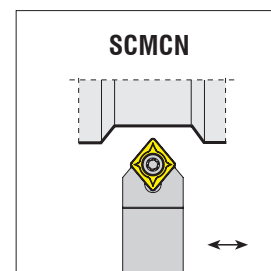
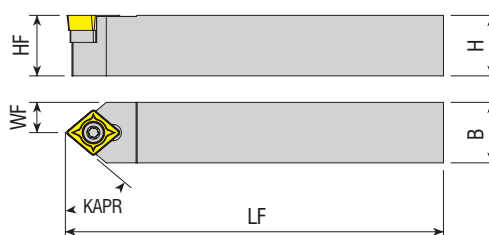


Dimensions in Metric

Ordering Code	HF=H	B	LF	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SCLCR 0808 X06-S	08	08	115	08	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCLCR 1010 X06-S	10	10	115	10	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCLCR 1212 G06-S	12	12	90	12	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCLCR 1212 X06-S	12	12	130	12	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCLCR 1212 K06-S	12	12	125	12	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCLCR 1616 F06-S	16	16	75	16	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCLCR 1616 X06-S	16	16	130	16	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCLCR 1212 G09-S	12	12	90	12	CC.. 325.. CC.. 09T3..	4015-M3.5x11	-	-	80-T15
SCLCR 1212 X09-S	12	12	130	12	CC.. 325.. CC.. 09T3..	4015-M3.5x11	-	-	80-T15
SCLCR 1616 F09-S	16	16	75	16	CC.. 325.. CC.. 09T3..	4015-M3.5x11	-	-	80-T15
SCLCR 1616 G09-S	16	16	90	16	CC.. 325.. CC.. 09T3..	4015-M3.5x11	-	-	80-T15
SCLCR 1616 X09-S	16	16	115	16	CC.. 325.. CC.. 09T3..	4015-M3.5x11	-	-	80-T15
SCLCR 2020 X09-S	20	20	120	20	CC.. 325.. CC.. 09T3..	4015-M3.5x11	-	-	80-T15
SCLCL 0808 X06-S	08	08	115	08	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCLCL 1010 X06-S	10	10	115	10	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCLCL 1212 G06-S	12	12	90	12	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCLCL 1212 X06-S	12	12	130	12	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCLCL 1212 K06-S	12	12	125	12	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCLCL 1616 F06-S	16	16	75	16	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCLCL 1616 X06-S	16	16	130	16	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
SCLCL 1212 G09-S	12	12	90	12	CC.. 325.. CC.. 09T3..	4015-M3.5x11	-	-	80-T15
SCLCL 1212 X09-S	12	12	130	12	CC.. 325.. CC.. 09T3..	4015-M3.5x11	-	-	80-T15
SCLCL 1616 F09-S	16	16	75	16	CC.. 325.. CC.. 09T3..	4015-M3.5x11	-	-	80-T15
SCLCL 1616 G09-S	16	16	90	16	CC.. 325.. CC.. 09T3..	4015-M3.5x11	-	-	80-T15
SCLCL 1616 X09-S	16	16	115	16	CC.. 325.. CC.. 09T3..	4015-M3.5x11	-	-	80-T15
SCLCL 2020 X09-S	20	20	120	20	CC.. 325.. CC.. 09T3..	4015-M3.5x11	-	-	80-T15



Illustrations shown may vary from actual product.

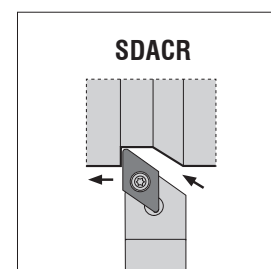
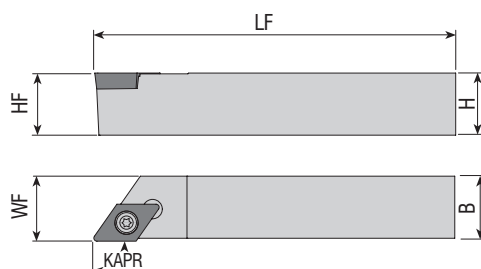


Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SCMCN 10 3A	0.625	0.625	4.000	0.620	0.313	CC.. 3252 CC.. 09T308	4015-M3.5x14	AACN-2-0001	AAV-06-M3.5x11	80-T15
SCMCN 12 3B	0.750	0.750	4.500	0.620	0.375	CC.. 3252 CC.. 09T308	4015-M3.5x14	AACN-2-0001	AAV-06-M3.5x11	80-T15
SCMCN 16 3D	1.000	1.000	6.000	0.620	0.500	CC.. 3252 CC.. 09T308	4015-M3.5x14	AACN-2-0001	AAV-06-M3.5x11	80-T15



Illustrations shown may vary from actual product.

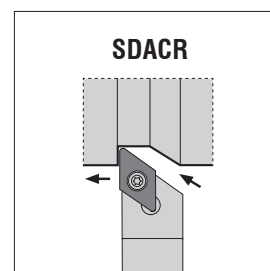
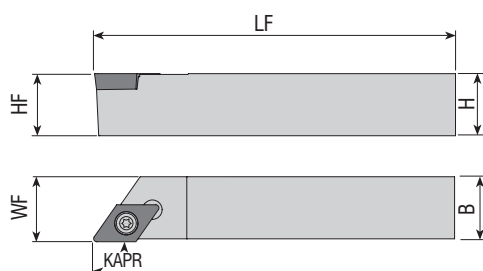


Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SDACR 06 2D-S	0.375	0.375	6.000	0.620	0.375	DC.. 2151 DC.. 070204	4008-M2.5x6	-	-	82-T08
SDACR 08 2D-S	0.500	0.500	6.000	0.620	0.500	DC.. 2151 DC.. 070204	4008-M2.5x6	-	-	82-T08
SDACR 10 3B-S	0.625	0.625	4.500	0.880	0.625	DC.. 3252 DC.. 11T308	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
SDACR 08 3D-S	0.500	0.500	6.000	0.880	0.500	DC.. 3252 DC.. 11T308	4015-M3.5x11			80-T15
SDACL 06 2D-S	0.375	0.375	6.000	0.620	0.375	DC.. 2151 DC.. 070204	4008-M2.5x6	-	-	82-T08
SDACL 08 2D-S	0.500	0.500	6.000	0.620	0.500	DC.. 2151 DC.. 070204	4008-M2.5x6	-	-	82-T08
SDACL 10 3B-S	0.625	0.625	4.500	0.880	0.625	DC.. 3252 DC.. 11T308	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
SDACL 08 3D-S	0.500	0.500	6.000	0.880	0.500	DC.. 3252 DC.. 11T308	4015-M3.5x11			80-T15



Illustrations shown may vary from actual product.

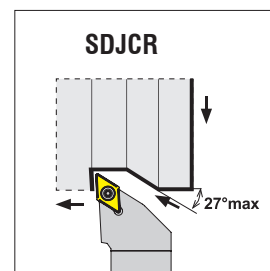
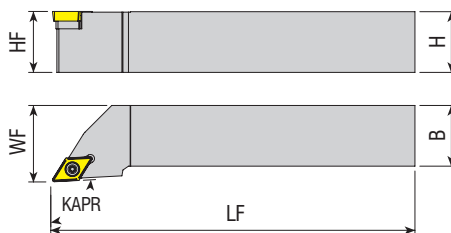


Dimensions in Metric									
Ordering Code	HF=H	B	LF	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SDACR 0808 X07-S	08	08	115	08	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
SDACR1010 K07-S	10	10	125	10	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
SDACR 1212 G07-S	12	12	90	12	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
SDACR 1212 K07-S	12	12	125	12	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
SDACR 1616 F07-S	16	16	75	16	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
SDACR 1616 K07-S	16	16	125	16	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
SDACR 1212 G11-S	12	12	90	12	DC.. 325.. DC.. 11T3..	4015-M3.5x11	-	-	80-T15
SDACR 1212 K11-S	12	12	125	12	DC.. 325.. DC.. 11T3..	4015-M3.5x11	-	-	80-T15
SDACR 1616 F11-S	16	16	75	16	DC.. 325.. DC.. 11T3..	4015-M3.5x11	-	-	80-T15
SDACR 1616 K11-S	16	16	125	16	DC.. 325.. DC.. 11T3..	4015-M3.5x11	-	-	80-T15
SDACR 2020 K11-S	20	20	125	20	DC.. 325.. DC.. 11T3..	4015-M3.5x11	-	-	80-T15
SDACL 0808 X07-S	08	08	115	08	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
SDACL 1010 K07-S	10	10	125	10	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
SDACL 1212 G07-S	12	12	90	12	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
SDACL 1212 K07-S	12	12	125	12	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
SDACL 1616 F07-S	16	16	75	16	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
SDACL 1616 K07-S	16	16	125	16	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
SDACL 1212 G11-S	12	12	90	12	DC.. 325.. DC.. 11T3..	4015-M3.5x11	-	-	80-T15
SDACL 1212 K11-S	12	12	125	12	DC.. 325.. DC.. 11T3..	4015-M3.5x11	-	-	80-T15
SDACL 1616 F11-S	16	16	75	16	DC.. 325.. DC.. 11T3..	4015-M3.5x11	-	-	80-T15
SDACL 1616 K11-S	16	16	125	16	DC.. 325.. DC.. 11T3..	4015-M3.5x11	-	-	80-T15
SDACL 2020 K11-S	20	20	125	20	DC.. 325.. DC.. 11T3..	4015-M3.5x11	-	-	80-T15

KAPR=93°



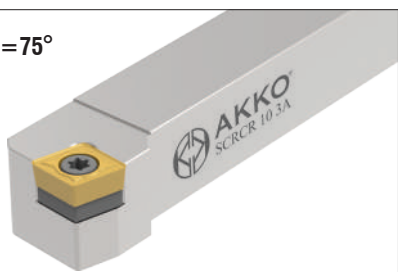
Illustrations shown may vary from actual product.



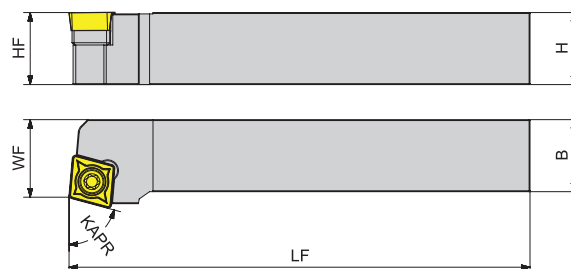
Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SDJCR 10 2A	0.625	0.625	4.000	0.620	0.750	DC.. 2151 DC.. 070204	4008-M2.5x6	-	-	82-T08
SDJCR 10 3A	0.625	0.625	4.000	0.880	0.750	DC.. 3252 DC.. 11T308	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
SDJCR 12 3B	0.750	0.750	4.500	0.880	1.000	DC.. 3252 DC.. 11T308	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
SDJCR 16 3D	1.000	1.000	6.000	1.000	1.250	DC.. 3252 DC.. 11T308	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
SDJCL 10 2A	0.625	0.625	4.000	0.620	0.750	DC.. 2151 DC.. 070204	4008-M2.5x6	-	-	82-T08
SDJCL 10 3A	0.625	0.625	4.000	0.880	0.750	DC.. 3252 DC.. 11T308	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
SDJCL 12 3B	0.750	0.750	4.500	0.880	1.000	DC.. 3252 DC.. 11T308	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
SDJCL 16 3D	1.000	1.000	6.000	1.000	1.250	DC.. 3252 DC.. 11T308	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15

KAPR=75°



Illustrations shown may vary from actual product.

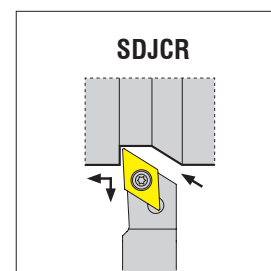
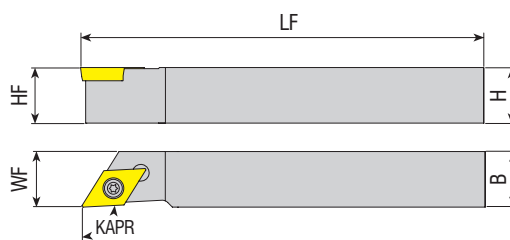


Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SCRCR 10 3A	0.625	0.625	4.000	0.620	0.673	CC.. 3252 CC.. 09T308	4015-M3.5x14	AACN-2-0001	AAV-06-M3.5x11	80-T15



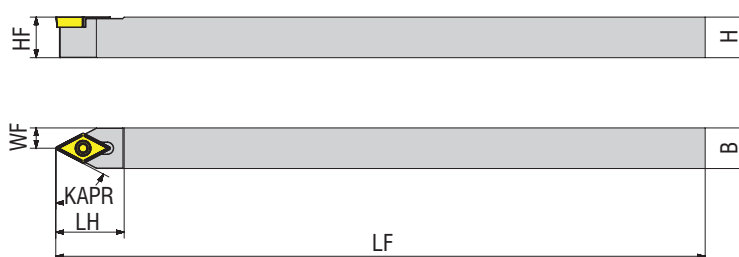
Illustrations shown may vary from actual product.



Dimensions in Inch										
Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SDJCR 06 2D-S	0.375	0.375	6.000	0.620	0.375	DC.. 2151 DC.. 070204	4008-M2.5x6	-	-	82-T08
SDJCR 08 2D-S	0.500	0.500	6.000	0.620	0.500	DC.. 2151 DC.. 070204	4008-M2.5x6	-	-	82-T08
SDJCR 08 3D-S	0.500	0.500	6.000	0.880	0.500	DC.. 3252 DC.. 11T308	4015-M3.5x11	-	-	80-T15
SDJCR 10 3B-S	0.625	0.625	4.500	0.880	0.625	DC.. 3252 DC.. 11T308	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
SDJCL 06 2D-S	0.375	0.375	6.000	0.620	0.375	DC.. 2151 DC.. 070204	4008-M2.5x6	-	-	82-T08
SDJCL 08 2D-S	0.500	0.500	6.000	0.620	0.500	DC.. 2151 DC.. 070204	4008-M2.5x6	-	-	82-T08
SDJCL 08 3D-S	0.500	0.500	6.000	0.880	0.500	DC.. 3252 DC.. 11T308	4015-M3.5x11	-	-	80-T15
SDJCL 10 3B-S	0.625	0.625	4.500	0.880	0.625	DC.. 3252 DC.. 11T308	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15



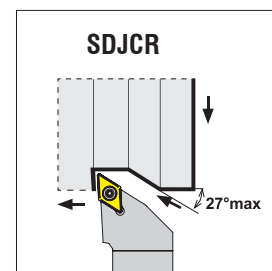
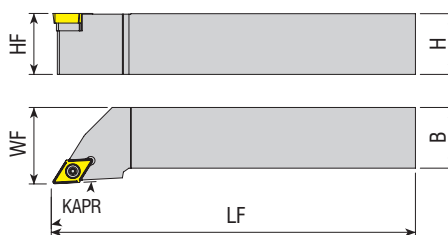
Illustrations shown may vary from actual product.



Dimensions in Inch										
Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SDPCN 06 2D	0.375	0.375	6.000	0.620	0.187	DC.. 2151 DC.. 070204	4008-M2.5x6	-	-	82-T08
SDPCN 08 2D	0.500	0.500	6.000	0.620	0.250	DC.. 2151 DC.. 070204	4008-M2.5x6	-	-	82-T08
SDPCN 08 3D	0.500	0.500	6.000	0.880	0.250	DC.. 3252 DC.. 11T308	4015-M3.5x11	-	-	80-T15
SDPCN 10 3D	0.625	0.625	6.000	0.880	0.313	DC.. 3252 DC.. 11T308	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15

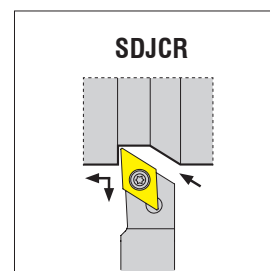
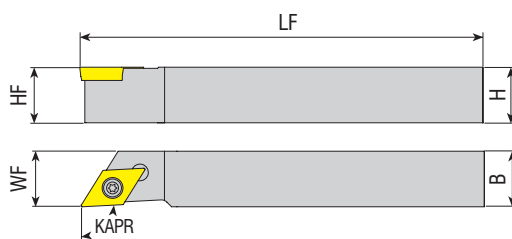


Illustrations shown may vary from actual product.



Dimensions in Metric					    				
Ordering Code	HF=H	B	LF	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SDJCR 0808 E07	8	8	70	10	DC.. 215.. DC.. 0702...	4008-M2.5x6	-	-	82-T08
SDJCR 1010 E07	10	10	70	12	DC.. 215.. DC.. 0702...	4008-M2.5x6	-	-	82-T08
SDJCR 1212 F07	12	12	80	16	DC.. 215.. DC.. 0702...	4008-M2.5x6	-	-	82-T08
SDJCR 1616 H07	16	16	100	20	DC.. 215.. DC.. 0702...	4008-M2.5x6	-	-	82-T08
SDJCR 1212 F11	12	12	80	16	DC.. 325.. DC.. 11T3..	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
SDJCR 1616 H11	16	16	100	20	DC.. 325.. DC.. 11T3..	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
SDJCR 2020 K11	20	20	125	25	DC.. 325.. DC.. 11T3..	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
SDJCR 2525 M11	25	25	150	32	DC.. 325.. DC.. 11T3..	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
SDJCR 3232 P11	32	32	170	40	DC.. 325.. DC.. 11T3..	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
SDJCL 0808 E07	8	8	70	10	DC.. 215.. DC.. 0702...	4008-M2.5x6	-	-	82-T08
SDJCL 1010 E07	10	10	70	12	DC.. 215.. DC.. 0702...	4008-M2.5x6	-	-	82-T08
SDJCL 1212 F07	12	12	80	16	DC.. 215.. DC.. 0702...	4008-M2.5x6	-	-	82-T08
SDJCL 1616 H07	16	16	100	20	DC.. 215.. DC.. 0702...	4008-M2.5x6	-	-	82-T08
SDJCL 1212 F11	12	12	80	16	DC.. 325.. DC.. 11T3..	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
SDJCL 1616 H11	16	16	100	20	DC.. 325.. DC.. 11T3..	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
SDJCL 2020 K11	20	20	125	25	DC.. 325.. DC.. 11T3..	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
SDJCL 2525 M11	25	25	150	32	DC.. 325.. DC.. 11T3..	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
SDJCL 3232 P11	32	32	170	40	DC.. 325.. DC.. 11T3..	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15

KAPR=93°



Illustrations shown may vary from actual product.

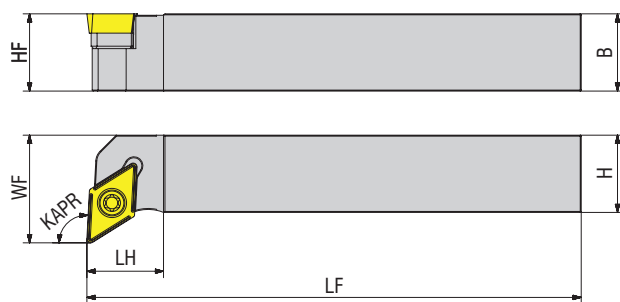
Dimensions in Metric



Ordering Code	HF=H	B	LF	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SDJCR 0808 X07-S	08	08	115	08	DC.. 215.. DC.. 0702...	4008-M2.5x6	-	-	82-T08
SDJCR 1010 X07-S	10	10	115	10	DC.. 215.. DC.. 0702...	4008-M2.5x6	-	-	82-T08
SDJCR 1212 G07-S	12	12	90	12	DC.. 215.. DC.. 0702...	4008-M2.5x6	-	-	82-T08
SDJCR 1212 X07-S	12	12	130	12	DC.. 215.. DC.. 0702...	4008-M2.5x6	-	-	82-T08
SDJCR 1616 F07-S	16	16	75	16	DC.. 215.. DC.. 0702...	4008-M2.5x6	-	-	82-T08
SDJCR 1616 X07-S	16	16	130	16	DC.. 215.. DC.. 0702...	4008-M2.5x6	-	-	82-T08
SDJCR 2020 X07-S	20	20	120	20	DC.. 215.. DC.. 0702...	4008-M2.5x6	-	-	82-T08
SDJCR 1212 G11-S	12	12	90	12	DC.. 325 DC.. 11T3..	4015-M3.5x11	-	-	80-T15
SDJCR 1212 X11-S	12	12	130	12	DC.. 325 DC.. 11T3..	4015-M3.5x11	-	-	80-T15
SDJCR 1212 K11-S	12	12	125	12	DC.. 325 DC.. 11T3..	4015-M3.5x11	-	-	80-T15
SDJCR 1616 F11-S	16	16	75	16	DC.. 325 DC.. 11T3..	4015-M3.5x11	-	-	80-T15
SDJCR 1616 X11-S	16	16	130	16	DC.. 325 DC.. 11T3..	4015-M3.5x11	-	-	80-T15
SDJCR 1616 K11-S	16	16	125	16	DC.. 325 DC.. 11T3..	4015-M3.5x11	-	-	80-T15
SDJCR 2020 X11-S	20	20	120	20	DC.. 325 DC.. 11T3..	4015-M3.5x11	-	-	80-T15
SDJCL 0808 X07-S	08	08	115	08	DC.. 215.. DC.. 0702...	4008-M2.5x6	-	-	82-T08
SDJCL 1010 X07-S	10	10	115	10	DC.. 215.. DC.. 0702...	4008-M2.5x6	-	-	82-T08
SDJCL 1212 G07-S	12	12	90	12	DC.. 215.. DC.. 0702...	4008-M2.5x6	-	-	82-T08
SDJCL 1212 X07-S	12	12	130	12	DC.. 215.. DC.. 0702...	4008-M2.5x6	-	-	82-T08
SDJCL 1616 F07-S	16	16	75	16	DC.. 215.. DC.. 0702...	4008-M2.5x6	-	-	82-T08
SDJCL 1616 X07-S	16	16	130	16	DC.. 215.. DC.. 0702...	4008-M2.5x6	-	-	82-T08
SDJCL 2020 X07-S	20	20	120	20	DC.. 215.. DC.. 0702...	4008-M2.5x6	-	-	82-T08
SDJCL 1212 G11-S	12	12	90	12	DC.. 325 DC.. 11T3..	4015-M3.5x11	-	-	80-T15
SDJCL 1212 X11-S	12	12	130	12	DC.. 325 DC.. 11T3..	4015-M3.5x11	-	-	80-T15
SDJCL 1212 K11-S	12	12	125	12	DC.. 325 DC.. 11T3..	4015-M3.5x11	-	-	80-T15
SDJCL 1616 F11-S	16	16	75	16	DC.. 325 DC.. 11T3..	4015-M3.5x11	-	-	80-T15
SDJCL 1616 X11-S	16	16	130	16	DC.. 325 DC.. 11T3..	4015-M3.5x11	-	-	80-T15
SDJCL 1616 K11-S	16	16	125	16	DC.. 325 DC.. 11T3..	4015-M3.5x11	-	-	80-T15
SDJCL 2020 X11-S	20	20	120	20	DC.. 325 DC.. 11T3..	4015-M3.5x11	-	-	80-T15



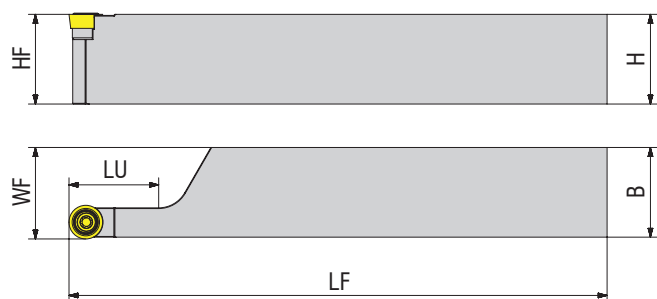
Illustrations shown may vary from actual product.



Dimensions in Inch										
Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SDUCR 10 3A	0.625	0.625	4.000	0.620	0.871	DC.. 3252 DC.. 11T308	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
SDUCL 10 3A	0.625	0.625	4.000	0.620	0.871	DC.. 3252 DC.. 11T308	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15



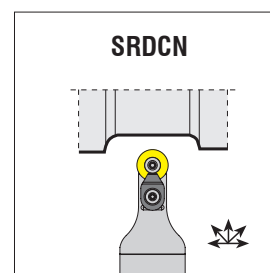
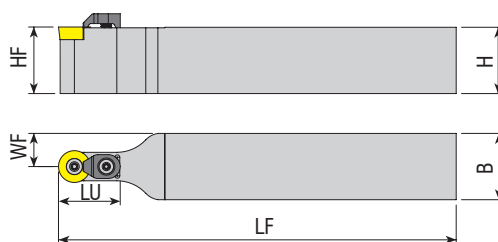
Illustrations shown may vary from actual product.



Dimensions in Inch									
Ordering Code	HF=H	B	LF	WF	LU	Insert Inch/Metric	Screw	Shim	Torx Key
SRACR 16 3D	1.000	1.000	6.000	1.020	1.000	RC.. 325.. RC.. 09T3..	4015-M3.5x12	SR3	80-T15
SRACR 20 3D	1.250	1.250	6.000	1.270	1.000	RC.. 325.. RC.. 09T3..	4015-M3.5x12	SR3	80-T15
SRACR 16 4D	1.000	1.000	6.000	1.020	1.000	RC.. 43.. RC.. 1204..	4015-M4x05x14	SR4	80-T15
SRACR 20 4D	1.250	1.250	6.000	1.270	1.000	RC.. 43.. RC.. 1204..	4015-M4x05x14	SR4	80-T15
SRACR 24 4D	1.500	1.500	6.000	1.520	1.000	RC.. 43.. RC.. 1204..	4015-M4x05x14	SR4	80-T15
SRACR 16 2D	1.000	1.000	6.000	1.020	1.000	RC.. 215.. RC.. 0602.	4108-M2.5x6.5	-	82-T08
SRACR 20 2D	1.250	1.250	6.000	1.270	1.000	RC.. 215.. RC.. 0602.	4108-M2.5x6.5	-	82-T08
SRACL 20 3D	1.250	1.250	6.000	1.270	1.000	RC.. 325.. RC.. 09T3..	4015-M3.5x12	SR3	80-T15
SRACL 16 4D	1.000	1.000	6.000	1.020	1.000	RC.. 43.. RC.. 1204..	4015-M4x05x14	SR4	80-T15
SRACL 20 4D	1.250	1.250	6.000	1.270	1.000	RC.. 43.. RC.. 1204..	4015-M4x05x14	SR4	80-T15
SRACL 24 4D	1.500	1.500	6.000	1.520	1.000	RC.. 43.. RC.. 1204..	4015-M4x05x14	SR4	80-T15
SRACL 16 2D	1.000	1.000	6.000	1.020	1.000	RC.. 215.. RC.. 0602.	4108-M2.5x6.5	-	82-T08
SRACL 20 2D	1.250	1.250	6.000	1.270	1.000	RC.. 215.. RC.. 0602.	4108-M2.5x6.5	-	82-T08



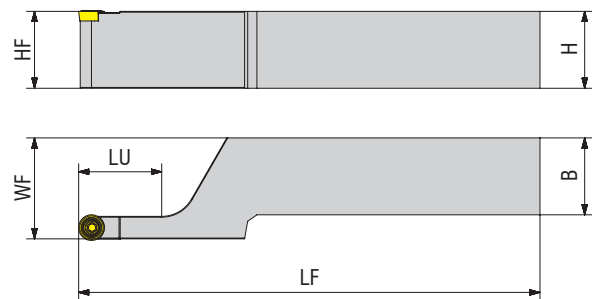
Illustrations shown may vary from actual product.



Dimensions in Metric										
Ordering Code	HF=H	B	LF	LU	WF	Insert Inch/Metric	Screw	Wedge Clamp	Clamp Screw	Torx Key
SRDCN 1616 H06	16	16	100	15	8	RC.. 215.. RC.. 0602..	3008-M2.5x6	-	-	82-T08
SRDCN 2020 K06	20	20	125	17	10	RC.. 215.. RC.. 0602..	3008-M2.5x6	-	-	82-T08
SRDCN 2525 M06	25	25	150	17	12.5	RC.. 215.. RC.. 0602..	3008-M2.5x6	-	-	82-T08
SRDCN 1616 H08C	16	16	100	15	8	- RC.. 0803..	3008-M3x8	ACK-15	4015-M3.5x11	82-T08
SRDCN 2020 K08C	20	20	125	20	10	- RC.. 0803..	3008-M3x8	ACK-15	4015-M3.5x11	82-T08
SRDCN 2525 M08C	25	25	150	20	12.5	- RC.. 0803..	3008-M3x8	ACK-15	4015-M3.5x11	82-T08
SRDCN 1616 H10C	16	16	100	20	8	- RC.. 10T3..	4015-M3.5x11	ACK-15	4015-M3.5x11	80-T15
SRDCN 2020 K10C	20	20	125	20	10	- RC.. 10T3..	4015-M3.5x11	ACK-15	4015-M3.5x11	80-T15
SRDCN 2525 M10C	25	25	150	20	12.5	- RC.. 10T3..	4015-M3.5x11	ACK-15	4015-M3.5x11	80-T15
SRDCN 3232 P10C	32	32	170	20	16	- RC.. 10T3..	4015-M3.5x11	ACK-15	4015-M3.5x11	80-T15
SRDCN 2020 K12C	20	20	125	22	10	RC.. 43.. RC.. 1204..	4015-M3.5x11	ACK-05	4015-M4x11	80-T15
SRDCN 2525 M12C	25	25	150	22	12.5	RC.. 43.. RC.. 1204..	4015-M3.5x11	ACK-05	4015-M4x11	80-T15
SRDCN 3232 P12C	32	32	170	22	16	RC.. 43.. RC.. 1204..	4015-M3.5x11	ACK-05	4015-M4x11	80-T15
SRDCN 2525 M16C	25	25	150	32	12.5	- RC.. 1605..	1020-M5x11	ACK-05	4015-M4x11	80-T20
SRDCN 3232 P16C	32	32	170	35	16	- RC.. 1605..	1020-M5x11	ACK-05	4015-M4x11	80-T20
SRDCN 2525 M20C	25	25	150	32	12.5	- RC.. 2006..	1420-M6x16	ACK-09	AAV-05-M6x15	80-T20
SRDCN 3232 P20C	32	32	170	40	16	- RC.. 2006..	1420-M6x16	ACK-09	AAV-05-M6x15	80-T20
SRDCN 3232 P25C	32	32	170	40	16	RC.. 85.. RC.. 2507..	1520-M6x16	ACK-09	AAV-05-M6x15	80-T20
SRDCN 3232 P32C	32	32	170	45	16	- RC.. 3209..	1904-M8x1x20	ACK-09	AAV-05-M6x15	AAL-05-4



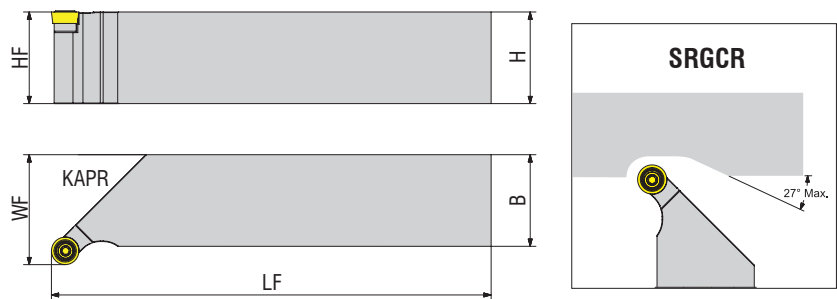
Illustrations shown may vary from actual product.



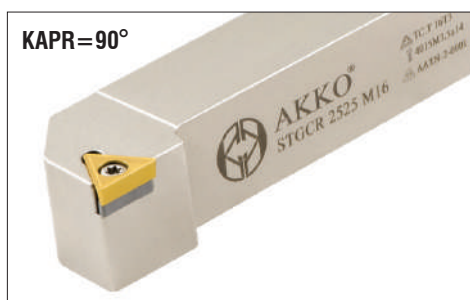
Dimensions in Inch										
Ordering Code	HF=H	B	LF	LH	WF	LU	Insert Inch/Metric	Screw	Shim	Torx Key
SRCCR 12 2B	0.750	0.750	4.500	1.660	1.000	0.810	RC.. 215.. RC.. 0602.	4108-M2.5x6.5	-	82-T08
SRCCR 16 2D	1.000	1.000	6.000	1.660	1.250	0.810	RC.. 215.. RC.. 0602.	4108-M2.5x6.5	-	82-T08
SRCCR 12 3B	0.750	0.750	4.500	1.880	1.000	1.200	RC.. 325.. RC.. 09T3..	4015-M3.5x12	SR3	80-T15
SRCCR 16 3D	1.000	1.000	6.000	1.880	1.250	1.200	RC.. 325.. RC.. 09T3..	4015-M3.5x12	SR3	80-T15
SRCCR 20 3D	1.250	1.250	6.000	1.880	1.500	1.200	RC.. 325.. RC.. 09T3..	4015-M3.5x12	SR3	80-T15
SRCL 16 2D	1.000	1.000	6.000	1.660	1.250	0.810	RC.. 215.. RC.. 0602.	4108-M2.5x6.5	-	82-T08
SRCL 16 3D	1.000	1.000	6.000	1.880	1.250	1.200	RC.. 325.. RC.. 09T3..	4015-M3.5x12	SR3	80-T15
SRCL 20 3D	1.250	1.250	6.000	1.880	1.500	1.200	RC.. 325.. RC.. 09T3..	4015-M3.5x12	SR3	80-T15



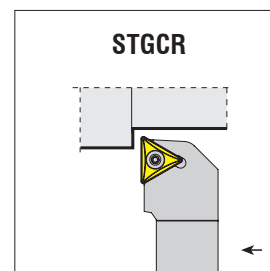
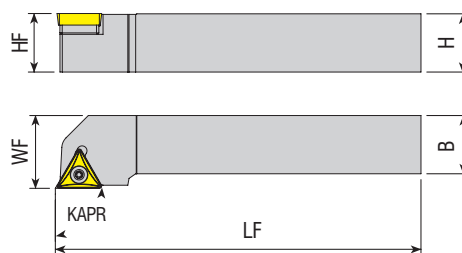
Illustrations shown may vary from actual product.



Dimensions in Inch									
Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Screw	Shim	Torx Key
SRGCR 12 2B	0.750	0.750	4.500	0.400	1.000	RC.. 215.. RC.. 0602.	4108-M2.5x6.5	-	82-T08
SRGCR 16 2D	1.000	1.000	6.000	0.400	1.250	RC.. 215.. RC.. 0602.	4108-M2.5x6.5	-	82-T08
SRGCR 16 3D	1.000	1.000	6.000	0.410	1.250	RC.. 325.. RC.. 09T3..	4015-M3.5x12	SR3	80-T15
SRGCR 20 3D	1.250	1.250	6.000	0.430	1.500	RC.. 325.. RC.. 09T3..	4015-M3.5x12	SR3	80-T15
SRGCL 16 2D	1.000	1.000	6.000	0.400	1.250	RC.. 215.. RC.. 0602.	4015-M3.5x12	-	82-T08
SRGCL 20 3D	1.250	1.250	6.000	0.430	1.500	RC.. 325.. RC.. 09T3..	4108-M2.5x6.5	SR3	80-T15



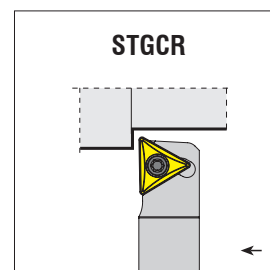
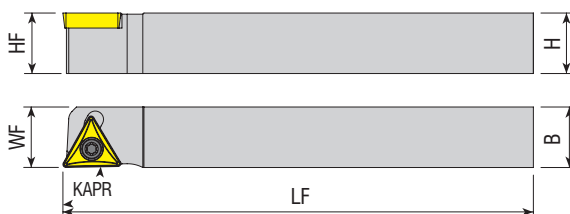
Illustrations shown may vary from actual product.



Dimensions in Inch										
Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
STGCR 10 3A	0.625	0.625	4.000	1.000	0.750	TC.. 3252 TC.. 16T308	4015-M3.5x14	AATN-2-0001	AAV-06-M3.5x11	82-T15
STGCR 12 3B	0.750	0.750	4.500	1.000	1.000	TC.. 3252 TC.. 16T308	4015-M3.5x14	AATN-2-0001	AAV-06-M3.5x11	82-T15
STGCR 16 3D	1.000	1.000	6.000	1.000	1.250	TC.. 3252 TC.. 16T308	4015-M3.5x14	AATN-2-0001	AAV-06-M3.5x11	82-T15
STGCL 10 3A	0.625	0.625	4.000	1.000	0.750	TC.. 3252 TC.. 16T308	4015-M3.5x14	AATN-2-0001	AAV-06-M3.5x11	82-T15
STGCL 12 3B	0.750	0.750	4.500	1.000	1.000	TC.. 3252 TC.. 16T308	4015-M3.5x14	AATN-2-0001	AAV-06-M3.5x11	82-T15
STGCL 16 3D	1.000	1.000	6.000	1.000	1.250	TC.. 3252 TC.. 16T308	4015-M3.5x14	AATN-2-0001	AAV-06-M3.5x11	82-T15



Illustrations shown may vary from actual product.

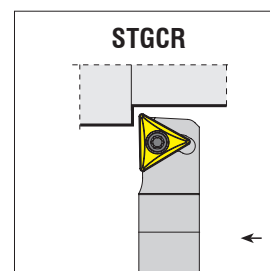
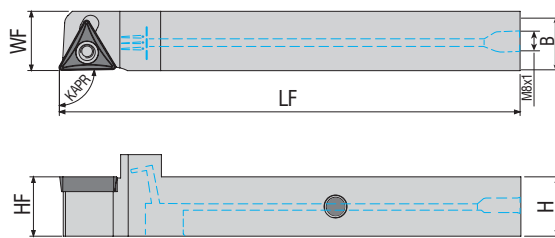


Illustrations shown may vary from actual product.

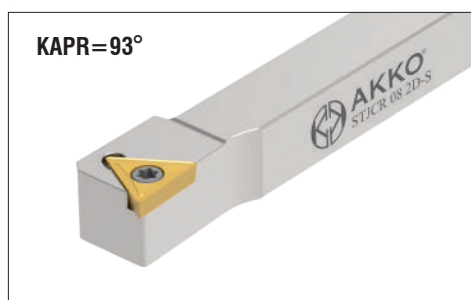
Dimensions in Metric									
Ordering Code	HF=H	B	LF	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
STGCR 1216 K11-S	12	16	125	16	TC.. 215.. TC.. 1102..	4008-M2.5x6	-	-	82-T08
STGCR 1616 K11-S	16	16	125	16	TC.. 215.. TC.. 1102..	4008-M2.5x6	-	-	82-T08
STGCR 1216 K16-S	12	16	125	16	TC.. 325.. TC.. 16T3..	4015-M3.5x11	-	-	80-T15
STGCR 1616 K16-S	16	16	125	16	TC.. 325.. TC.. 16T3..	4015-M3.5x11	-	-	80-T15
STGCL 1216 K11-S	12	16	125	16	TC.. 215.. TC.. 1102..	4008-M2.5x6	-	-	82-T08
STGCL 1616 K11-S	16	16	125	16	TC.. 215.. TC.. 1102..	4008-M2.5x6	-	-	82-T08
STGCL 1216 K16-S	12	16	125	16	TC.. 325.. TC.. 16T3..	4015-M3.5x11	-	-	80-T15
STGCL 1616 K16-S	16	16	125	16	TC.. 325.. TC.. 16T3..	4015-M3.5x11	-	-	80-T15



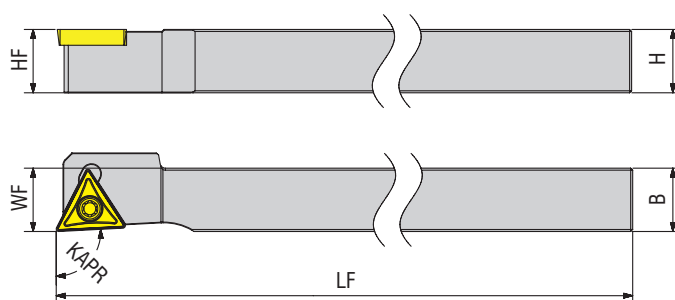
Illustrations shown may vary from actual product.



