

VAICO

VAICOTURN

A

VAICOCUT

B

VAICOTHREAD

C

VAICOMILL

D

VAICOSPARES

E

PRODUCT CATALOGUE

In Metric

Offering a wide range
of highly engineered products.





www.vaico.in



VAICO

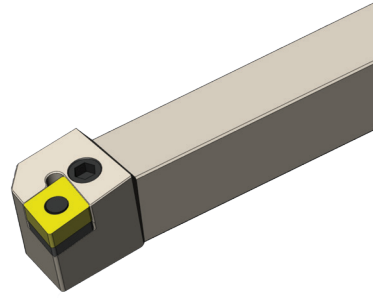
BY

HMB INTERNATIONAL

VAICO TURN

A // // // //

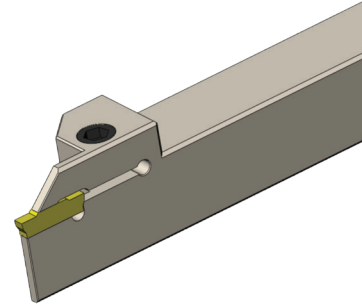
Optimized to give you the maximum that your cutting tools can offer in a wide variety of applications of turning with built in vibration control.



VAICO CUT

B // // // //

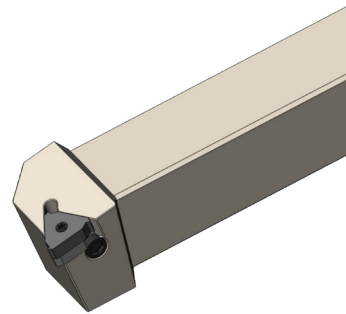
Longer Tmax and more consistent tool life lets you make more everyday. Available in a variety of customizations.



VAICO THREAD

C // // // //

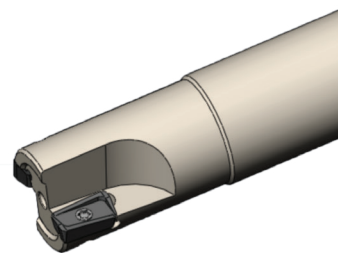
For productive and high quality threading we offer a selection of complex threading tools suitable for both internal and external operations.



VAICO MILL

D // // // //

High productivity milling tools that let you run faster with heavier depths of cut to utilize all the power of your machine tools.



VAICO SPARES

E // // // //

High quality and long lasting spare parts for all our tools to give you that extra edge over the competition.





Thank you for your purchase of Vaico tool. Before using the tool, read the following notes thoroughly so that the tool can be properly used with maximum safety. For specially designed products, please thoroughly read the description written in the drawing which had been separately submitted to you.

Product Type	Possible Risks	Counter measures
/ General Cutting Tools	Because cutting tools have sharp cutting edges, direct touching the tool may cause injury.	When you take a tool out of the case or set the tool to the machine, wear protective gloves.
	Misuse or improper cutting conditions may cause tool breakage or dispersion of the broken piece and injury.	A safety shield and safety glasses should be used.
	Sudden increase of cutting forces caused from shock loading or excessive tool wear may cause tool breakage or dispersion of the broken piece and injury.	A safety shield and safety glasses should be used. A worn tool should be replaced with new one ahead of time.
	Dispersion of hot chips or flow of long continuous chips may cause injury or burn.	A safety shield and safety glasses should be used. When removing chips, stop the machine and wear protective gloves. Use of pliers or clippers is recommended.
	If the tool is used in flammable environments, sparks generated during machining or red-hot chips may start a fire.	Never use the tool in the presence of flammable or combustible fluid or gases. When using a water insoluble cutting fluid, preventive measures against fire must be taken.
	When using the tool at high rpm, unbalanced machine tool (including the toolholder) may generate vibration, break the tool and cause injury.	A safety guard and safety glasses should be used. Be sure to conduct trial run and make sure that there are no vibration and unusual noise.
	Immediately after machining, the tool and workpiece remain high temperature. Touching directly them with bare hands may cause a burn.	Do not touch the tool or workpiece with your bare hands.
	Touching a burr formed on an edge of a workpiece with bare hands may cause injury.	Do not touch the workpiece with your bare hands.
/ Indexable Cutting Tools	If inserts or parts are not securely clamped, they may come out of the body and scatter, resulting in serious personal injury.	Be sure that inserts and parts are securely clamped with supplied wrench.
	Excessive tightening by using an assistant tool such as a pipe may break inserts and the tool body.	Never use a pipe to fasten the inserts. Use the supplied wrench.
	When using the tool at high rpm, inserts and parts may fly out of the tool body under centrifugal force, resulting in serious personal injury.	Never use the tool at speeds in excess of specified maximum allowable number of revolutions.
/ Milling Cutters & Other Rotating Tool	Unbalanced or misaligned tool may cause vibration and breakage. At the worst, the flying debris may cause injury.	Periodical adjustment for the accuracy of rotating parts is necessary so as not to cause unbalanced rotation resulting from wear of bearings. The tool should be used within the cutting conditions (allowable maximum revolutions) shown on our Web site.
/ Brazed Tools	When the tip is detached from the shank and broken, the flying debris may cause injury.	Before using the tool, make sure the tip is surely brazed on the shank. Do not use the tool under conditions where the tool is subject to excessively high temperature.
/ Others	Using the tool for something it was not designed to do is very dangerous because it may cause breakage of the tool and the machine tool.	Please observe the safety and usage precautions written in this instruction manual.

VAICO TURN



EXTERNAL Tool Holders

External Turning Tool Holders Designation System	A10
P-Type	A11
S-Type	A17
D-Type	A25

INTERNAL Tool Holders

Internal Turning Tool Holders Designation System	A33
S-Type	A34
P-Type	A49
D-Type	A55

CENTRE Drill Holders

S-Type	A61
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VAICO CUT



EXTERNAL Grooving Holders

Grooving Turning Tool Holders Designation System	B64
M-Type	B65
K-Type	B66

FACE Grooving Holders

M-Type	B67
K-Type	B68

INTERNAL Grooving Holders

K-Type	B69
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VAICO THREAD



EXTERNAL Threading Holders

Threading Tool Designation System
S-Type

C74
C75

INTERNAL Threading Holders

S-Type

C76

VAICO MILL



MILLING Tool Holders

Milling Tool Designation System
E-90 Type

D80
D81

VAICO SPARES



SPARES

E88

VAICOTURN

A





VAICOTURN




Optimized to give you the maximum that your cutting tools can offer in a wide variety of applications of turning with built in vibration control.