Dimensions in Metric									
Ordering Code	HF=H	B	LF	WF	Insert Inch/Metric	Screw	Thread Pin	Allen Key	Torx Key
STGCR 1216 K16-SHC	12	16	125	16	TC.. 325.. TC.. 16T3..	4015-M3.5x11	2703-M6X4	AAL-03-3	80-T15
STGCR1616 K16-SHC	16	16	125	16	TC.. 325.. TC.. 16T3..	4015-M3.5x11	2704-M8X1X5	AAL-05-4	80-T15
STGCL 1216 K16-SHC	12	16	125	16	TC.. 325.. TC.. 16T3..	4015-M3.5x11	2703-M6X4	AAL-03-3	80-T15
STGCL 1616 K16-SHC	16	16	125	16	TC.. 325.. TC.. 16T3..	4015-M3.5x11	2704-M8X1X5	AAL-05-4	80-T15



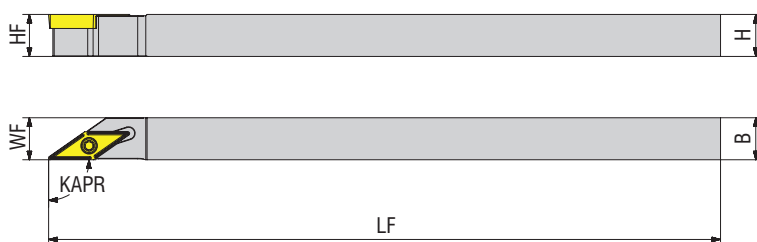
Illustrations shown may vary from actual product.



Dimensions in Inch										
Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
STJCR 06 2D-S	0.375	0.375	6.000	0.620	0.375	TC.. 2151 TC.. 110204	4008-M2.5x6	-	-	82-T08
STJCR 08 2D-S	0.500	0.500	6.000	0.620	0.500	TC.. 2151 TC.. 110204	4008-M2.5x6	-	-	82-T08
STJCR 10 2B-S	0.625	0.625	4.500	0.620	0.625	TC.. 2151 TC.. 110204	4008-M2.5x6	-	-	82-T08

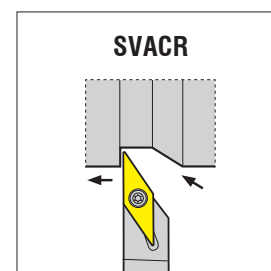
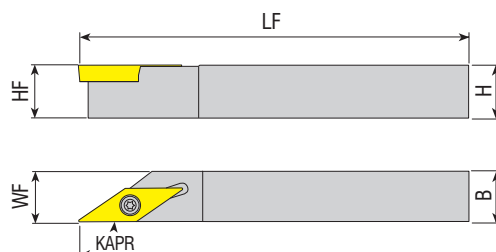


Illustrations shown may vary from actual product.



Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SVABR 06 2D-S	0.375	0.375	6.000	0.880	0.375	VB.. 221 VB.. 110304	4008-M2.5x6	-	-	82-T08
SVABR 08 2D-S	0.500	0.500	6.000	0.880	0.500	VB.. 221 VB.. 110304	4008-M2.5x6	-	-	82-T08
SVABR 10 3B-S	0.625	0.625	4.500	1.380	0.625	VB.. 332 VB.. 160408	4015-M3.5x11	-	-	82-T15
SVABL 06 2D-S	0.375	0.375	6.000	0.880	0.375	VB.. 221 VB.. 110304	4008-M2.5x6	-	-	82-T08
SVABL 08 2D-S	0.500	0.500	6.000	0.880	0.500	VB.. 221 VB.. 110304	4008-M2.5x6	-	-	82-T08
SVABL 10 3B-S	0.625	0.625	4.500	1.380	0.625	VB.. 332 VB.. 160408	4015-M3.5x11	-	-	82-T15



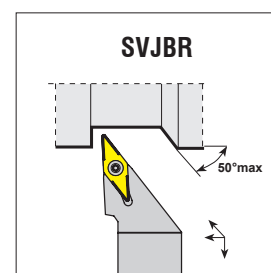
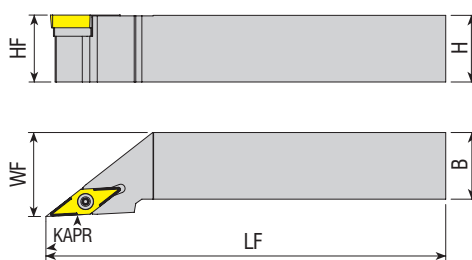
Illustrations shown may vary from actual product.

Dimensions in Metric

Ordering Code	HF=H	B	LF	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SVACR 0808 X11-S	08	08	115	08	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T08
SVACR1010 K11-S	10	10	125	10	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T08
SVACR 1212 G11-S	12	12	90	12	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T15
SVACR 1212 K11-S	12	12	125	12	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T08
SVACR 1616 F11-S	16	16	75	16	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T08
SVACR 1616 K11-S	16	16	125	16	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T15
SVACR 2020 K11-S	20	20	125	20	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T15
SVACR 1212 K16-S	12	12	125	12	VC.. 33.. VC.. 1604...	4015-M3.5x11	-	-	80-T15
SVACR 1616 K16-S	16	16	125	16	VC.. 33.. VC.. 1604...	4015-M3.5x11	-	-	80-T15
SVACL 0808 X11-S	08	08	115	08	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T08
SVACL 1010 K11-S	10	10	125	10	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T08
SVACL 1212 G11-S	12	12	90	12	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T15
SVACL 1212 K11-S	12	12	125	12	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T08
SVACL 1616 F11-S	16	16	75	16	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T08
SVACL 1616 K11-S	16	16	125	16	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T15
SVACL 2020 K11-S	20	20	125	20	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T15
SVACL 1212 K16-S	12	12	125	12	VC.. 33.. VC.. 1604...	4015-M3.5x11	-	-	80-T15
SVACL 1616 K16-S	16	16	125	16	VC.. 33.. VC.. 1604...	4015-M3.5x11	-	-	80-T15



Illustrations shown may vary from actual product.

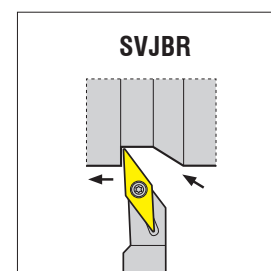
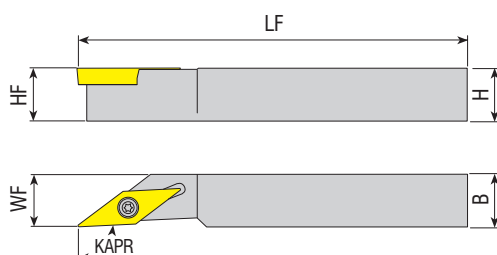


Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SVJBR 10 2A	0.625	0.625	4.000	0.880	0.750	VB.. 221 VB.. 110304	4008-M2.5x6	-	-	82-T08
SVJBR 12 3B	0.750	0.750	4.500	1.380	1.000	VB.. 332 VB.. 160408	4015-M3.5x14	AAVN-2-0002	AAV-06-M3.5x11	82-T15
SVJBR 16 3D	1.000	1.000	6.000	1.380	1.250	VB.. 332 VB.. 160408	4015-M3.5x14	AAVN-2-0002	AAV-06-M3.5x11	82-T15
SVJBL 10 2A	0.625	0.625	4.000	0.880	0.750	VB.. 221 VB.. 110304	4008-M2.5x6	-	-	82-T08
SVJBL 12 3B	0.750	0.750	4.500	1.380	1.000	VB.. 332 VB.. 160408	4015-M3.5x14	AAVN-2-0002	AAV-06-M3.5x11	82-T15
SVJBL 16 3D	1.000	1.000	6.000	1.380	1.250	VB.. 332 VB.. 160408	4015-M3.5x14	AAVN-2-0002	AAV-06-M3.5x11	82-T15



Illustrations shown may vary from actual product.



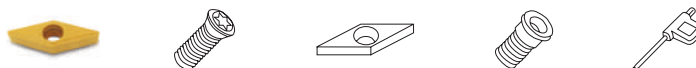
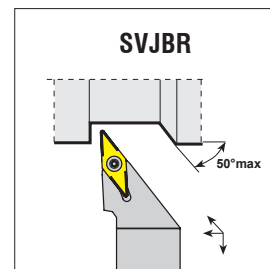
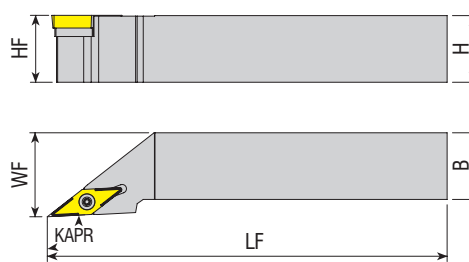
Dimensions in Inch

Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SVJBR 06 2D-S	0.375	0.375	6.000	0.930	0.375	VB.. 221 VB.. 110304	4008-M2.5x6	-	-	82-T08
SVJBR 08 2D-S	0.500	0.500	6.000	0.930	0.500	VB.. 221 VB.. 110304	4008-M2.5x6	-	-	82-T08
SVJBR 10 3B-S	0.625	0.625	4.500	1.430	0.625	VB.. 332 VB.. 160408	4015-M3.5x11	-	-	82-T15
SVJBL 06 2D-S	0.375	0.375	6.000	0.930	0.375	VB.. 221 VB.. 110304	4008-M2.5x6	-	-	82-T08
SVJBL 08 2D-S	0.500	0.500	6.000	0.930	0.500	VB.. 221 VB.. 110304	4008-M2.5x6	-	-	82-T08
SVJBL 10 3B-S	0.625	0.625	4.500	1.430	0.625	VB.. 332 VB.. 160408	4015-M3.5x11	-	-	82-T15



Illustrations shown may vary from actual product.

Dimensions in Metric

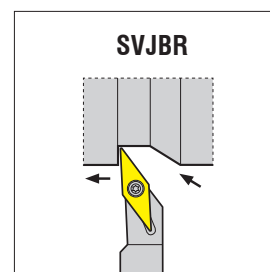
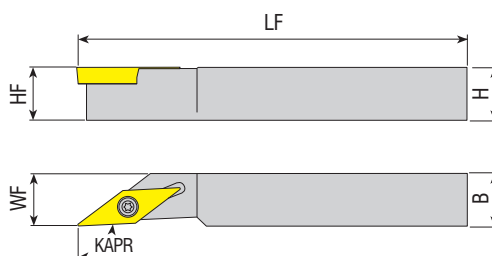


Ordering Code	HF=H	B	LF	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SVJBR 1212 F11	12	12	80	16	VB.. 22.. VB.. 1103..	4008-M2.5x6	-		82-T08
SVJBR 1616 H11	16	16	100	20	VB.. 22.. VB.. 1103..	4008-M2.5x6	-		82-T08
SVJBR 2020 K11	20	20	125	25	VB.. 22.. VB.. 1103..	4008-M2.5x6	-		82-T08
SVJBR 1616 H16	16	16	100	20	VB.. 33.. VB.. 1604..	4015-M3.5x12	AAVN-2-0002	AAV-08-M3.5x8	80-T15
SVJBR 2020 K16	20	20	125	25	VB.. 33.. VB.. 1604..	4015-M3.5x14	AAVN-2-0002	AAV-06-M3.5x11	80-T15
SVJBR 2525 M16	25	25	150	32	VB.. 33.. VB.. 1604..	4015-M3.5x14	AAVN-2-0002	AAV-06-M3.5x11	80-T15
SVJBR 3232 P16	32	32	170	40	VB.. 33.. VB.. 1604..	4015-M3.5x14	AAVN-2-0002	AAV-06-M3.5x11	80-T15
SVJBL 1212 F11	12	12	80	16	VB.. 22.. VB.. 1103..	4008-M2.5x6	-		82-T08
SVJBL 1616 H11	16	16	100	20	VB.. 22.. VB.. 1103..	4008-M2.5x6	-		82-T08
SVJBL 2020 K11	20	20	125	25	VB.. 22.. VB.. 1103..	4008-M2.5x6	-		82-T08
SVJBL 1616 H16	16	16	100	20	VB.. 33.. VB.. 1604..	4015-M3.5x12	AAVN-2-0002	AAV-08-M3.5x8	80-T15
SVJBL 2020 K16	20	20	125	25	VB.. 33.. VB.. 1604..	4015-M3.5x14	AAVN-2-0002	AAV-06-M3.5x11	80-T15
SVJBL 2525 M16	25	25	150	32	VB.. 33.. VB.. 1604..	4015-M3.5x14	AAVN-2-0002	AAV-06-M3.5x11	80-T15
SVJBL 3232 P16	32	32	170	40	VB.. 33.. VB.. 1604..	4015-M3.5x14	AAVN-2-0002	AAV-06-M3.5x11	80-T15



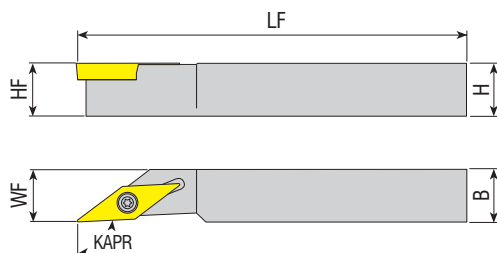
Illustrations shown may vary from actual product.

Dimensions in Metric

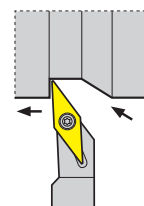


Ordering Code	HF=H	B	LF	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SVJBR 1616 K11-S	16	16	125	16	VB.. 22.. VB.. 1103..	4008-M2.5x6	-	-	82-T08
SVJBL 1616 K11-S	16	16	125	16	VB.. 22.. VB.. 1103..	4008-M2.5x6	-	-	82-T08

KAPR=93°



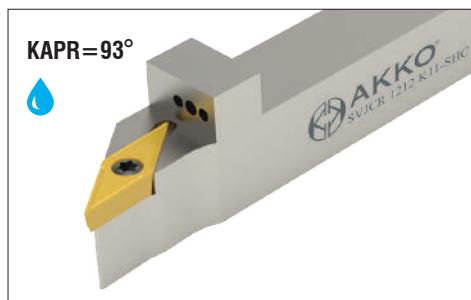
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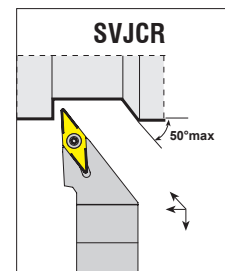
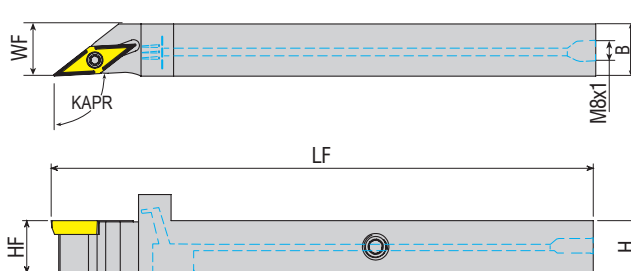
Illustrations shown may vary from actual product.

Dimensions in Metric

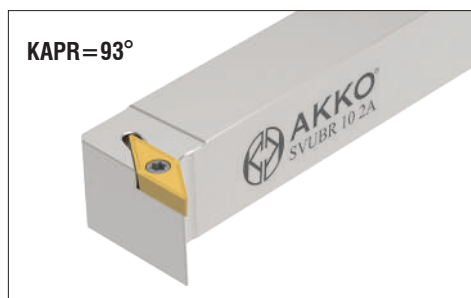
Ordering Code	HF=H	B	LF	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SVJCR 0808 X11-S	08	08	115	08	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T08
SVJCR 1010 K11-S	10	10	125	10	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T08
SVJCR 1212 G11-S	12	12	90	12	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T15
SVJCR 1212 K11-S	12	12	125	12	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T08
SVJCR 1616 F11-S	16	16	75	16	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T08
SVJCR 1616 K11-S	16	16	125	16	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T08
SVJCR 2020 K11-S	20	20	125	20	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T08
SVJCR 1616 K16-S	16	16	125	12	VC.. 33.. VC.. 1604...	4015-M3.5x11	AAVN-2-0002	AAV-08-M3.5x8	80-T15
SVJCR 2020 K16-S	20	20	125	16	VC.. 33.. VC.. 1604...	4015-M3.5x11	AAVN-2-0002	AAV-06-M3.5x11	80-T15
SVJCL 0808 X11-S	08	08	115	08	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T08
SVJCL 1010 K11-S	10	10	125	10	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T08
SVJCL 1212 G11-S	12	12	90	12	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T15
SVJCL 1212 K11-S	12	12	125	12	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T08
SVJCL 1616 F11-S	16	16	75	16	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T08
SVJCL 1616 K11-S	16	16	125	16	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T08
SVJCL 2020 K11-S	20	20	125	20	VC.. 22.. VC.. 1103..	4008-M2.5x6	-	-	82-T08
SVJCL 1616 K16-S	16	16	125	12	VC.. 33.. VC.. 1604...	4015-M3.5x11	AAVN-2-0002	AAV-08-M3.5x8	80-T15
SVJCL 2020 K16-S	20	20	125	16	VC.. 33.. VC.. 1604...	4015-M3.5x11	AAVN-2-0002	AAV-06-M3.5x11	80-T15



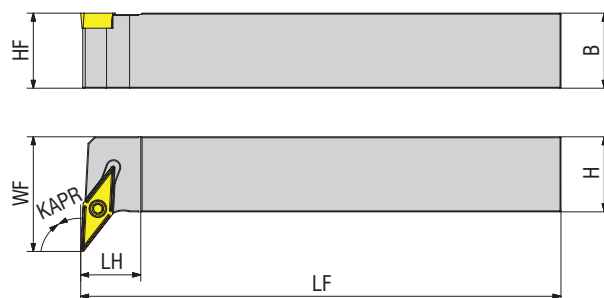
Illustrations shown may vary from actual product.

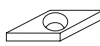


Dimensions in Metric									
Ordering Code	HF=H	B	LF	WF	Insert Inch/Metric	Screw	Thread Pin	Allen Key	Torx Key
SVJCR 1212 K11-SHC	12	12	125	12	VC.. 22.. VC.. 1103..	4008-M2.5x6	2703-M6X4	AAL-03-3	82-T08
SVJCR 1616 K11-SHC	16	16	125	16	VC.. 22.. VC.. 1103..	4008-M2.5x6	2704-M8X1X5	AAL-05-4	82-T08
SVJCL 1212 K11-SHC	12	12	125	12	VC.. 22.. VC.. 1103..	4008-M2.5x6	2703-M6X4	AAL-03-3	82-T08
SVJCL 1616 K11-SHC	16	16	125	16	VC.. 22.. VC.. 1103..	4008-M2.5x6	2704-M8X1X5	AAL-05-4	82-T08



Illustrations shown may vary from actual product.

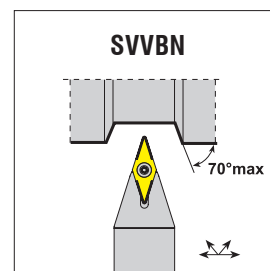
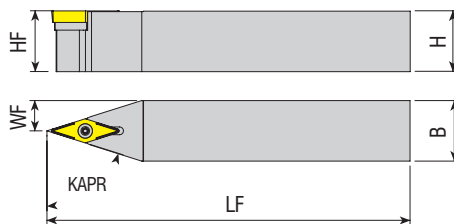


Dimensions in Inch										
Ordering Code	HF=H	B	LF	LH	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SVUBR 10 2A	0.625	0.625	4.000	0.500	0.955	VB.. 221 VB.. 110304	4008-M2.5x6	-	-	82-T08
SVUBL 10 2A	0.625	0.625	4.000	0.500	0.955	VB.. 221 VB.. 110304	4008-M2.5x6	-	-	82-T08

KAPR=93°

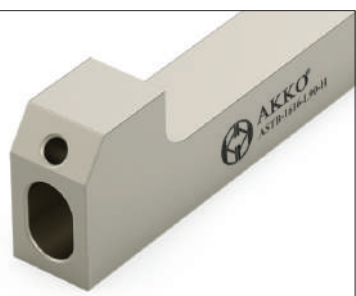


Illustrations shown may vary from actual product.

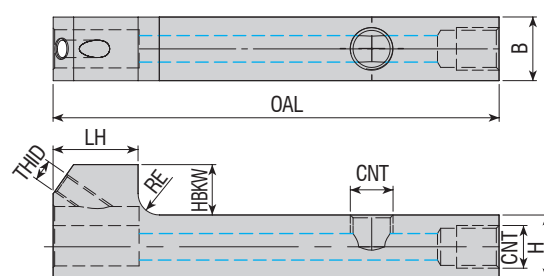


Dimensions in Metric

Ordering Code	HF=H	B	LF	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
SVVBN 1212 F11	12	12	80	06	VB.. 22.. VB.. 1103..	4008-M2.5x6	-	-	82-T08
SVVBN 1616 H11	16	16	100	08	VB.. 22.. VB.. 1103..	4008-M2.5x6	-	-	82-T08
SVVBN 2020 K11	20	20	125	10	VB.. 22.. VB.. 1103..	4008-M2.5x6	-	-	82-T08
SVVBN 2020 K16	20	20	125	10	VB.. 33.. VB.. 1604..	4015-M3.5x14	AAVN-2-0002	AAV-06-M3.5x11	80-T15
SVVBN 2525 M16	25	25	150	12.5	VB.. 33.. VB.. 1604..	4015-M3.5x14	AAVN-2-0002	AAV-06-M3.5x11	80-T15
SVVBN 3232 P16	32	32	170	16	VB.. 33.. VB.. 1604..	4015-M3.5x14	AAVN-2-0002	AAV-06-M3.5x11	80-T15



Illustrations shown may vary from actual product.

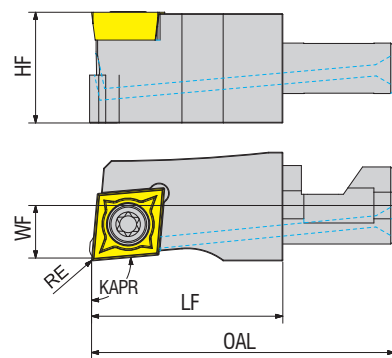


Dimensions in Metric

Ordering Code	H	B	RE	HBKW	LH	OAL	CNT	THID	Thread Pin	Mounting Screw	Allen Key
ASTB-1212-L84-H	12	12	4	9.5	16	84	M8X1X5	M4x0.7	2704-M8X1X5	2503-M4x12-C	AAL-03-3
ASTB-1616-L90-H	16	16	1	9.5	16	90	M8X1X5	M4x0.7	2704-M8X1X5	2503-M4x12-C	AAL-03-3



Illustrations shown may vary from actual product.



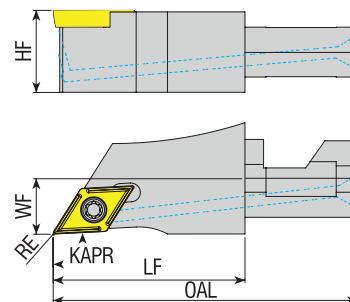
Dimensions in Metric

Ordering Code	HF	WF	RE	LF	OAL	Insert	Screw	Torx Key
						Inch/Metric		
SCLCR-12X43.3-06-H	11.8	8	0.2	27.3	43.3	CC.. 215.. CC.. 0602..	4008-M2.5x6	82-T08
SCLCR-16X43.3-06-H	15.8	8	0.2	27.3	43.3	CC.. 215.. CC.. 0602..	4008-M2.5x6	82-T08
SCLCR-12X43.3-09-H	11.8	8	0.2	27.3	43.3	CC.. 325.. CC.. 09T3..	4015-M3.5x8	80-T15
SCLCR-16X43.3-09-H	15.8	8	0.2	27.3	43.3	CC.. 325.. CC.. 09T3..	4015-M3.5x8	80-T15
SCLCL-12X43.3-06-H	11.8	8	0.2	27.3	43.3	CC.. 215.. CC.. 0602..	4008-M2.5x6	82-T08
SCLCL-16X43.3-06-H	15.8	8	0.2	27.3	43.3	CC.. 215.. CC.. 0602..	4008-M2.5x6	82-T08
SCLCL-12X43.3-09-H	11.8	8	0.2	27.3	43.3	CC.. 325.. CC.. 09T3..	4015-M3.5x8	80-T15
SCLCL-16X43.3-09-H	15.8	8	0.2	27.3	43.3	CC.. 325.. CC.. 09T3..	4015-M3.5x8	80-T15

KAPF



Illustrations shown may vary from actual product.



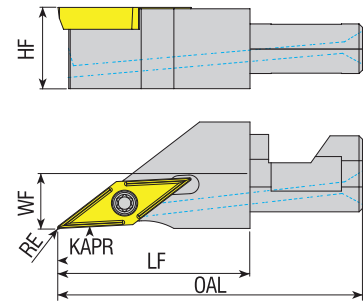
Dimensions in Metric

Ordering Code	HF	WF	RE	LF	OAL	Insert	Screw	Torx Key
						Inch/Metric		
SDJCR-12X43.3-07	11.8	8	0.2	27.3	43.3	DC.. 215.. DC.. 0702...	4008-M2.5x6	82-T08
SDJCR-12X43.3-07-H	11.8	8	0.2	27.3	43.3	DC.. 215.. DC.. 0702...	4008-M2.5x6	82-T08
SDJCR-16X43.3-07	15.8	8	0.2	27.3	43.3	DC.. 215.. DC.. 0702...	4008-M2.5x6	82-T08
SDJCR-16X43.3-07-H	15.8	8	0.2	27.3	43.3	DC.. 215.. DC.. 0702...	4008-M2.5x6	82-T08
SDJCR-12X43.3-11	11.8	8	0.2	27.3	43.3	DC.. 325.. DC.. 11T3..	4015-M3.5x9	80-T15
SDJCR-12X43.3-11-H	11.8	8	0.2	27.3	43.3	DC.. 325.. DC.. 11T3..	4015-M3.5x9	80-T15
SDJCR-16X43.3-11	15.8	8	0.2	27.3	43.3	DC.. 325.. DC.. 11T3..	4015-M3.5x9	80-T15
SDJCR-16X43.3-11-H	15.8	8	0.2	27.3	43.3	DC.. 325.. DC.. 11T3..	4015-M3.5x9	80-T15
SDJCL-12X43.3-07	11.8	8	0.2	27.3	43.3	DC.. 215.. DC.. 0702...	4008-M2.5x6	82-T08
SDJCL-12X43.3-07-H	11.8	8	0.2	27.3	43.3	DC.. 215.. DC.. 0702...	4008-M2.5x6	82-T08
SDJCL-16X43.3-07	15.8	8	0.2	27.3	43.3	DC.. 215.. DC.. 0702...	4008-M2.5x6	82-T08
SDJCL-16X43.3-07-H	15.8	8	0.2	27.3	43.3	DC.. 215.. DC.. 0702...	4008-M2.5x6	82-T08
SDJCL-12X43.3-11	11.8	8	0.2	27.3	43.3	DC.. 325.. DC.. 11T3..	4015-M3.5x9	80-T15
SDJCL-12X43.3-11-H	11.8	8	0.2	27.3	43.3	DC.. 325.. DC.. 11T3..	4015-M3.5x9	80-T15
SDJCL-16X43.3-11	15.8	8	0.2	27.3	43.3	DC.. 325.. DC.. 11T3..	4015-M3.5x9	80-T15
SDJCL-16X43.3-11-H	15.8	8	0.2	27.3	43.3	DC.. 325.. DC.. 11T3..	4015-M3.5x9	80-T15

KAPR=9°



Illustrations shown may vary from actual product.

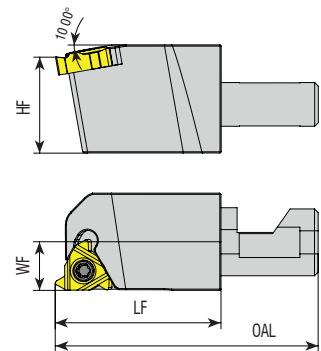


Dimensions in Metric

Ordering Code	HF	WF	RE	LF	OAL	Insert Inch/Metric	Screw	Torx Key
SVJCR-12X43.3-11	11.8	8	0.2	27.3	43.3	VC.. 22.. VC.. 1103..	4008-M2.5x6	82-T08
SVJCR-12X43.3-11-H	11.8	8	0.2	27.3	43.3	VC.. 22.. VC.. 1103..	4008-M2.5x6	82-T08
SVJCR-16X43.3-11	15.8	8	0.2	27.3	43.3	VC.. 22.. VC.. 1103..	4008-M2.5x6	82-T08
SVJCR-16X43.3-11-H	15.8	8	0.2	27.3	43.3	VC.. 22.. VC.. 1103..	4008-M2.5x6	82-T08
SVJCL-12X43.3-11	11.8	8	0.2	27.3	43.3	VC.. 22.. VC.. 1103..	4008-M2.5x6	82-T08
SVJCL-12X43.3-11-H	11.8	8	0.2	27.3	43.3	VC.. 22.. VC.. 1103..	4008-M2.5x6	82-T08
SVJCL-16X43.3-11	15.8	8	0.2	27.3	43.3	VC.. 22.. VC.. 1103..	4008-M2.5x6	82-T08
SVJCL-16X43.3-11-H	15.8	8	0.2	27.3	43.3	VC.. 22.. VC.. 1103..	4008-M2.5x6	82-T08



Illustrations shown may vary from actual product.



Dimensions in Metric

Ordering Code	HF	WF	LF	OAL	Insert	Screw	Right Shim	Left Shim	Shim Screw	Shim Screw Ring	Torx Key
SER-12x43.3-11	11.8	8	27.3	43.3	11 ER	4008-M2.5x6	-	-	-	-	82-T08
SER-16x43.3-11	15.8	8	27.3	43.3	11 ER	4008-M2.5x6	-	-	-	-	82-T08
TER-16x43.3-16	15.8	8	27.3	43.3	16 ER	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
SEL-12x43.3-11	11.8	8	27.3	43.3	11 EL	4008-M2.5x6	-	-	-	-	82-T08
SEL-16x43.3-11	15.8	8	27.3	43.3	11 EL	4008-M2.5x6	-	-	-	-	82-T08
TEL-16x43.3-16	15.8	8	27.3	43.3	16 EL	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10



the spoken quality...

D-SYSTEM

D SYSTEM BORING BARS



A 16 T D C L N R 4 C

1 Type of Boring Bar

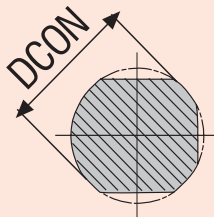
"A" Solid steel with coolant hole

"E" Carbide bar with fixed steel head and coolant hole

"C" Carbide shank

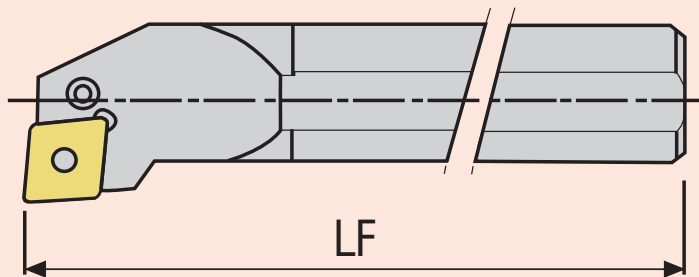
"S" Steel shank

2 Shank Diameter



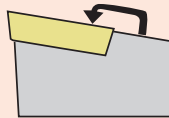
03	0.1875	16	1.000
04	0.2500	20	1.250
05	0.3125	24	1.500
06	0.3700	28	1.750
08	0.5000	32	2.000
10	0.6250	36	2.250
12	0.7500	40	2.500

3 Shank Length



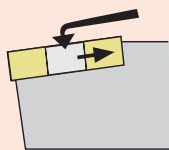
F	3	R	8
G	3.5	S	10
H	4	T	12
J	4.5	U	14
K	5	V	16
L	5.5	W	18
M	6	Y	20
N	6.5	P	6.75
Q	7	X	Special

4 Method of Mounting of Insert



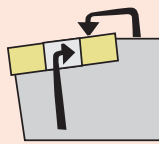
Top Clamping Without Hole

C



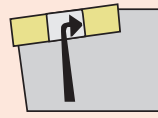
Top and Hole Clamping

D



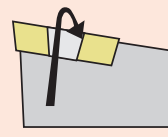
Top and Hole Clamping

M



Hole Clamping (Lever Lock)

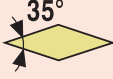
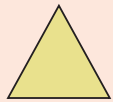
P

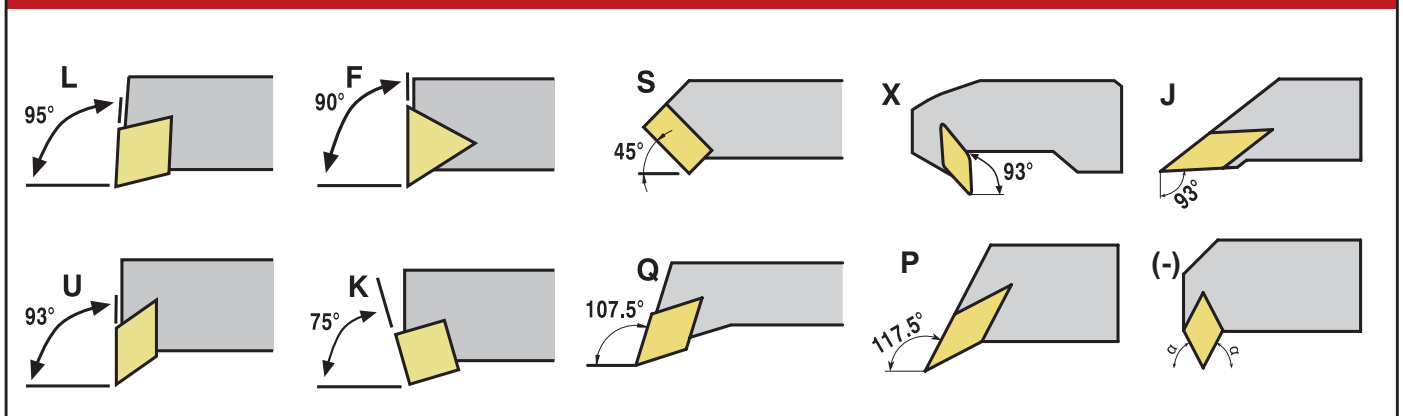
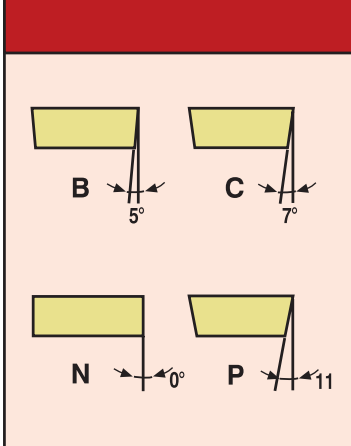
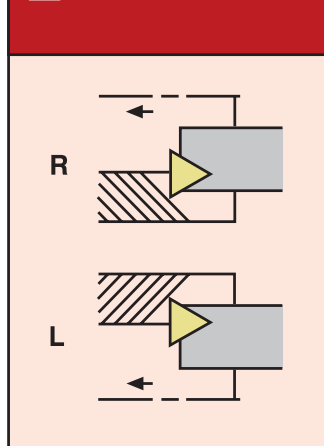
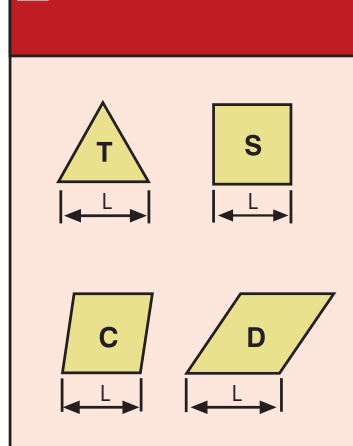
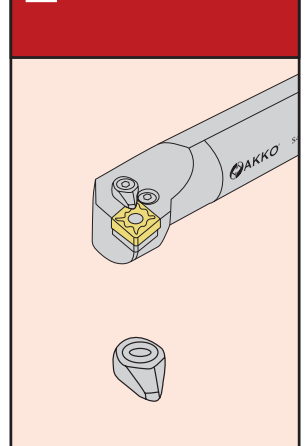


Screw on

S

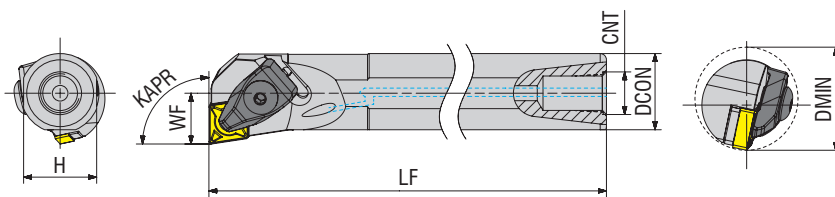
5 Type of Insert

				
C	D	E	V	R
				
S	W	K	T	

6 Tool Holder Shape Bar Geometry**7** Insert Clearance Angle**8** Cutting Direction**9** Cutting Edge Length**10** Wedge Clamp



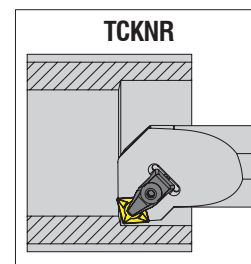
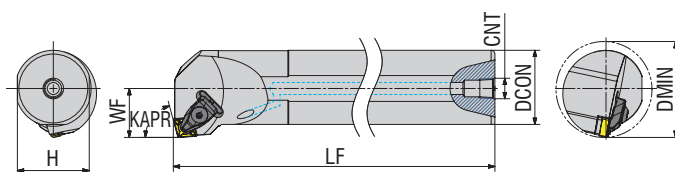
Illustrations shown may vary from actual product.



Dimensions in Inch							       							
Ordering Code	DCON	H	LF	WF	DMIN	CNT	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Allen Key
A16T DCFNR 4	1.000	0.921	12.000	0.640	1.300	1/4-18 NPT	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-13-M5x8	AS-01	ABPL-01	AAL-03-3
A24U DCFNR 4	1.500	1.378	14.000	0.890	1.760	1/4-18 NPT	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3



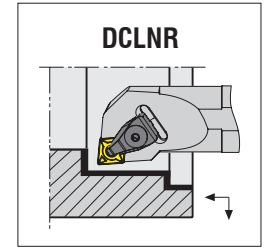
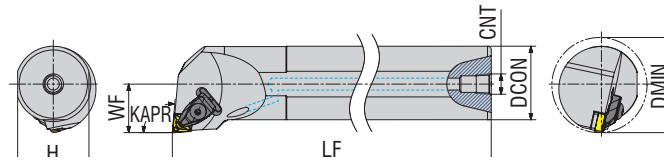
Illustrations shown may vary from actual product.



Dimensions in Inch							       							
Ordering Code	DCON	H	LF	WF	DMIN	CNT	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Allen Key
A32V DCKNL 4	2.000	1.882	16.000	1.281	2.400	1/4-18 NPT	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
A32V DCKNL 5	2.000	1.882	16.000	1.281	2.400	1/4-18 NPT	CN.. 543 CN.. 160612	ATK-04	AKV-19-M7x25	AACN-3-0002	AAV-05-M6x15	AS-02	ABPL-02	AAL-05-4



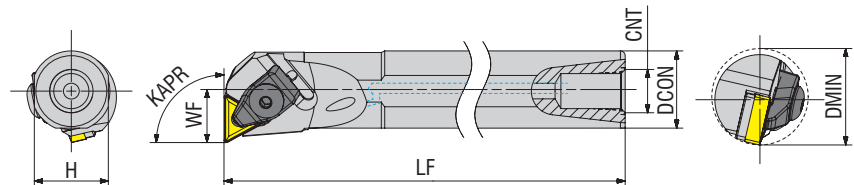
Illustrations shown may vary from actual product.



Dimensions in Inch							       							
Ordering Code	DCON	H	LF	WF	DMIN	CNT	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Allen Key
A16T DCLNR 3	1.000	0.921	12.000	0.640	1.200	1/4-18 NPT	CN.. 322 CN.. 09T308	ATK-01	AKV-01-M5x22	AACN -2-0001	AAV-09-M5x9	-	ABPL-01	AAL-03-3
A16T DCLNR 4	1.000	0.921	12.000	0.640	1.200	1/4-18 NPT	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-13-M5x8	AS-01	ABPL-01	AAL-03-3
A20U DCLNR 4	1.250	1.170	14.000	0.765	1.470	1/4-18 NPT	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
A24U DCLNR 4	1.500	1.378	14.000	0.890	1.760	1/4-18 NPT	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
A24U DCLNR 5	1.500	1.378	14.000	0.890	1.760	1/4-18 NPT	CN.. 543 CN.. 160612	ATK-04	AKV-19-M7x25	AACN-3-0002	AAV-05-M6x15	AS-02	ABPL-02	AAL-05-4
A28U DCLNR 4	1.750	1.632	14.000	1.015	2.010	1/4-18 NPT	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
A32V DCLNR 4	2.000	1.882	16.000	1.281	2.400	1/4-18 NPT	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
A32V DCLNR 5	2.000	1.882	16.000	1.281	2.400	1/4-18 NPT	CN.. 543 CN.. 160612	ATK-04	AKV-19-M7x25	AACN-3-0002	AAV-05-M6x15	AS-02	ABPL-02	AAL-05-4
A40V DCLNR 4	2.500	2.374	16.000	1.531	3.030	1/4-18 NPT	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
A16T DCLNL 4	1.000	0.921	12.000	0.640	1.200	1/4-18 NPT	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-13-M5x8	AS-01	ABPL-01	AAL-03-3
A20U DCLNL 4	1.250	1.170	14.000	0.765	1.470	1/4-18 NPT	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
A24U DCLNL 4	1.500	1.378	14.000	0.890	1.760	1/4-18 NPT	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
A28U DCLNL 4	1.750	1.632	14.000	1.015	2.010	1/4-18 NPT	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
A32V DCLNL 4	2.000	1.882	16.000	1.281	2.400	1/4-18 NPT	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
A40V DCLNL 4	2.500	2.374	16.000	1.531	3.030	1/4-18 NPT	CN.. 432 CN.. 120408	ATK-02	AKV-30-M6x22	AACN-3-0001	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3



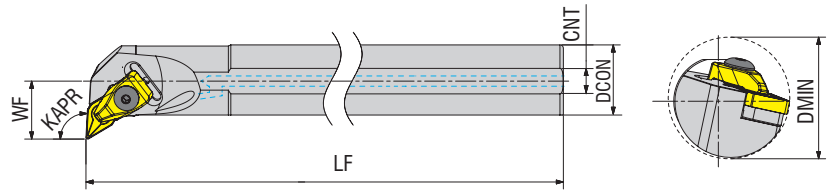
Illustrations shown may vary from actual product.



Dimensions in Inch							       							
Ordering Code	DCON	H	LF	WF	DMIN	CNT	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Allen Key
A16T DTFNR 3	1.000	0.921	12.000	0.640	1.200	1/4-18 NPT	TN.. 332 TN.. 160408	ATK-01	AKV-01-M5x22	AATN-2-0002	AAV-03-M5x12	-	ABPL-01	AAL-03-3



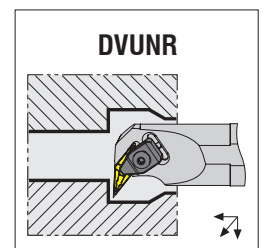
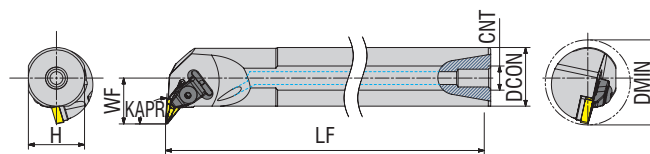
Illustrations shown may vary from actual product.



Dimensions in Inch							       							
Ordering Code	DCON	H	LF	WF	DMIN	CNT	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Allen Key
A16T DDUNR 3	1.000	0.921	12.000	0.750	1.300	1/4-18 NPT	DN.. 332 DN.. 110408	ATK-01	AKV-01-M5x22	AADN-2-0001	AAV-09-M5x9	-	ABPL-01	AAL-03-3
A20U DDUNR 3	1.250	1.170	14.000	1.000	1.705	1/4-18 NPT	DN.. 332 DN.. 110408	ATK-01	AKV-01-M5x22	AADN-2-0001	AAV-09-M5x9	-	ABPL-01	AAL-03-3
A20U DDUNR 4	1.250	1.170	14.000	1.000	1.705	1/4-18 NPT	DN.. 432 DN.. 150408	ATK-02	AKV-30-M6x22	AADN-2-0003	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
A24U DDUNR 4	1.500	1.378	14.000	1.125	2.000	1/4-18 NPT	DN.. 432 DN.. 150408	ATK-02	AKV-30-M6x22	AADN-2-0003	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
A32V DDUNR 4	2.000	1.882	16.000	1.375	2.500	1/4-18 NPT	DN.. 432 DN.. 150408	ATK-02	AKV-30-M6x22	AADN-2-0003	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
A16T DDUNL 3	1.000	0.921	12.000	0.750	1.300	1/4-18 NPT	DN.. 332 DN.. 110408	ATK-01	AKV-01-M5x22	AADN-2-0001	AAV-09-M5x9	-	ABPL-01	AAL-03-3
A20U DDUNL 3	1.250	1.170	14.000	1.000	1.705	1/4-18 NPT	DN.. 332 DN.. 110408	ATK-01	AKV-01-M5x22	AADN-2-0001	AAV-09-M5x9	-	ABPL-01	AAL-03-3
A20U DDUNL 4	1.250	1.170	14.000	1.000	1.705	1/4-18 NPT	DN.. 432 DN.. 150408	ATK-02	AKV-30-M6x22	AADN-2-0003	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
A24U DDUNL 4	1.500	1.378	14.000	1.125	2.000	1/4-18 NPT	DN.. 432 DN.. 150408	ATK-02	AKV-30-M6x22	AADN-2-0003	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3
A32V DDUNL 4	2.000	1.882	16.000	1.375	2.500	1/4-18 NPT	DN.. 432 DN.. 150408	ATK-02	AKV-30-M6x22	AADN-2-0003	AAV-02-M5x12	AS-01	ABPL-01	AAL-03-3



Illustrations shown may vary from actual product.



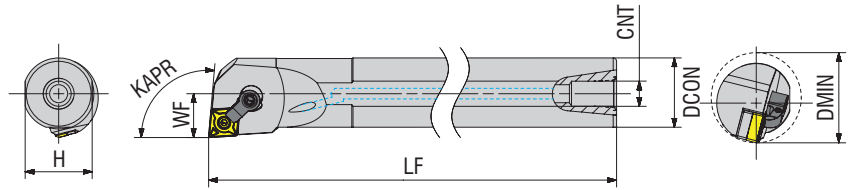
Dimensions in Inch							       							
Ordering Code	DCON	H	LF	WF	DMIN	CNT	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Allen Key
A20U DVUNR 3	1.250	1.170	14.000	1.000	1.705	1/4-18 NPT	VN.. 332 VN.. 160408	ATK-01	AKV-01-M5x22	AAVN-2-0002	AAV-03-M5x12	-	ABPL-01	AAL-03-3
A24U DVUNR 3	1.500	1.378	14.000	1.125	2.000	1/4-18 NPT	VN.. 332 VN.. 160408	ATK-01	AKV-01-M5x22	AAVN-2-0002	AAV-03-M5x12	-	ABPL-01	AAL-03-3
A24U DVUNL 3	1.500	1.378	14.000	1.125	2.000	1/4-18 NPT	VN.. 332 VN.. 160408	ATK-01	AKV-01-M5x22	AAVN-2-0002	AAV-03-M5x12	-	ABPL-01	AAL-03-3

the spoken quality...

M-SYSTEM

M-SYSTEM BORING BARS



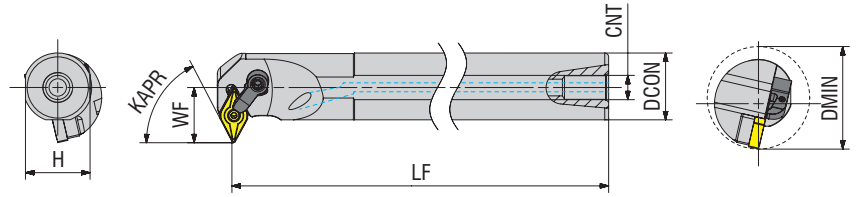


Illustrations shown may vary from actual product.

Dimensions in Inch							      						
Ordering Code	DCON	H	LF	WF	DMIN	CNT	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
A16T MCLNR 3	1.000	0.921	12.000	0.640	1.200	1/4-18 NPT	CN.. 322 CN.. 09T308	CK-6	STC-5	AAL-16-3/32	-	KL-33	AAL-18-5/64
A16T MCLNR 4	1.000	0.921	12.000	0.640	1.200	1/4-18 NPT	CN.. 432 CN.. 120408	CK-20	STC-11	AAL-14-1/8	-	KL-44	AAL-16-3/32
A20U MCLNR 4	1.250	1.170	14.000	0.765	1.470	1/4-18 NPT	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
A24U MCLNR 5	1.500	1.378	14.000	0.890	2.000	1/4-18 NPT	CN.. 543 CN.. 160612	CK-12	STC-4	AAL-17-5/32	ICSN-533	KL-58	AAL-14-1/8
A24U MCLNR 4	1.500	1.378	14.000	0.890	1.760	1/4-18 NPT	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
A28U MCLNR 4	1.750	1.632	14.000	1.015	2.010	1/4-18 NPT	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
A32V MCLNR 5	2.000	1.882	16.000	1.281	2.400	1/4-18 NPT	CN.. 543 CN.. 160612	CK-12	STC-4	AAL-17-5/32	ICSN-533	KL-58	AAL-14-1/8
A32V MCLNR 4	2.000	1.882	16.000	1.281	2.400	1/4-18 NPT	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
A32V MCLNR 6	2.000	1.882	16.000	1.281	2.400	1/4-18 NPT	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64
A40V MCLNR 4	2.500	2.374	16.000	1.531	3.030	1/4-18 NPT	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
A40V MCLNR 5	2.500	2.374	16.000	1.531	3.030	1/4-18 NPT	CN.. 543 CN.. 160612	CK-12	STC-4	AAL-17-5/32	ICSN-533	KL-58	AAL-14-1/8
A40V MCLNR 6	2.500	2.374	16.000	1.531	3.030	1/4-18 NPT	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64
A16T MCLNL 3	1.000	0.921	12.000	0.640	1.200	1/4-18 NPT	CN.. 322 CN.. 09T308	CK-6	STC-5	AAL-16-3/32	-	KL-33	AAL-18-5/64
A16T MCLNL 4	1.000	0.921	12.000	0.640	1.200	1/4-18 NPT	CN.. 432 CN.. 120408	CK-20	STC-11	AAL-14-1/8	-	KL-44	AAL-16-3/32
A20U MCLNL 4	1.250	1.170	14.000	0.765	1.470	1/4-18 NPT	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
A24U MCLNL 5	1.500	1.378	14.000	0.890	2.000	1/4-18 NPT	CN.. 543 CN.. 160612	CK-12	STC-4	AAL-17-5/32	ICSN-533	KL-58	AAL-14-1/8
A24U MCLNL 4	1.500	1.378	14.000	0.890	1.760	1/4-18 NPT	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
A28U MCLNL 4	1.750	1.632	14.000	1.015	2.010	1/4-18 NPT	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
A32V MCLNL 5	2.000	1.882	16.000	1.281	2.400	1/4-18 NPT	CN.. 543 CN.. 160612	CK-12	STC-4	AAL-17-5/32	ICSN-533	KL-58	AAL-14-1/8
A32V MCLNL 4	2.000	1.882	16.000	1.281	2.400	1/4-18 NPT	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
A32V MCLNL 6	2.000	1.882	16.000	1.281	2.400	1/4-18 NPT	CN.. 643 CN.. 190612	CK-12	STC-4	AAL-17-5/32	ICSN-633	KL-68	AAL-19-9/64
A40V MCLNL 4	2.500	2.374	16.000	1.531	3.030	1/4-18 NPT	CN.. 432 CN.. 120408	CK-20	STC-20	AAL-14-1/8	ICSN-433	KL-46	AAL-16-3/32
A40V MCLNL 5	2.500	2.374	16.000	1.531	3.030	1/4-18 NPT	CN.. 543 CN.. 160612	CK-12	STC-4	AAL-17-5/32	ICSN-533	KL-58	AAL-14-1/8



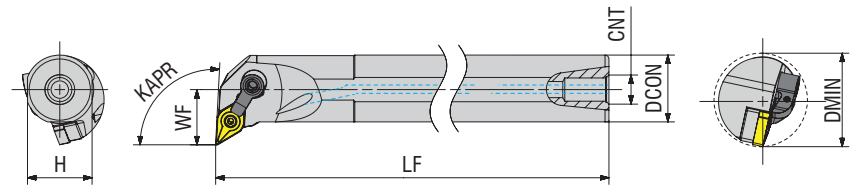
Illustrations shown may vary from actual product.



Dimensions in Inch							      						
Ordering Code	DCON	H	LF	WF	DMIN	CNT	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
A20U MDPNR 4	1.250	1.170	14.000	1.000	1.705	1/4-18 NPT	DN.. 432 DN.. 150408	CK-22	STC-20	AAL-14-1/8	IDSN-443	KL-46L	AAL-16-3/32
A24U MDPNR 4	1.500	1.378	14.000	1.125	2.000	1/4-18 NPT	DN.. 432 DN.. 150408	CK-22	STC-20	AAL-14-1/8	IDSN-443	KL-46L	AAL-16-3/32
A20U MDPNL 4	1.250	1.170	14.000	1.000	1.705	1/4-18 NPT	DN.. 432 DN.. 150408	CK-22	STC-20	AAL-14-1/8	IDSN-443	KL-46L	AAL-16-3/32
A24U MDPNL 4	1.500	1.378	14.000	1.125	2.000	1/4-18 NPT	DN.. 432 DN.. 150408	CK-22	STC-20	AAL-14-1/8	IDSN-443	KL-46L	AAL-16-3/32



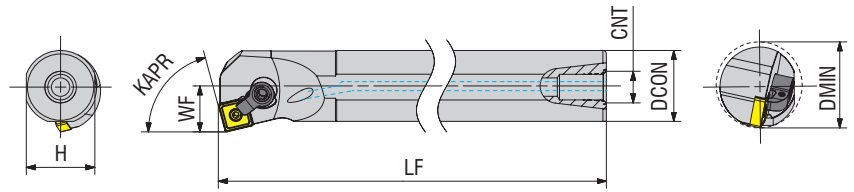
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Dimensions in Inch							      						
Ordering Code	DCON	H	LF	WF	DMIN	CNT	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
A16T MDUNR 3	1.000	0.921	12.000	0.750	1.300	1/4-18 NPT	DN.. 332 DN.. 110408	CK-7	STC-5	AAL-16-3/32	-	KL-33L	AAL-18-5/64
A20U MDUNR 4	1.250	1.170	14.000	1.000	1.705	1/4-18 NPT	DN.. 432 DN.. 150408	CK-12	STC-4	AAL-17-5/32	IDSN-443	KL-46L	AAL-16-3/32
A24U MDUNR 4	1.500	1.378	14.000	1.125	2.000	1/4-18 NPT	DN.. 432 DN.. 150408	CK-12	STC-4	AAL-17-5/32	IDSN-443	KL-46L	AAL-16-3/32
A28U MDUNR 4	1.750	1.632	14.000	1.250	2.250	1/4-18 NPT	DN.. 432 DN.. 150408	CK-12	STC-4	AAL-17-5/32	IDSN-443	KL-46L	AAL-16-3/32
A32V MDUNR 4	2.000	1.882	16.000	1.375	2.500	1/4-18 NPT	DN.. 432 DN.. 150408	CK-12	STC-4	AAL-17-5/32	IDSN-443	KL-46L	AAL-16-3/32
A16T MDUNL 3	1.000	0.921	12.000	0.750	1.300	1/4-18 NPT	DN.. 332 DN.. 110408	CK-7	STC-5	AAL-16-3/32	-	KL-33L	AAL-18-5/64
A20U MDUNL 4	1.250	1.170	14.000	1.000	1.705	1/4-18 NPT	DN.. 432 DN.. 150408	CK-12	STC-4	AAL-17-5/32	IDSN-443	KL-46L	AAL-16-3/32
A24U MDUNL 4	1.500	1.378	14.000	1.125	2.000	1/4-18 NPT	DN.. 432 DN.. 150408	CK-12	STC-4	AAL-17-5/32	IDSN-443	KL-46L	AAL-16-3/32
A28U MDUNL 4	1.750	1.632	14.000	1.250	2.250	1/4-18 NPT	DN.. 432 DN.. 150408	CK-12	STC-4	AAL-17-5/32	IDSN-443	KL-46L	AAL-16-3/32
A32V MDUNL 4	2.000	1.882	16.000	1.375	2.500	1/4-18 NPT	DN.. 432 DN.. 150408	CK-12	STC-4	AAL-17-5/32	IDSN-443	KL-46L	AAL-16-3/32



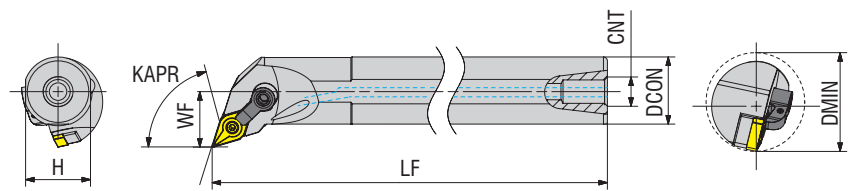
Illustrations shown may vary from actual product.



Dimensions in Inch													
Ordering Code	DCON	H	LF	WF	DMIN	CNT	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
A20U MSKNR 4	1.250	1.170	14.000	0.765	1.470	1/4-18 NPT	SN.. 432 SN.. 120408	CK-9	STC-4	AAL-17-5/32	-	KL-44	AAL-16-3/32
A40V MSKNR 6	2.500	2.374	16.000	1.531	3.030	1/4-18 NPT	SN.. 643 SN.. 190612	CK-12	STC-4	AAL-17-5/32	ISSN-633	KL-68	AAL-19-9/64



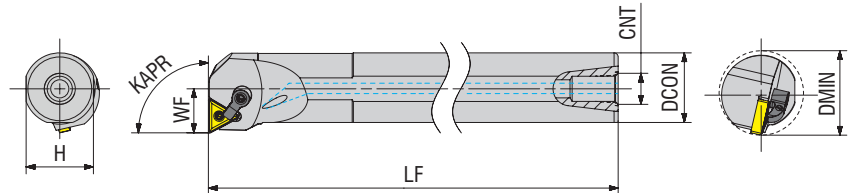
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Dimensions in Inch													
Ordering Code	DCON	H	LF	WF	DMIN	CNT	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
A20U MDQNR 4	1.250	1.170	14.000	1.000	1.705	1/4-18 NPT	DN.. 432 DN.. 150408	CK-12	STC-4	AAL-17-5/32	IDSN-443	KL-46L	AAL-16-3/32
A24U MDQNR 4	1.500	1.378	14.000	1.125	2.000	1/4-18 NPT	DN.. 432 DN.. 150408	CK-12	STC-4	AAL-17-5/32	IDSN-443	KL-46L	AAL-16-3/32
A20U MDQNL 4	1.250	1.170	14.000	1.000	1.705	1/4-18 NPT	DN.. 432 DN.. 150408	CK-12	STC-4	AAL-17-5/32	IDSN-443	KL-46L	AAL-16-3/32
A24U MDQNL 4	1.500	1.378	14.000	1.125	2.000	1/4-18 NPT	DN.. 432 DN.. 150408	CK-12	STC-4	AAL-17-5/32	IDSN-443	KL-46L	AAL-16-3/32



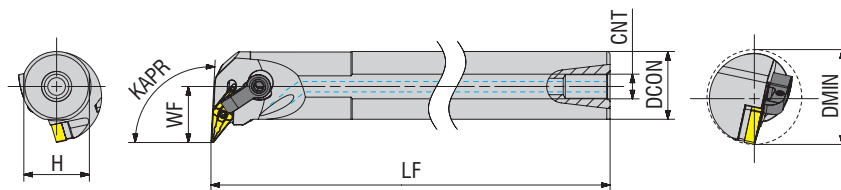
Illustrations shown may vary from actual product.



Dimensions in Inch													
Ordering Code	DCON	H	LF	WF	DMIN	CNT	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
A16T MTFNR 3	1.000	0.921	12.000	0.640	1.220	1/4-18 NPT	TN.. 332 TN.. 160408	CK-7	STC-9	AAL-16-3/32	ITSN-333	KL-33L	AAL-18-5/64
A20U MTFNR 3	1.250	1.170	14.000	0.765	1.470	1/4-18 NPT	TN.. 332 TN.. 160408	CK-7	STC-9	AAL-16-3/32	ITSN-333	KL-33L	AAL-18-5/64
A24U MTFNR 3	1.500	1.378	14.000	0.890	1.760	1/4-18 NPT	TN.. 332 TN.. 160408	CK-7	STC-9	AAL-16-3/32	ITSN-323	KL-34L	AAL-18-5/64
A24U MTFNR 4	1.500	1.378	14.000	0.890	1.760	1/4-18 NPT	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
A28U MTFNR 3	1.750	1.632	14.000	1.015	2.010	1/4-18 NPT	TN.. 332 TN.. 160408	CK-7	STC-9	AAL-16-3/32	ITSN-323	KL-34L	AAL-18-5/64
A28U MTFNR 4	1.750	1.632	14.000	1.015	2.010	1/4-18 NPT	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
A32V MTFNR 4	2.000	1.882	16.000	1.281	2.400	1/4-18 NPT	TN.. 432 TN.. 220408	CK-9	STC-4	AAL-17-5/32	ITSN-433	KL-46	AAL-16-3/32
A16T MTFNL 3	1.000	0.921	12.000	0.640	1.220	1/4-18 NPT	TN.. 332 TN.. 160408	CK-7	STC-9	AAL-16-3/32	-	KL-33L	AAL-18-5/64



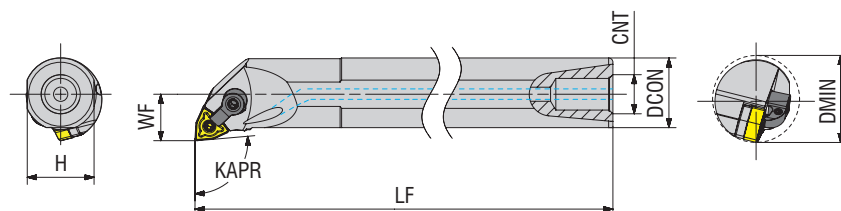
Illustrations shown may vary from actual product.



Dimensions in Inch							      						
Ordering Code	DCON	H	LF	WF	DMIN	CNT	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
A20U MVUNR 3	1.250	1.170	14.000	1.000	1.705	1/4-18 NPT	VN.. 332 VN.. 160408	CK-43	STC-4	AAL-17-5/32	IVSN-322	KL-34L	AAL-18-5/64
A24U MVUNR 3	1.500	1.378	14.000	1.125	2.000	1/4-18 NPT	VN.. 332 VN.. 160408	CK-43	STC-4	AAL-17-5/32	IVSN-322	KL-34L	AAL-18-5/64
A32V MVUNR 4	2.000	1.882	16.000	1.375	2.500	1/4-18 NPT	VN.. 432 VN.. 220408	CK-43	STC-4	AAL-17-5/32	IVSN-433	KL-46	AAL-16-3/32
A40V MVUNR 4	2.500	2.374	16.000	1.750	3.250	1/4-18 NPT	VN.. 432 VN.. 220408	CK-43	STC-4	AAL-17-5/32	IVSN-433	KL-46	AAL-16-3/32
A20U MVUNL 3	1.250	1.170	14.000	1.000	1.705	1/4-18 NPT	VN.. 332 VN.. 160408	CK-43	STC-4	AAL-17-5/32	IVSN-322	KL-34L	AAL-18-5/64
A24U MVUNL 3	1.500	1.378	14.000	1.125	2.000	1/4-18 NPT	VN.. 332 VN.. 160408	CK-43	STC-4	AAL-17-5/32	IVSN-322	KL-34L	AAL-18-5/64
A32V MVUNL 4	2.000	1.882	16.000	1.375	2.500	1/4-18 NPT	VN.. 432 VN.. 220408	CK-43	STC-4	AAL-17-5/32	IVSN-433	KL-46	AAL-16-3/32
A40V MVUNL 4	2.500	2.374	16.000	1.750	3.250	1/4-18 NPT	VN.. 432 VN.. 220408	CK-43	STC-4	AAL-17-5/32	IVSN-433	KL-46	AAL-16-3/32



Illustrations shown may vary from actual product.



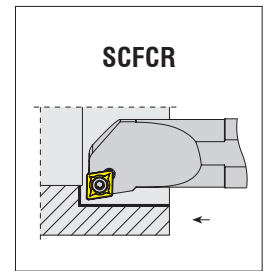
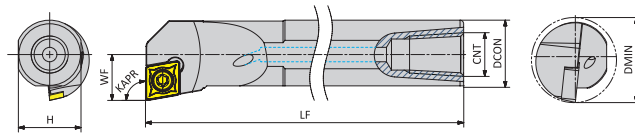
Dimensions in Inch							      						
Ordering Code	DCON	H	LF	WF	DMIN	CNT	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Allen Key	Shim	Lock Pin	Allen Key
A16T MWLNR 3	1.000	0.921	12.000	0.640	1.200	1/4-18 NPT	WN.. 332 WN.. 060408	CK-6	STC-5	AAL-16-3/32	IWSN-322	KL-34L	AAL-18-5/64
A16T MWLNR 4	1.000	0.921	12.000	0.640	1.220	1/4-18 NPT	WN.. 432 WN.. 080408	CK-20	STC-20	AAL-14-1/8	IWSN-433	KL-46	AAL-16-3/32
A24U MWLNR 3	1.500	1.378	14.000	0.890	1.760	1/4-18 NPT	WN.. 332 WN.. 060408	CK-6	STC-5	AAL-16-3/32	IWSN-322	KL-34L	AAL-18-5/64
A20U MWLNR 4	1.250	1.170	14.000	0.765	1.470	1/4-18 NPT	WN.. 432 WN.. 080408	CK-20	STC-20	AAL-14-1/8	IWSN-433	KL-46	AAL-16-3/32
A24U MWLNR 4	1.500	1.378	14.000	0.890	1.760	1/4-18 NPT	WN.. 432 WN.. 080408	CK-20	STC-20	AAL-14-1/8	IWSN-433	KL-46	AAL-16-3/32
A16T MWLNL 4	1.000	0.921	12.000	0.640	1.220	1/4-18 NPT	WN.. 432 WN.. 080408	CK-20	STC-20	AAL-14-1/8	IWSN-433	KL-46	AAL-16-3/32
A20U MWLNL 4	1.250	1.170	14.000	0.765	1.470	1/4-18 NPT	WN.. 432 WN.. 080408	CK-20	STC-20	AAL-14-1/8	IWSN-433	KL-46	AAL-16-3/32
A24U MWLNL 4	1.500	1.378	14.000	0.890	1.760	1/4-18 NPT	WN.. 432 WN.. 080408	CK-20	STC-20	AAL-14-1/8	IWSN-433	KL-46	AAL-16-3/32

the spoken quality...

S-SYSTEM

S-SYSTEM BORING BARS



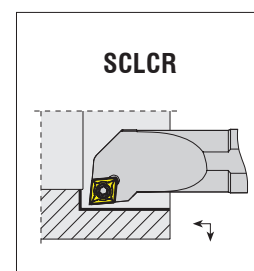
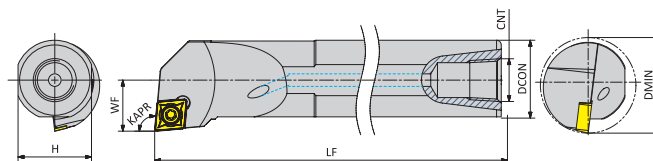


Illustrations shown may vary from actual product.

Dimensions in Inch												
Ordering Code	DCON	H	LF	WF	DMIN	OHN	CNT	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
A06M SCFCR 2	0.370	0.339	6.000	0.250	0.480	1.000	-	CC.. 2151 CC.. 060204	4008-M2.5x6	-	-	82-T08
A08R SCFCR 2	0.500	0.461	8.000	0.312	0.600	1.000	1/16-27 NPT	CC.. 2151 CC.. 060204	4008-M2.5x6	-	-	82-T08
A10S SCFCR 2	0.625	0.563	10.000	0.406	0.770	1.500	1/8-27 NPT	CC.. 2151 CC.. 060204	4008-M2.5x6	-	-	82-T08
A12S SCFCR 3	0.750	0.683	10.000	0.500	0.930	1.500	1/8-27 NPT	CC.. 3252 CC.. 09T308	4015-M3.5x9	-	-	80-T15
A16T SCFCR 3	1.000	0.921	12.000	0.640	1.300	2.000	1/4-18 NPT	CC.. 3252 CC.. 09T308	4015-M3.5x12	AACN-2-0001	AAV-08-M3.5x8	80-T15
A10S SCFCL 2	0.625	0.563	10.000	0.406	0.770	1.500	1/8-27 NPT	CC.. 2151 CC.. 060204	4008-M2.5x6	-	-	82-T08
A12S SCFCL 3	0.750	0.683	10.000	0.500	0.930	1.500	1/8-27 NPT	CC.. 3252 CC.. 09T308	4015-M3.5x9	-	-	80-T15



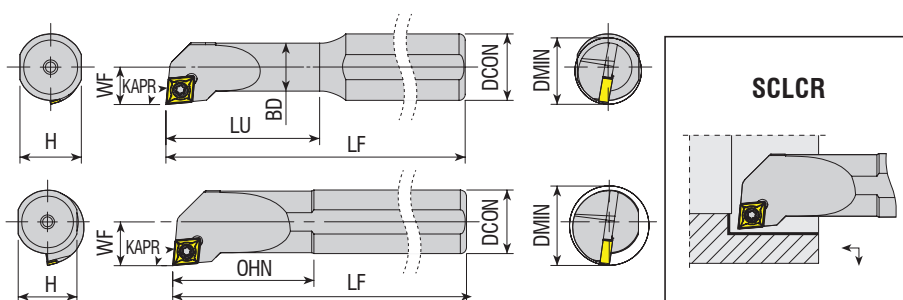
Illustrations shown may vary from actual product.



Dimensions in Inch												
Ordering Code	DCON	H	LF	WF	DMIN	OHN	CNT	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
A06M SCLCR 2	0.370	0.339	6.000	0.250	0.480	1.000	-	CC.. 2151 CC.. 060204	4008-M2.5x6	-	-	82-T08
A08R SCLCR 2	0.500	0.461	8.000	0.312	0.600	1.000	1/16-27 NPT	CC.. 2151 CC.. 060204	4008-M2.5x6	-	-	82-T08
A10S SCLCR 2	0.625	0.563	10.000	0.406	0.770	1.000	1/8-27 NPT	CC.. 2151 CC.. 060204	4008-M2.5x6	-	-	82-T08
A10S SCLCR 3	0.625	0.563	10.000	0.406	0.770	1.000	1/8-27 NPT	CC.. 3252 CC.. 09T308	4015-M3.5x9	-	-	80-T15
A12S SCLCR 3	0.750	0.683	10.000	0.500	0.930	1.500	1/8-27 NPT	CC.. 3252 CC.. 09T308	4015-M3.5x9	-	-	80-T15
A16T SCLCR 3	1.000	0.921	12.000	0.640	1.200	2.000	1/4-18 NPT	CC.. 3252 CC.. 09T308	4015-M3.5x9	-	-	80-T15
A06M SCLCL 2	0.370	0.339	6.000	0.250	0.480	1.000	-	CC.. 2151 CC.. 060204	4008-M2.5x6	-	-	82-T08
A08R SCLCL 2	0.500	0.461	8.000	0.312	0.600	1.000	1/16-27 NPT	CC.. 2151 CC.. 060204	4008-M2.5x6	-	-	82-T08
A10S SCLCL 2	0.625	0.563	10.000	0.406	0.770	1.500	1/8-27 NPT	CC.. 2151 CC.. 060204	4008-M2.5x6	-	-	82-T08
A10S SCLCL 3	0.625	0.563	10.000	0.406	0.770	1.500	1/8-27 NPT	CC.. 3252 CC.. 09T308	4015-M3.5x9	-	-	80-T15
A12S SCLCL 3	0.750	0.683	10.000	0.500	0.930	1.500	1/8-27 NPT	CC.. 3252 CC.. 09T308	4015-M3.5x9	-	-	80-T15
A16T SCLCL 3	1.000	0.921	12.000	0.640	1.200	2.000	1/4-18 NPT	CC.. 3252 CC.. 09T308	4015-M3.5x9	-	-	80-T15



Illustrations shown may vary from actual product.

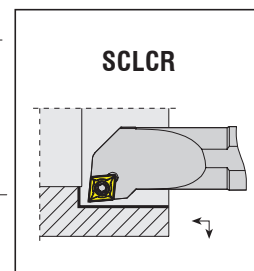
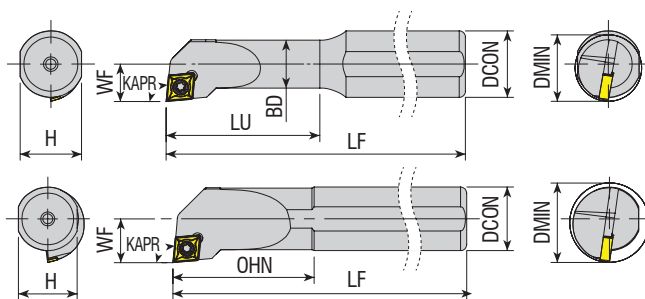


Dimensions in Metric

Ordering Code	DCON	BD	H	LU=OHN	LF	WF	DMIN	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
S0508H SCLCR 03	8	5	7.3	18	100	3	≥6	CC.. 121.. CC.. 0301..	4006-M1.6x3.2	-	-	82-T06
S0608H SCLCR 06	8	6	7.3	25	100	4.5	≥8	CC.. 215.. CC.. 0602..	4008-M2.5x4.5	-	-	82-T08
S08H SCLCR 06	8	8	7.3	20	100	6	≥11	CC.. 215.. CC.. 0602..	4008-M2.5x4.5	-	-	82-T08
S08K SCLCR 06	8	7.5	7.3	20	125	6	≥11	CC.. 215.. CC.. 0602..	4008-M2.5x5	-	-	82-T08
S08M SCLCR 06	8	7.5	7.3	20	150	6	≥11	CC.. 215.. CC.. 0602..	4008-M2.5x5	-	-	82-T08
S10K SCLCR 06	10	10	9	25	125	7	≥13	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
S12K SCLCR 06	12	12	11	25	125	9	≥16	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
S1216P SCLCR 06	16	11.5	14.8	37	170	9	≥16	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
S16P SCLCR 06	16	16	14.8	35	170	11	≥20	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
S12K SCLCR 09	12	12	11	30	125	9	≥16	CC.. 325.. CC.. 09T3..	4015-M3.5x8	-	-	80-T15
S12M SCLCR 09	12	11.5	11	30	150	9	≥16	CC.. 325.. CC.. 09T3..	4015-M3.5x9	-	-	80-T15
S1416P SCLCR 09	16	14	14.8	45	170	9.5	≥17	CC.. 325.. CC.. 09T3..	4015-M3.5x9	-	-	80-T15
S16P SCLCR 09	16	16	14.8	35	170	11	≥20	CC.. 325.. CC.. 09T3..	4015-M3.5x12	AACN-2-0001	AAV-08-M3.5x8	80-T15
S1620R SCLCR 09	20	16	18.3	50	200	11	≥20	CC.. 325.. CC.. 09T3..	4015-M3.5x12	AACN-2-0001	AAV-08-M3.5x8	80-T15
S16R SCLCR 09	16	15.5	14.8	35	200	11	≥20	CC.. 325.. CC.. 09T3..	4015-M3.5x9	AACN-2-0001	AAV-08-M3.5x8	80-T15
S20R SCLCR 09	20	20	18.3	40	200	13	≥25	CC.. 325.. CC.. 09T3..	4015-M3.5x9	AACN-2-0003	AAV-10-M4.5x8	80-T15
S20S SCLCR 09	20	19.5	18.3	40	250	13	≥25	CC.. 325.. CC.. 09T3..	4015-M3.5x9	AACN-2-0003	AAV-10-M4.5x8	80-T15
S25S SCLCR 09	25	25	23	50	250	17	≥32	CC.. 325.. CC.. 09T3..	4015-M3.5x9	AACN-2-0003	AAV-10-M4.5x8	80-T15
S32T SCLCR 09	32	32	30	60	300	22	≥40	CC.. 325.. CC.. 09T3..	4015-M3.5x9	-	-	80-T15
S25S SCLCR 12	25	25	23	50	250	17	≥32	CC.. 43.. CC.. 1204..	4020-M4.5x12	-	-	80-T20
S32T SCLCR 12	32	32	30	60	300	22	≥40	CC.. 43.. CC.. 1204..	4020-M4.5x12	-	-	80-T20
S40U SCLCR 12	40	40	37.5	70	350	27	≥50	CC.. 43.. CC.. 1204..	1020-M4.5x16	-	-	80-T20
A08H SCLCR 06	8	8	7.3	20	100	6	≥11	CC.. 215.. CC.. 0602..	4008-M2.5x4.5	AACN-2-0001	-	82-T08
A10H SCLCR 06	10	10	9	25	100	7	≥13	CC.. 215.. CC.. 0602..	4008-M2.5x6	AACN-2-0001	-	82-T08
A12H SCLCR 06	12	12	11	25	100	9	≥16	CC.. 215.. CC.. 0602..	4008-M2.5x6	AACN-2-0003	-	82-T08
A16M SCLCR 09	16	16	14.8	35	150	11	≥20	CC.. 325.. CC.. 09T3..	4015-M3.5x9	AACN-2-0001	AAV-08-M3.5x8	80-T15
A20P SCLCR 09	20	20	18.3	40	170	13	≥25	CC.. 325.. CC.. 09T3..	4015-M3.5x9	AACN-2-0001	AAV-08-M3.5x8	80-T15
A25R SCLCR 09	25	25	23	50	200	17	≥32	CC.. 325.. CC.. 09T3..	4015-M3.5x12	AACN-2-0001	AAV-08-M3.5x8	80-T15
A32S SCLCR 09	32	32	30	60	250	22	≥40	CC.. 325.. CC.. 09T3..	4015-M3.5x12	AACN-2-0001	AAV-08-M3.5x8	80-T15
A25R SCLCR 12	25	25	23	50	200	17	≥32	CC.. 43.. CC.. 1204..	4020-M4.5x12	AACN-2-0003	AAV-10-M4.5x8	80-T20



Illustrations shown may vary from actual product.