External Turning Tool Holders Designation System

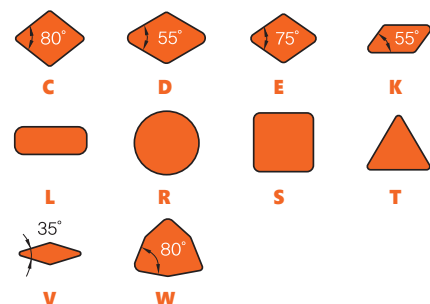
P	S	K	N	R	25	25	M	12
1	2	3	4	5	6	7	8	9
Clamping Method of Insert	Insert Shape	Holder Style	Clearance Angle of Insert	Hand	Height of Shank	Width of Shank	Length of Holder	Length of Insert Cutting Edge

1 Clamping Method of Insert



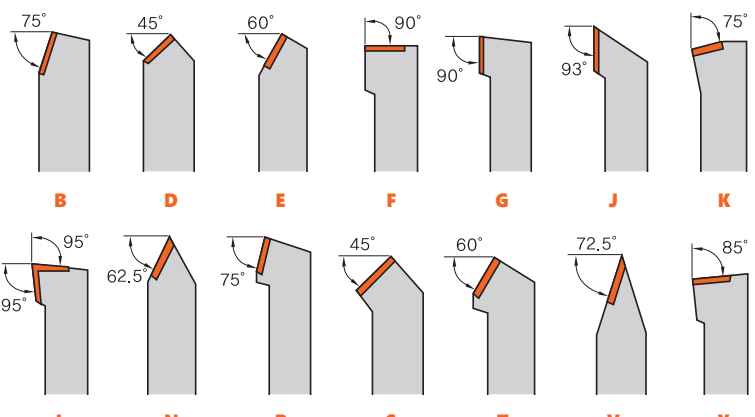
C **D** **M** **P** **S** **W**

2 Insert Shape



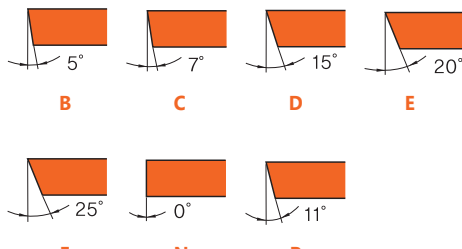
C **D** **E** **K**
L **R** **S** **T**
V **W**

3 Holder Style



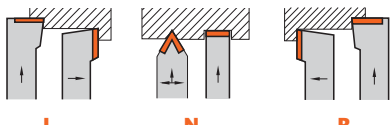
B **D** **E** **F** **G** **J** **K**
L **N** **R** **S** **T** **V** **Y**

4 Clearance Angle of Insert




B **C** **D** **E**
F **N** **P**

5 Hand



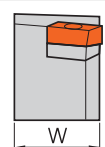
L **N** **R**

6 Height of Shank



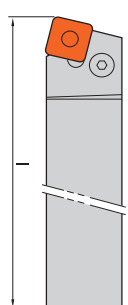
H

7 Width of Shank



W

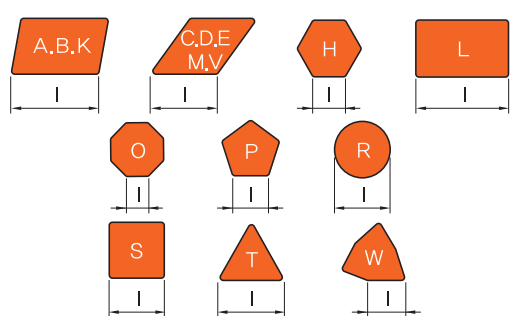
8 Length of Holder



A - 32	H - 100	Q - 180
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

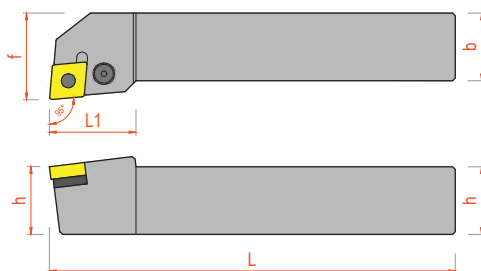
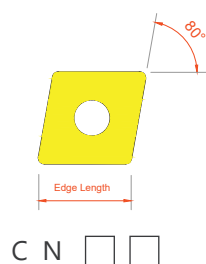
X-Special Item

9 Length of Insert Cutting Edge



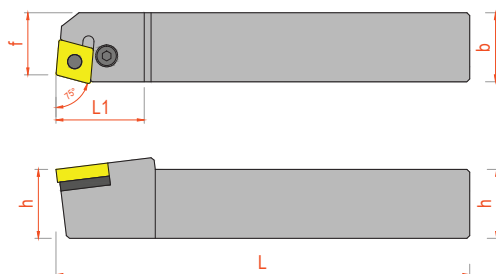
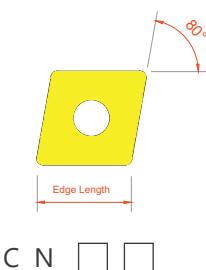
A,B,K **C,D,E,M,V** **H** **L**
O **P** **R**
S **T** **W**

PCLNL/R



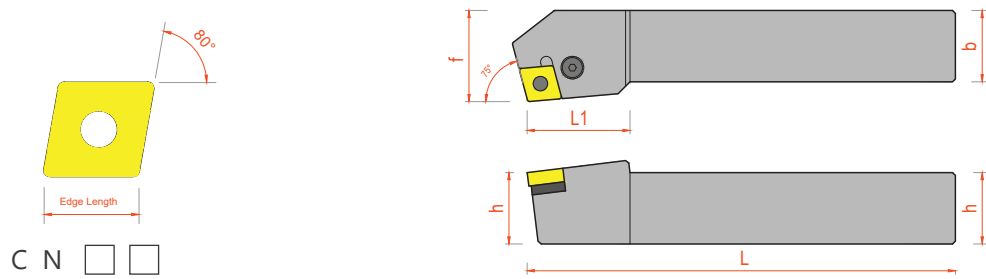
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PCLN-	PCLNL/R 2020 K09	20	20	125	30	25	-	6SP045	6KS16	3L1209	LH2.5
	PCLNL/R 2525 M09	25	25	150	35	32	-	6SP045	6KS16	3L1209	LH2.5
	PCLNL/R 2020 K12	20	20	125	30	25	CN1203SW	7SP066	8KS21	4L1213	LH3
	PCLNL/R 2525 M12	25	25	150	35	32	CN1203SW	7SP066	8KS21	4L1213	LH3
	PCLNL/R 3225 P12	32	25	170	35	32	CN1203SW	7SP066	8KS21	4L1213	LH3
	PCLNL/R 3232 P19	32	32	170	42	40	CN1904CW	11SP104	10KS30	7L2120	LH4

PCBNL/R



Item	Code	Dimension (mm)					Spare				
		H	B	L	L1	F	Shim	Shim Pin	Insert Screw	Lever	Key
PCBN-	PCBNL/R 2020 K12	20	20	125	35	17	CN1203SW	7SP066	8KS21	4L1213	LH3
	PCBNL/R 2525 M12	25	25	150	35	22	CN1203SW	7SP066	8KS21	4L1213	LH3