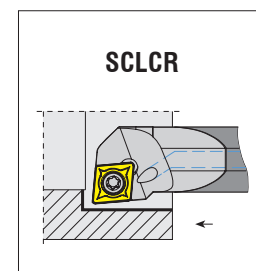
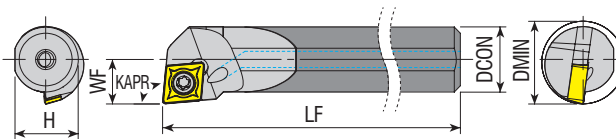


Dimensions in Metric

Ordering Code	DCON	BD	H	LU=OHN	LF	WF	DMIN	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
S0508H SCLCL 03	8	5	7.3	18	100	3	≥6	CC.. 121.. CC.. 0301..	4006-M1.6x3.2	-	-	82-T06
S0608H SCLCL 06	8	6	7.3	25	100	4.5	≥8	CC.. 215.. CC.. 0602..	4008-M2.5x4.5	-	-	82-T08
S08H SCLCL 06	8	8	7.3	20	100	6	≥11	CC.. 215.. CC.. 0602..	4008-M2.5x4.5	-	-	82-T08
S08K SCLCL 06	8	7.5	7.3	20	125	6	≥11	CC.. 215.. CC.. 0602..	4008-M2.5x5	-	-	82-T08
S08M SCLCL 06	8	7.5	7.3	20	150	6	≥11	CC.. 215.. CC.. 0602..	4008-M2.5x5	-	-	82-T08
S10K SCLCL 06	10	10	9	25	125	7	≥13	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
S12K SCLCL 06	12	12	11	25	125	9	≥16	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
S1216P SCLCL 06	16	11.5	14.8	37	170	9	≥16	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
S16P SCLCL 06	16	16	14.8	35	170	11	≥20	CC.. 215.. CC.. 0602..	4008-M2.5x6	-	-	82-T08
S12K SCLCL 09	12	12	11	30	125	9	≥16	CC.. 325.. CC.. 09T3..	4015-M3.5x8	-	-	80-T15
S12M SCLCL 09	12	11.5	11	30	150	9	≥16	CC.. 325.. CC.. 09T3..	4015-M3.5x9	-	-	80-T15
S1416P SCLCL 09	16	14	14.8	45	170	9.5	≥17	CC.. 325.. CC.. 09T3..	4015-M3.5x9	-	-	80-T15
S16P SCLCL 09	16	16	14.8	35	170	11	≥20	CC.. 325.. CC.. 09T3..	4015-M3.5x12	AACN-2-0001	AAV-08-M3.5x8	80-T15
S1620R SCLCL 09	20	16	18.3	50	200	11	≥20	CC.. 325.. CC.. 09T3..	4015-M3.5x12	AACN-2-0001	AAV-08-M3.5x8	80-T15
S16R SCLCL 09	16	15.5	14.8	35	200	11	≥20	CC.. 325.. CC.. 09T3..	4015-M3.5x9	AACN-2-0001	AAV-08-M3.5x8	80-T15
S20R SCLCL 09	20	20	18.3	40	200	13	≥25	CC.. 325.. CC.. 09T3..	4015-M3.5x9	AACN-2-0003	AAV-10-M4.5x8	80-T15
S20S SCLCL 09	20	19.5	18.3	40	250	13	≥25	CC.. 325.. CC.. 09T3..	4015-M3.5x9	AACN-2-0003	AAV-10-M4.5x8	80-T15
S25S SCLCL 09	25	25	23	50	250	17	≥32	CC.. 325.. CC.. 09T3..	4015-M3.5x9	AACN-2-0003	AAV-10-M4.5x8	80-T15
S32T SCLCL 09	32	32	30	60	300	22	≥40	CC.. 325.. CC.. 09T3..	4015-M3.5x9	-	-	80-T15
S25S SCLCL 12	25	25	23	50	250	17	≥32	CC.. 43.. CC.. 1204..	4020-M4.5x12	-	-	80-T20
S32T SCLCL 12	32	32	30	60	300	22	≥40	CC.. 43.. CC.. 1204..	4020-M4.5x12	-	-	80-T20
S40U SCLCL 12	40	40	37.5	70	350	27	≥50	CC.. 43.. CC.. 1204..	1020-M4.5x16	-	-	80-T20
A08H SCLCL 06	8	8	7.3	20	100	6	≥11	CC.. 215.. CC.. 0602..	4008-M2.5x4.5	AACN-2-0001	-	82-T08
A10H SCLCL 06	10	10	9	25	100	7	≥13	CC.. 215.. CC.. 0602..	4008-M2.5x6	AACN-2-0001	-	82-T08
A12H SCLCL 06	12	12	11	25	100	9	≥16	CC.. 215.. CC.. 0602..	4008-M2.5x6	AACN-2-0003	-	82-T08
A16M SCLCL 09	16	16	14.8	35	150	11	≥20	CC.. 325.. CC.. 09T3..	4015-M3.5x9	AACN-2-0001	AAV-08-M3.5x8	80-T15
A20P SCLCL 09	20	20	18.3	40	170	13	≥25	CC.. 325.. CC.. 09T3..	4015-M3.5x9	AACN-2-0001	AAV-08-M3.5x8	80-T15
A25R SCLCL 09	25	25	23	50	200	17	≥32	CC.. 325.. CC.. 09T3..	4015-M3.5x12	AACN-2-0001	AAV-08-M3.5x8	80-T15
A32S SCLCL 09	32	32	30	60	250	22	≥40	CC.. 325.. CC.. 09T3..	4015-M3.5x12	AACN-2-0001	AAV-08-M3.5x8	80-T15
A25R SCLCL 12	25	25	23	50	200	17	≥32	CC.. 43.. CC.. 1204..	4020-M4.5x12	AACN-2-0003	AAV-10-M4.5x8	80-T20



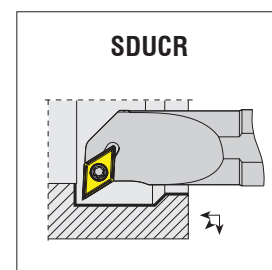
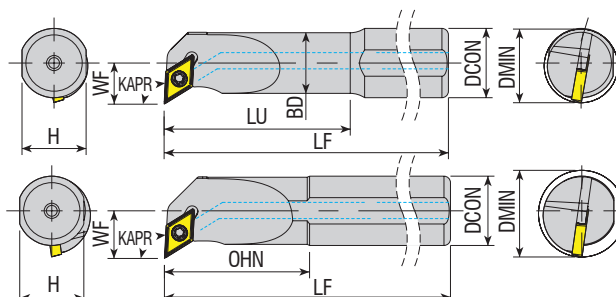
Illustrations shown may vary from actual product.



Dimensions in Inch												
Ordering Code	DCON	H	LF	WF	DMIN	OHN	CNT	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
E06M SCLCR 2	0.370	0.355	6.000	0.250	0.480	-	-	CC.. 2151 CC.. 060204	4008-M2.5x6	-	-	82-T08
E08R SCLCR 2	0.500	0.461	8.000	0.312	0.600	-	-	CC.. 2151 CC.. 060204	4008-M2.5x6	-	-	82-T08
E10R SCLCR 2	0.625	0.563	8.000	0.406	0.770	-	-	CC.. 2151 CC.. 060204	4008-M2.5x6	-	-	82-T08
E12S SCLCR 3	0.750	0.711	10.000	0.500	0.930	-	-	CC.. 3252 CC.. 09T308	4015-M3.5x9	-	-	80-T15
E06M SCLCL 2	0.370	0.355	6.000	0.250	0.480	-	-	CC.. 2151 CC.. 060204	4008-M2.5x6	-	-	82-T08
E12S SCLCL 3	0.750	0.711	10.000	0.500	0.930	-	-	CC.. 3252 CC.. 09T308	4015-M3.5x9	-	-	80-T15



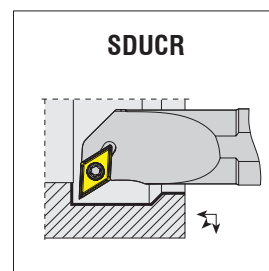
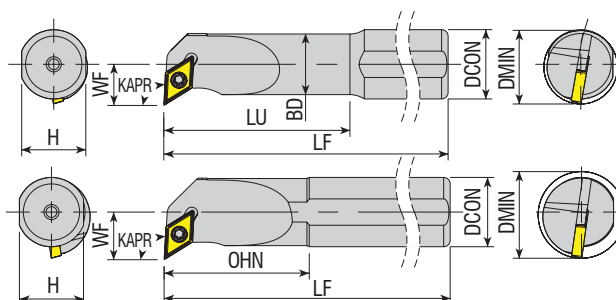
Illustrations shown may vary from actual product.



Dimensions in Inch												
Ordering Code	DCON	H	LF	WF	DMIN	OHN	CNT	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
A06M SDUCR 2	0.370	0.339	6.000	0.375	0.600	1.000	-	DC.. 2151 DC.. 070204	4008-M2.5x6	-	-	82-T08
A08R SDUCR 2	0.500	0.461	8.000	0.437	0.730	1.000	1/16-27 NPT	DC.. 2151 DC.. 070204	4008-M2.5x6	-	-	82-T08
A10S SDUCR 2	0.625	0.563	10.000	0.500	0.850	1.500	1/8-27 NPT	DC.. 2151 DC.. 070204	4008-M2.5x6	-	-	82-T08
A12S SDUCR 3	0.750	0.683	10.000	0.562	0.980	1.500	1/8-27 NPT	DC.. 3252 DC.. 11T308 DC.. 11T308	4015-M3.5x9	-	-	80-T15
A16T SDUCR 3	1.000	0.921	12.000	0.750	1.300	2.000	1/4-18 NPT	DC.. 3252 DC.. 11T308	4015-M3.5x12	AADN-2-0001	AAV-08-M3.5x8	80-T15
A06M SDUCL 2	0.370	0.339	6.000	0.375	0.600	1.000	-	DC.. 2151 DC.. 070204	4008-M2.5x6	-	-	82-T08
A08R SDUCL 2	0.500	0.461	8.000	0.437	0.730	1.000	1/16-27 NPT	DC.. 2151 DC.. 070204	4008-M2.5x6	-	-	82-T08
A10S SDUCL 2	0.625	0.563	10.000	0.500	0.850	1.500	1/8-27 NPT	DC.. 2151 DC.. 070204	4008-M2.5x6	-	-	82-T08
A12S SDUCL 3	0.750	0.683	10.000	0.562	0.980	1.500	1/8-27 NPT	DC.. 3252 DC.. 11T308	4015-M3.5x9	-	-	80-T15
A16T SDUCL 3	1.000	0.921	12.000	0.750	1.300	2.000	1/4-18 NPT	DC.. 3252 DC.. 11T308	4015-M3.5x12	AADN-2-0001	AAV-08-M3.5x8	80-T15



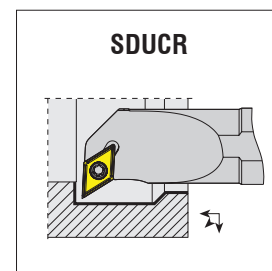
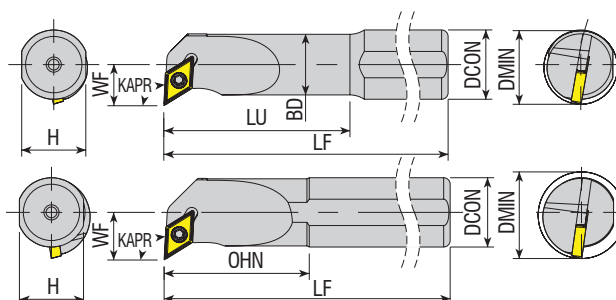
Illustrations shown may vary from actual product.



Dimensions in Metric												
Ordering Code	DCON	BD	H	LU=OHN	LF	WF	DMIN	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
S0810K SDUCR 07	10	8	9	30	125	8	≥13	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
S0810M SDUCR 07	10	9.5	9	30	150	8	≥13	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
S10K SDUCR 07	10	10	9	25	125	8	≥13	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
S12K SDUCR 07	12	12	11	25	125	9	≥16	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
S1216P SDUCR 07	16	11.5	14.8	37	170	9	≥16	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
S1416P SDUCR 07	16	14	14.8	45	170	9.5	≥17	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
S16P SDUCR 07	16	16	14.8	35	170	11	≥20	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
S20R SDUCR 07	20	20	18.3	40	200	13	≥25	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
S1416P SDUCR 11	16	14	14.8	45	170	11	≥18	DC.. 325.. DC.. 11T3..	4015-M3.5x9	-	-	80-T15
S16P SDUCR 11	16	16	14.8	35	170	11	≥20	DC.. 325.. DC.. 11T3..	4015-M3.5x9	-	-	80-T15
S1620R SDUCR 11	20	16	18.3	50	200	11	≥20	DC.. 325.. DC.. 11T3..	4015-M3.5x11	-	-	80-T15
S20R SDUCR 11	20	20	18.3	40	200	13	≥25	DC.. 325.. DC.. 11T3..	4015-M3.5x12	-	-	80-T15
S25S SDUCR 11	25	25	23	50	250	17	≥32	DC.. 325.. DC.. 11T3..	4015-M3.5x14	-	AAV-08-M3.5x8	80-T15
S25T SDUCR 11	25	25	23	50	300	17	≥32	DC.. 325.. DC.. 11T3..	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
S32T SDUCR 11	32	32	30	60	300	22	≥40	DC.. 325.. DC.. 11T3..	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
S40U SDUCR 11	40	40	37.5	70	350	27	≥50	DC.. 325.. DC.. 11T3..	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
S50V SDUCR 11	50	50	47	80	400	35	≥63	DC.. 325.. DC.. 11T3..	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
A0810H SDUCR 07	10	8	9	30	100	8	≥13	DC.. 215.. DC.. 0702..	4008-M2.5x6	AADN-2-0001	AAV-06-M3.5x11	82-T08
A10H SDUCR 07	10	10	9	25	100	8	≥13	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
A12H SDUCR 07	12	12	11	25	100	9	≥16	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
A16M SDUCR 07	16	16	14.8	35	150	11	≥20	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
A20P SDUCR 07	20	20	18.3	40	170	13	≥25	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
A16M SDUCR 11	16	16	14.8	35	150	11	≥20	DC.. 325.. DC.. 11T3..	4015-M3.5x9	-	-	80-T15
A20P SDUCR 11	20	20	18.3	40	170	13	≥25	DC.. 325.. DC.. 11T3..	4015-M3.5x11	-	AAV-08-M3.5x8	80-T15
A25R SDUCR 11	25	25	23	50	200	17	≥32	DC.. 325.. DC.. 11T3..	4015-M3.5x12	AADN-2-0001	AAV-08-M3.5x8	80-T15
A25T SDUCR 11	25	25	23	50	300	17	≥32	DC.. 325.. DC.. 11T3..	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
A32S SDUCR 11	32	32	30	60	250	22	≥40	DC.. 325.. DC.. 11T3..	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
A50U SDUCR 11	50	50	47	80	350	35	≥63	DC.. 325.. DC.. 11T3..	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15

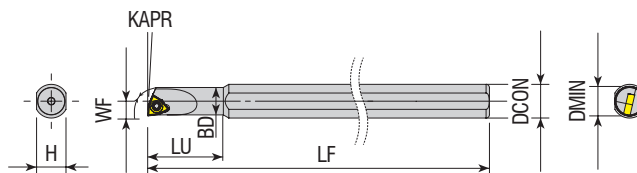


Illustrations shown may vary from actual product.

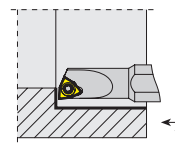


Dimensions in Metric												
Ordering Code	DCON	BD	H	LU=OHN	LF	WF	DMIN	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
S0810K SDUCL 07	10	8	9	30	125	8	≥13	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
S0810M SDUCL 07	10	9.5	9	30	150	8	≥13	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
S10K SDUCL 07	10	10	9	25	125	8	≥13	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
S12K SDUCL 07	12	12	11	25	125	9	≥16	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
S1216P SDUCL 07	16	11.5	14.8	37	170	9	≥16	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
S1416P SDUCL 07	16	14	14.8	45	170	9.5	≥17	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
S16P SDUCL 07	16	16	14.8	35	170	11	≥20	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
S20R SDUCL 07	20	20	18.3	40	200	13	≥25	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
S1416P SDUCL 11	16	14	14.8	45	170	11	≥18	DC.. 325.. DC.. 11T3..	4015-M3.5x9	-	-	80-T15
S16P SDUCL 11	16	16	14.8	35	170	11	≥20	DC.. 325.. DC.. 11T3..	4015-M3.5x9	-	-	80-T15
S1620R SDUCL 11	20	16	18.3	50	200	11	≥20	DC.. 325.. DC.. 11T3..	4015-M3.5x11	-	-	80-T15
S20R SDUCL 11	20	20	18.3	40	200	13	≥25	DC.. 325.. DC.. 11T3..	4015-M3.5x12	-	-	80-T15
S25S SDUCL 11	25	25	23	50	250	17	≥32	DC.. 325.. DC.. 11T3..	4015-M3.5x14	-	AAV-08-M3.5x8	80-T15
S25T SDUCL 11	25	25	23	50	300	17	≥32	DC.. 325.. DC.. 11T3..	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
S32T SDUCL 11	32	32	30	60	300	22	≥40	DC.. 325.. DC.. 11T3..	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
S40U SDUCL 11	40	40	37.5	70	350	27	≥50	DC.. 325.. DC.. 11T3..	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
S50V SDUCL 11	50	50	47	80	400	35	≥63	DC.. 325.. DC.. 11T3..	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
A0810H SDUCL 07	10	8	9	30	100	8	≥13	DC.. 215.. DC.. 0702..	4008-M2.5x6	AADN-2-0001	AAV-06-M3.5x11	82-T08
A10H SDUCL 07	10	10	9	25	100	8	≥13	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
A12H SDUCL 07	12	12	11	25	100	9	≥16	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
A16M SDUCL 07	16	16	14.8	35	150	11	≥20	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
A20P SDUCL 07	20	20	18.3	40	170	13	≥25	DC.. 215.. DC.. 0702..	4008-M2.5x6	-	-	82-T08
A16M SDUCL 11	16	16	14.8	35	150	11	≥20	DC.. 325.. DC.. 11T3..	4015-M3.5x9	-	-	80-T15
A20P SDUCL 11	20	20	18.3	40	170	13	≥25	DC.. 325.. DC.. 11T3..	4015-M3.5x11	-	AAV-08-M3.5x8	80-T15
A25R SDUCL 11	25	25	23	50	200	17	≥32	DC.. 325.. DC.. 11T3..	4015-M3.5x12	AADN-2-0001	AAV-08-M3.5x8	80-T15
A25T SDUCL 11	25	25	23	50	300	17	≥32	DC.. 325.. DC.. 11T3..	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
A32S SDUCL 11	32	32	30	60	250	22	≥40	DC.. 325.. DC.. 11T3..	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15
A50U SDUCL 11	50	50	47	80	350	35	≥63	DC.. 325.. DC.. 11T3..	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	80-T15

KAPR=93°



SWUBR



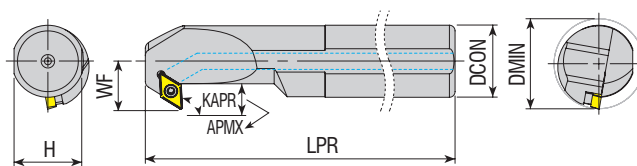
Illustrations shown may vary from actual product.

Dimensions in Metric

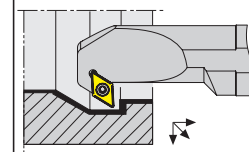


Ordering Code	DCON	BD	H	LU	LF	DMIN	WF	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
S0610H SWUBR 06	10	5	7.3	18	100	≥6	3	WBGT 310.5-R WBGT 060102-R	3006-M2x3.3	-	-	82-T06
S08H SWUBR 06-5.5	8	5	7.3	18	100	≥5.7	2.75	WBGT 310.5-R WBGT 060102-R	3006-M2x3.3	-	-	82-T06
S08H SWUBR 06-7	8	6.5	7.3	18	100	≥7	3.5	WBGT 310.5-R WBGT 060102-R	3006-M2x4	-	-	82-T06
S0610H SWUBL 06	10	5	7.3	18	100	≥6	3	WBGT 310.5-L WBGT 060102-L	3006-M2x3.3	-	-	82-T06
S08H SWUBL 06-5.5	8	5	7.3	18	100	≥5.7	2.75	WBGT 310.5-L WBGT 060102-L	3006-M2x3.3	-	-	82-T06
S08H SWUBL 06-7	8	6.5	7.3	18	100	≥7	3.5	WBGT 310.5-L WBGT 060102-L	3006-M2x4	-	-	82-T06

KAPR=93°



SDXCR

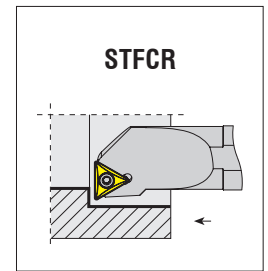
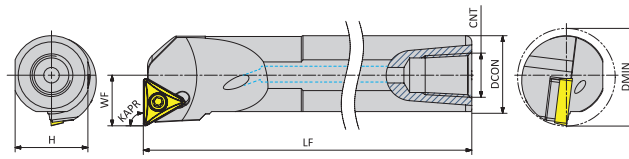


Illustrations shown may vary from actual product.

Dimensions in Inch



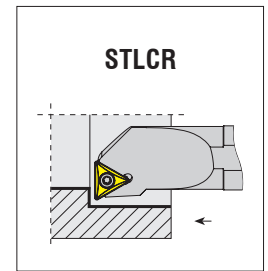
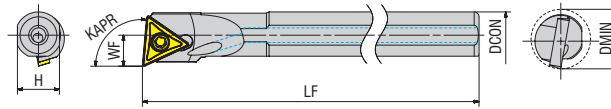
Ordering Code	DCON	H	LF	LPR	APMX	WF	DMIN	OHN	CNT	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
A08R SDXCR 2	0.500	0.461	8.000	8.500	0.187	0.437	0.730	1.500	1/16-27 NPT	DC.. 2151 DC.. 070204	4008-M2.5x6	-	-	82-T08
A12S SDXCR 3	0.750	0.683	10.000	10.630	0.187	0.562	0.980	2.000	1/8-27 NPT	DC.. 3252 DC.. 11T308	4015-M3.5x9	-	-	80-T15
A16T SDXCR 3	1.000	0.921	12.000	12.630	0.250	0.750	1.300	2.500	1/4-18 NPT	DC.. 3252 DC.. 11T308	4015-M3.5x14	AADN-2-0001	AAV-08-M3.5x8	80-T15
A08R SDXCL 2	0.500	0.461	8.000	8.500	0.187	0.437	0.730	1.500	1/16-27 NPT	DC.. 2151 DC.. 070204	4008-M2.5x6	-	-	82-T08
A16T SDXCL 3	1.000	0.921	12.000	12.630	0.250	0.750	1.300	2.500	1/4-18 NPT	DC.. 3252 DC.. 11T308	4015-M3.5x14	AADN-2-0001	AAV-08-M3.5x8	80-T15



Illustrations shown may vary from actual product.

Dimensions in Inch												
Ordering Code	DCON	H	LF	WF	DMIN	OHN	CNT	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
A06M STFCR 2	0.370	0.339	6.000	0.250	0.480	1.000	-	TC.. 2151 TC.. 110204	4008-M2.5x6	-	-	82-T08
A08R STFCR 2	0.500	0.461	8.000	0.312	0.600	1.000	1/16-27 NPT	TC.. 2151 TC.. 110204	4008-M2.5x6	-	-	82-T08
A10S STFCR 2	0.625	0.563	10.000	0.406	0.770	1.500	1/8-27 NPT	TC.. 2151 TC.. 110204	4008-M2.5x6	-	-	82-T08
A12S STFCR 3	0.750	0.683	10.000	0.500	0.930	1.500	1/8-27 NPT	TC.. 3252 TC.. 16T308	4015-M3.5x11	-	-	80-T15
A16T STFCR 3	1.000	0.921	12.000	0.640	1.200	2.000	1/4-18 NBT	TC.. 3252 TC.. 16T308	4015-M3.5x14	AATN-2-0001	AAV-08-M3.5x8	80-T15
A08R STFCL 2	0.500	0.461	8.000	0.312	0.600	1.000	1/16-27 NPT	TC.. 2151 TC.. 110204	4008-M2.5x6	-	-	82-T08
A12S STFCL 3	0.750	0.683	10.000	0.500	0.930	1.500	1/8-27 NPT	TC.. 3252 TC.. 16T308	4015-M3.5x11	-	-	80-T15
A16T STFCL 3	1.000	0.921	12.000	0.640	1.200	2.000	1/4-18 NBT	TC.. 3252 TC.. 16T308	4015-M3.5x14	AATN-2-0001	AAV-08-M3.5x8	80-T15





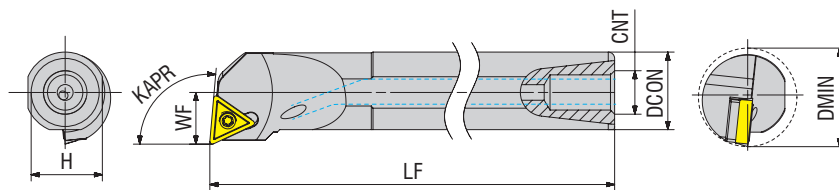
Illustrations shown may vary from actual product.

Dimensions in Inch												
Ordering Code	DCON	H	LF	WF	DMIN	OHN	CNT	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
A06M STLCR 2	0.370	0.339	6.000	0.250	0.480	1.000	-	TC.. 2151 TC.. 110204	4008-M2.5x6	-	-	82-T07
A08R STLCR 2	0.500	0.461	8.000	0.312	0.600	1.000	1/16-27 NPT	TC.. 2151 TC.. 110204	4008-M2.5x6	-	-	82-T07
A10S STLCR 2	0.625	0.563	10.000	0.406	0.770	1.500	1/8-27 NPT	TC.. 2151 TC.. 110204	4008-M2.5x6	-	-	82-T07
A12S STLCL 3	0.750	0.683	10.000	0.500	0.930	1.500	1/8-27 NPT	TC.. 3252 TC.. 16T308	4015-M3.5x11			80-T15
A16T STLCL 3	1.000	0.921	12.000	0.640	1.200	2.000	1/4-18 NPT	TC.. 3252 TC.. 16T308	4015-M3.5x11	AATN-2-0001	AAV-08-M3.5x8	80-T15
A06M STLCL 2	0.370	0.339	6.000	0.250	0.480	1.000	-	TC.. 2151 TC.. 110204	4008-M2.5x6	-	-	82-T07
A08R STLCL 2	0.500	0.461	8.000	0.312	0.600	1.000	1/16-27 NPT	TC.. 2151 TC.. 110204	4008-M2.5x6	-	-	82-T07
A10S STLCL 2	0.625	0.563	10.000	0.406	0.770	1.500	1/8-27 NPT	TC.. 2151 TC.. 110204	4008-M2.5x6	-	-	82-T07
A12S STLCL 3	0.750	0.683	10.000	0.500	0.930	1.575	1/8-27 NPT	TC.. 3252 TC.. 16T308	4015-M3.5x11			80-T15
A16T STLCL 3	1.000	0.921	12.000	0.640	1.200	2.000	1/4-18 NPT	TC.. 3252 TC.. 16T308	4015-M3.5x11	AATN-2-0001	AAV-08-M3.5x8	80-T15





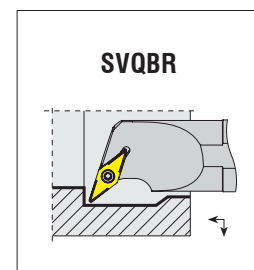
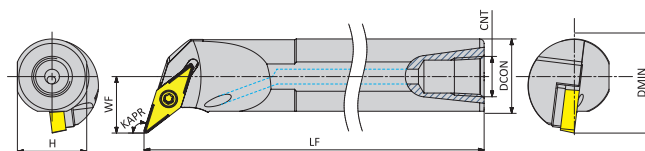
Illustrations shown may vary from actual product.



Dimensions in Inch												
Ordering Code	DCON	H	LF	WF	DMIN	OHN	CNT	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
A06M STLPR 2	0.370	0.339	6.000	0.250	0.480	1.000	-	TP. 2151	4008-M2.5x6	-	-	82-T08
A08R STLPR 2	0.500	0.461	8.000	0.312	0.600	1.000	1/16-27 NPT	TP. 2151	4008-M2.5x6	-	-	82-T08
A10S STLPR 2	0.625	0.563	10.000	0.406	0.770	1.500	1/8-27 NPT	TP. 2151	4008-M2.5x6	-	-	82-T08
A12S STLPR 3	0.750	0.683	10.000	0.500	0.930	1.500	1/8-27 NPT	TP. 3252	4015-M3.5x11	-	-	80-T15
A16T STLPR 3	1.000	0.921	12.000	0.640	1.220	2.000	1/4-18 NBT	TP. 3252	4015-M3.5x11	AATN-2-0001	AAV-08-M3.5x8	80-T15
A06M STLPL 2	0.370	0.339	6.000	0.250	0.480	1.000	-	TP. 2151	4008-M2.5x6	-	-	82-T08
A08R STLPL 2	0.500	0.461	8.000	0.312	0.600	1.000	1/16-27 NPT	TP. 2151	4008-M2.5x6	-	-	82-T08
A10S STLPL 2	0.625	0.563	10.000	0.406	0.770	1.500	1/8-27 NPT	TP. 2151	4008-M2.5x6	-	-	82-T08
A12S STLPL 3	0.750	0.683	10.000	0.500	0.930	1.500	1/8-27 NPT	TP. 3252	4015-M3.5x11			80-T15



Illustrations shown may vary from actual product.

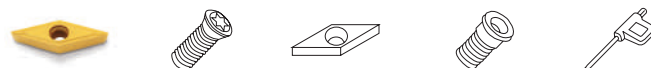
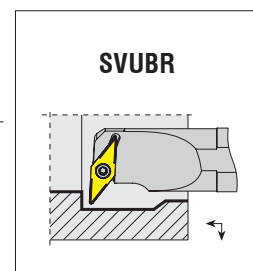
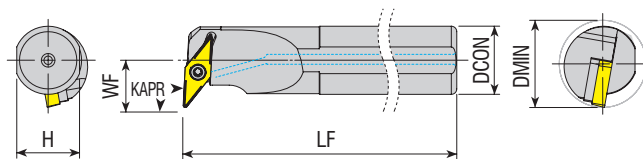


Dimensions in Inch												
Ordering Code	DCON	H	LF	WF	DMIN	OHN	CNT	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
A10S SVQBR 2	0.625	0.563	10.000	0.500	0.850	1.500	1/8-27 NPT	VB.. 221 VB.. 110304	4008-M2.5x6	-	-	82-T08
A12S SVQBR 2	0.750	0.683	10.000	0.562	0.930	1.500	1/8-27 NPT	VB.. 221 VB.. 110304	4008-M2.5x6	-	-	82-T08
A16T SVQBR 3	1.000	0.921	12.000	0.750	1.300	2.000	1/4-18 NBT	VB.. 332 VB.. 160408	4015-M3.5x11	AAVN-2-0002	AAV-08-M3.5x8	82-T15
A10S SVQBL 2	0.625	0.563	10.000	0.500	0.850	1.500	1/8-27 NPT	VB.. 221 VB.. 110304	4008-M2.5x6	-	-	82-T08
A12S SVQBL 2	0.750	0.683	10.000	0.562	0.930	1.500	1/8-27 NPT	VB.. 221 VB.. 110304	4008-M2.5x6	-	-	82-T08
A16T SVQBL 3	1.000	0.921	12.000	0.750	1.300	2.000	1/4-18 NBT	VB.. 332 VB.. 160408	4015-M3.5x11	AAVN-2-0002	AAV-08-M3.5x8	82-T15



Illustrations shown may vary from actual product.

Dimensions in Inch

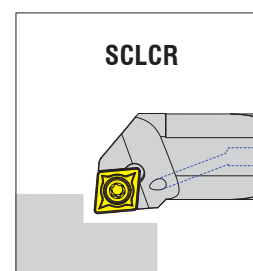
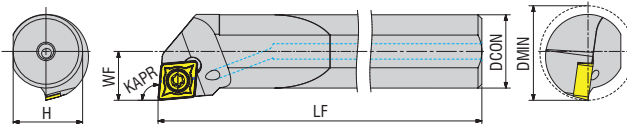


Ordering Code	DCON	H	LF	WF	DMIN	OHN	CNT	Insert Inch/Metric	Screw	Shim	Shim Screw	Torx Key
A12S SVUBR 2	0.750	0.683	10.000	0.562	0.980	1.500	1/8-27 NPT	VB.. 221 VB.. 110304	4008-M2.5x6	-	-	82-T08
A16T SVUBR 3	1.000	0.921	12.000	0.750	1.300	2.000	1/4-18 NPT	VB.. 332 VB.. 160408	4015-M3.5x14	AAVN-2-0002	AAV-06-M3.5x11	82-T15
A12S SVUBL 2	0.750	0.683	10.000	0.562	0.980	1.500	1/8-27 NPT	VB.. 221 VB.. 110304	4008-M2.5x6	-	-	82-T08
A16T SVUBL 3	1.000	0.921	12.000	0.750	1.300	2.000	1/4-18 NPT	VB.. 332 VB.. 160408	4015-M3.5x14	AAVN-2-0002	AAV-06-M3.5x11	82-T15



Illustrations shown may vary from actual product.

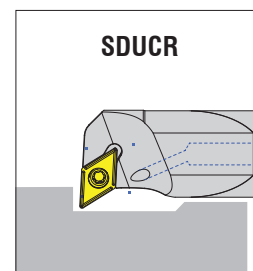
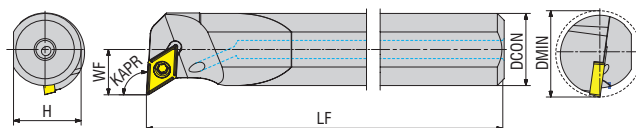
Dimensions in Inch



Ordering Code	Dcon	H	LF	WF	DMIN	Insert Inch/Metric	Screw	Torx Key
E04H SCLCR 2	0.250	0.230	4.000	0.117	0.334	CC.. 2151 CC.. 060204..	4008-M2.5X4.5	82-T08
E05K SCLCR 2	0.312	0.280	5.000	0.117	0.354	CC.. 2151 CC.. 060204..	4008-M2.5X4.5	82-T08
E06M SCLCR 2	0.370	0.355	6.000	0.250	0.480	CC.. 2151 CC.. 060204..	4008-M2.5x6	82-T08
E08R SCLCR 2	0.500	0.461	8.000	0.312	0.600	CC.. 2151 CC.. 060204..	4008-M2.5x6	82-T08
E08R SCLCR 3	0.500	0.461	8.000	0.312	0.625	CC.. 3252 CC.. 09T308..	4015-M3.5x9	82-T15
E10R SCLCR 3	0.625	0.588	8.000	0.406	0.750	CC.. 3252 CC.. 09T308..	4015-M3.5x9	82-T15
E12S SCLCR 3	0.750	0.771	10.000	0.500	0.930	CC.. 3252 CC.. 09T308..	4015-M3.5x9	82-T15
E04H SCLCL 2	0.250	0.230	4.000	0.117	0.334	CC.. 2151 CC.. 060204..	4008-M2.5X4.5	82-T08
E05K SCLCL 2	0.312	0.280	5.000	0.117	0.354	CC.. 2151 CC.. 060204..	4008-M2.5X4.5	82-T08
E06M SCLCL 2	0.370	0.355	6.000	0.250	0.480	CC.. 2151 CC.. 060204..	4008-M2.5x6	82-T08
E08R SCLCL 2	0.500	0.461	8.000	0.312	0.600	CC.. 2151 CC.. 060204..	4008-M2.5x6	82-T08
E08R SCLCL 3	0.500	0.461	8.000	0.312	0.625	CC.. 3252 CC.. 09T308..	4015-M3.5x9	82-T15
E10R SCLCL 3	0.625	0.588	8.000	0.406	0.750	CC.. 3252 CC.. 09T308..	4015-M3.5x9	82-T15
E12S SCLCL 3	0.750	0.771	10.000	0.500	0.930	CC.. 3252 CC.. 09T308..	4015-M3.5x9	82-T15



Illustrations shown may vary from actual product.



Dimensions in Inch

Ordering Code	Dcon	H	LF	WF	DMIN	Insert Inch/Metric	Screw	Torx Key
E06M SDUCR 2	0.370	0.355	6.000	0.250	0.500	DC.. 2151 DC.. 070204	4008-M2.5x6	82-T08
E08R SDUCR 2	0.500	0.461	8.000	0.313	0.625	DC.. 2151 DC.. 070204	4008-M2.5x6	82-T08
E10R SDUCR 2	0.625	0.605	8.000	0.406	0.625	DC.. 2151 DC.. 070204	4008-M2.5x6	82-T08
E06M SDUCL 2	0.370	0.355	6.000	0.250	0.500	DC.. 2151 DC.. 070204	4008-M2.5x6	82-T08
E08R SDUCL 2	0.500	0.461	8.000	0.313	0.625	DC.. 2151 DC.. 070204	4008-M2.5x6	82-T08
E10R SDUCL 2	0.625	0.605	8.000	0.406	0.625	DC.. 2151 DC.. 070204	4008-M2.5x6	82-T08

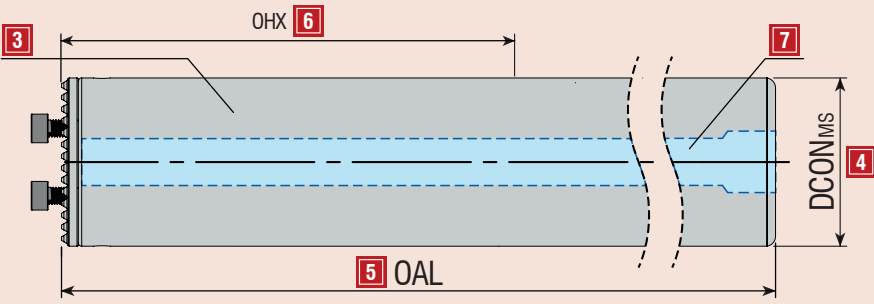
*the spoken
quality...*

ANTI VIBRATION TOOLS



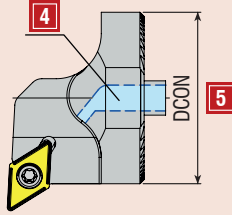
AKKO **A** **TT** **B** **D16** **204** **10D** **H** **E**

1 2 3 4 5 6 7 8

2 Tool Type	3 Body 4 Connection Diameter 5 Overall length 6 Overhang maximum 7 With Coolant Hole
Anti Vibration Tool	
8 Type of Boring Bar	
Carbide reinforced	

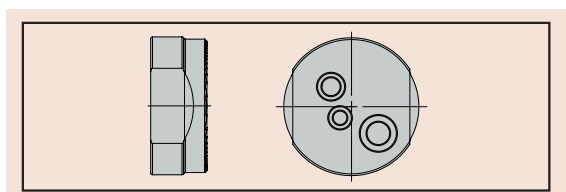
AKKO **A** **TT** **C** **A** **16** **SDUCR11**

1 2 3 4 5 6

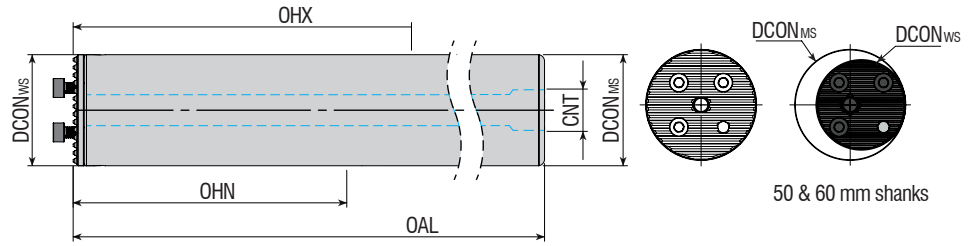
2 Tool Type	3 Cartridge Code	4 With Coolant Hole	5 Connection Diameter
Anti Vibration Tool Cartridge	Cartridge	With Coolant Hole	Ø16 - Ø20 - Ø25 Ø32 - Ø40
6 Cartridge Type			
SDUCR/L. SCLCR/L. SVUCR/L. TCLNR/L. TDUNR/L			

AKKO **A** **TT** **C** **16-25**

1 2 3 4

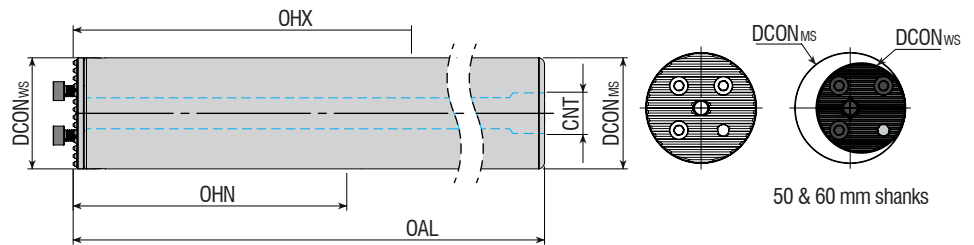


2 Tool Type	3 Cartridge	4 Usable diameter range for body
Anti Vibration Tool Cartridge	Centering Cartridge Code	ATTB-D16/D20/D25 ATTB-D32/D40/D50/D60



Dimensions in Inch

Ordering Code	DCONMS	DCONWS	OAL	OHN	OHX	CNT	DMIN	DCON	Shim Screw	Mounting Screw Key
ATTB-D16-10-7D-H	1.000	0.984	10.039	3.346	6.220	G1/4	1.2598	0.9842	2525-M3X10	AAL-02-2.5
ATTB-D20-12-7D-H	1.250	1.260	12.598	3.937	7.480	G3/8	1.5748	1.2598	2503-M3.5x10	AAL-02-2.5
ATTB-D32-21-7D-H	2.000	1.575	20.74	6.811	12.756	G1/2	1.9685	1.5748	2504-M5x12	AAL-05-4



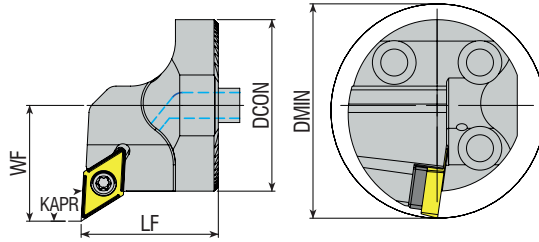
Dimensions in Metric/Inch

Ordering Code	DCONMS METRIC/INCH	DCONWS METRIC/INCH	OAL METRIC/INCH	OHN METRIC/INCH	OHX METRIC/INCH	CNT METRIC/INCH	DMIN / DCON INCH / METRIC	Shim Screw	Mounting Screw Key
ATTB-D16-156-7D-H	20 / 0.787	20 / 0.787	200 / 7.874	70 / 2.756	120 / 4.724	G1/4	25 / 0.984 20 / 0.787	2525-M3X10	AAL-02-2.5
ATTB-D20-200-7D-H	25 / 0.984	25 / 0.984	255 / 10.039	88 / 3.465	158 / 6.220	G1/4	32 / 1.260 25 / 0.984	2503-M3.5x10	AAL-02-2.5
ATTB-D25-255-7D-H	32 / 1.260	32 / 1.260	320 / 12.598	100 / 3.937	192 / 7.559	G3/8	40 / 1.575 32 / 1.260	2503-M4X12	AAL-03-3
ATTB-D32-320-7D-H	32 / 1.260	32 / 1.260	416 / 16.378	192 / 7.559	288 / 11.339	G3/8	40 / 1.575 32 / 1.260	2504-M5x12	AAL-05-4
ATTB-D40-408-7D-H	40 / 1.575	40 / 1.575	408 / 16.063	128 / 5.039	248 / 9.764	G1/2	50 / 1.969 40 / 1.575	2505-M6X16	AAL-07-5
ATTB-D50-519-7D-H	50 / 1.969	50 / 1.969	519 / 20.433	168 / 6.614	318 / 12.520	G1/2	63 / 2.480 50 / 1.969	2505-M6X16	AAL-07-5
ATTB-D60-628-7D-H	60 / 2.362	60 / 2.362	628 / 24.724	208 / 8.189	388 / 15.276	G3/4	80 / 3.150 60 / 2.362	2505-M6X16	AAL-07-5

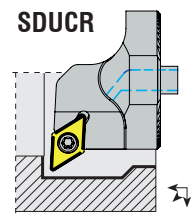
KAPR=93°



Illustrations shown may vary from actual product.



SDUCR



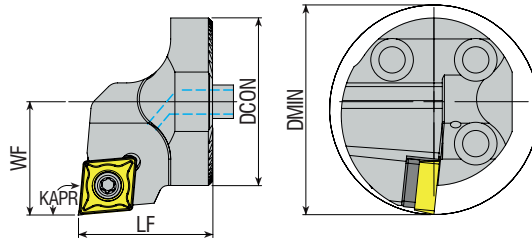
Dimensions in Metric/Inch

Ordering Code	DCON METRIC/INCH	LF METRIC/INCH	WF METRIC/INCH	DMIN METRIC/INCH	Insert Inch/Metric	Screw	Shim	Shim Screw	Connection Part	Torx Key
ATTC-A16 SDUCR/L 07	16 / 0.625	20 / 0.787	11 / 0.433	20 / 0.787	DC..215 DC.. 0702..	4008-M2.5x6	-	-	ACP-02	82-T08
ATTC-A20 SDUCR/L 11	20 / 0.787	20 / 0.787	13 / 0.512	25 / 0.984	DC..325 DC.. 11T3..	4015-M3.5x11	-	-	ACP-02	82-T08
ATTC-A25 SDUCR/L 11	25 / 0.984	23 / 0.905	17 / 0.669	32 / 1.260	DC..325 DC.. 11T3..	4015-M3.5x12	AADN-2-0001	AAV-08-M3.5x8	ACP-01	80-T15
ATTC-A32 SDUCR/L 11	32 / 1.260	32 / 1.260	22 / 0.866	40 / 1.575	DC..325 DC.. 11T3..	4015-M3.5x11	AADN-2-0001	AAV-06-M3.5x11	ACP-01	80-T15
ATTC-A40 SDUCR/L 11	40 / 1.575	32 / 1.260	27 / 1.063	50 / 1.969	DC..325 DC.. 11T3..	4015-M3.5x14	AADN-2-0001	AAV-06-M3.5x11	ACP-01	80-T15

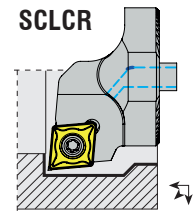
KAPR=95°



Illustrations shown may vary from actual product.



SCLCR



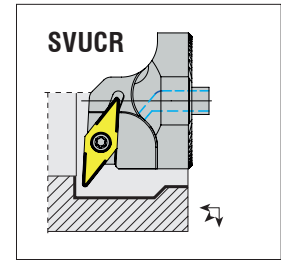
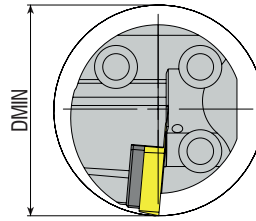
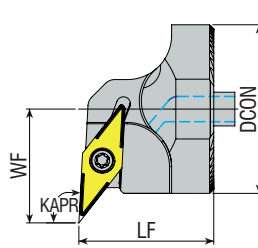
Dimensions in Metric/Inch

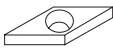
Ordering Code	DCON METRIC/INCH	LF METRIC/INCH	WF METRIC/INCH	DMIN METRIC/INCH	Insert Inch/Metric	Screw	Shim	Shim Screw	Connection Part	Torx Key
ATTC-A16 SCLCR/L 06	16 / 0.625	20 / 0.787	11 / 0.433	20 / 0.787	CC..215 CC.. 0602..	4008-M2.5x6	-	-	ACP-02	82-T08
ATTC-A20 SCLCR/L 09	20 / 0.787	20 / 0.787	13 / 0.512	25 / 0.984	CC..325 CC.. 09T3..	4015-M3.5x9	-	-	ACP-02	82-T08
ATTC-A25 SCLCR/L 09	25 / 0.984	23 / 0.905	17 / 0.669	32 / 1.260	CC..325 CC.. 09T3..	4015-M3.5x12	AACN-2-0001	AAV-08-M3.5x8	ACP-01	80-T15
ATTC-A32 SCLCR/L 09	32 / 1.260	32 / 1.260	22 / 0.866	40 / 1.575	CC..325 CC.. 09T3..	4015-M3.5x12	AACN-2-0001	AAV-08-M3.5x8	ACP-01	80-T15
ATTC-A40 SCLCR/L 09	40 / 1.575	32 / 1.260	27 / 1.063	50 / 1.969	CC..325 CC.. 09T3..	4015-M3.5x12	AACN-2-0003	AAV-08-M3.5x8	ACP-01	80-T20

KAPR=93°



Illustrations shown may vary from actual product.

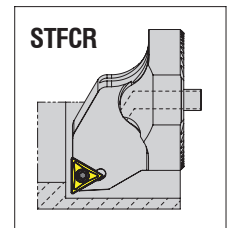
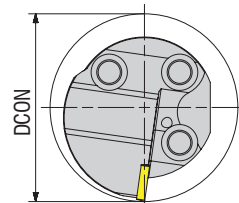
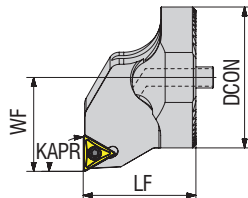


Dimensions in Metric/Inch										
Ordering Code	DCON METRIC/INCH	LF METRIC/INCH	WF METRIC/INCH	DMIN METRIC/INCH	Insert Inch/Metric	Screw	Shim	Shim Screw	Connection Part	Torx Key
ATTC-A20 SVUCR/L 11	20 / 0.787	20 / 0.787	15 / 0.590	27 / 1.063	VC..22.. VC.. 1103..	4008-M2.5x6	-	-	ACP-02	82-T08
ATTC-A25 SVUCR/L 11	25 / 0.984	23 / 0.905	17 / 0.669	32 / 1.260	VC..22.. VC.. 1103..	4008-M2.5x6	-	-	ACP-02	82-T08
ATTC-A32 SVUCR/L 16	32 / 1.260	32 / 1.260	22 / 0.866	40 / 1.575	VC..33.. VC.. 1604..	4015-M3.5x14	AAVN-2-0002		ACP-01	82-T08
ATTC-A40 SVUCR/L 16	40 / 1.575	32 / 1.260	27 / 1.063	50 / 1.969	VC..33.. VC.. 1604..	4015-M3.5x14	AAVN-2-0002	AAV-06-M3.5x11	ACP-01	82-T08

KAPR=90°



Illustrations shown may vary from actual product.

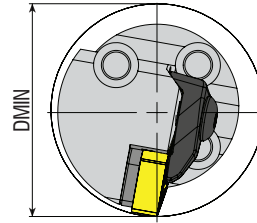
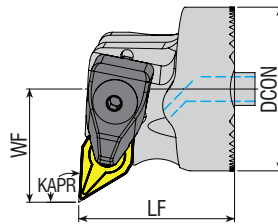


Dimensions in Metric/Inch										
Ordering Code	DCON METRIC/INCH	LF METRIC/INCH	WF METRIC/INCH	DMIN METRIC/INCH	Insert Inch/Metric	Screw	Shim	Shim Screw	Connection Part	Torx Key
ATTC-A20 STFCR/L 11	20 / 0.787	20 / 0.787	13 / 0.512	25 / 0.984	TC.. 215.. TC.. 1102..	4008-M2.5X6	TC.. 1102..	-	ACP-02	82-T08
ATTC-A40 STFCR/L 11	40 / 1.575	32 / 1.260	27 / 1.063	50 / 1.969	TC.. 215.. TC.. 1102..	4008-M2.5X6	TC.. 1102..	-	ACP-01	82-T08

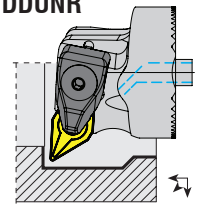
KAPR=93°



Illustrations shown may vary from actual product.



DDUNR



Dimensions in Metric/Inch

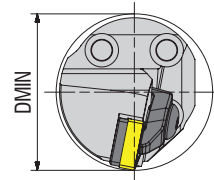
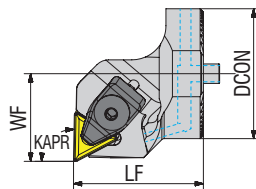


Ordering Code	DCON Inch/Metric	LF Inch/Metric	WF Inch/Metric	DMIN Inch/Metric	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Connection Part	Torx Key
ATTC-A32 DDUNR/L 11	32 / 1.260	32 / 1.260	22 / 0.866	40 / 1.575	DN..33.. DN.. 1104..	ATK-01	AKV-01-M5x22	AADN -2-0001	AAV-04-M5x12	AS-01	ABPL-01	ACP-01	AAL-03-3
ATTC-A40 DDUNR/L 15	40 / 1.575	32 / 1.260	27 / 1.063	50 / 1.969	DN..44.. DN.. 1506..	ATK-02	AKV-30-M6x22	AADN -3-0001	AAV-02-M5x12	AS-01	ABPL-01	ACP-01	AAL-03-3

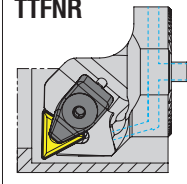
KAPR=90°



Illustrations shown may vary from actual product.



TTFNR

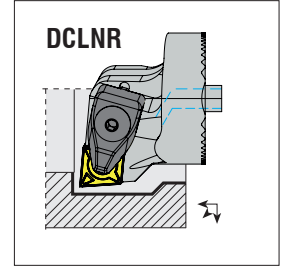
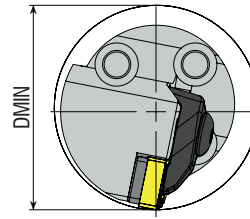
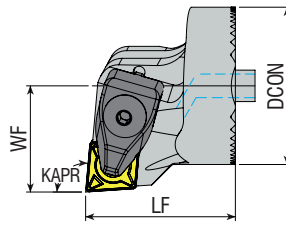


Dimensions in Metric/Inch



Ordering Code	DCON Inch/Metric	LF Inch/Metric	WF Inch/Metric	DMIN Inch/Metric	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Stamp	Connection Part	Allen Key
ATTC-A40 DTFNR/L 16	40 / 1.575	40 / 1.575	27 / 1.063	50 / 1.969	TN.. 33.. TN.. 1604..	ATK-01	AKV-01-M5X22	AATN-2-0002	AAV-03-M5X12	ABPL-01	ACP-01	AAL-03-3

KAPR=95°



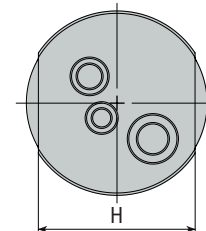
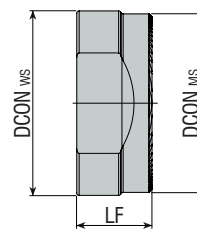
Illustrations shown may vary from actual product.

Dimensions in Metric/Inch

Ordering Code	DCON Inch/Metric	LF Inch/Metric	WF Inch/Metric	DMIN Inch/Metric	Insert Inch/Metric	Wedge Clamp	Clamp Screw	Shim	Shim Screw	Ring	Stamp	Connection Part	Allen Key
ATTC-A32 DCLNR/L 12	32 / 1.260	32 / 1.260	22 / 0.866	40 / 1.575	CN.. 43.. CN.. 1204..	ATK-02	AKV-30-M6x22	AACN -3-0001	AAV-02-M5x12	AS-01	ABPL-01	ACP-01	AAL-03-3
ATTC-A40 DCLNR/L 12	40 / 1.575	32 / 1.260	27 / .1063	50 / 1.969	CN.. 43.. CN.. 1204..	ATK-02	AKV-30-M6x22	AACN -3-0001	AAV-02-M5x12	AS-01	ABPL-01	ACP-01	AAL-03-3



Illustrations shown may vary from actual product.



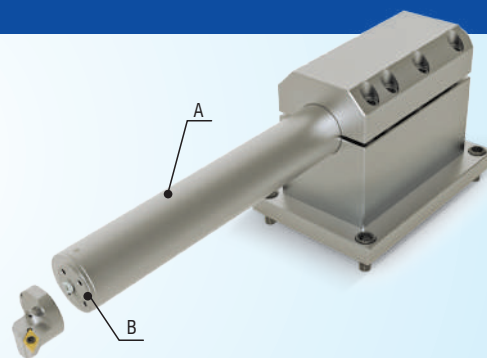
Dimensions in Metric/Inch

Boring Bars

Ordering Code	DCONWS Inch/Metric	DCONMS Inch/Metric	LF Inch/Metric	H Inch/Metric	
ATTC-16-25	28 / 1.102	25 / 0.984	15 / 0.590	22 / 0.866	ATTB-D16/D20/D25
ATTC-32-60	53 / 2.087	40 / 1.575	20 / 0.787	35 / 1.780	ATTB-D32/D40/D50/D60

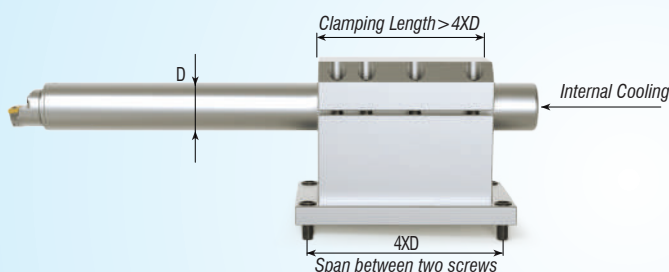
1 Assembly and Adjusting

The surface of the cartridge and the shank to be mounted, as well as the inner part of the toolholder should be cleaned. Check A and B in the image below.

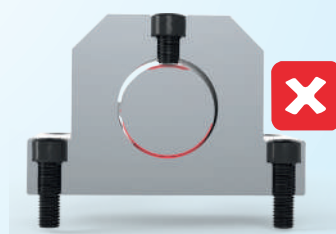
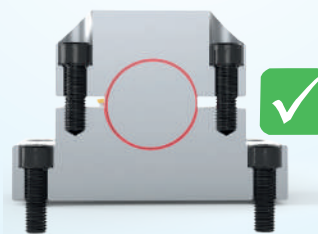


2 Assembly for the Shank

The clamping length should not be less than 4 L/D ratio. Suggest using the clamping cover with opening method and other holding clamping methods. (Type C). Do not use screw clamping method. Use inner cooling please when working a long time.

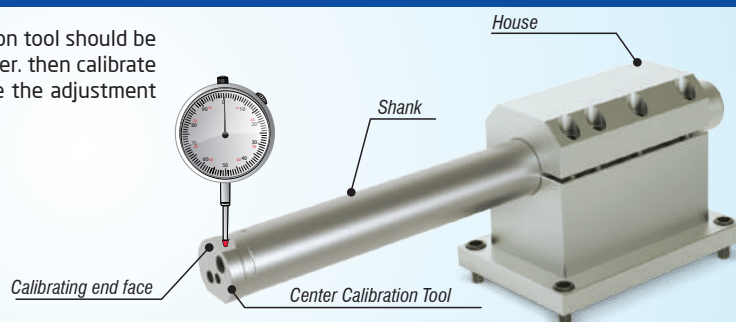


Type C Clamping method



3 Adjusting the Height of Centre Assembly

When mounting the body for the first time, a special calibration tool should be used for the center height. First mount the shank on the holder, then calibrate it within 0.01 tolerance on the X axis direction. Please make the adjustment with the dial indicator device.



4 Assembly the Right Cartridge

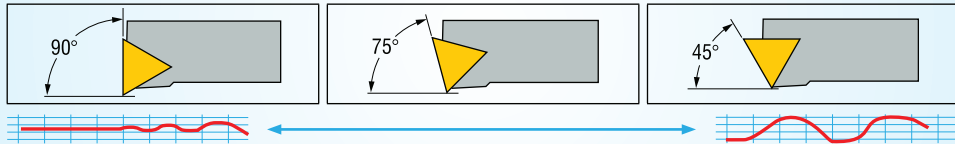
See the figure on the side:



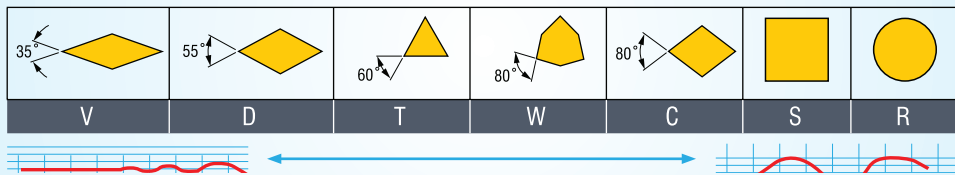
Choosing the Correct Insert

Choosing the correct insert can have a big influence on the overall success of vibration damping. The main way the insert can improve the machining stability is by minimizing the cutting forces. Following the guidelines below should be your first step to eliminate vibrations: If possible, use it always short drilling tools. Otherwise, reduce your speeds to minimize vibration.

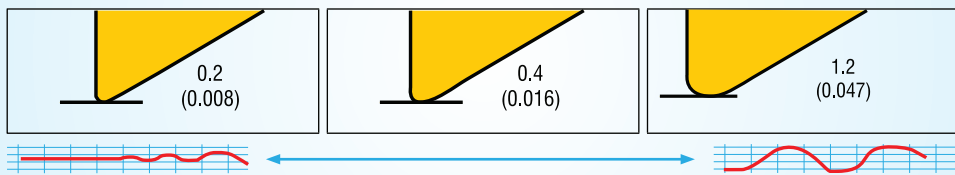
A Choose an entry angle that is as close as possible to 90° to reduce the radial forces to a minimum.



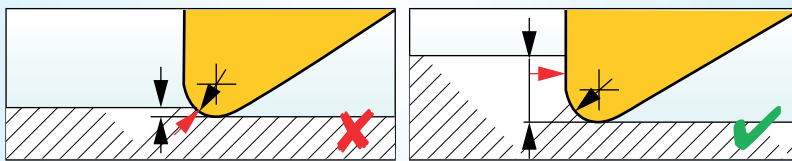
B Choose the smallest insert head angle possible. This will reduce overall cutting forces and increase the clearance.



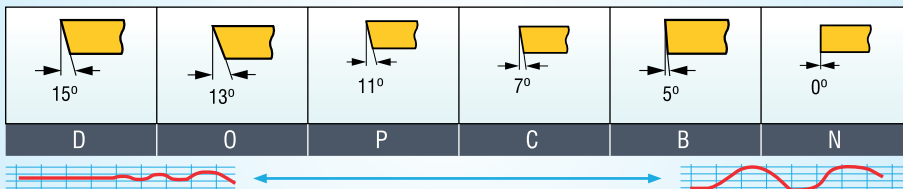
C Choose a small nose radius to reduce the cutting forces and to enable machining in a lower depth of cut.



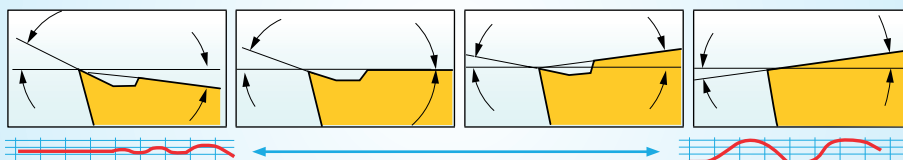
D Machining depth (a_p) should be larger than the nose radius.



E Use an insert with an overall positive geometry to reduce the cutting forces:



F Choose a positive top rake geometry:



G For dampened-straight-adaptor:



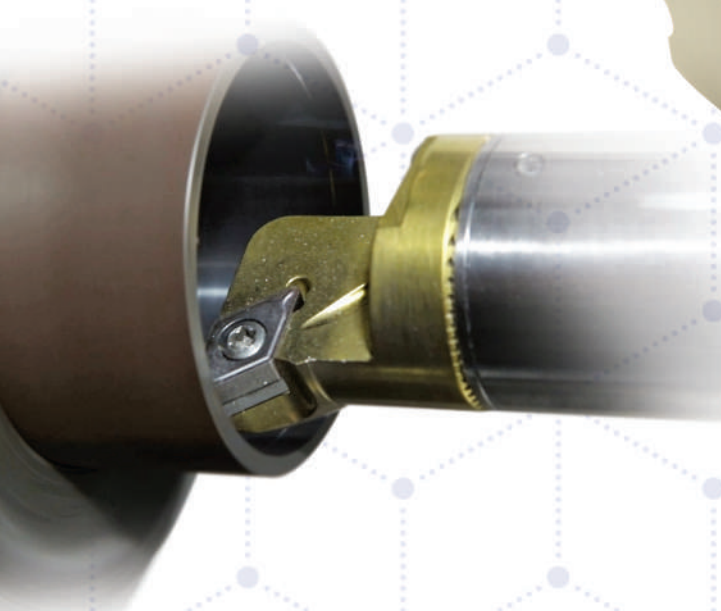
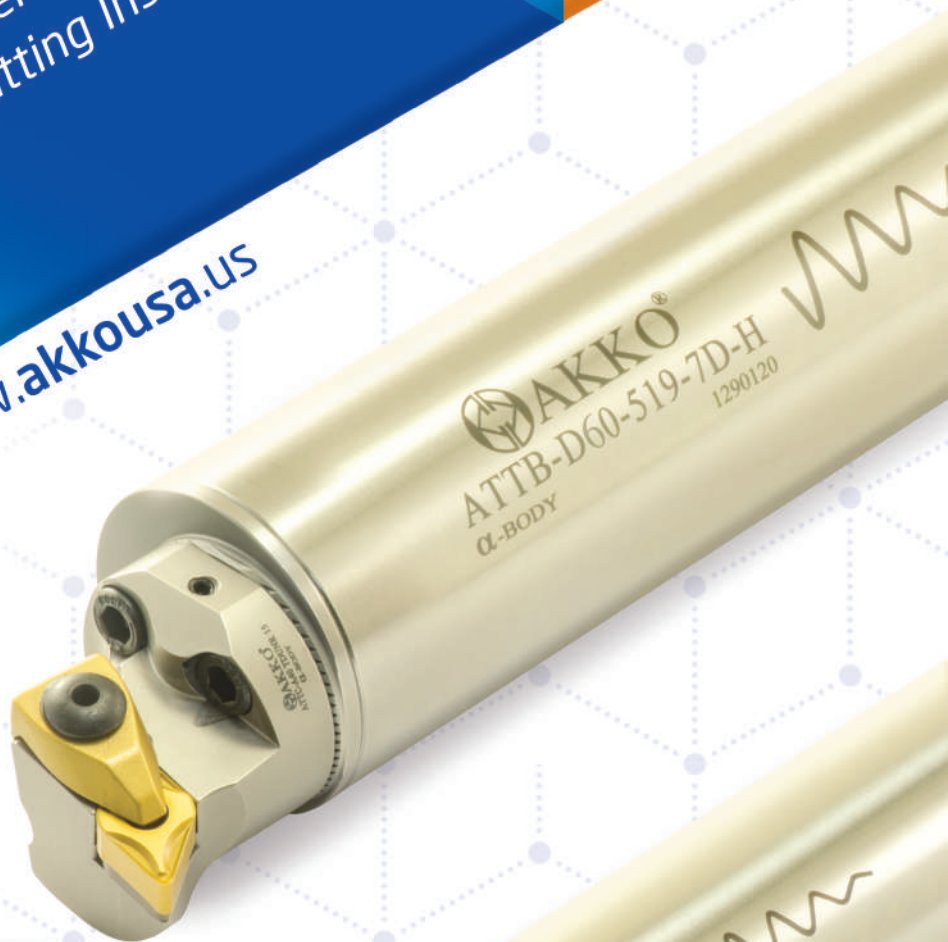
L. min length after cut off

$\emptyset$	Short Design 4-7x $\emptyset$ (mm)	Long Design 7-10x $\emptyset$ (mm)
16	100	155
20	125	200
25	155	255
32	190	320
40	240	410
50	305	520
60	380	630



Indexable Tools, Tool Holder Systems and Cutting Inserts

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THREADING TOOLHOLDERS



S

1

E

2

R

3

25 25

4-5

M

6

16

7

C

8

1 Method of Mounting of Insert

S: Screw Clamping
T: Screw Clamping with Helix Angle

2 Application

E: External
I: Internal

3 Cutting Direction

R: Sağ Yan
Right-Hand
R: Rechts

L: Sol Yan
Left-Hand
L: Links

S E R

S E L

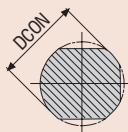
4 Type of Boring

"A" Solid steel with coolant hole
"E" Carbide bar with fixed steel head and coolant hole
"C" Carbide shank
"S" Steel shank

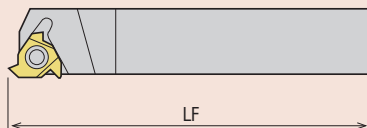
4-5 External Shank Size

Shank : hxb
2525 - 25 x 25 mm

5 Shank Diameter



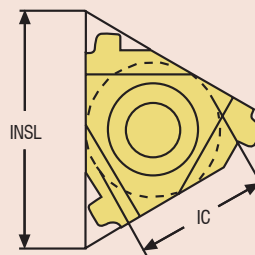
6 Shank Length



(mm)

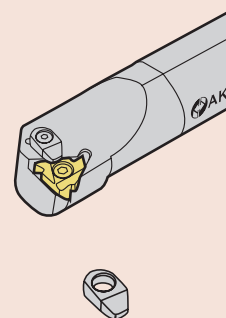
A - 32	H - 100	Q - 180	x-special
B - 40	J - 110	R - 200	
C - 50	K - 125	S - 250	
D - 60	L - 140	T - 300	
E - 70	M - 150	U - 350	
F - 80	N - 160	V - 400	
G - 90	P - 170	W - 450	

7 Insert Size



l (mm)	d
06	5/32"
08	3/16"
11	1/4"
16	3/8"
22	1/2"
27	5/8"

8 Wedge Clamp



S

1

I

2

R

3

S

4

25

5

R

6

16

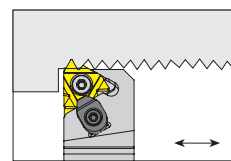
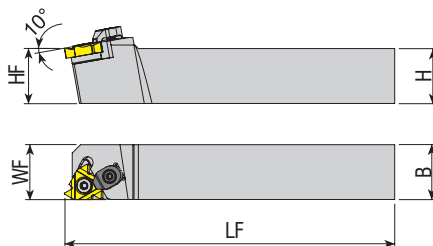
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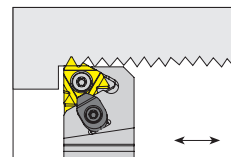
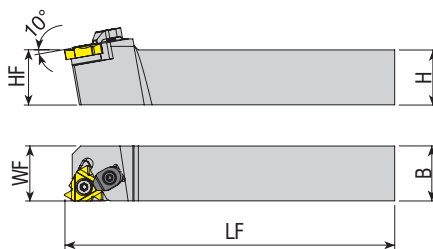
Illustrations shown may vary from actual product.



Dimensions in Metric											
Ordering Code	HF=H	B	LF	WF	Insert	Screw	Shim	Shim Screw	Wedge Clamp	Clamp Screw	Torx Key
SER 0808 E11	8	8	70	11	11 ER/EL	4008-M2.5x6	-	-	-	-	82-T08
SER 1010 E11	10	10	70	11	11 ER/EL	4008-M2.5x6	-	-	-	-	82-T08
SER 1212 F11	12	12	80	12	11 ER/EL	4008-M2.5x6	-	-	-	-	82-T08
SER 1616 H11	16	16	100	16	11 ER/EL	4008-M2.5x6	-	-	-	-	82-T08
SER 2020 H11	20	20	100	20	11 ER/EL	4008-M2.5x6	-	-	-	-	82-T08
SER 1616 H16C	16	16	100	16	16 ER/EL (0.35 – 3) ISO METRIC	4015-M3.5x14	AATN-2-0020	AAV-06-M3.5x11	ACK-05	4015 M4x11	80-T15
SER 2020 K16C	20	20	125	20	16 ER/EL (0.35 – 3) ISO METRIC	4015-M3.5x14	AATN-2-0020	AAV-06-M3.5x11	ACK-05	4015 M4x11	80-T15
SER 2525 M16C	25	25	150	25	16 ER/EL (0.35 – 3) ISO METRIC	4015-M3.5x14	AATN-2-0020	AAV-06-M3.5x11	ACK-05	4015 M4x11	80-T15
SER 3232 P16C	32	32	170	32	16 ER/EL (0.35 – 3) ISO METRIC	4015-M3.5x14	AATN-2-0020	AAV-06-M3.5x11	ACK-05	4015 M4x11	80-T15
SER 2525 M22C	25	25	150	25	22 ER/EL (3.5 – 4.5) ISO METRIC	1020-M4.5x16	AATN-2-0004	AAV-07-M4.5x13	ACK-05	4015 M4x11	80-T20
SER 3232 P22C	32	32	170	32	22 ER/EL (3.5 – 4.5) ISO METRIC	1020-M4.5x16	AATN-2-0004	AAV-07-M4.5x13	ACK-05	4015 M4x11	80-T20
SER 4040 S22C	40	40	250	40	22 ER/EL (3.5 – 4.5) ISO METRIC	1020-M4.5x16	AATN-2-0004	AAV-07-M4.5x13	ACK-05	4015 M4x11	80-T20
SER 2525 M16C-T	25	25	150	25	16 ER/L (1.5-3 TR)	4015-M3.5x14	-	-	ACK-05	4015 M4x11	80-T15
SER 2525 M22C-T	25	25	150	25	22 ER/L (4-6 TR)	1020-M4.5x16	-	-	ACK-05	4015 M4x11	80-T20
SER 2020 K16C-S	20	20	125	25	SNDVK 166 ER/L16	4015-M3.5x14	AATN-2-0020	AAV-06-M3.5x11	ACK-05	4015 M4x11	80-T15
SER 2525 M16C-S	25	25	150	31	SNDVK 166 ER/L16	4015-M3.5x14	AATN-2-0020	AAV-06-M3.5x11	ACK-05	4015 M4x11	80-T15
SER 3232 P16C-S	32	32	170	38.5	SNDVK 166 ER/L16	4015-M3.5x14	AATN-2-0020	AAV-06-M3.5x11	ACK-05	4015 M4x11	80-T15



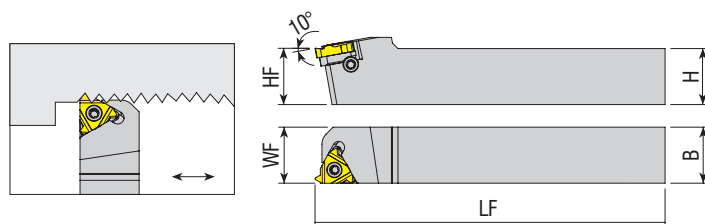
Illustrations shown may vary from actual product.



Dimensions in Metric					      						
Ordering Code	HF=H	B	LF	WF	Insert	Screw	Shim	Shim Screw	Wedge Clamp	Clamp Screw	Torx Key
SEL 0808 E11	8	8	70	11	11 ER/EL	4008-M2.5x6	-	-	-	-	82-T08
SEL 1010 E11	10	10	70	11	11 ER/EL	4008-M2.5x6	-	-	-	-	82-T08
SEL 1212 F11	12	12	80	12	11 ER/EL	4008-M2.5x6	-	-	-	-	82-T08
SEL 1616 H11	16	16	100	16	11 ER/EL	4008-M2.5x6	-	-	-	-	82-T08
SEL 2020 H11	20	20	100	20	11 ER/EL	4008-M2.5x6	-	-	-	-	82-T08
SEL 1616 H16C	16	16	100	16	16 ER/EL (0.35 – 3) ISO METRIC	4015-M3.5x14	AATN-2-0020	AAV-06-M3.5x11	ACK-05	4015 M4x11	80-T15
SEL 2020 K16C	20	20	125	20	16 ER/EL (0.35 – 3) ISO METRIC	4015-M3.5x14	AATN-2-0020	AAV-06-M3.5x11	ACK-05	4015 M4x11	80-T15
SEL 2525 M16C	25	25	150	25	16 ER/EL (0.35 – 3) ISO METRIC	4015-M3.5x14	AATN-2-0020	AAV-06-M3.5x11	ACK-05	4015 M4x11	80-T15
SEL 3232 P16C	32	32	170	32	16 ER/EL (0.35 – 3) ISO METRIC	4015-M3.5x14	AATN-2-0020	AAV-06-M3.5x11	ACK-05	4015 M4x11	80-T15
SEL 2525 M22C	25	25	150	25	22 ER/EL (3.5 – 4.5) ISO METRIC	1020-M4.5x16	AATN-2-0004	AAV-07-M4.5x13	ACK-05	4015 M4x11	80-T20
SEL 3232 P22C	32	32	170	32	22 ER/EL (3.5 – 4.5) ISO METRIC	1020-M4.5x16	AATN-2-0004	AAV-07-M4.5x13	ACK-05	4015 M4x11	80-T20
SEL 4040 S22C	40	40	250	40	22 ER/EL (3.5 – 4.5) ISO METRIC	1020-M4.5x16	AATN-2-0004	AAV-07-M4.5x13	ACK-05	4015 M4x11	80-T20
SEL 2525 M16C-T	25	25	150	25	16 ER/L (1.5-3 TR)	4015-M3.5x14	-	-	ACK-05	4015 M4x11	80-T15
SEL 2525 M22C-T	25	25	150	25	22 ER/L (4-6 TR)	1020-M4.5x16	-	-	ACK-05	4015 M4x11	80-T20
SEL 2020 K16C-S	20	20	125	25	SNDVK 166 ER/L16	4015-M3.5x14	AATN-2-0020	AAV-06-M3.5x11	ACK-05	4015 M4x11	80-T15
SEL 2525 M16C-S	25	25	150	31	SNDVK 166 ER/L16	4015-M3.5x14	AATN-2-0020	AAV-06-M3.5x11	ACK-05	4015 M4x11	80-T15
SEL 3232 P16C-S	32	32	170	38.5	SNDVK 166 ER/L16	4015-M3.5x14	AATN-2-0020	AAV-06-M3.5x11	ACK-05	4015 M4x11	80-T15



Illustrations shown may vary from actual product.