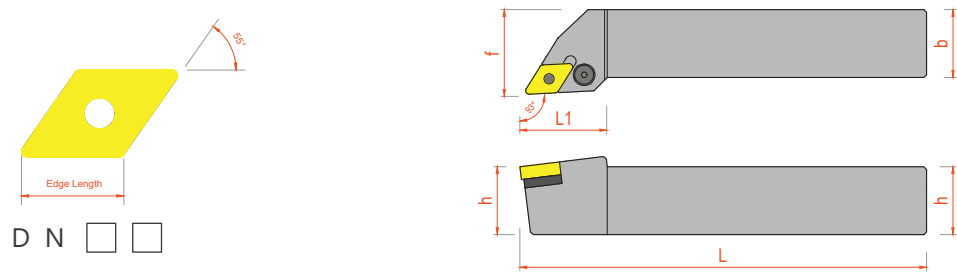
PCKNL/R



C N ☐ ☐

Item	Code	Dimension (mm)					Spare				
		H	B	L	L1	F	Shim	Shim Pin	Insert Screw	Lever	Key
PCBN-	PCKNL/R 2020 K12	20	20	125	35	25	CN1203SW	7SP066	8KS21	4L1213	LH3
	PCKNL/R 2525 M12	25	25	150	35	32	CN1203SW	7SP066	8KS21	4L1213	LH3

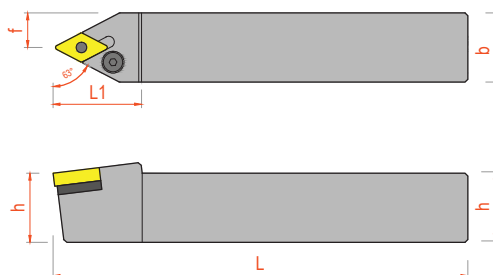
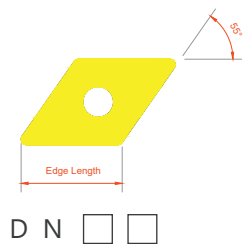
PDJNL/R



D N ☐ ☐

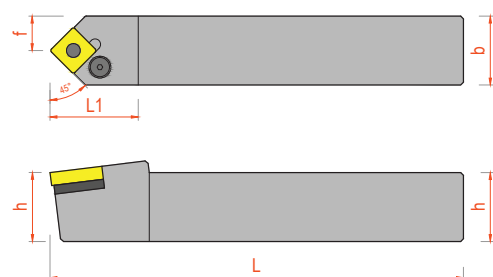
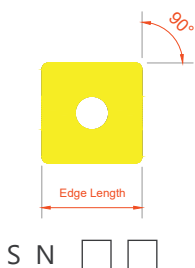
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		H	B	L	L1	F	Shim	Shim Pin	Insert Screw	Lever	Key
PCLN-	PDJNL/R 2020 K11	20	20	125	40	25	DN1103C	6SP045	6KS16	3L1209	LH2.5
	PDJNL/R 2020 K15	20	20	125	40	25	DN1503SW	7SP066	8KS21	4L1514	LH3
	PDJNL/R 2525 M11	25	25	150	40	32	DN1103C	6SP045	6KS16	3L1209	LH2.5
	PDJNL/R 2525 M15	25	25	150	40	32	DN1503SW	7SP066	8KS21	4L1514	LH3
	PDJNL/R 3225 P15	32	25	170	40	32	DN1503SW	7SP066	8KS21	4L1514	LH3
	PDJNL/R 3232 P15	32	32	170	40	40	DN1503SW	7SP066	8KS21	4L1514	LH3

PDNNL/R



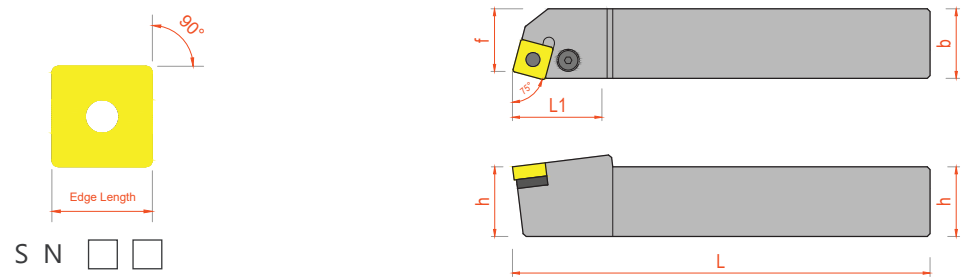
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PDNN-	PDNNL/R 2020 K11	20	20	125	40	10	DN1103C	6SP045	6KS16	3L1209	LH2.5
	PDNNL/R 2020 K15	20	20	125	40	10	DN1503SW	7SP066	8KS21	4L1514	LH3
	PDNNL/R 2525 M11	25	25	150	40	12.5	DN1103C	6SP045	6KS16	3L1209	LH2.5
	PDNNL/R 2525 M15	25	25	150	40	12.5	DN1503SW	7SP066	8KS21	4L1514	LH3
	PDNNL/R 3232 P15	32	32	170	40	16	DN1503SW	7SP066	8KS21	4L1514	LH3

PSDNN



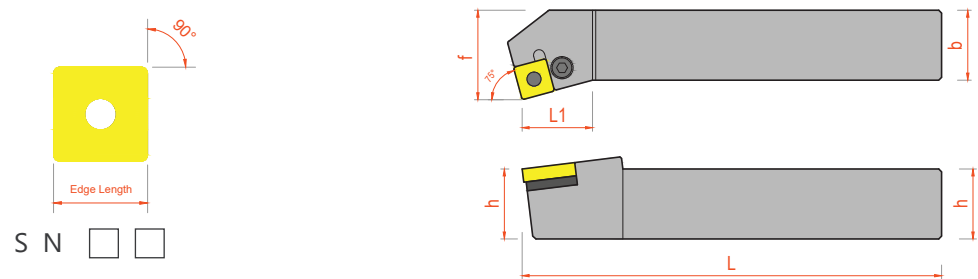
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PSDNN-	PSDNN 2020 K12	20	20	125	35	10	SN1203SW	7SP066	8KS21	4L1213	LH3
	PSDNN 2525 M12	25	25	150	35	12.5	SN1203SW	7SP066	8KS21	4L1213	LH3
	PSDNN 3225 P12	32	25	170	35	12.5	SN1203SW	7SP066	8KS21	4L1213	LH3

PSBNL/R



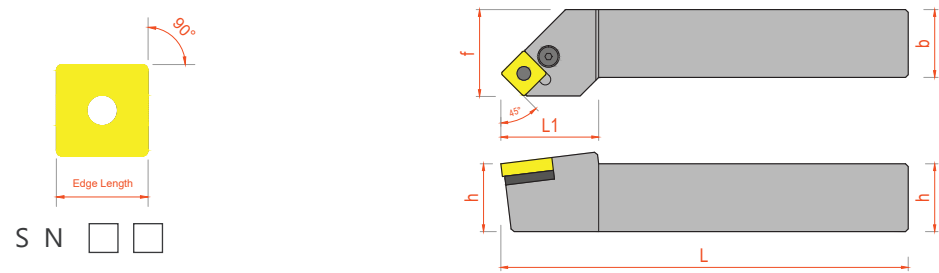
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PSBN-	PSBNL/R 2020 K12	20	20	125	35	17	SN1203SW	7SP066	8KS21	4L1213	LH3
	PSBNL/R 2525 M12	25	25	150	35	22	SN1203SW	7SP066	8KS21	4L1213	LH3

PSKNL/R



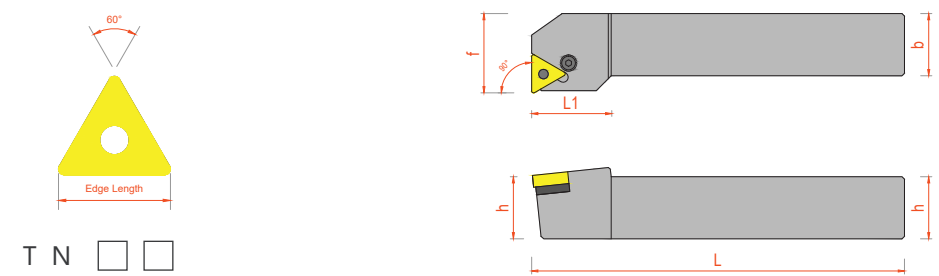
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PSKN-	PSKNL/R 2020 K12	20	20	125	35	25	SN1203SW	7SP066	8KS21	4L1213	LH3
	PSKNL/R 2525 M12	25	25	150	35	32	SN1203SW	7SP066	8KS21	4L1213	LH3

PSSNL/R



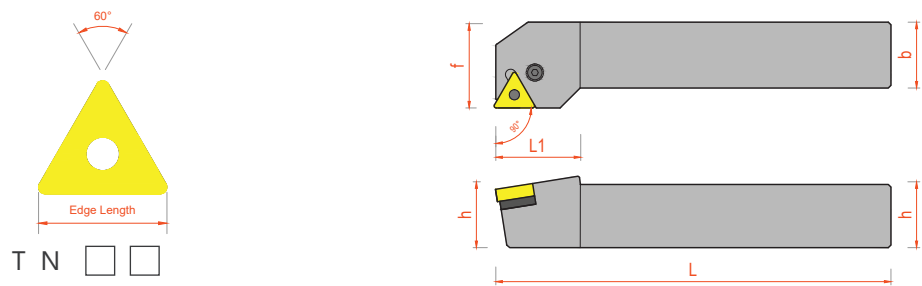
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PSSN-	PSSNL/R 2020 K12	20	20	125	35	25	SN1203SW	7SP066	8KS21	4L1213	LH3
	PSSNL/R 2525 M12	25	25	150	35	32	SN1203SW	7SP066	8KS21	4L1213	LH3

PTFNL/R



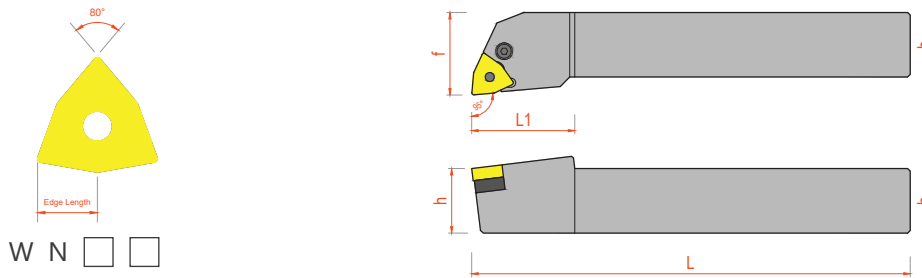
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PTFN-	PTFNL/R 2020 K16	20	20	125	35	25	TN1603SW	6SP045	6KS16	3L1209	LH2.5
	PTFNL/R 2525 M16	25	25	150	35	32	TN1603SW	6SP045	6KS16	3L1209	LH2.5

PTGNL/R



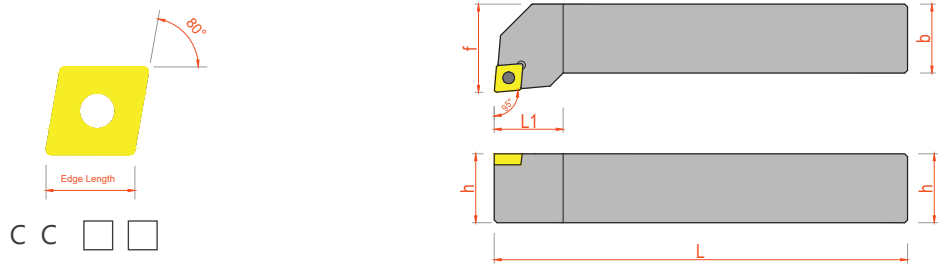
Item	Code	Dimension (mm)					Spare				
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PTGN-	PTGNL/R 2020 K16	20	20	125	35	25	TN1603SW	6SP045	6KS16	3L1209	LH2.5
	PTGNL/R 2525 M16	25	25	150	35	32	TN1603SW	6SP045	6KS16	3L1209	LH2.5

PWLNL/R



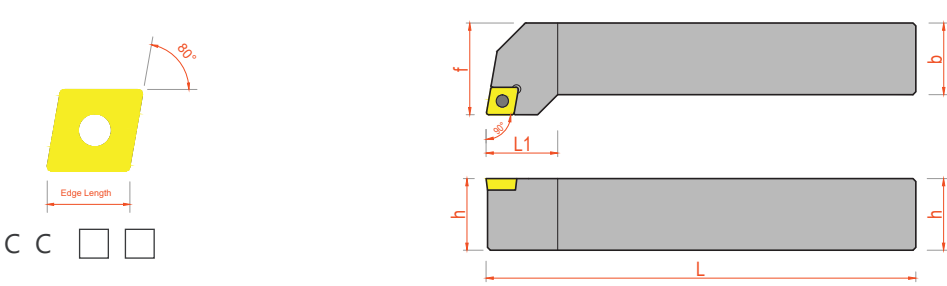
Item	Code	Dimension (mm)					Spare				
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PWLN-	PWLNL/R 2020 K06	20	20	125	32	25	WN0603C	6SP045	6KS16	3L1209	LH2.5
	PWLNL/R 2525 M06	25	25	150	32	32	WN0603C	6SP045	6KS16	3L1209	LH2.5
	PWLNL/R 2020 K06T3	20	20	125	32	25	WN0603C	6SP045	6KS16	3L1209	LH2.5
	PWLNL/R 2525 M06T3	25	25	150	32	32	WN0603C	6SP045	6KS16	3L1209	LH2.5
	PWLNL/R 2020 K08	20	20	125	35	25	WN0803C	7SP066	8KS21	4L1213	LH3
	PWLNL/R 2525 M08	25	25	150	35	32	WN0803C	7SP066	8KS21	4L1213	LH3