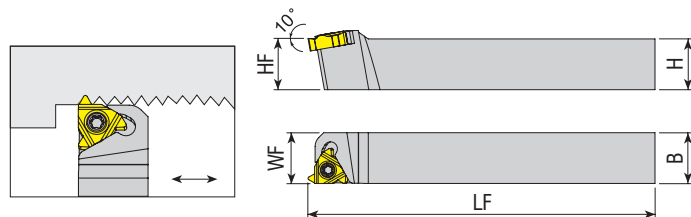
Dimensions in Metric



Ordering Code	HF=H	B	LF	WF	Insert	Screw	Right Shim	Left Shim	Shim Screw	Shim Screw Ring	Torx Key
TER 1616 H16	16	16	100	16	16 ER/EL	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
TER 2020 K16	20	20	125	20	16 ER/EL	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
TER 2525 M16	25	25	150	25	16 ER/EL	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
TER 3232 P16	32	32	170	32	16 ER/EL	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
TER 2525 M22	25	25	150	25	22 ER/EL	1720-U8-32x15	ATS-22E	ATS-22I	AAV-12-U8-32x5.5	ABPL-04	80-T20
TER 3232 P22	32	32	170	32	22 ER/EL	1720-U8-32x15	ATS-22E	ATS-22I	AAV-12-U8-32x5.5	ABPL-04	80-T20
TER 4040 S22	40	40	250	40	22 ER/EL	1720-U8-32x15	ATS-22E	ATS-22I	AAV-12-U8-32x5.5	ABPL-04	80-T20
TER 2525 M27	25	25	150	25	27 ER/EL	1620-M5x22	ATS-27E	ATS-27I	AAV-15-M5x5.7	ABPL-05	80-T20
TER 3232 P27	32	32	170	32	27 ER/EL	1620-M5x22	ATS-27E	ATS-27I	AAV-15-M5x5.7	ABPL-05	80-T20
TER 4040 S27	40	40	250	40	27 ER/EL	1620-M5x22	ATS-27E	ATS-27I	AAV-15-M5x5.7	ABPL-05	80-T20
TEL 1616 H16	16	16	100	16	16 ER/EL	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
TEL 2020 K16	20	20	125	20	16 ER/EL	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
TEL 2525 M16	25	25	150	25	16 ER/EL	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
TEL 3232 P16	32	32	170	32	16 ER/EL	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
TEL 2525 M22	25	25	150	25	22 ER/EL	1720-U8-32x15	ATS-22E	ATS-22I	AAV-12-U8-32x5.5	ABPL-04	80-T20
TEL 3232 P22	32	32	170	32	22 ER/EL	1720-U8-32x15	ATS-22E	ATS-22I	AAV-12-U8-32x5.5	ABPL-04	80-T20
TEL 4040 S22	40	40	250	40	22 ER/EL	1720-U8-32x15	ATS-22E	ATS-22I	AAV-12-U8-32x5.5	ABPL-04	80-T20
TEL 2525 M27	25	25	150	25	27 ER/EL	1620-M5x22	ATS-27E	ATS-27I	AAV-15-M5x5.7	ABPL-05	80-T20
TEL 3232 P27	32	32	170	32	27 ER/EL	1620-M5x22	ATS-27E	ATS-27I	AAV-15-M5x5.7	ABPL-05	80-T20
TEL 4040 S27	40	40	250	40	27 ER/EL	1620-M5x22	ATS-27E	ATS-27I	AAV-15-M5x5.7	ABPL-05	80-T20



Illustrations shown may vary from actual product.

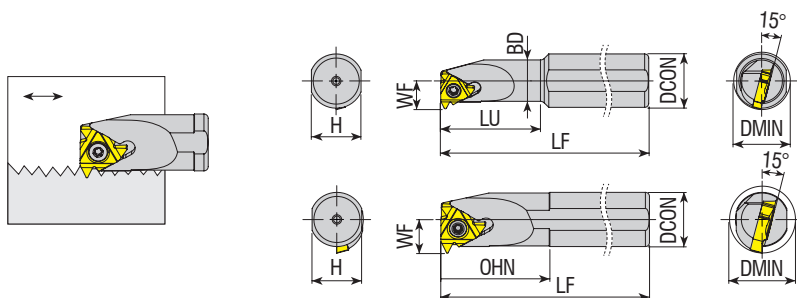


Dimensions in Metric											
Ordering Code	HF=H	B	LF	WF	Insert	Screw	Shim	Shim Screw	Wedge Clamp	Clamp Screw	Torx Key
SER 1010 K11-S	10	10	125	10	11 ER/EL	4008-M2.5x6	-	-	-	-	82-T08
SER 1212 K11-S	12	12	125	12	11 ER/EL	4008-M2.5x6	-	-	-	-	82-T08
SER 1212 K16-S	12	12	125	12	16 ER 3.5 (0.35 - 3)	4015-M3.5X14	AATN-2-0020	AAV-08-M3.5X8	-	-	80-T15
SEL 1010 K11-S	10	10	125	10	11 ER/EL	4008-M2.5x6	-	-	-	-	82-T08
SEL 1212 K11-S	12	12	125	12	11 ER/EL	4008-M2.5x6	-	-	-	-	82-T08
SEL 1212 K16-S	12	12	125	12	16 ER 3.5 (0.35 - 3)	4015-M3.5X14	AATN-2-0020	AAV-08-M3.5X8	-	-	80-T15





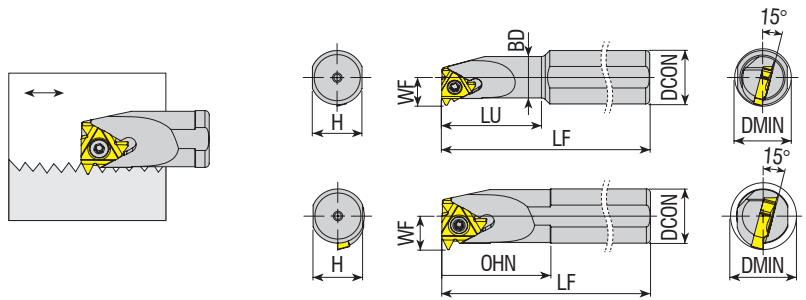
Illustrations shown may vary from actual product.



Dimensions in Metric							      						
Ordering Code	DCON	BD	LF	LU=OHN	WF	DMIN	Insert	Screw	Shim	Shim Screw	Wedge Clamp	Clamp Screw	Torx Key
SIR S12X05H 06	12	5	100	15	4.3	6.4	06 IR/L	3006-M2X3.6	-	-	-	-	82-T06
SIR S16X05H 06	16	5	100	15	4.3	6.4	06 IR/L	3006-M2X3.6	-	-	-	-	82-T06
SIR S16X07M 08	16	7	150	18	5.3	7.8	08 IR/L	3007-M2.2x4.6	-	-	-	-	82-T07
SIR S10H 11	10	10	100	-	7.4	12	11 IR/L	4008-M2.5x6	-	-	-	-	82-T08
SIR A10H 11	10	10	100	-	7.4	12	11 IR/L	4008-M2.5x6	-	-	-	-	82-T08
SIR S12K 11	12	12	125	-	8.4	15	11 IR/L	4008-M2.5x6	-	-	-	-	82-T08
SIR A12K 11	12	12	125	-	8.4	15	11 IR/L	4008-M2.5x6	-	-	-	-	82-T08
SIR S16X10M 11	16	10	150	25	7.4	12	11 IR/L	4008-M2.5x6	-	-	-	-	82-T08
SIR S16X13M 11	16	13	150	32	8.9	15	11 IR/L	4008-M2.5x6	-	-	-	-	82-T08
SIR S16M 11	16	16	150	-	11.7	19	11 IR/L	4008-M2.5x6	-	-	-	-	82-T08
SIR A16X13M 16	16	12.8	150	32	10.2	16	16 IR/L (0.35 - 3) ISO METRIC	4015-M3.5x9	-	-	-	-	80-T15
SIR S16X13M 16	16	13	150	32	10.2	16	16 IR/L (0.35 - 3) ISO METRIC	4015-M3.5x9	-	-	-	-	80-T15
SIR S16M 16	16	16	150	-	11.7	19	16 IR/L (0.35 - 3) ISO METRIC	4015-M3.5x11	-	-	-	-	80-T15
SIR S20X16P 16	20	16	170	40	11.7	19	16 IR/L (0.35 - 3) ISO METRIC	4015-M3.5x11	-	-	-	-	80-T15
SIR A20X16P 16	20	16	170	40	11.7	19	16 IR/L (0.35 - 3) ISO METRIC	4015-M3.5x14	AATN-2-0020	AAV-08-M3.5x8	ACK-05	4015-M4x11	80-T15
SIR S20P 16	20	20	170	-	13.7	24	16 IR/L (0.35 - 3) ISO METRIC	4015-M3.5x14	AATN-2-0020	AAV-06-M3.5x11	ACK-05	4015-M4x11	80-T15
SIR S25R 16C	25	25	200	-	16.2	29	16 IR/L (0.35 - 3) ISO METRIC	4015-M3.5x14	AATN-2-0020	AAV-06-M3.5x11	ACK-05	4015-M4x11	80-T15
SIR S32S 16C	32	32	250	-	19.7	36	16 IR/L (0.35 - 3) ISO METRIC	4015-M3.5x14	AATN-2-0020	AAV-06-M3.5x11	ACK-05	4015-M4x11	80-T15
SIR S40T 16C	40	40	300	-	23.7	44	16 IR/L (0.35 - 3) ISO METRIC	4015-M3.5x14	AATN-2-0020	AAV-06-M3.5x11	ACK-05	4015-M4x11	80-T15
SIR S50U 16C	50	50	350	-	28.7	54	16 IR/L (0.35 - 3) ISO METRIC	4020-M4.5x12	-	-	-	-	80-T15
SIR S20P 22	20	20	170	-	15.7	24	22 IR/L (3.5 - 4.5) ISO METRIC	1020-M4.5x16	AATN-2-0004	AAV-10-M4.5x8	ACK-05	4015-M4x11	-
SIR S25R 22C	25	25	200	-	18.1	30	22 IR/L (3.5 - 4.5) ISO METRIC	1020-M4.5x16	AATN-2-0004	AAV-10-M4.5x8	ACK-05	4015-M4x11	80-T20
SIR S32S 22C	32	32	250	-	21.6	38	22 IR/L (3.5 - 4.5) ISO METRIC	1020-M4.5x16	AATN-2-0004	AAV-07-M4.5x13	ACK-05	4015-M4x11	80-T20
SIR S40T 22C	40	40	300	-	25.6	46	22 IR/L (3.5 - 4.5) ISO METRIC	1020-M4.5x16	AATN-2-0004	AAV-07-M4.5x13	ACK-05	4015-M4x11	80-T15
SIR S50U 22C	50	50	350	-	30.6	58	22 IR/L (3.5 - 4.5) ISO METRIC	1020-M4.5x16	AATN-2-0004	AAV-07-M4.5x13	ACK-05	4015-M4x11	80-T15
SIR S25R 16C-T	25	25	200	-	16.2	29	16 IR/L (1.5-3 TR)	4015-M3.5x14	-	-	ACK-05	4015-M4x11	80-T15
SIR S32S 16C-T	32	32	250	-	19.7	36	16 IR/L (1.5-3 TR)	4015-M3.5x14	-	-	-	-	80-T15
SIR S25R 22C-T	25	25	200	-	18.1	30	22 IR/L (4-6 TR)	4015-M4x11	-	-	-	-	80-T20
SIR S32S 22C-T	32	32	250	-	21.6	38	22 IR/L (4-6 TR)	4015-M4x11	-	-	-	-	80-T20



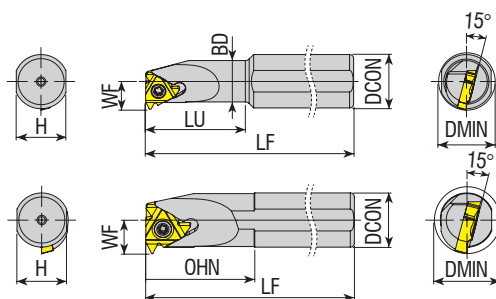
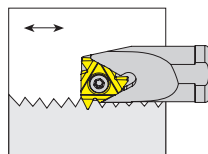
Illustrations shown may vary from actual product.



Dimensions in Metric													
Ordering Code	DCON	BD	LF	LU=OHN	WF	DMIN	Insert	Screw	Shim	Shim Screw	Wedge Clamp	Clamp Screw	Torx Key
SIL S12X05H 06	12	5	100	15	4.3	6.4	06 IR/L	3006-M2X3.6	-	-	-	-	82-T06
SIL S16X05H 06	16	5	100	15	4.3	6.4	06 IR/L	3006-M2X3.6	-	-	-	-	82-T06
SIL S16X07M 08	16	7	150	18	5.3	7.8	08 IR/L	3007-M2.2x4.6	-	-	-	-	82-T07
SIL S10H 11	10	10	100	-	7.4	12	11 IR/L	4008-M2.5x6	-	-	-	-	82-T08
SIL A10H 11	10	10	100	-	7.4	12	11 IR/L	4008-M2.5x6	-	-	-	-	82-T08
SIL S12K 11	12	12	125	-	8.4	15	11 IR/L	4008-M2.5x6	-	-	-	-	82-T08
SIL A12K 11	12	12	125	-	8.4	15	11 IR/L	4008-M2.5x6	-	-	-	-	82-T08
SIL S16X10M 11	16	10	150	25	7.4	12	11 IR/L	4008-M2.5x6	-	-	-	-	82-T08
SIL S16X13M 11	16	13	150	32	8.9	15	11 IR/L	4008-M2.5x6	-	-	-	-	82-T08
SIL S16M 11	16	16	150	-	11.7	19	11 IR/L	4008-M2.5x6	-	-	-	-	82-T08
SIL A16X13M 16	16	12.8	150	32	10.2	16	16 IR/L (0.35 - 3) ISO METRIC	4015-M3.5x9	-	-	-	-	80-T15
SIL S16X13M 16	16	13	150	32	10.2	16	16 IR/L (0.35 - 3) ISO METRIC	4015-M3.5x9	-	-	-	-	80-T15
SIL S16M 16	16	16	150	-	11.7	19	16 IR/L (0.35 - 3) ISO METRIC	4015-M3.5x11	-	-	-	-	80-T15
SIL S20X16P 16	20	16	170	40	11.7	19	16 IR/L (0.35 - 3) ISO METRIC	4015-M3.5x11	-	-	-	-	80-T15
SIL A20X16P 16	20	16	170	40	11.7	19	16 IR/L (0.35 - 3) ISO METRIC	4015-M3.5x14	AATN-2-0020	AAV-08-M3.5x8	ACK-05	4015-M4x11	80-T15
SIL S20P 16	20	20	170	-	13.7	24	16 IR/L (0.35 - 3) ISO METRIC	4015-M3.5x14	AATN-2-0020	AAV-06-M3.5x11	ACK-05	4015-M4x11	80-T15
SIL S25R 16C	25	25	200	-	16.2	29	16 IR/L (0.35 - 3) ISO METRIC	4015-M3.5x14	AATN-2-0020	AAV-06-M3.5x11	ACK-05	4015-M4x11	80-T15
SIL S32S 16C	32	32	250	-	19.7	36	16 IR/L (0.35 - 3) ISO METRIC	4015-M3.5x14	AATN-2-0020	AAV-06-M3.5x11	ACK-05	4015-M4x11	80-T15
SIL S40T 16C	40	40	300	-	23.7	44	16 IR/L (0.35 - 3) ISO METRIC	4015-M3.5x14	AATN-2-0020	AAV-06-M3.5x11	ACK-05	4015-M4x11	80-T15
SIL S50U 16C	50	50	350	-	28.7	54	16 IR/L (0.35 - 3) ISO METRIC	4020-M4.5x12	-	-	-	-	80-T15
SIL S20P 22	20	20	170	-	15.7	24	22 IR/L (3.5 - 4.5) ISO METRIC	1020-M4.5x16	AATN-2-0004	AAV-10-M4.5x8	ACK-05	4015-M4x11	-
SIL S25R 22C	25	25	200	-	18.1	30	22 IR/L (3.5 - 4.5) ISO METRIC	1020-M4.5x16	AATN-2-0004	AAV-10-M4.5x8	ACK-05	4015-M4x11	80-T20
SIL S32S 22C	32	32	250	-	21.6	38	22 IR/L (3.5 - 4.5) ISO METRIC	1020-M4.5x16	AATN-2-0004	AAV-07-M4.5x13	ACK-05	4015-M4x11	80-T20
SIL S40T 22C	40	40	300	-	25.6	46	22 IR/L (3.5 - 4.5) ISO METRIC	1020-M4.5x16	AATN-2-0004	AAV-07-M4.5x13	ACK-05	4015-M4x11	80-T15
SIL S50U 22C	50	50	350	-	30.6	58	22 IR/L (3.5 - 4.5) ISO METRIC	1020-M4.5x16	AATN-2-0004	AAV-07-M4.5x13	ACK-05	4015-M4x11	80-T15
SIL S25R 16C-T	25	25	200	-	16.2	29	16 IR/L (1.5-3 TR)	4015-M3.5x14	-	-	ACK-05	4015-M4x11	80-T15
SIL S32S 16C-T	32	32	250	-	19.7	36	16 IR/L (1.5-3 TR)	4015-M3.5x14	-	-	-	-	80-T15
SIL S25R 22C-T	25	25	200	-	18.1	30	22 IR/L (4-6 TR)	4015-M4x11	-	-	-	-	80-T20
SIL S32S 22C-T	32	32	250	-	21.6	38	22 IR/L (4-6 TR)	4015-M4x11	-	-	-	-	80-T20

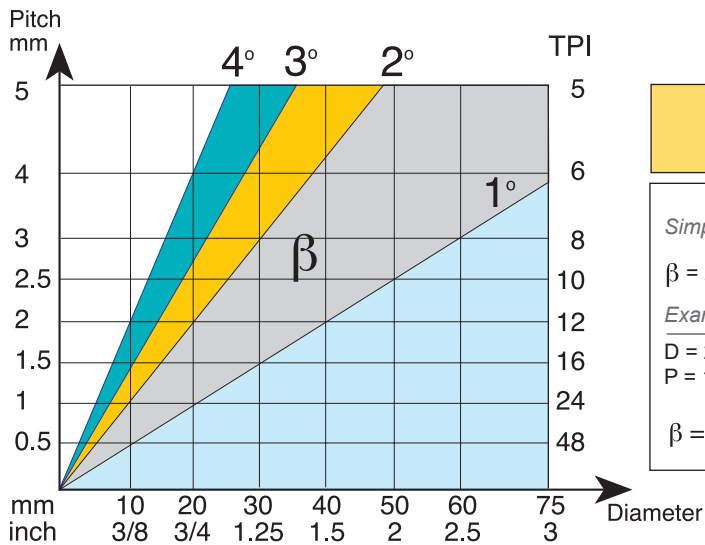


Illustrations shown may vary from actual product.



Dimensions in Metric													
Ordering Code	DCON	H	LF	OHN	WF	DMIN	Insert	Screw	Left Shim	Right Shim	Shim Screw	Shim Screw Ring	Torx Key
TIR S25R 16	25	23	200	-	16.2	29	16 IR/L	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
TIR S32S 16	32	30	250	-	19.7	36	16 IR/L	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
TIR S40T 16	40	37.5	300	-	23.7	44	16 IR/L	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
TIR S50U 16	50	47	350	-	28.7	54	16 IR/L	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
TIR S25R 22	25	23	200	-	18.1	29	22 IR/L	1720-U8-32x15	ATS-22E	ATS-22I	AAV-12-U8-32x5.5	ABPL-04	80-T20
TIR S32S 22	32	30	250	-	21.6	38	22 IR/L	1720-U8-32x15	ATS-22E	ATS-22I	AAV-12-U8-32x5.5	ABPL-04	80-T20
TIR S40T 22	40	37.5	300	-	25.6	46	22 IR/L	1720-U8-32x15	ATS-22E	ATS-22I	AAV-12-U8-32x5.5	ABPL-04	80-T20
TIR S50U 22	50	47	350	-	30.6	58	22 IR/L	1720-U8-32x15	ATS-22E	ATS-22I	AAV-12-U8-32x5.5	ABPL-04	80-T20
TIR S32S 27	32	30	250	-	22.6	40	27 IR/L	1620-M5x18	ATS-27E	ATS-27I	AAV-15-M5x5.7	ABPL-05	80-T20
TIR S40T 27	40	37.5	300	-	26.6	48	27 IR/L	1620-M5x22	ATS-27E	ATS-27I	AAV-15-M5x5.7	ABPL-05	80-T20
TIR S50U 27	50	47	350	-	31.6	58	27 IR/L	1620-M5x22	ATS-27E	ATS-27I	AAV-15-M5x5.7	ABPL-05	80-T20
TIR A20P 16	20	18	170	40	13.7	24	16 IR/L	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
TIR A25R 16	25	23	200	50	16.2	29	16 IR/L	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
TIR A32S 16	32	30	250	60	19.7	36	16 IR/L	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
TIR A40T 16	40	37.5	300	65	23.9	44	16 IR/L	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
TIL S25R 16	25	23	200	-	16.2	29	16 IR/L	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
TIL S32S 16	32	30	250	-	19.7	36	16 IR/L	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
TIL S40T 16	40	37.5	300	-	23.7	44	16 IR/L	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
TIL S50U 16	50	47	350	-	28.7	54	16 IR/L	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
TIL S25R 22	25	23	200	-	18.1	29	22 IR/L	1720-U8-32x15	ATS-22E	ATS-22I	AAV-12-U8-32x5.5	ABPL-04	80-T20
TIL S32S 22	32	30	250	-	21.6	38	22 IR/L	1720-U8-32x15	ATS-22E	ATS-22I	AAV-12-U8-32x5.5	ABPL-04	80-T20
TIL S40T 22	40	37.5	300	-	25.6	46	22 IR/L	1720-U8-32x15	ATS-22E	ATS-22I	AAV-12-U8-32x5.5	ABPL-04	80-T20
TIL S50U 22	50	47	350	-	30.6	58	22 IR/L	1720-U8-32x15	ATS-22E	ATS-22I	AAV-12-U8-32x5.5	ABPL-04	80-T20
TIL S32S 27	32	30	250	-	22.6	40	27 IR/L	1620-M5x18	ATS-27E	ATS-27I	AAV-15-M5x5.7	ABPL-05	80-T20
TIL S40T 27	40	37.5	300	-	26.6	48	27 IR/L	1620-M5x22	ATS-27E	ATS-27I	AAV-15-M5x5.7	ABPL-05	80-T20
TIL S50U 27	50	47	350	-	31.6	58	27 IR/L	1620-M5x22	ATS-27E	ATS-27I	AAV-15-M5x5.7	ABPL-05	80-T20
TIL A20P 16	20	18	170	40	13.7	24	16 IR/L	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
TIL A25R 16	25	23	200	50	16.2	29	16 IR/L	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
TIL A32S 16	32	30	250	60	19.7	36	16 IR/L	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10
TIL A40T 16	40	37.5	300	65	23.9	44	16 IR/L	1710-U5-40x12.2	ATS-16E	ATS-16I	AAV-11-U5-40x4.5	ABPL-03	82-T10

Thread Helix Angle



$$\tan \beta = \frac{P}{\pi \times D}$$

Simplified formula

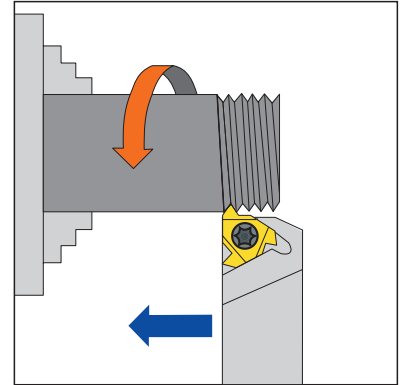
$$\beta = 20 P/D$$

Example

$$D = 25 \text{ mm (0.98")}$$

$$P = 1.5 \text{ mm (16 TPI)}$$

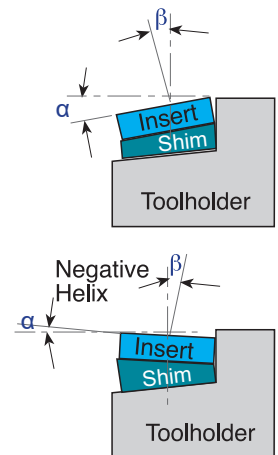
$$\beta = \frac{20 \times 1.5}{25} = 1.2^\circ$$



Standard and Slanted Shim

Akko Toolholders Pockets have a built in 1.5° helix angle. This angle may be adjusted to better match the thread helix angle by simply changing the shim.

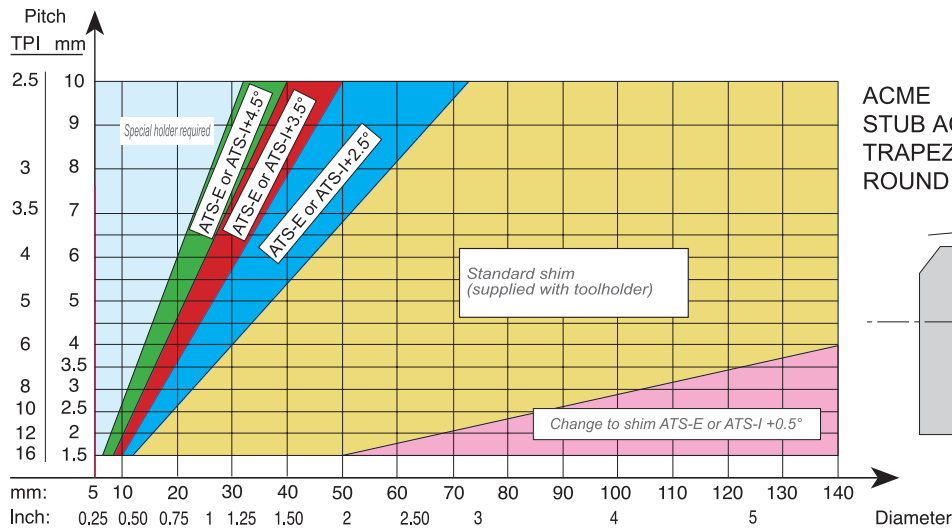
Negative helix is usually used when threading RH thread with LH Holder or LH thread with RH Holder.



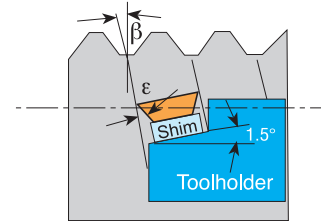
L	IC	Tool Type	Pocket's Angle (α)					
			4.5°	3.5°	2.5°	1.5°	0.5°	-0.5°
16	3/8	EX-RH or IN-LH	ATS-16E+4.5	ATS-16E+3.5	ATS-16E+2.5	ATS-16E	ATS-16E+0.5	ATS-16E-0.5
16	3/8	EX-LH or IN-RH	ATS-16I+4.5	ATS-16I+3.5	ATS-16I+2.5	ATS-16I	ATS-16I+0.5	ATS-16I-0.5
22	1/2	EX-RH or IN-LH	ATS-22E+4.5	ATS-22E+3.5	ATS-22E+2.5	ATS-22E	ATS-22E+0.5	ATS-22E-0.5
22	1/2	EX-LH or IN-RH	ATS-22I+4.5	ATS-22I+3.5	ATS-22I+2.5	ATS-22I	ATS-22I+0.5	ATS-22I-0.5
27	5/8	EX-RH or IN-LH	ATS-27E+4.5	ATS-27E+3.5	ATS-27E+2.5	ATS-27E	ATS-27E+0.5	ATS-27E-0.5
27	5/8	EX-LH or IN-RH	ATS-27I+4.5	ATS-27I+3.5	ATS-27I+2.5	ATS-27I	ATS-27I+0.5	ATS-27I-0.5

Shim Change Recommendation

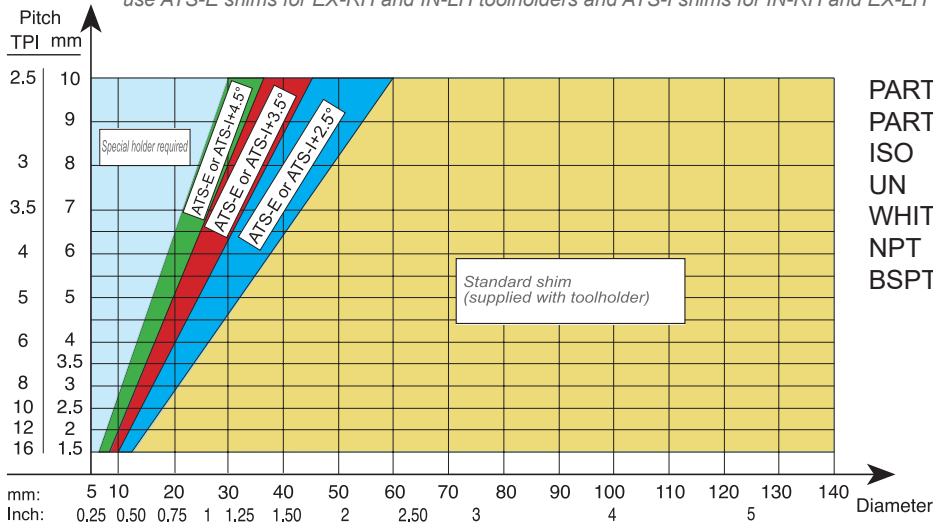
As can be seen from the chart, some Pitch to Diameter combinations require a shim change. If change is required, use ATS-E shim for EX-RH and IN-LH toolholders and ATS-I shims for IN-RH and EX-LH toolholders.



ACME
STUB ACME
TRAPEZ (DIN 103)
ROUND (DIN 405)

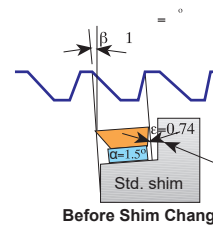
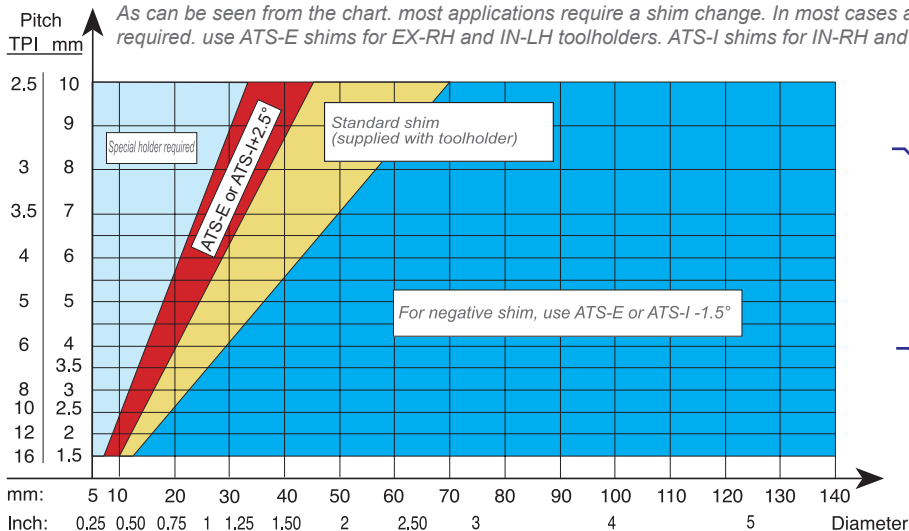


As can be seen from the chart, most applications do not require a shim change. If change is required, use ATS-E shims for EX-RH and IN-LH toolholders and ATS-I shims for IN-RH and EX-LH toolholders.

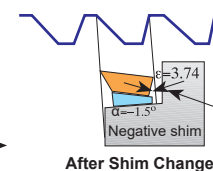


PARTIAL PROFILES 60°
PARTIAL PROFILES 55°
ISO
UN
WHIT.
NPT
BSPT

As can be seen from the chart, most applications require a shim change. In most cases a negative shim is required. use ATS-E shims for EX-RH and IN-LH toolholders. ATS-I shims for IN-RH and EX-LH toolholders.



AMERICAN
BUTTRESS
SAGENGWINDE
(DIN 513)



Replacing the standard shim with a shim has negative angle, will eliminate side rubbing



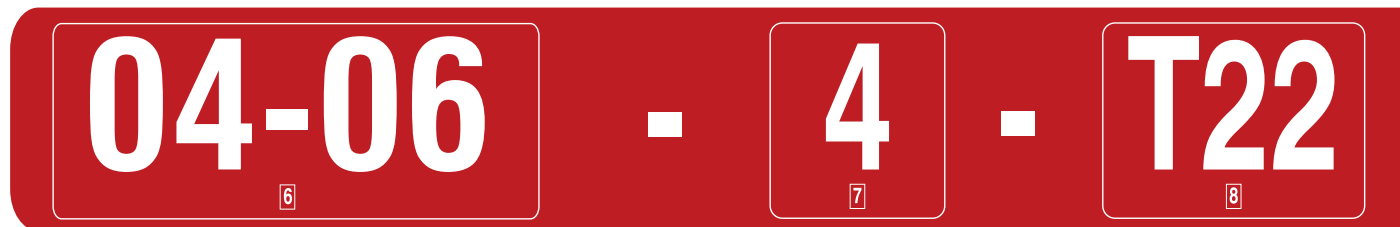
THE SPOKEN QUALITY

Indexable Tools, Tool Holder Systems and Cutting Inserts
www.akkousa.us

the spoken quality...

GROOVING TOOLHOLDERS





2 Cutter Style

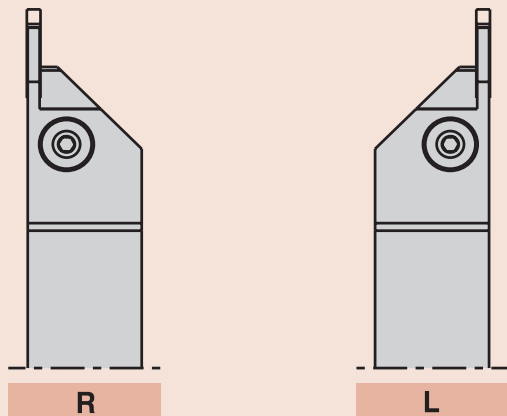
DKT: External Grooving Toolholders
 IKT: Internal Grooving Toolholders
 AKT: Face Grooving Toolholders
 LKT: L Type Face Grooving Toolholders

3 Insert Type

KRLY / MGM.
 HRN / S312, S229, S224, S223
 ISCR / DGN, GI, GTN
 SNDVK / 123, 151, 154.91
 ZCC
 KM / A4.
 ARN / LOMR.

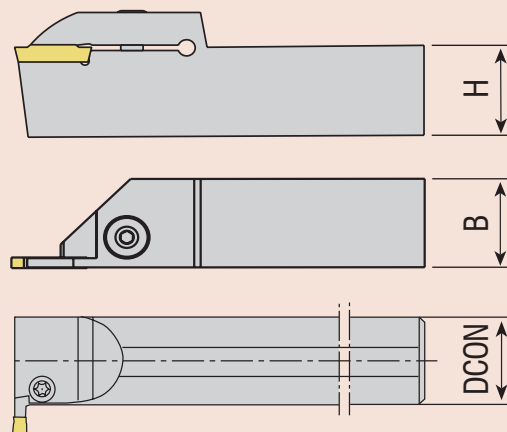
TGTC / TD.

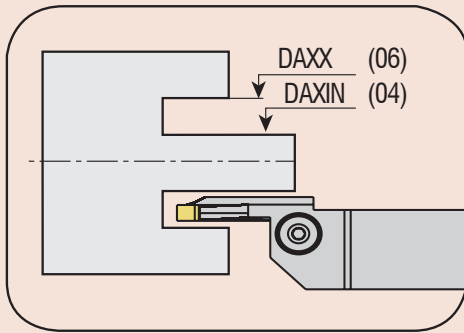
4 Cutting Direction



Please be informed that for AAKT products cutting direction is vice versa what is shown.

5 Cutting Edge Height and Shank Width



6 Cutting Diameter**7** Cutting Width Edge

ÖR/E.G :

2=0.0787 inch

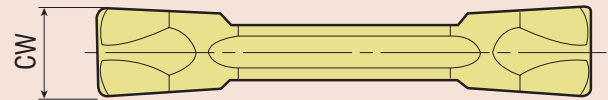
3=0.1181 inch

4=0.1574 inch

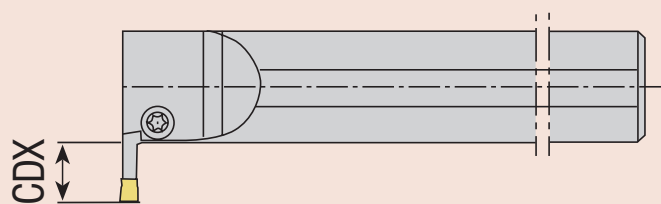
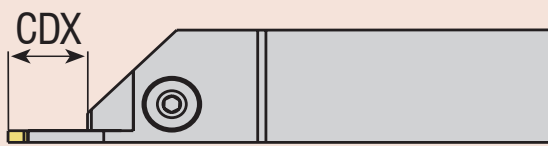
5=0.1968 inch

6=0.2362 inch

8= 0.3149

**8** Shank Length

A	4
B	4.5
C	5
D	6
E	7
F	8
G	10
H	12
X	Special

9 Cutting Depth

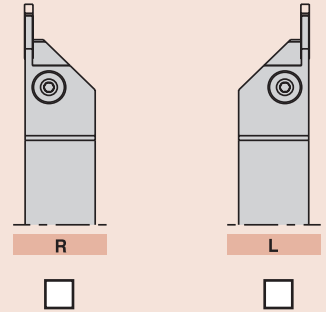
Company Name:

Date:

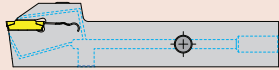
Type of Grooving Toolholders

☐ A Type ☐ B Type ☐ C Type ☐ D Type ☐ E Type

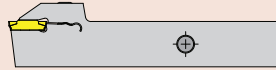
Cutting Direction



Coolant Info



Coolant Hole

☐


Without Coolant Hole

☐

Can you send the original body/insert ? If Needed!

Yes

☐

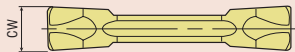
No

☐

Insert Code

Insert Brand

Cutting Width Edge



CW

A Type - External Grooving Toolholders

HF

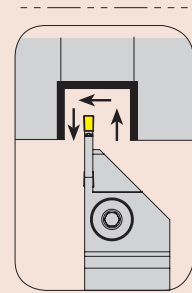
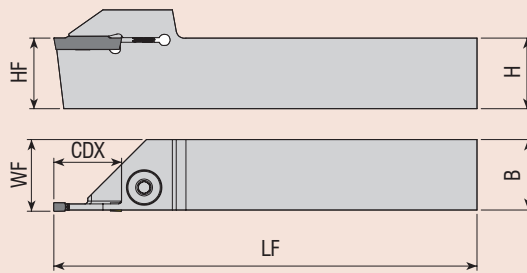
WF

CDX

LF

H

B



B Type - Internal Grooving Toolholders

WF

OHN

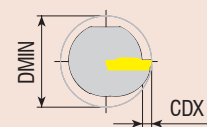
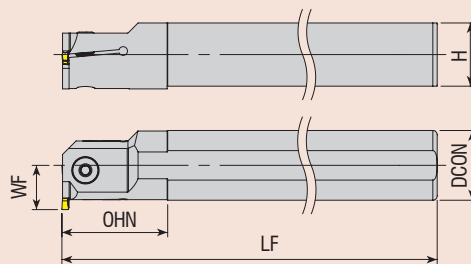
LF

DCON

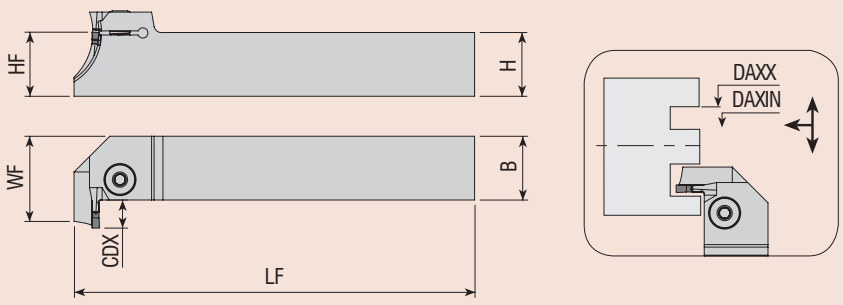
H

DMIN

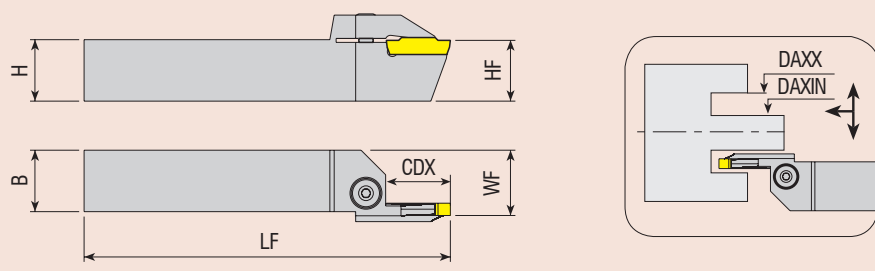
CDX



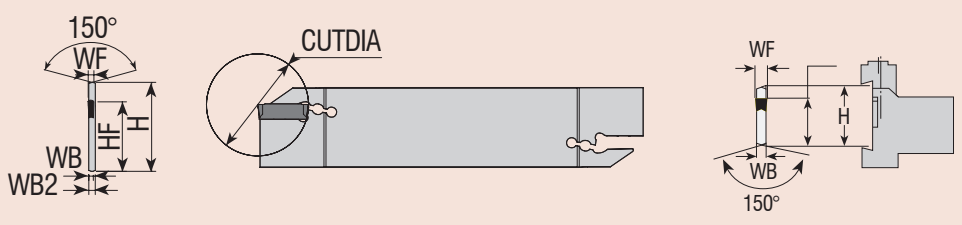
C Type - L Type Face Grooving

HF		
WF		
CDX		
LF		
H		
B		
DAXX		
DAXIN		

D Type - Face Grooving Toolholders

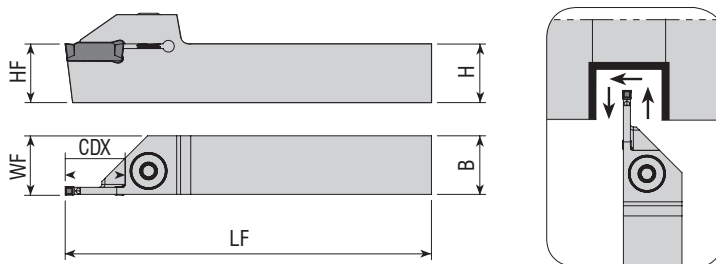
HF		
WF		
CDX		
LF		
H		
B		
DAXX		
DAXIN		

E Type - Blade Grooving Toolholders

WF		
WB		
WB2		
L		
CUTDIA		
H		



Illustrations shown may vary from actual product.



Dimensions in Inch

Ordering Code	HF=H	B	LF	WF	CDX	Insert	Screw	Allen Key
ADKT-GPR-R-10-2C-R063	0.625	0.625	5.000	0.633	0.630	GP.-2	AKV-02-M6x22	AAL-03-3
ADKT-GPR-R-12-2C-R094	0.750	0.750	5.000	0.758	0.940	GP.-2	AKV-02-M6x22	AAL-03-3
ADKT-GPR-R-16-2E-R094	1.000	1.000	7.000	10.080	0.940	GP.-2	2004-M8x1x20	AAL-05-4
ADKT-GPR-R-10-3C-R063	0.625	0.625	5.000	0.637	0.630	GP.-3	2004-M8x1x20	AAL-05-4
ADKT-GPR-R-12-3C-R079	0.750	0.750	5.000	0.762	0.790	GP.-3	2004-M8x1x20	AAL-05-4
ADKT-GPR-R-12-3C-R094	0.750	0.750	5.000	0.762	0.940	GP.-3	2004-M8x1x20	AAL-05-4
ADKT-GPR-R-16-3D-R079	1.000	1.000	6.000	10.120	0.790	GP.-3	2004-M8x1x20	AAL-05-4
ADKT-GPR-R-16-3E-R126	1.000	1.000	7.000	10.120	1.260	GP.-3	2004-M8x1x20	AAL-05-4
ADKT-GPR-R-16-4E-R126	1.000	1.000	7.000	10.157	1.260	GP.-4	2004-M8x1x20	AAL-05-4
ADKT-GPR-R-16-5E-R126	1.000	1.000	7.000	10.196	1.260	GP.-5	2004-M8x1x20	AAL-05-4
ADKT-GPR-R-16-6E-R126	1.000	1.000	7.000	10.196	1.260	GP.-6	2004-M8x1x20	AAL-05-4
ADKT-GPR-L-10-2C-R063	0.625	0.625	5.000	0.633	0.630	GP.-2	AKV-02-M6x22	AAL-03-3
ADKT-GPR-L-12-2C-R094	0.750	0.750	5.000	0.758	0.940	GP.-2	AKV-02-M6x22	AAL-03-3
ADKT-GPR-L-16-2E-R094	1.000	1.000	7.000	10.080	0.940	GP.-2	2004-M8x1x20	AAL-05-4
ADKT-GPR-L-10-3C-R063	0.625	0.625	5.000	0.637	0.630	GP.-3	2004-M8x1x20	AAL-05-4
ADKT-GPR-L-12-3C-R079	0.750	0.750	5.000	0.762	0.790	GP.-3	2004-M8x1x20	AAL-05-4
ADKT-GPR-L-12-3C-R094	0.750	0.750	5.000	0.762	0.940	GP.-3	2004-M8x1x20	AAL-05-4
ADKT-GPR-L-16-3D-R079	1.000	1.000	6.000	10.120	0.790	GP.-3	2004-M8x1x20	AAL-05-4
ADKT-GPR-L-16-3E-R126	1.000	1.000	7.000	10.120	1.260	GP.-3	2004-M8x1x20	AAL-05-4
ADKT-GPR-L-16-4E-R126	1.000	1.000	7.000	10.157	1.260	GP.-4	2004-M8x1x20	AAL-05-4
ADKT-GPR-L-16-5E-R126	1.000	1.000	7.000	10.196	1.260	GP.-5	2004-M8x1x20	AAL-05-4
ADKT-GPR-L-16-6E-R126	1.000	1.000	7.000	10.196	1.260	GP.-6	2004-M8x1x20	AAL-05-4

Compatible with PLBT Insert.

the spoken quality...

U-DRILL

DRILLING AND HOLEMAKING TOOLS



AKKO

A

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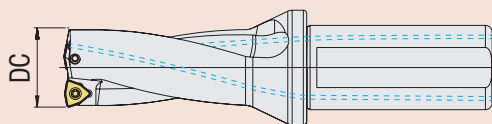
04

11

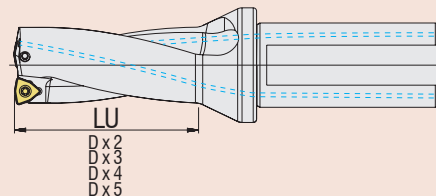
2 Cutter Style

TUM: U-Drill

3 Tool Diameter



4 Drilling Depth



5 Insert Form

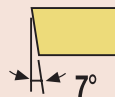


W



S

6 Clearance angle of Insert



C



P

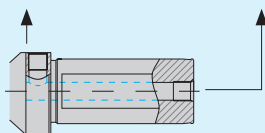


Company Name:

Date:

Coolant type

☐ Oil Hole On the Plunge Part

☐ "Oil hole On the Shank"


Types of Shank

☐ Flat Type

☐ Weldon Type

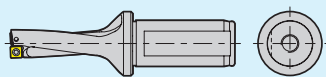
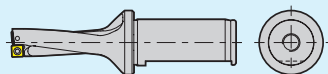
☐ Whistle Notch Type

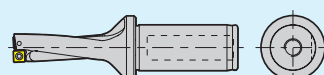
Hole Type

☐ Blind Hole

☐ Thru Hole

Location of Side Lock

☐ Parallel to Peripheral Insert (Standard)

☐ 90° angle to peripheral insert

☐ 150° angle to peripheral insert

☐ 180° angle to peripheral insert


Note

Currently Using Tool

Current Cutting Condition

RPM or vc(m/min)

vf(mm/min) or fn(mm/rev) vf

Depth of Cut(mm)

Standard of Measuring Tool Life

Currently Using Machine

Machining Center

General Lathe

CNC Lathe

Can you send the original body/insert ? If Needed!

Yes

No

☐
☐

Insert Code

Insert Brand

Rectangular Shank Tool Size

ØD

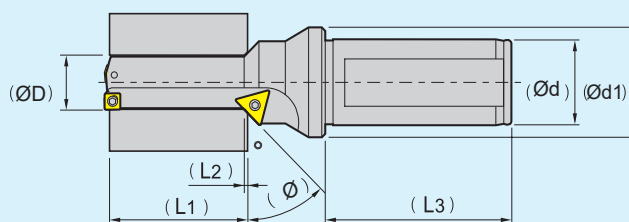
L2

L1

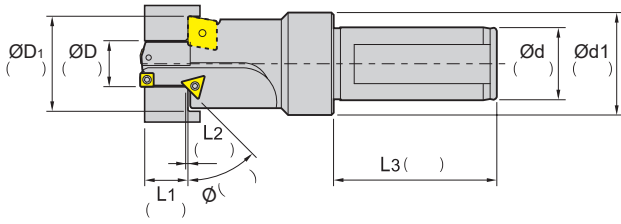
L3

Ød

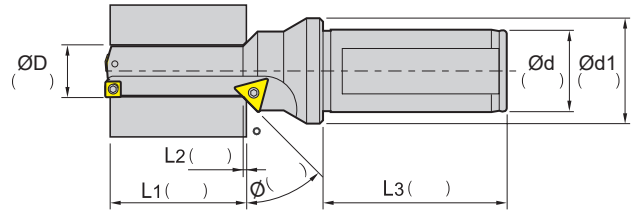
Ød1



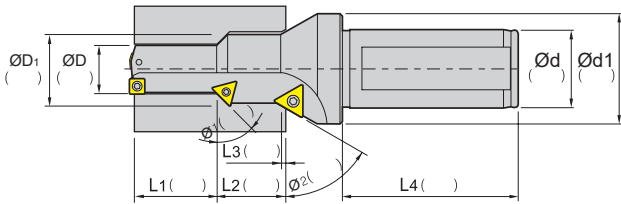
☐ A Type



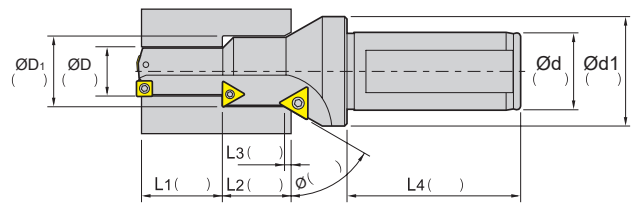
☐ B Type



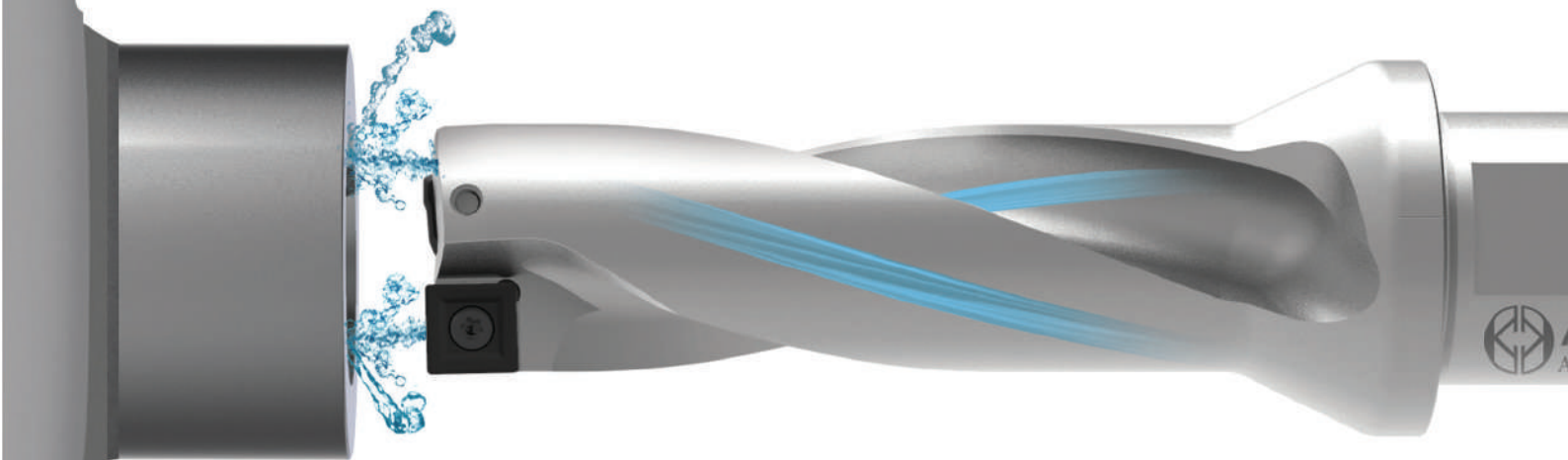
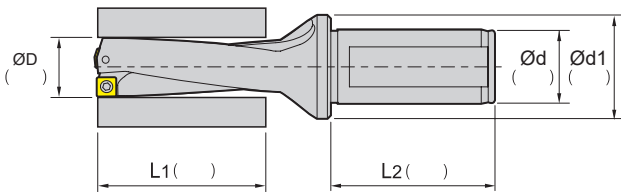
☐ C Type



☐ D Type



☐ E Type

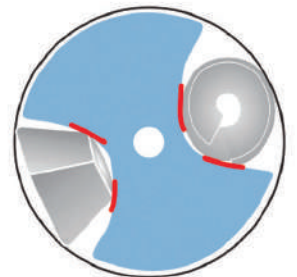


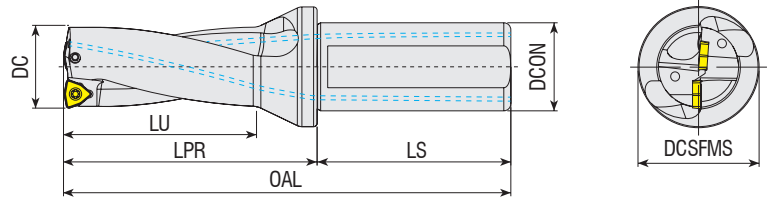
D2 / D3 / D4 / D5

✱ *Twisted Coolant Hole*

AKKO HELICAL CHANNEL TECHNOLOGY

COMPETITORS





Illustrations shown may vary from actual product.

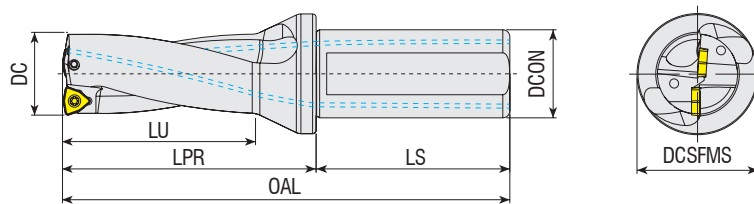
Dimensions in Inch

Ordering Code	DC	DCON	DCSFMS	OAL	LU	LPR	LS	Xmax	DCmax	Insert Inch/Metric	Screw	Torx Key
ATUM 0750XD3 WCM. 18152 WCM. 030208	0.750	1.000	1.339	5.321	2.250	3.116	2.205	0.047	0.844	WCM. 18152 WCM. 030208	3008-M2.5x6	82-T08
ATUM 0812XD3 WCM. 2152 WCM. 040208	0.812	1.000	1.339	5.507	2.436	3.302	2.205	0.591	1.993	WCM. 2152 WCM. 040208	3008-M2.5x6	82-T08
ATUM 0875XD3 WCM. 2152 WCM. 040208	0.875	1.000	1.339	5.696	2.625	3.491	2.205	0.039	0.954	WCM. 2152 WCM. 040208	3008-M2.5x6	82-T08
ATUM 0938XD3 WCM. 2522 WCM. 050308	0.938	1.000	1.339	5.885	2.814	3.680	2.205	0.039	1.017	WCM. 2522 WCM. 050308	3008-M3x8	82-T08
ATUM 1000XD3 WCM. 2522 WCM. 050308	1.000	1.000	1.339	6.071	3.000	3.866	2.205	0.057	1.114	WCM. 2522 WCM. 050308	3008-M3x8	82-T08
ATUM 1062XD3 WCM. 2522 WCM. 050308	1.062	1.000	1.339	6.257	3.186	4.052	2.205	0.057	1.176	WCM. 2522 WCM. 050308	3008-M3x8	82-T08
ATUM 1125XD3 WCM. 2522 WCM. 050308	1.125	1.000	1.339	6.446	3.375	4.241	2.205	0.063	1.251	WCM. 2522 WCM. 050308	3008-M3x8	82-T08
ATUM 1250XD3 WCM. 3252 WCM. 06T308	1.250	1.250	1.732	7.175	3.750	4.813	2.362	0.087	1.423	WCM. 3252 WCM. 06T308	3010-M3.5x9	82-T10
ATUM 1375XD3 WCM. 3252 WCM. 06T308	1.375	1.250	1.732	7.550	4.125	5.188	2.362	0.075	1.525	WCM. 3252 WCM. 06T308	3010-M3.5x9	82-T10
ATUM 1500XD3 WCM. 3252 WCM. 06T308	1.500	1.250	1.732	7.925	4.500	5.563	2.362	0.059	1.618	WCM. 3252 WCM. 06T308	3010-M3.5x9	82-T10
ATUM 1750XD3 WCM. 3252 WCM. 06T308	1.750	1.250	1.732	8.675	5.250	6.313	2.362	0.000	1.750	WCM. 3252 WCM. 06T308	3010-M3.5x9	82-T10
ATUM 2000XD3 WCM. 433 WCM. 080412	2.000	1.500	2.126	10.016	6.000	7.260	2.756	0.079	2.157	WCM. 433 WCM. 080412	4015-M4x11	80-T15
ATUM 0750XD5 WCM. 18152 WCM. 030208	0.750	1.000	1.339	6.821	3.750	4.616	2.205	0.047	0.844	WCM. 18152 WCM. 030208	3008-M2.5x6	82-T08
ATUM 0812XD5 WCM. 2152 WCM. 040208	0.812	1.000	1.339	7.131	4.060	4.926	2.205	0.059	0.930	WCM. 2152 WCM. 040208	3008-M2.5x6	82-T08
ATUM 0875XD5 WCM. 2152 WCM. 040208	0.875	1.000	1.339	7.446	4.375	5.241	2.205	0.039	0.954	WCM. 2152 WCM. 040208	3008-M2.5x6	82-T08
ATUM 0938XD5 WCM. 2522 WCM. 050308	0.938	1.000	1.339	7.762	4.690	5.556	2.205	0.039	1.017	WCM. 2522 WCM. 050308	3008-M3x8	82-T08
ATUM 1000XD5 WCM. 2522 WCM. 050308	1.000	1.000	1.339	8.071	5.000	5.866	2.205	0.057	1.114	WCM. 2522 WCM. 050308	3008-M3x8	82-T08
ATUM 1062XD5 WCM. 2522 WCM. 050308	1.062	1.000	1.339	8.381	5.310	6.176	2.205	0.057	1.176	WCM. 2522 WCM. 050308	3008-M3x8	82-T08
ATUM 1125XD5 WCM. 2522 WCM. 050308	1.125	1.000	1.339	8.696	5.625	6.491	2.205	0.063	1.251	WCM. 2522 WCM. 050308	3008-M3x8	82-T08
ATUM 1250XD5 WCM. 3252 WCM. 06T308	1.250	1.250	1.732	9.675	6.250	7.313	2.362	0.087	1.423	WCM. 3252 WCM. 06T308	3010-M3.5x9	82-T10
ATUM 1375XD5 WCM. 3252 WCM. 06T308	1.375	1.250	1.732	10.300	6.875	7.938	2.362	0.075	1.525	WCM. 3252 WCM. 06T308	3010-M3.5x9	82-T10
ATUM 1500XD5 WCM. 3252 WCM. 06T308	1.500	1.250	1.732	10.925	7.500	8.563	2.362	0.059	1.618	WCM. 3252 WCM. 06T308	3010-M3.5x9	82-T10
ATUM 1750XD5 WCM. 3252 WCM. 06T308	1.750	1.250	1.732	12.175	8.750	9.813	2.362	0.000	1.750	WCM. 3252 WCM. 06T308	3010-M3.5x9	82-T10

Compatible with ISO Insert.



Illustrations shown may vary from actual product.



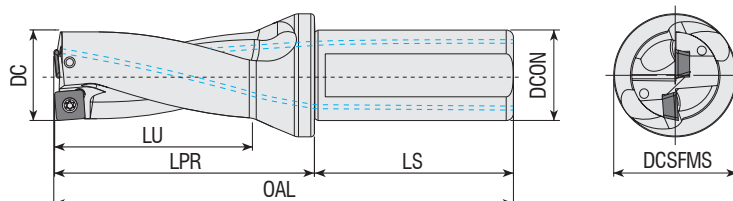
Dimensions in Inch

Ordering Code	DC	DCON	DCSFMS	OAL	LU	LPR	LS	Xmax	DCmax	Insert Inch/Metric	Screw	Torx Key
ATUM 2000XD5 WCM. 433 WCM. 080412	2.000	1.500	2.126	14.016	10.000	11.260	2.756	0.079	2.157	WCM. 433 WCM. 080412	4015-M4x11	80-T15
ATUM 2125XD5 WCM. 433 WCM. 080412	2.125	1.500	2.126	14.509	10.625	11.884	2.756	0.039	2.204	WCM. 433 WCM. 080412	4015-M4x11	80-T15
ATUM 2225XD5 WCM. 433 WCM. 080412	2.225	1.500	2.519	15.009	11.125	12.384	2.756	0.020	2.264	WCM. 433 WCM. 080412	4015-M4x11	80-T15

Compatible with ISO Insert.



Illustrations shown may vary from actual product.



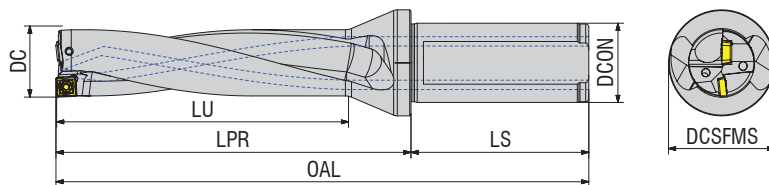
Dimensions in Inch

Ordering Code	DC	DCON	DCSFMS	OAL	LU	LPR	LS	Xmax	DCmax	Insert Inch/Metric	Screw	Torx Key
ATUM 0656XD3 SP. 2151 SP. 060204	0.656	1.000	1.339	4.961	2.086	2.756	2.205	0.031	0.719	SP. 2151 SP. 060204	3007-M2.2x5	80-T07
ATUM 1000XD5 SP. 25252 SP. 07T308	1.000	1.250	1.732	8.438	5.000	6.063	2.375	0.010	1.020	SP. 25252 SP. 07T308	3008-M2.5x6	80-T08
ATUM 1125XD5 SP. 332 SP. 090408	1.125	1.250	1.732	9.062	5.434	6.687	2.375	0.039	1.204	SP. 332 SP. 090408	4015-M3.5x9	80-T15
ATUM 1250XD5 SP. 332 SP. 090408	1.250	1.500	2.126	10.134	6.053	7.509	2.625	0.010	1.270	SP. 332 SP. 090408	4015-M3.5x9	80-T15
ATUM 1500XD5 SP. 3532 SP. 110408	1.500	1.500	2.126	11.385	7.303	8.760	2.625	0.010	1.520	SP. 3532 SP. 110408	4015-M4x11	80-T15
ATUM 1625XD5 SP. 3532 SP. 110408	1.625	1.500	2.126	12.010	7.928	9.385	2.625	0.000	1.625	SP. 3532 SP. 110408	4015-M4x11	80-T15
ATUM 1750XD5 SP. 3532 SP. 110408	1.750	1.500	2.126	12.634	8.553	10.009	2.625	0.031	1.813	SP. 3532 SP. 110408	1020-M5x11	80-T20
ATUM 1875XD5 SP. 3532 SP. 110408	1.875	1.500	2.126	13.259	9.178	10.634	2.625	0.008	1.891	SP. 3532 SP. 110408	1020-M5x11	80-T20

Compatible with TGTC Insert.



Illustrations shown may vary from actual product.



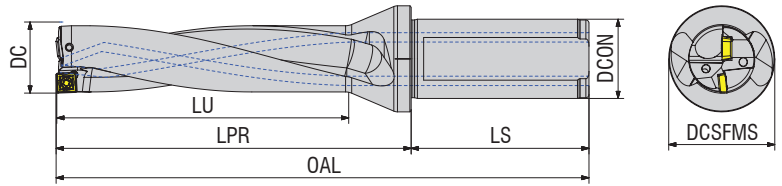
Dimensions in Inch

Ordering Code	DC	DCON	DCSFMS	OAL	LU	LPR	LS	Xmax	DCmax	Inner Insert Inch/Metric	Outer Insert Inch/Metric	Inner Screw	Torx Key
ATUM 0594XD3 SC.. 0502-XP.. 0502	0.594	1.000	1.339	5.012	1.783	2.768	2.244	0.020	0.633	XP.. 1815.. XP..0502..	SC.. 1815.. SC..0502..	3007-M2.2x5	80-T07
ATUM 0625XD3 SC.. 0502-XP.. 0502	0.625	1.000	1.339	5.109	1.875	2.865	2.244	0.035	0.696	XP.. 1815.. XP..0502..	SC.. 1815.. SC..0502..	3007-M2.2x5	80-T07
ATUM 0656XD3 SC.. 0502-XP.. 0502	0.656	1.000	1.339	5.197	1.969	2.953	2.244	0.031	0.719	XP.. 1815.. XP..0502..	SC.. 1815.. SC..0502..	3007-M2.2x5	80-T07
ATUM 0687XD3 SC.. 0502-XP.. 0602	0.687	1.000	1.339	5.285	2.061	3.041	2.244	0.030	0.746	XP.. 215.. XP..0602..	SC.. 1815.. SC..0502..	3007-M2.2x5	80-T07
ATUM 0709XD3 SC.. 0502-XP.. 0602	0.709	1.000	1.339	5.354	2.127	3.110	2.244	0.020	0.748	XP.. 215.. XP..0602..	SC.. 1815.. SC..0502..	3007-M2.2x5	80-T07
ATUM 0750XD3 SC.. 0502-XP.. 0602	0.75	1.000	1.339	5.476	2.250	3.232	2.244	0.012	0.774	XP.. 215.. XP..0602..	SC.. 1815.. SC..0502..	3007-M2.2x5	80-T07
ATUM 0766XD3 SC.. 0602-XP.. 0602	0.766	1.000	1.339	5.528	2.298	3.284	2.244	0.012	0.790	XP.. 215.. XP..0602..	SC.. 215.. SC..0602..	3007-M2.2x5	80-T08
ATUM 0787XD3 SC.. 0602-XP.. 0602	0.787	1.000	1.339	5.591	2.361	3.347	2.244	0.000	0.787	XP.. 215.. XP..0602..	SC.. 215.. SC..0602..	3007-M2.2x5	80-T08
ATUM 0812XD3 SC.. 0602-XP.. 0602	0.812	1.000	1.339	5.665	2.436	3.421	2.244	0.000	0.812	XP.. 215.. XP..0602..	SC.. 215.. SC..0602..	3007-M2.2x5	80-T08
ATUM 0827XD3 SC.. 0602-XP.. 0602	0.827	1.000	1.339	5.709	2.481	3.465	2.244	0.000	0.827	XP.. 215.. XP..0602..	SC.. 215.. SC..0602..	3007-M2.2x5	80-T08
ATUM 0875XD3 SC.. 0602-XP.. 0703	0.875	1.000	1.339	5.854	2.625	3.610	2.244	0.039	0.954	XP.. 252.. XP..0703..	SC.. 215.. SC..0602..	3008-M2.5x6	80-T08
ATUM 0906XD3 SC.. 0703-XP.. 0703	0.906	1.000	1.339	5.954	2.718	3.710	2.244	0.030	0.965	XP.. 252.. XP..0703..	SC.. 252.. SC..0703..	3008-M2.5x6	80-T08
ATUM 0922XD3 SC.. 0703-XP.. 0703	0.922	1.000	1.339	5.996	2.766	3.752	2.244	0.030	0.981	XP.. 252.. XP..0703..	SC.. 252.. SC..0703..	3008-M2.5x6	80-T08
ATUM 0937XD3 SC.. 0703-XP.. 0703	0.937	1.000	1.339	6.039	2.811	3.795	2.244	0.024	0.984	XP.. 252.. XP..0703..	SC.. 252.. SC..0703..	3008-M2.5x6	80-T08
ATUM 0984XD3 SC.. 0703-XP.. 0703	0.984	1.250	1.732	6.299	2.952	3.937	2.362	0.010	1.004	XP.. 252.. XP..0703..	SC.. 252.. SC..0703..	3008-M2.5x6	80-T08
ATUM 1000XD3 SC.. 0703-XP.. 0703	1.000	1.250	1.732	6.346	2.992	3.984	2.362	0.010	1.020	XP.. 252.. XP..0703..	SC.. 252.. SC..0703..	3008-M2.5x6	80-T08
ATUM 1032XD3 SC.. 0703-XP.. 0903	1.032	1.250	1.732	6.441	3.096	4.079	2.362	0.000	1.032	XP.. 32.. XP..0903..	SC.. 252.. SC..0703..	3008-M3x7	80-T08
ATUM 1062XD3 SC.. 0703-XP.. 0903	1.062	1.250	1.732	6.531	3.186	4.169	2.362	0.000	1.062	XP.. 32.. XP..0903..	SC.. 252.. SC..0703..	3008-M3x7	80-T08
ATUM 1109XD3 SC.. 09T3-XP.. 0903	1.109	1.250	1.732	6.673	3.327	4.311	2.362	0.039	1.188	XP.. 32.. XP..0903..	SC.. 325.. SC..09T3..	3008-M3x7	80-T15
ATUM 1125XD3 SC.. 09T3-XP.. 0903	1.125	1.250	1.732	6.720	3.375	4.358	2.362	0.039	1.204	XP.. 32.. XP..0903..	SC.. 325.. SC..09T3..	3008-M3x7	80-T15
ATUM 1172XD3 SC.. 09T3-XP.. 0903	1.172	1.250	1.732	6.862	3.516	4.500	2.362	0.030	1.231	XP.. 32.. XP..0903..	SC.. 325.. SC..09T3..	3008-M3x7	80-T15
ATUM 1187XD3 SC.. 09T3-XP.. 0903	1.187	1.250	1.732	6.906	3.561	4.544	2.362	0.020	1.226	XP.. 32.. XP..0903..	SC.. 325.. SC..09T3..	3008-M3x7	80-T15

Compatible with PRMT Insert.



Illustrations shown may vary from actual product.



Dimensions in Inch													
Ordering Code	DC	DCON	DCSFMS	OAL	LU	LPR	LS	Xmax	DCmax	Inner Insert Inch/Metric	Outer Insert Inch/Metric	Screw	Torx Key
ATUM 1250XD3 SC.. 09T3-XP.. 11T3	1.250	1.500	2.126	7.370	3.750	4.732	2.638	0.010	1.270	XP.. 3525.. XP..11T3..	SC.. 325.. SC..09T3..	4015-M3.5x9	80-T15
ATUM 1312XD3 SC.. 09T3-XP.. 11T3	1.312	1.500	2.126	7.559	3.936	4.921	2.638	0.000	1.312	XP.. 3525.. XP..11T3..	SC.. 325.. SC..09T3..	4015-M3.5x9	80-T15
ATUM 1344XD3 SC.. 09T3-XP.. 11T3	1.344	1.500	2.126	7.654	4.032	5.016	2.638	0.039	1.423	XP.. 3525.. XP..11T3..	SC.. 325.. SC..09T3..	4015-M3.5x9	80-T15
ATUM 1375XD3 SC.. 1204-XP.. 11T3	1.375	1.500	2.126	7.748	4.125	5.110	2.638	0.030	1.434	XP.. 3525.. XP..11T3..	SC.. 43.. SC..1204..	4015-M3.5x9	80-T20
ATUM 1437XD3 SC.. 1204-XP.. 11T3	1.437	1.500	2.126	7.933	4.311	5.295	2.638	0.024	1.484	XP.. 3525.. XP..11T3..	SC.. 43.. SC..1204..	4015-M3.5x9	80-T20
ATUM 1500XD3 SC.. 1204-XP.. 11T3	1.500	1.500	2.126	8.112	4.500	5.474	2.638	0.010	1.520	XP.. 3525.. XP..11T3..	SC.. 43.. SC..1204..	4015-M3.5x9	80-T20
ATUM 1750XD3 SC.. 1204-XP.. 1504	1.750	1.500	2.126	8.843	5.250	6.205	2.638	0.031	1.813	XP.. 53.. XP..1504..	SC.. 43.. SC..1204..	4015-M4x11	80-T20
ATUM 2000XD3 SC.. 1505-XP.. 1504	2.000	1.500	2.126	9.626	6.000	6.988	2.638	0.000	2.000	XP.. 53.. XP..1504..	SC.. 535.. SC..1505..	4015-M4x11	80-T20
ATUM 0625XD4 SC.. 0502-XP.. 0502	0.625	1.000	1.339	5.728	2.500	3.484	2.244	0.020	0.665	XP.. 1815.. XP..0502..	SC.. 1815.. SC..0502..	3007-M2.2x5	80-T07
ATUM 0687XD4 SC.. 0502-XP.. 0602	0.687	1.000	1.339	5.976	2.748	3.732	2.244	0.030	0.746	XP.. 215.. XP..0602..	SC.. 1815.. SC..0502..	3007-M2.2x5	80-T07
ATUM 0709XD4 SC.. 0502-XP.. 0602	0.709	1.000	1.339	6.063	2.836	3.819	2.244	0.020	0.748	XP.. 215.. XP..0602..	SC.. 1815.. SC..0502..	3007-M2.2x5	80-T07
ATUM 0750XD4 SC.. 0502-XP.. 0602	0.750	1.000	1.339	6.228	3.000	3.984	2.244	0.012	0.774	XP.. 215.. XP..0602..	SC.. 1815.. SC..0502..	3007-M2.2x5	80-T07
ATUM 0812XD4 SC.. 0602-XP.. 0602	0.812	1.000	1.339	6.476	3.248	4.232	2.244	0.000	0.812	XP.. 215.. XP..0602..	SC.. 215.. SC..0602..	3007-M2.2x5	80-T08
ATUM 0875XD4 SC.. 0602-XP.. 0703	0.875	1.000	1.339	6.728	3.500	4.484	2.244	0.039	0.954	XP.. 252.. XP..0703..	SC.. 215.. SC..0602..	3008-M2.5x6	80-T08
ATUM 0906XD4 SC.. 0703-XP.. 0703	0.906	1.000	1.339	6.850	3.624	4.606	2.244	0.030	0.965	XP.. 252.. XP..0703..	SC.. 252.. SC..0703..	3008-M2.5x6	80-T08
ATUM 0922XD4 SC.. 0703-XP.. 0703	0.922	1.000	1.339	6.917	3.688	4.673	2.244	0.030	0.981	XP.. 252.. XP..0703..	SC.. 252.. SC..0703..	3008-M2.5x6	80-T08
ATUM 1000XD4 SC.. 0703-XP.. 0703	1.000	1.250	1.732	7.346	4.000	4.984	2.362	0.010	1.020	XP.. 252.. XP..0703..	SC.. 252.. SC..0703..	3008-M2.5x6	80-T08
ATUM 1062XD4 SC.. 0703-XP.. 0903	1.062	1.250	1.732	7.594	4.248	5.232	2.362	0.000	1.062	XP.. 32.. XP..0903..	SC.. 252.. SC..0703..	3008-M3x7	80-T08
ATUM 1125XD4 SC.. 09T3-XP.. 0903	1.125	1.250	1.732	7.846	4.500	5.484	2.362	0.039	1.204	XP.. 32.. XP..0903..	SC.. 325.. SC..09T3..	3008-M3x7	80-T15
ATUM 1187XD4 SC.. 09T3-XP.. 0903	1.187	1.250	1.732	8.094	4.748	5.732	2.362	0.020	1.226	XP.. 32.. XP..0903..	SC.. 325.. SC..09T3..	3008-M3x7	80-T15

Compatible with PRMT Insert.

*the spoken
quality...*



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the spoken quality...

S-SYSTEM END MILLS





2 Cutter Style

FM: Face Milling Tools
 EM: End Face Milling Tools
 CM: Chamfering End Milling Tools
 HM: Helix End Milling Tools
 TSM: T Slot Milling Tools
 HFM: High Feed Milling Tools
 PMR: Ball Nose End Milling Tools
 SDM: Slot Disc Milling
 CBM: Countersink Milling Tool for Cylindrical Allen Head Screws

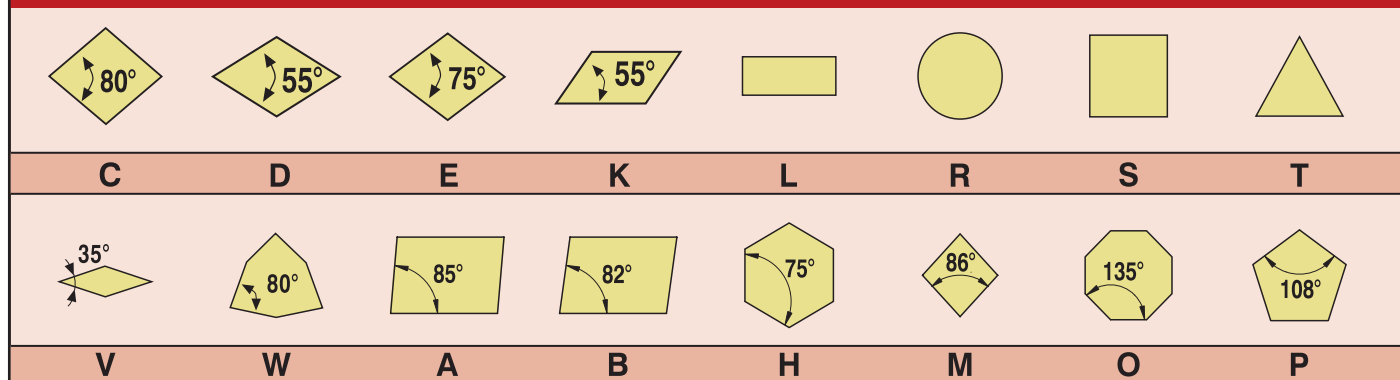
3 Lead Angle

90° - 75° - 60° - 45°
 20° - 15° - 11° - 5° - 0°

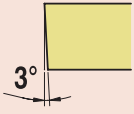
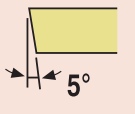
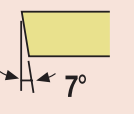
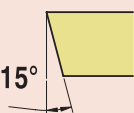
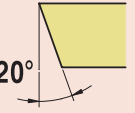
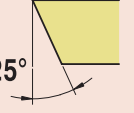
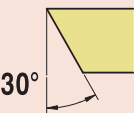
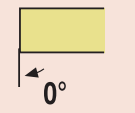
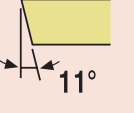
4 Lead Angle

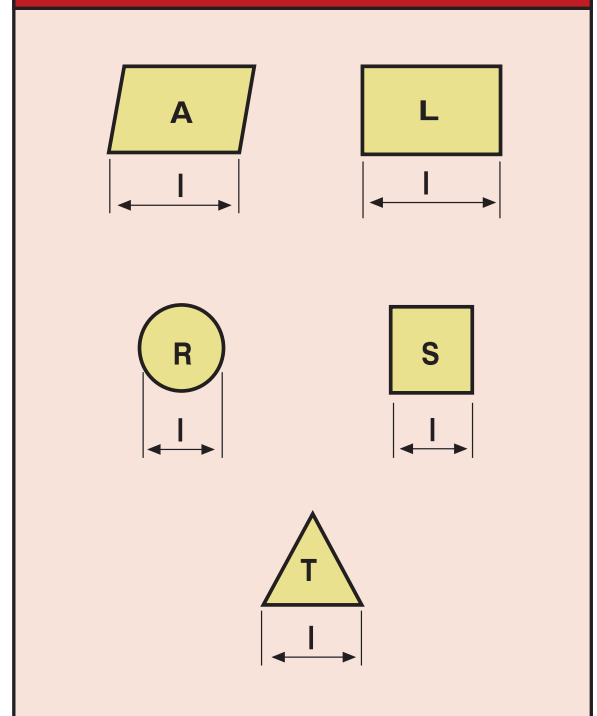
L: Left
 C: Clamp
 S: Shim
 CL: Left Way with Clamp
 CS: Clamp with Shim
 CSL: Left Way Clamp with Shim

5 Type of Insert

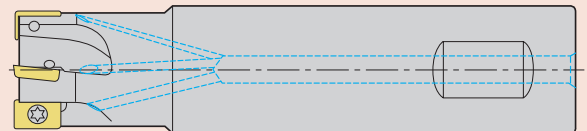


6 *Clearance angle of Insert*

		
A	B	C
		
D	E	F
		
G	N	P

7 *Cutting Edge Length***8** *Tool Diameter***9** *Assembly Form and Diameter*

Assembly Form and Diameter
Cylindrical Shank
W: Weldon

10 *Tool Length***11** *Number of Effective Tooth***12** *With Coolant Hole*



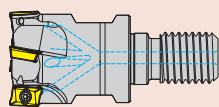
Company Name:

Date:

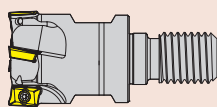
Milling Body Types

A Type ☐
B Type ☐
C Type ☐
D Type ☐
E Type ☐
F Type ☐
Special Type ☐

Coolant Info



Coolant Hole

☐


Without Coolant Hole

☐

Differential Pitch

Yes

☐

No

☐

Insert Code

Insert Brand

Can you send the original body/insert ? If Needed!