SCLCL/R



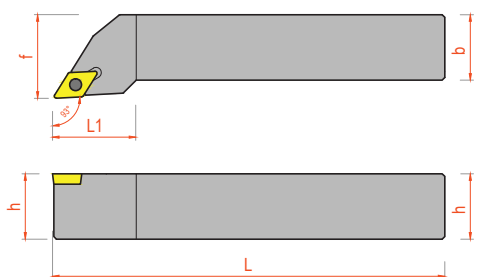
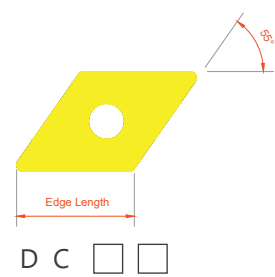
Item	Code	Dimension (mm)					Spare				
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SCLC-	SCLCL/R 2020 K09	20	20	125	25	25	-	-	5S3511	LT15	-
	SCLCL/R 2525 M09	25	25	150	25	32	-	-	5S3511	LT15	-

SCACL/R



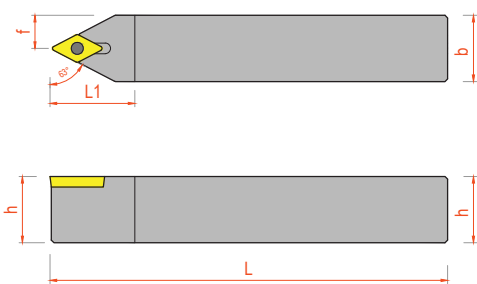
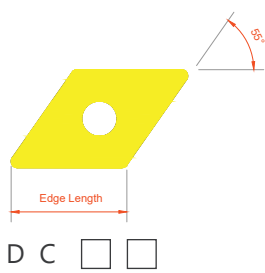
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SCAC-	SCACL/R 2020 K09	20	20	125	25	25	-	-	5S3511	LT15	-
	SCACL/R 2525 M09	25	25	150	25	32	-	-	5S3511	LT15	-

SDJCL/R



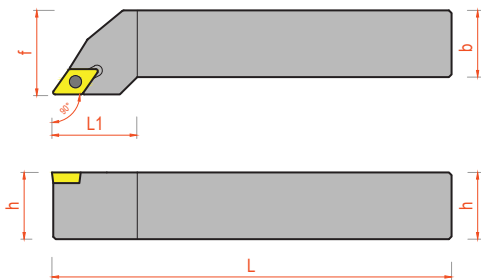
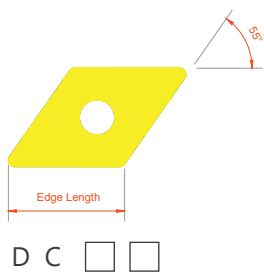
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SDJC-	SDJCL/R 2020 K11	20	20	125	32	25	-	-	5S3511	LT15	-
	SDJCL/R 2525 M11	25	25	150	32	32	-	-	5S3511	LT15	-

SDNCN



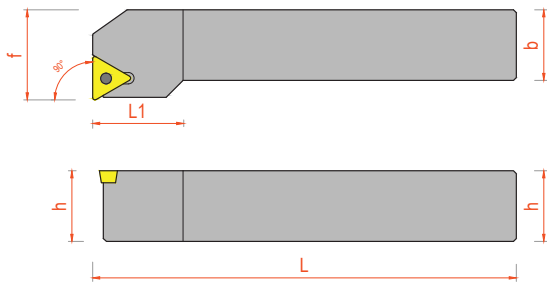
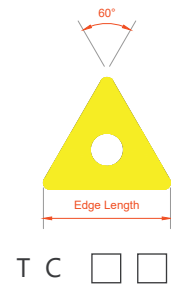
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SDNCN-	SDNCN 2020 K11	20	20	125	22	10	-	-	5S3511	LT15	-
	SDNCN 2525 M11	25	25	150	22	12.5	-	-	5S3511	LT15	-

SDACL/R



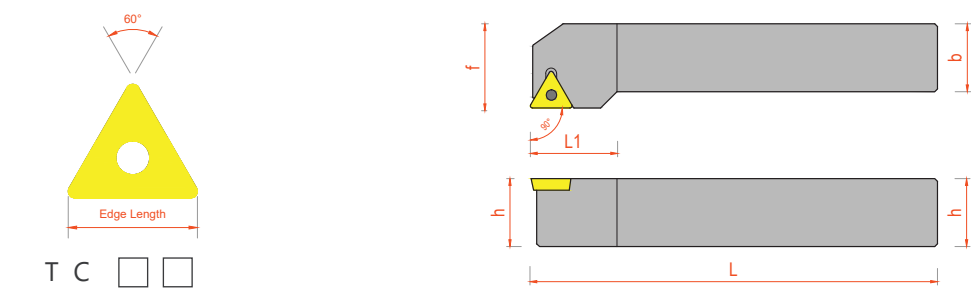
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		H	B	L	L1	F	Shim	Shim Screw	Insert Screw	Torx	Hex
SDAC-	SDACL/R 2020 K11	20	20	125	32	25	-	-	5S3511	LT15	-
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STFCL/R



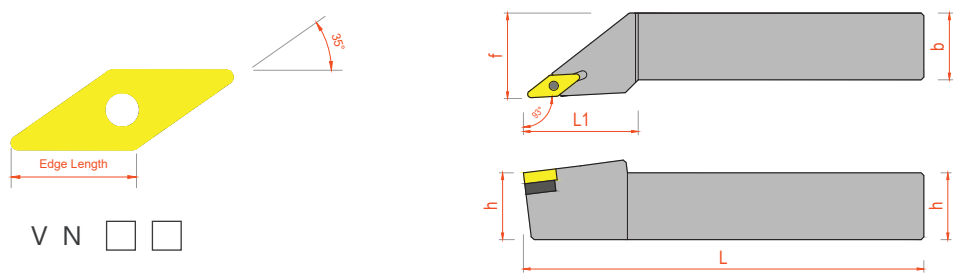
Item	Code	Dimension (mm)					Spare				
		H	B	L	L1	F	Shim	Shim Screw	Insert Screw	Torx	Hex
STFC-	STFCL/R 2020 K16	20	20	125	32	25	-	-	5S3511	LT15	-
	STFCL/R 2525 M16	25	25	150	32	32	-	-	5S3511	LT15	-