Yes

☐

No

☐

Shank Type

Weldon Type ☐
Cylindrical Type ☐
Moduler Type ☐
Mors Type ☐
HSK Type ☐
Polygonal Type ☐
Arbor Type ☐

Cutter Type

Highfeed Type

☐

Angle Type

Milling Tool Size

DC

DCON

LF

Z (number of the flutes)

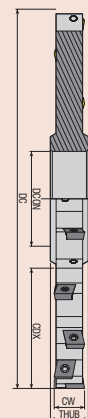
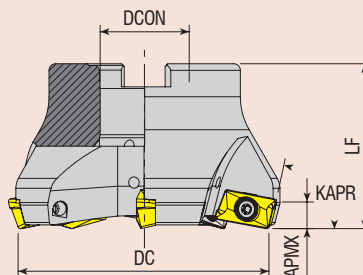
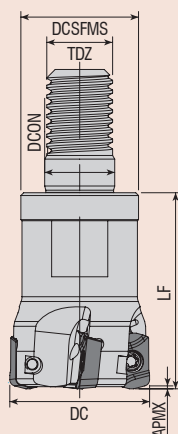
DCX

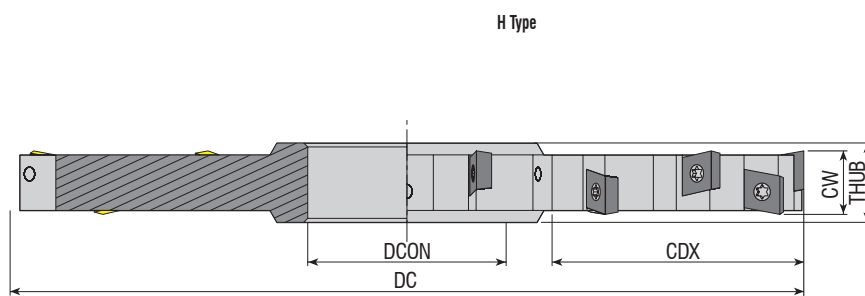
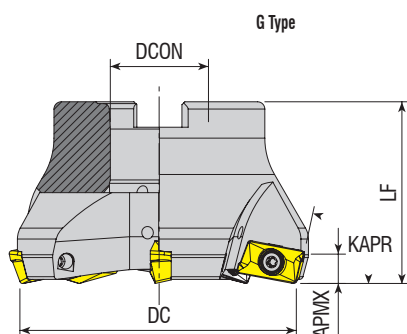
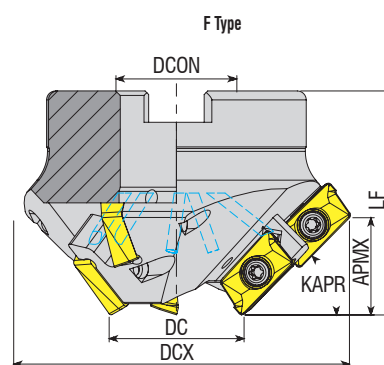
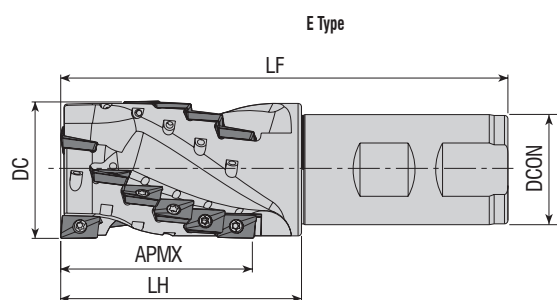
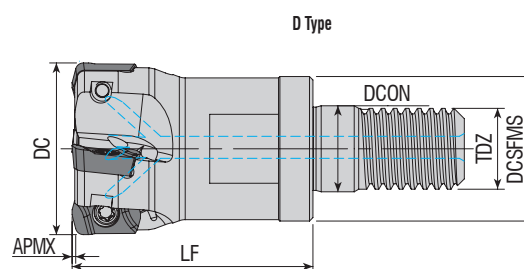
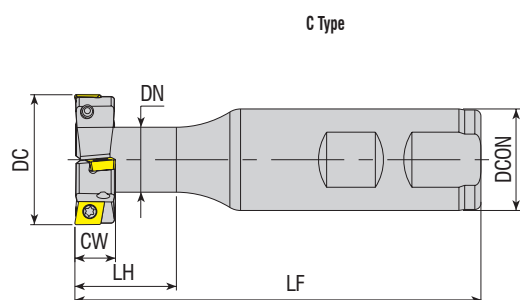
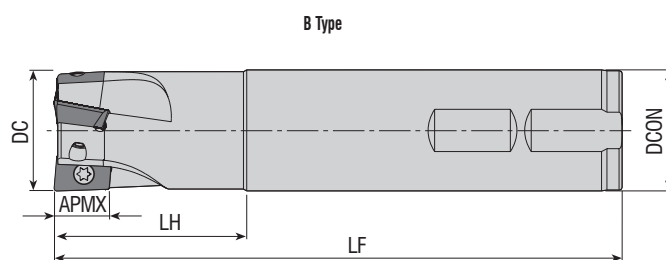
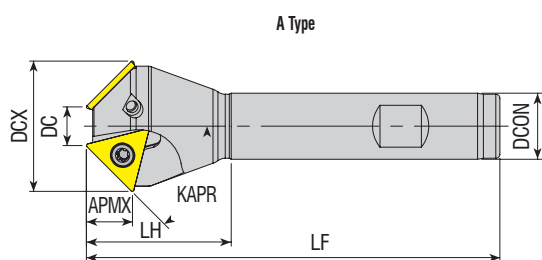
KAPR

CW

LH

THUB



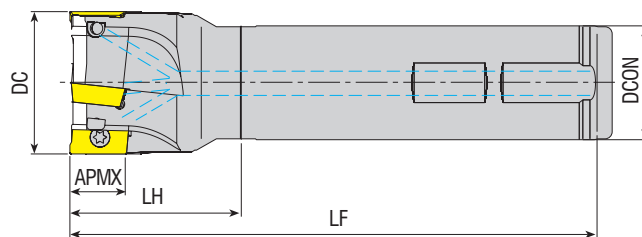


X Type (special)

[illegible]



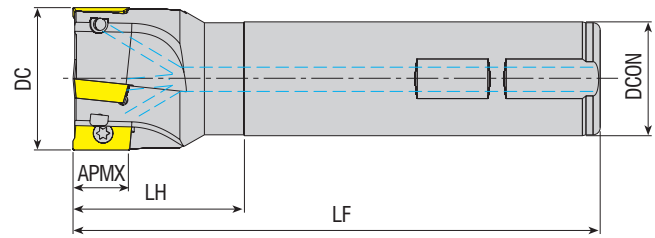
Illustrations shown may vary from actual product.



Dimensions in Inch

Ordering Code	DC	ZEFP	DCON	LF	LH	APMX	Insert Inch/Metric	Screw	Torx Key
AEM90-AP10PR-D0375-W0500-L0300-Z01-H	0.375	1	0.500	3.000	0.640	0.394	- AP. 1003..	3008-M2.5x5	80-T08
AEM90-AP10PR-D0500-W0625-L0325-Z01-H	0.500	1	0.625	3.250	0.750	0.394	- AP. 1003..	3008-M2.5x5	80-T08
AEM90-AP10PR-D0625-W0625-L0325-Z02-H	0.625	2	0.625	3.250	1.000	0.394	- AP. 1003..	3008-M2.5x5	80-T08
AEM90-AP10PR-D0750-W0750-L0400-Z02-H	0.750	2	0.750	4.000	1.000	0.394	- AP. 1003..	3008-M2.5x5	80-T08
AEM90-AP10PR-D0750-W0750-L0400-Z03-H	0.750	3	0.750	4.000	1.000	0.394	- AP. 1003..	3008-M2.5x5	80-T08
AEM90-AP10PR-D0750-W0750-L0787-Z03-H	0.750	3	0.750	7.870	1.000	0.394	- AP. 1003..	3008-M2.5x5	80-T08
AEM90-AP10PR-D1000-W1000-L0450-Z04-H	1.000	4	1.000	4.500	1.260	0.394	- AP. 1003..	3008-M2.5x5	80-T08
AEM90-AP10PR-D1250-W1000-L0500-Z05-H	1.250	5	1.000	5.000	1.000	0.394	- AP. 1003..	3008-M2.5x5	80-T08

Compatible with PRMT insert



Illustrations shown may vary from actual product.

Dimensions in Inch

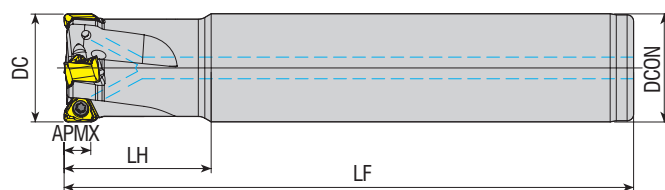
Ordering Code	DC	ZEFP	DCON	LF	LH	APMX	Insert Inch/Metric	Screw	Torx Key
AEM90-AP10-D0625-W0625-L0350-Z02-H	0.625	2	0.625	3.500	1.200	0.394	- AP. 1003..	3008-M2.5x6	80-T08
AEM90-AP10-D0625-W0625-L1000-Z02-H	0.625	2	0.625	10.000	1.200	0.394	- AP. 1003..	3008-M2.5x6	80-T08
AEM90-AP10-D0750-W0750-L0350-Z03-H	0.750	3	0.750	3.500	1.200	0.394	- AP. 1003..	3008-M2.5x6	80-T08
AEM90-AP10-D0750-W0750-L0400-Z03-H	0.750	3	0.750	4.000	1.500	0.394	- AP. 1003..	3008-M2.5x6	80-T08
AEM90-AP10-D0750-W0750-L1000-Z03-H	0.750	3	0.750	10.000	1.200	0.394	- AP. 1003..	3008-M2.5x6	80-T08
AEM90-AP10-D1000-W0750-L0400-Z03-H	1.000	3	0.750	4.000	1.300	0.394	- AP. 1003..	3008-M2.5x6	80-T08
AEM90-AP10-D1000-W1000-L0400-Z03-H	1.000	3	1.000	4.000	1.500	0.394	- AP. 1003..	3008-M2.5x6	80-T08

Compatible with ISO insert





Illustrations shown may vary from actual product.



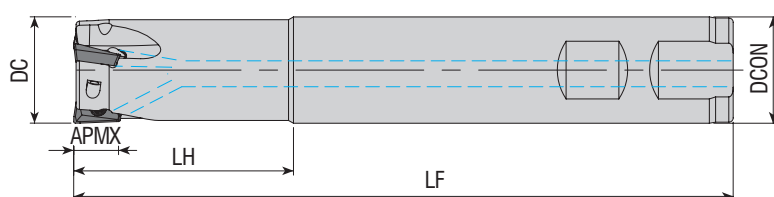
Dimensions in Inch

Ordering Code	DC	ZEFP	DCON	LF	LH	APMX	Insert Inch/Metric	Screw	Torx Key
AEM90-TNG16-D1000-W1000-L0400-Z02-H	1.000	2	1.000	4.000	1.654	0.394	TNGX 34.. TNGX 1606..	3015-M4x11	80-T15
AEM90-TNG16-D1000-W1000-L0600-Z02-H	1.000	2	1.000	6.000	1.654	0.394	TNGX 34.. TNGX 1606..	3015-M4x11	80-T15
AEM90-TNG16-D1250-W1000-L0450-Z03-H	1.250	3	1.000	4.500	1.654	0.394	TNGX 34.. TNGX 1606..	3015-M4x11	80-T15

Compatible with PRMT insert



Illustrations shown may vary from actual product.



Dimensions in Inch

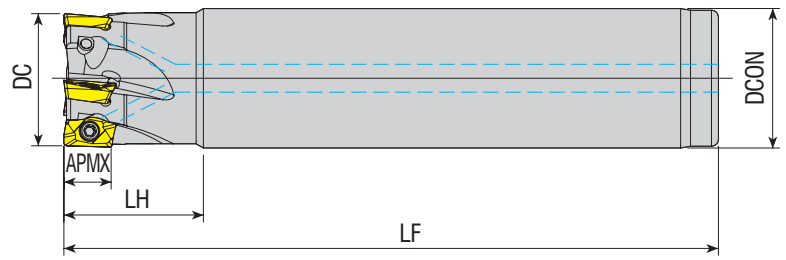
Ordering Code	DC	ZEFP	DCON	LF	LH	APMX	Insert Inch/Metric	Screw	Torx Key
AEM90-AD16PR-D1000-W1000-L0378-Z02-H	1.000	2	1.000	3.780	1.280	0.600	- AD.. 1606..	4015-M4x9	80-T15
AEM90-AD16PR-D1000-C1000-L0650-Z02-H	1.000	2	1.000	6.500	1.300	0.600	- AD.. 1606..	4015-M4x9	80-T15
AEM90-AD16PR-D1500-W1250-L0435-Z04-H	1.500	4	1.250	4.350	1.500	0.600	- AD.. 1606..	4015-M4x9	80-T15

Compatible with PRMT insert

KAPR=90°



Illustrations shown may vary from actual product.



Dimensions in Inch

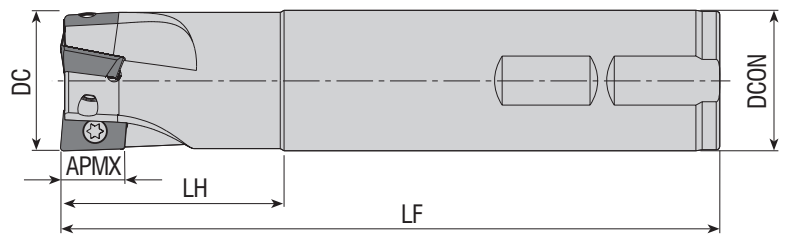
Ordering Code	DC	ZEFP	DCON	LF	LH	APMX	Insert Inch/Metric	Screw	Torx Key
AEM90-AD11-D0625-W0625-L0325-Z02-H	0.625	2	0.625	3.250	1.063	0.354	- ADMX 11T3	3008-M2.5x5	80-T08
AEM90-AD11-D0625-C0625-L0325-Z02-H	0.625	2	0.625	3.250	1.063	0.354	- ADMX 11T3	3008-M2.5x5	80-T08
AEM90-AD11-D0625-C0625-L0531-Z02-H	0.625	2	0.625	5.315	1.969	0.354	- ADMX 11T3	3008-M2.5x5	80-T08
AEM90-AD11-D0750-W0750-L0400-Z02-H	0.750	2	0.750	4.000	1.260	0.354	- ADMX 11T3	3008-M2.5x5	80-T08
AEM90-AD11-D0750-W0750-L0400-Z03-H	0.750	3	0.750	4.000	1.260	0.354	- ADMX 11T3	3008-M2.5x5	80-T08
AEM90-AD11-D0750-C0750-L0600-Z03-H	0.750	3	0.750	6.000	1.142	0.354	- ADMX 11T3	3008-M2.5x5	80-T08
AEM90-AD11-D1000-W1000-L0450-Z03-H	1.000	3	1.000	4.500	1.280	0.354	- ADMX 11T3	3008-M2.5x5	80-T08
AEM90-AD11-D1000-W1000-L0450-Z04-H	1.000	4	1.000	4.500	1.260	0.354	- ADMX 11T3	3008-M2.5x5	80-T08
AEM90-AD11-D1000-C1000-L0670-Z03-H	1.000	3	1.000	6.700	3.150	0.354	- ADMX 11T3	3008-M2.5x5	80-T08
AEM90-AD11-D1000-C1000-L0670-Z04-H	1.000	4	1.000	6.700	1.339	0.354	- ADMX 11T3	3008-M2.5x5	80-T08

Compatible with PRMT insert

KAPR=90°



Illustrations shown may vary from actual product.



Dimensions in Inch

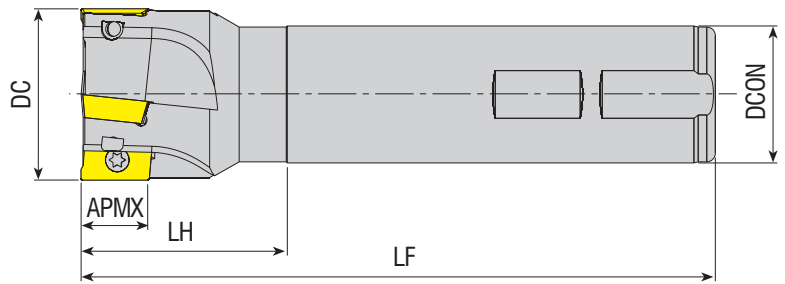
Ordering Code	DC	ZEFP	DCON	LF	LH	APMX	Insert Inch/Metric	Screw	Torx Key
AEM90-AD1505-D1000-W1000-L0450-Z02-PR	1.000	2	1.000	4.500	1.570	0.551	- AD.. 1505..	4015-M3.5x9	80-T15
AEM90-AD1505-D1250-W1000-L0500-Z03-PR	1.250	3	1.000	5.000	1.570	0.551	- AD.. 1505..	4015-M3.5x9	80-T15
AEM90-AD1505-D1500-W1000-L0535-Z04-PR	1.500	4	1.000	5.315	2.000	0.551	- AD.. 1505..	4015-M3.5x9	80-T15

Compatible with PRMT insert

KAPR=90°



Illustrations shown may vary from actual product.



Dimensions in Inch

Ordering Code	DC	ZEFP	DCON	LF	LH	APMX	Insert Inch/Metric	Screw	Torx Key
AEM90-AP16PR-D0250-W0100-L425-Z06	2.500	6	1.000	4.250	2.000	0.630	- AP. 1604..	4015-M4x9	80-T15

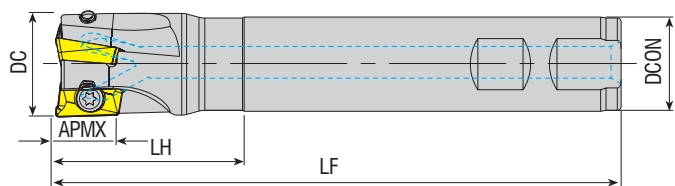
Compatible with PRMT



KAPR=90°



Illustrations shown may vary from actual product.



Dimensions in Inch

Ordering Code	DC	ZEFP	DCON	LF	LH	APMX	Insert Inch/Metric	Screw	Torx Key
AEM90-R390.11-D0500-W0625-L0288-Z01-H	0.500	1	0.625	2.880	0.715	0.394	- R390-11T3..	3008-M2.5x5	82-T08
AEM90-R390.11-D1000-W0750-L0350-Z03-H	1.000	3	0.750	3.500	1.468	0.394	- R390-11T3..	3008-M2.5x6	82-T08
AEM90-R390.11-D1000-W1000-L0375-Z03-H	1.000	3	1.000	3.750	1.250	0.394	- R390-11T3..	3008-M2.5x6	82-T08

Compatible with SNDVK insert



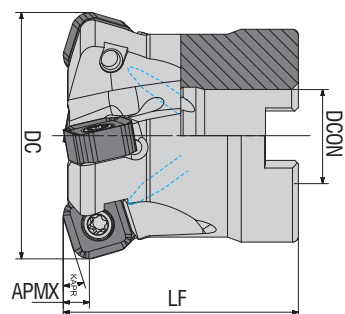
the spoken quality...

S-SYSTEM HIGHFEED FACE MILLS





Illustrations shown may vary from actual product.



Dimensions in Inch

Ordering Code	DC	ZEFP	DCON	LF	APMX	Insert Inch/Metric	Screw	Torx Key
AHFM-SN1104-D0200-A075-Z05-H	2.000	5	0.750	1.575	0.080	SN.. 353.. SN.. 1104..	1715-M4x11	80-T15
AHFM-SN1104-D0250-A075-Z06-H	2.500	6	0.750	1.575	0.080	SN.. 353.. SN.. 1104..	1715-M4x11	80-T15
AHFM-SN1104-D0300-A100-Z07-H	3.000	7	1.000	1.969	0.080	SN.. 353.. SN.. 1104..	1715-M4x11	80-T15

Compatible with PRMT insert



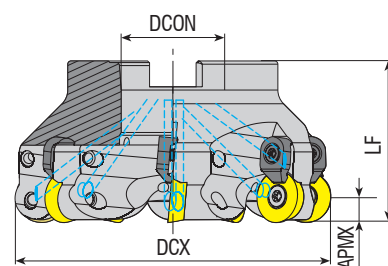
the spoken quality...

FACE AND COPY MILLING TOOLS





Illustrations shown may vary from actual product.



Dimensions in Inch

Ordering Code	DC	ZEFP	DCON	LF	APMX	Insert Inch/Metric	Screw	Clamp	Clamp Screw	Torx Key
AFMRC-RD1003-D0150-A050-Z04-H	1.500	4	0.500	1.500	0.196	RD.. 1003	4015-M3.5x11	ACK-15	4015-M3.5x11	80-T15
AFMRC-RD1003-D0200-A075-Z05-H	2.000	5	0.750	1.750	0.196	RD.. 1003	4015-M3.5x11	ACK-15	4015-M3.5x11	80-T15
AFMR-RD12T3-D0200-A075-Z05-H	2.000	5	0.750	1.570	0.236	RD..12T3	4015-M3.5x10	-	-	80-T15
AFMRC-RD12T3-D0300-B100-Z07	3.000	7	1.000	1.750	0.236	RD..12T3	4015-M3.5x11	ACK-15	4015-M3.5x11	80-T15
AFMRC-RD12T3-D0400-B125-Z08	4.000	8	1.250	2.000	0.236	RD..12T3	4015-M3.5x11	ACK-15	4015-M3.5x11	80-T15

Compatible with ISO insert



the spoken quality...

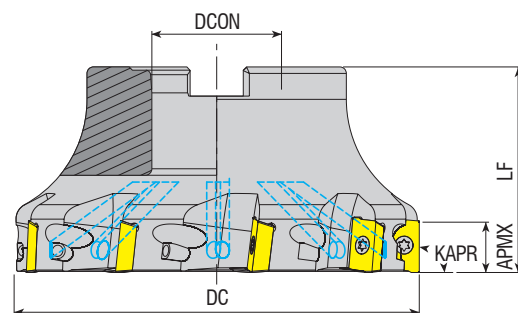
FACE MILLING



KAPR=90°



Illustrations shown may vary from actual product.



Dimensions in Inch

Ordering Code	DC	ZEFP	DCON	LF	APMX	Insert Inch/Metric	Screw	Torx Key
AFM90-AP16PR-D0200-A075-Z04	2.000	4	1.730	1.575	0.630	- AP. 1604..	4015-M3.5x11	80-T15
AFM90-AP16PR-D0250-A075-Z05	2.500	5	1.980	1.575	0.630	- AP. 1604..	4015-M3.5x11	80-T15
AFM90-AP16PR-D0300-A100-Z06	3.000	6	2.000	1.970	0.630	- AP. 1604..	4015-M3.5x11	80-T15
AFM90-AP16PR-D0400-A150-Z07-H	4.000	7	3.000	1.970	0.630	- AP. 1604..	4015-M3.5x11	80-T15

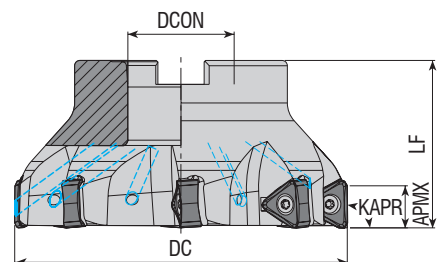
Compatible with PRMT insert



KAPR=90°



Illustrations shown may vary from actual product.



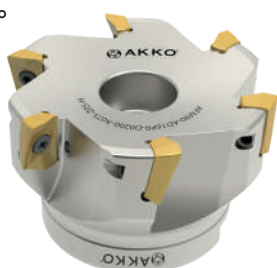
Dimensions in Inch

Ordering Code	DC	ZEFP	DCON	LF	APMX	Insert Inch/Metric	Screw	Torx Key
AFM90-TNG16-D0200-A075-Z05-H	2.000	5	1.700	1.575	0.394	TNGX 34.. TNGX 1606..	3015-M4x11	80-T15
AFM90-TNG16-D0250-A075-Z05-H	2.500	5	1.892	1.575	0.394	TNGX 34.. TNGX 1606..	3015-M4x11	80-T15
AFM90-TNG16-D0300-A100-Z05-H	3.000	5	2.283	1.970	0.394	TNGX 34.. TNGX 1606..	3015-M4x11	80-T15
AFM90-TNG16-D0300-A100-Z07-H	3.000	7	2.283	1.970	0.394	TNGX 34.. TNGX 1606..	3015-M4x11	80-T15

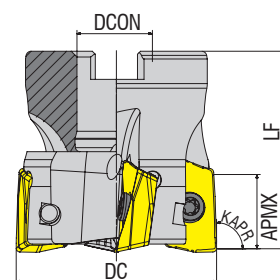
Compatible with PRMT insert



KAPR=90°



Illustrations shown may vary from actual product.



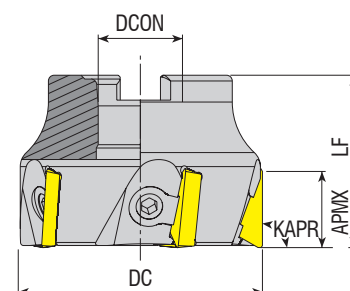
Dimensions in Inch

Ordering Code	DC	ZEFP	DCON	LF	APMX	Insert Inch/Metric	Screw	Torx Key
AFM90-AD16PR-D0200-A075-Z05-H	2.000	5	1.654	1.575	0.590	AD.. 1606..	4015-M4x10	80-T15
AFM90-AD16PR-D0300-A100-Z07-H	3.000	7	2.283	1.970	0.590	AD.. 1606..	4015-M4x10	80-T15

Compatible with PRMT insert



Illustrations shown may vary from actual product.



Dimensions in Inch

Ordering Code	DC	ZEFP	DCON	LF	APMX	Insert Inch/Metric	Screw	Clamp Screw	Allen Key
AFM90C-TP16-D0200-A075-Z04	2.000	4	1.700	1.575	0.472	TP. 32.. TP.1603..	ACK-10	AKV-22-M8x1x14	AAL-05-4
AFM90C-TP16-D0300-A100-Z07	3.000	7	2.283	2.000	0.472	TP. 32.. TP.1603..	ACK-11	AKV-14-M8x1x18	AAL-05-4

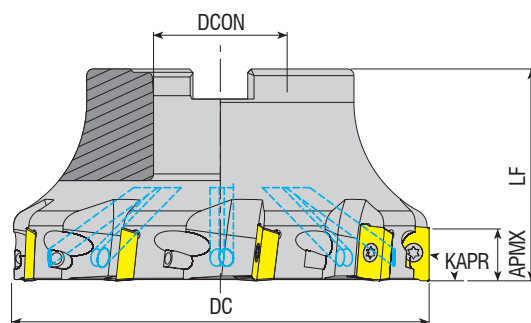
Compatible with ISO insert



KAPR=90°



Illustrations shown may vary from actual product.



Dimensions in Inch

Ordering Code	DC	ZEFP	DCON	LF	APMX	Insert Inch/Metric	Screw	Torx Key
AFM90-AP10-D0200-A075-Z06-H	2.000	6	1.700	1.575	0.394	- AP.. 1003..	3008-M2.5x6	80-T08
AFM90-AP10-D0300-A100-Z08-H	3.000	8	2.283	1.700	0.394	- AP.. 1003..	3008-M2.5x6	80-T08
AFM90-AP16-D0300-A100-Z07-H	3.000	7	2.283	1.700	0.590	- AP.. 1604..	4015-M4x11	80-T15

Compatible with ISO insert

the spoken quality...

HOLDER



1	2	3	4	5
A	C6	ER	16	3.0
AKKO	SHANK TYPE	FORM	DIAMETER	HOLDER SIZE

POLYGONAL SHANK 3-4-5-6-8

EM : END MILL HOLDER

ER : COLLET CHUCKS (ER)

FM : SHELL MILL HOLDERS

MM : MILLING CUTTER ARBORS FOR SCREW-ON TYPE MILLING CUTTERS

FMC : COMBI SHELL MILL HOLDER

ASHR : TOOLHOLDER AXIAL

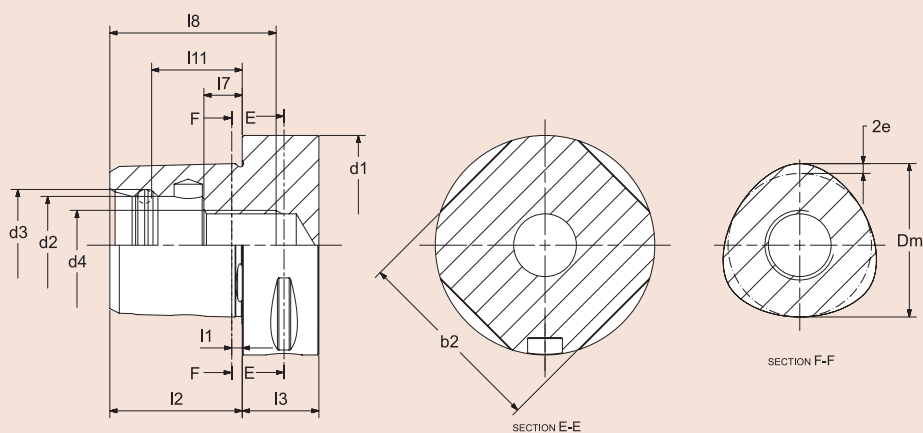
EX : EXTENSION

BL41 : BLANK HOLDERS



POLYGONAL SHANK

POLYGONAL SHANK 3-4-5-6-8



Compared to the steep taper the POLYGON SHANK has the following advantages:

- Highly repeatable accuracy when clamping tools into spindle
- Fixed axial positioning with flat contact surface
- Suitable for high speed cutting
- No pull stud necessary
- Interface with a unique tapered polygon and flange face contact
- Exact positioning in the circumferential direction
- Highest runout accuracy, torque and rigidity
- Innovative modular tool system with highest precision
- Suitable for both turning and milling centres
- Incl. bore for data chip Ø 10 mm

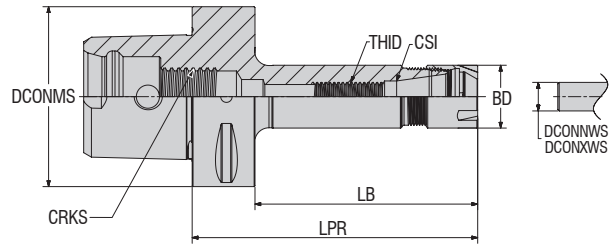
Material:

- Special case-hardening steel for highly stressed parts
- Surface hardness: 58 ± 2 HRC
- Tensile strength in core min. 950 N/mm²

POLYGON SHANK	d1 ±0.1	d2 0.1 -0.05	d3 ±0.05	d4	b2	Dm	e	l1	l2 ±0.1	l3 min.	l7 ±0.15	l8 min.	l11 ±0.1
3	32	15	16.5	M12x1.5	28.3	22	0.7	2.5	19	15	6	25	13.5
4	40	18	20	M14x1.5	35.3	28	0.9	2.5	24	20	9	30	17.5
5	50	21	24	M16x1.5	44.4	35	1.12	3	30	20	10	37	22
6	63	28	32	M20x2	55.8	44	1.4	3	38	22	11	47	26
8	80	32	38	M20x2	71.1	55	2	3	48	30	20	48	34



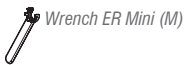
Illustrations shown may vary from actual product.



Dimensions in Inch

Ordering Code	DCONMS	CSI	DCONWS Minimum diameter	DCONXWS Maximum diameter	BD	LPR	LB	THID	KG
AC6-ER-16-3.0	2.480	ER16	0.039	0.394	1.102	3.000	2.134	M10	0.930
AC6-ER-32-3.0	2.480	ER32	0.079	0.787	1.969	3.000	2.134	-	1.100

Spare Part



Collet Chuck ER DIN6499/ISO 15488-B

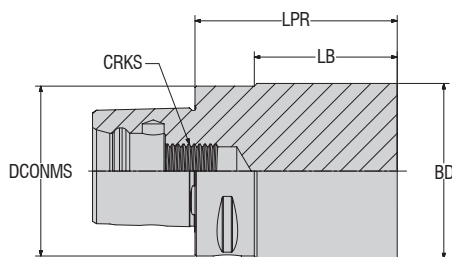


Clamping Nuts





Illustrations shown may vary from actual product.



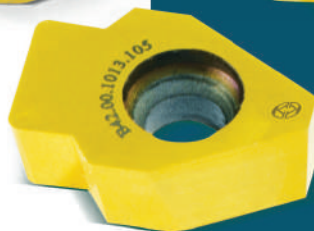
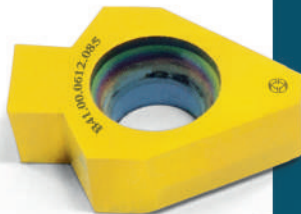
Dimensions in Inch

Ordering Code	DCONMS	BD	LPR	LB	CRKS	KG
AC3-BL41-032-090	1.260	1.260	3.543	2.953	M12x1.5	0.600
AC3-BL41-032-125	1.260	1.260	4.921	4.331	M12x1.5	0.800
AC4-BL41-040-045	1.575	1.575	1.772	0.984	M14x1.5	0.500
AC4-BL41-040-165	1.575	1.575	6.496	5.709	M14x1.5	1.670
AC4-BL41-052-065	1.575	2.047	2.559	1.772	M14x1.5	0.990
AC4-BL41-070-100	1.575	2.756	3.937	3.150	M14x1.5	2.610
AC5-BL41-050-050	1.969	1.969	1.969	1.181	M16x1.5	0.900
AC5-BL41-050-175	1.969	1.969	6.890	6.102	M16x1.5	2.800
AC5-BL41-075-070	1.575	2.953	2.756	1.969	M16x1.5	2.110
AC6-BL41-063-048	2.480	2.480	1.890	1.024	M20X2	1.380
AC6-BL41-063-100	2.480	2.480	3.937	3.071	M20X2	2.720
AC6-BL41-063-195	2.480	2.480	7.677	6.811	M20X2	4.960
AC6-BL41-063-310	2.480	2.480	12.205	11.339	M20X2	7.750
AC6-BL41-080-250	2.480	3.150	9.843	8.976	M20X2	9.660
AC8-BL41-080-055	3.150	3.150	2.165	0.945	M20X2	2.710



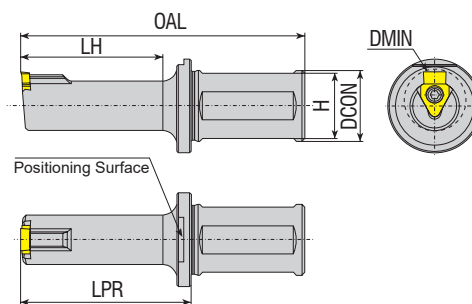
the spoken quality...

INSERT





Illustrations shown may vary from actual product.



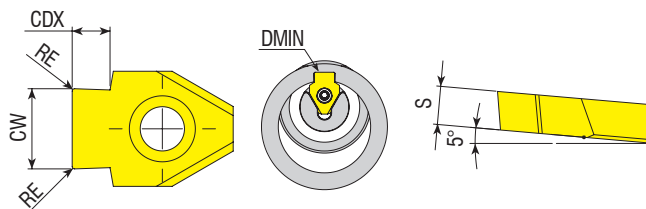
Dimensions in Metric/Inch

Ordering Code	DMIN METRIC/INCH	LH METRIC/INCH	DCON METRIC/INCH	OAL METRIC/INCH	LPR METRIC/INCH	H METRIC/INCH	Insert	Screw	Torx Key
ABT-B41.00.03-D22-Y25-L125-I070	22 - 0.870	70 - 2.760	25 - 0.980	125 - 4.920	80 - 3.150	23 - 0.906	CB41..00	4015-M4x11	80-T15
ABT-B42.00.06-D30-Y32-L125-I075	30 - 1.180	75-2.950	32 - 1.260	125 - 4.920	85 - 3.350	30 - 1.810	CB42..00	1020-M5x14	80-T20
ABT-B42.00.09-D38-Y32-L125-I075	38 - 1.500	75-2.950	32 - 1.260	125 - 4.920	85 - 3.350	30 - 1.810	CB42..00	1020-M5x14	80-T20
ABT-B42.00.12-D40-Y32-L125-I075	40 - 1.580	75-2.950	32 - 1.260	125 - 4.920	85 - 3.350	30 - 1.810	CB42..00	1020-M5x14	80-T20
ABT-B44.00.15-D40-Y32-L125-I075	40 - 1.580	75-2.950	32 - 1.260	125 - 4.920	85 - 3.350	30 - 1.810	CB44..00	1020-M5x14	80-T20



Illustrations shown may vary from actual product.

Dimensions in Inch



Insert Code	CV	RE	CDX	S	DMIN
B41.00.0317.020 VP3001	1/8"	0.008"	0.126"	0.157"	0.866"
B42.00.0635.030 VP3001	1/4"	0.012"	0.252"	0.236"	1.181"
B42.00.0953.030 VP3001	3/8"	0.012"	0.375"	0.236"	1.496"
B42.00.1111.030 VP3001	7/16"	0.012"	0.356"	0.236"	1.496"
B42.00.1270.030 VP3001	1/2"	0.012"	0.356"	0.236"	1.496"
B44.00.1588.030 VP3001	5/8"	0.012"	0.470"	0.236"	1.771"

Handwriting practice area with 25 horizontal dotted lines.

Handwriting practice area with 25 horizontal dotted lines.

Handwriting practice area with 25 horizontal dotted lines.

Handwriting practice area with 25 horizontal dotted lines.

Handwriting practice area with 25 horizontal dotted lines.







THE SPOKEN QUALITY

Indexable Tools, Tool Holder Systems and Cutting Inserts



Office: 900 N Arlington Heights Rd Itasca, IL 60143

Warehouse: 1055 W Devon Avenue Suite 300 Itasca IL 60143 Illinois, USA

www.akkousa.us • info@akkousa.us • +1 847-655-2566