STGCL/R



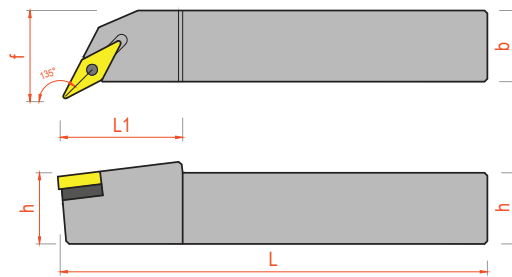
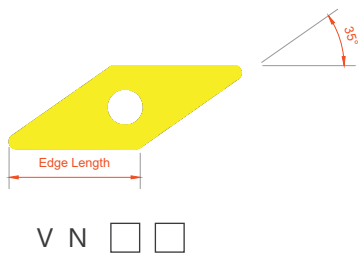
Item	Code	Dimension (mm)					Spare				
		H	B	L	L1	F	Shim	Shim Screw	Insert Screw	Torx	Hex
STGC-	STGCL/R 2020 K16	20	20	125	32	25	-	-	5S3511	LT15	-
	STGCL/R 2525 M16	25	25	150	32	32	-	-	5S3511	LT15	-

SVJNL/R



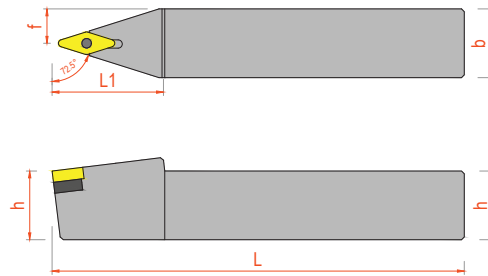
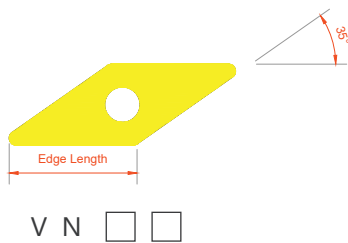
Item	Code	Dimension (mm)					Spare				
		H	B	L	L1	F	Shim	Shim Screw	Insert Screw	Torx	Hex
SVJN-	SVJNL/R 2020 K12	20	20	125	45	25	-	-	5S3511	LT10	-
	SVJNL/R 2525 M12	25	25	150	45	32	-	-	5S3511	LT10	-
	SVJNL/R 2020 K16	20	20	125	45	25	VN1603C	6ST508	5S3513	LT15	LH3.5
	SVJNL/R 2525 M12	25	25	150	45	32	VN1603C	6ST508	5S3513	LT15	LH3.5

SVQNL/R



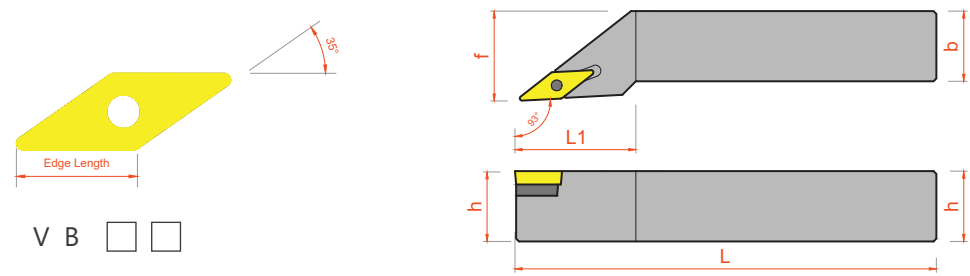
Item	Code	Dimension (mm)					Spare				
		H	B	L	L1	F	Shim	Shim Screw	Insert Screw	Torx	Hex
SVQN-	SVQNL/R 2020 K12	20	20	125	45	25	-	-	5S3511	LT10	-
	SVQNL/R 2525 M12	25	25	150	45	32	-	-	5S3511	LT10	-
	SVQNL/R 2020 K16	20	20	125	45	25	VN1603C	6ST508	5S3513	LT15	LH3.5
	SVQNL/R 2525 M16	25	25	150	45	32	VN1603C	6ST508	5S3513	LT15	LH3.5

SVVNN



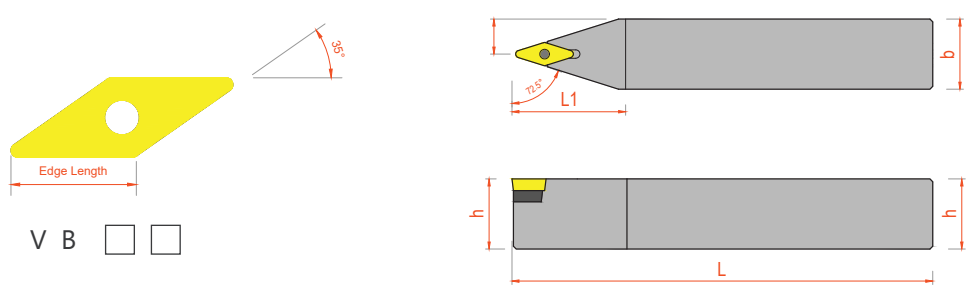
Item	Code	Dimension (mm)					Spare				
		H	B	L	L1	F	Shim	Shim Screw	Insert Screw	Torx	Hex
SVVNN-	SVVNN 2020 K12	20	20	125	45	10	-	-	5S3511	LT10	-
	SVVNN 2525 M12	25	25	150	45	12.5	-	-	5S3511	LT10	-
	SVVNN 2020 K16	20	20	125	45	10	VN1603C	6ST508	5S3513	LT15	LH3.5
	SVVNN 2525 M16	25	25	150	45	12.5	VN1603C	6ST508	5S3513	LT15	LH3.5
	SVVNN 3225 M16	32	25	150	45	12.5	VN1603C	6ST508	5S3513	LT15	LH3.5

SVJBL/R



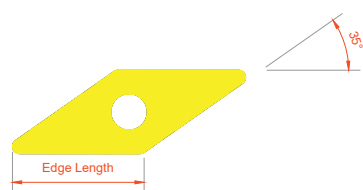
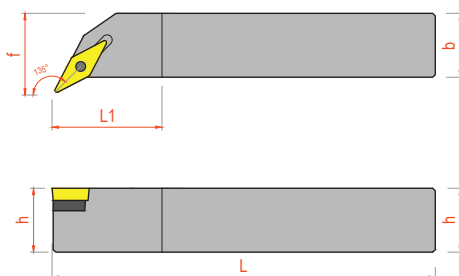
Item	Code	Dimension (mm)					Spare				
		H	B	L	L1	F	Shim	Shim Screw	Insert Screw	Torx	Hex
SVJB-	SVJBL/R 2020 K16	20	20	125	45	25	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	SVJBL/R 2525 M16	25	25	150	45	32	VN1603CTW	6ST508	5S3511	LT15	LH3.5

SVVBN



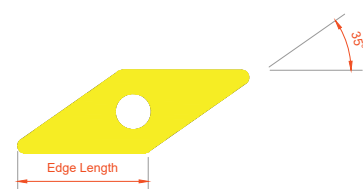
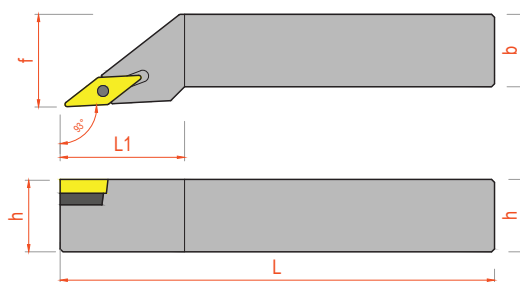
Item	Code	Dimension (mm)					Spare				
		H	B	L	L1	F	Shim	Shim Screw	Insert Screw	Torx	Hex
SVVBN	SVVBN 2020 K16	20	20	125	45	10	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	SVVBN 2525 M16	25	25	150	45	12.5	VN1603CTW	6ST508	5S3511	LT15	LH3.5

SVQBL/R

V B ☐ ☐

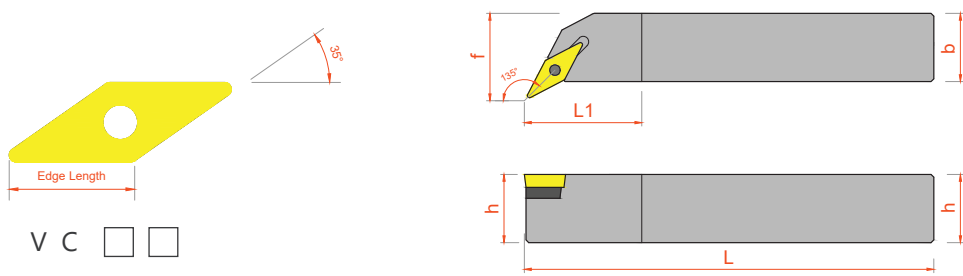
Item	Code	Dimension (mm)					Spare				
		H	B	L	L1	F	Shim	Shim Screw	Insert Screw	Torx	Hex
SVQB-	SVQBL/R 2020 K16	20	20	125	35	25	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	SVQBL/R 2525 M16	25	25	150	35	32	VN1603CTW	6ST508	5S3511	LT15	LH3.5

SVJCL/R

V C ☐ ☐

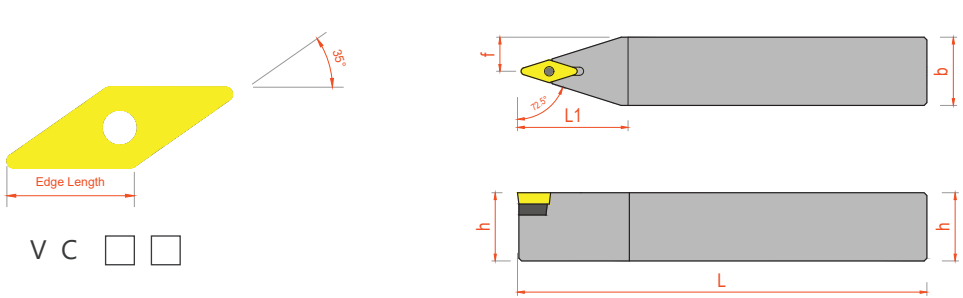
Item	Code	Dimension (mm)					Spare				
		H	B	L	L1	F	Shim	Shim Screw	Insert Screw	Torx	Hex
SVJC-	SVJCL/R 2020 K16	20	20	125	45	25	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	SVJCL/R 2525 M16	25	25	150	45	32	VN1603CTW	6ST508	5S3511	LT15	LH3.5

SVQCL/R



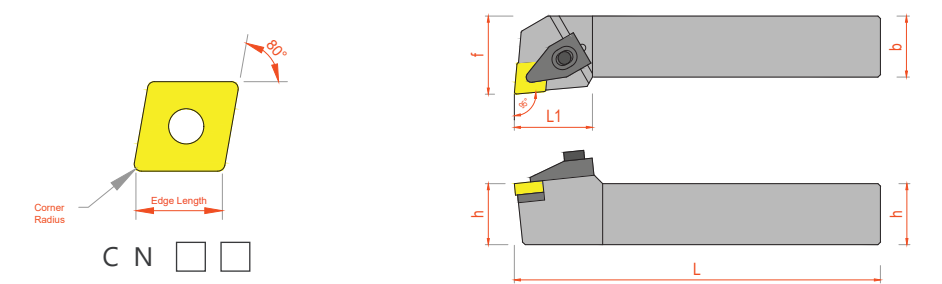
Item	Code	Dimension (mm)					Spare				
		H	B	L	L1	F	Shim	Shim Screw	Insert Screw	Torx	Hex
SVQC-	SVQCL/R 2020 K16	20	20	125	45	25	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	SVQCL/R 2525 M16	25	25	150	45	32	VN1603CTW	6ST508	5S3511	LT15	LH3.5

SVVCN



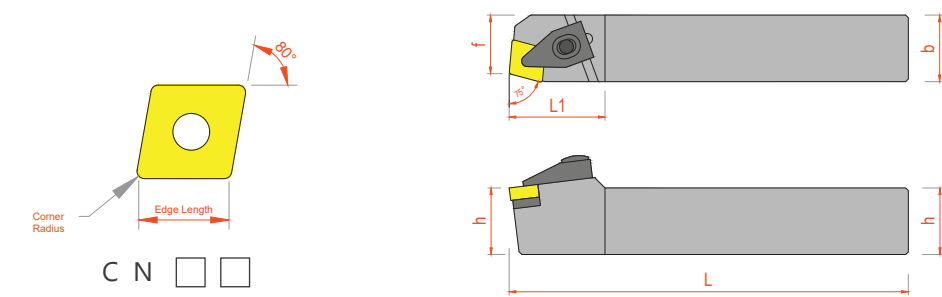
Item	Code	Dimension (mm)					Spare				
		H	B	L	L1	F	Shim	Shim Screw	Insert Screw	Torx	Hex
SVVCN	SVVCN 2020 K16	20	20	125	45	10	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	SVVCN 2525 M16	25	25	150	45	12.5	VN1603CTW	6ST508	5S3511	LT15	LH3.5

DCLNL/R



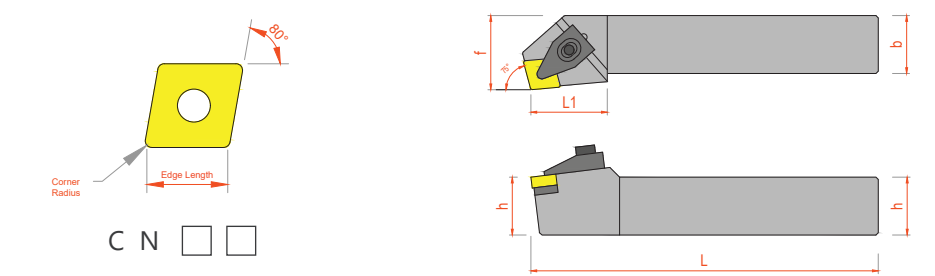
Item	Code	Dimension (mm)										
		H	B	L	L1	F	Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
DCLN-	DCLNL/R 2020 K12 AS4	20	20	125	40	25	CN1204C	4AT609	DC2640	8T521	8SG512	H3
	DCLNL/R 2525 M12 AS4	25	25	150	40	32	CN1204C	4AT609	DC2640	8T521	8SG512	H3
	DCLNL/R 3225 P12 AS4	32	25	170	40	32	CN1204C	4AT609	DC2640	8T521	8SG512	H3
	DCLNL/R 3232 P16 AS4	32	32	170	45	40	CN1604C	4AT812	D3360	9T626	9SG617	H3/H4
	DCLNL/R 3232 P19 AS4	32	32	170	50	40	CN1904C	4AT1015	D3372	9T626	9SG617	H4

DCBNL/R



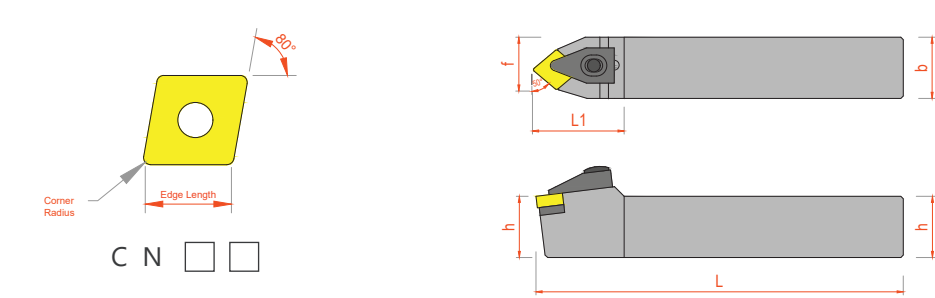
Item	Code	Dimension (mm)										
		H	B	L	L1	F	Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
DCBN-	DCBNL/R 2020 K12 AS4	20	20	125	40	17	CN1204C	4AT609	DC2640	8T521	8SG512	H3
	DCBNL/R 2525 M12 AS4	25	25	150	40	22	CN1204C	4AT609	DC2640	8T521	8SG512	H3
	DCBNL/R 3232 P16 AS4	32	25	170	45	27	CN1604C	4AT812	D3360	9T626	9SG617	H3/H4
	DCBNL/R 3232 P19 AS4	32	32	170	50	27	CN1904C	4AT1015	D3372	9T626	9SG617	H4

DCKNL/R



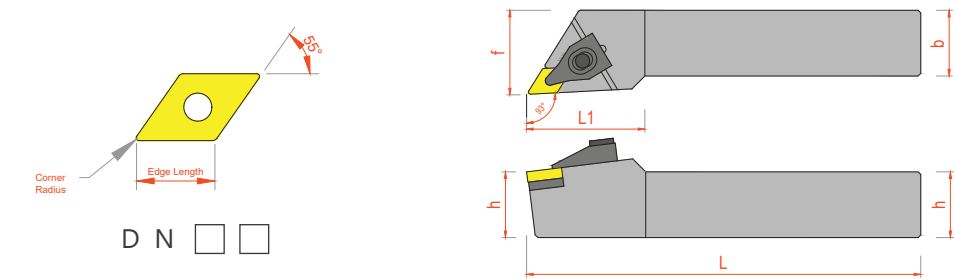
Item	Code	Dimension (mm)										
		H	B	L	L1	F	Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
DCKN-	DCKNL/R 2020 K12 AS4	20	20	125	40	25	CN1204C	4AT609	DC2640	8T521	8SG512	H3
	DCKNL/R 2525 M12 AS4	25	25	150	40	32	CN1204C	4AT609	DC2640	8T521	8SG512	H3
	DCKNL/R 3232 P16 AS4	32	32	170	45	40	CN1604C	4AT812	D3360	9T626	9SG617	H3/H4
	DCKNL/R 3232 P19 AS4	32	32	170	50	40	CN1904C	4AT1015	D3372	9T626	9SG617	H4

DCMNN



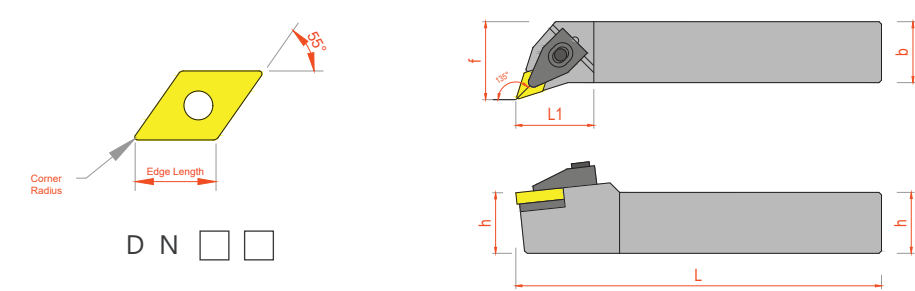
Item	Code	Dimension (mm)										
		H	B	L	L1	F	Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
DCMNN-	DCMNN 2020 K12 AS4	20	20	125	40	10	CN1204C	4AT609	DC2640	8T521	8SG512	H3
	DCMNN 2525 M12 AS4	25	25	150	40	12.5	CN1204C	4AT609	DC2640	8T521	8SG512	H3

DDJNL/R



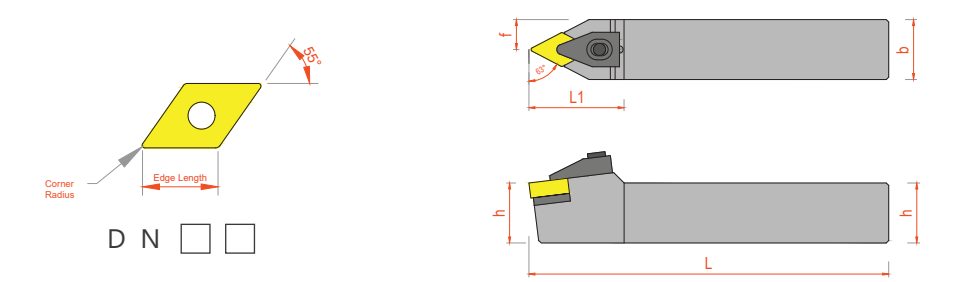
Item	Code	Dimension (mm)										
		H	B	L	L1	F	Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
DDJN-	DDJNL/R 2020 K11 AS3	20	20	125	40	25	DN1103C	4AT510	DC2228	8T521	8SG512	H3/H2.5
	DDJNL/R 2525 M11 AS3	25	25	150	40	32	DN1103C	4AT510	DC2228	8T521	8SG512	H3/H2.5
	DDJNL/R 2525 M15 AS4	25	25	150	45	32	DN1504C	4AT609	DC2640	8T521	8SG512	H3
	DDJNL/R 3232 P15 AS4	32	32	170	45	40	DN1504C	4AT609	DC2640	8T521	8SG512	H3

DDQNL/R



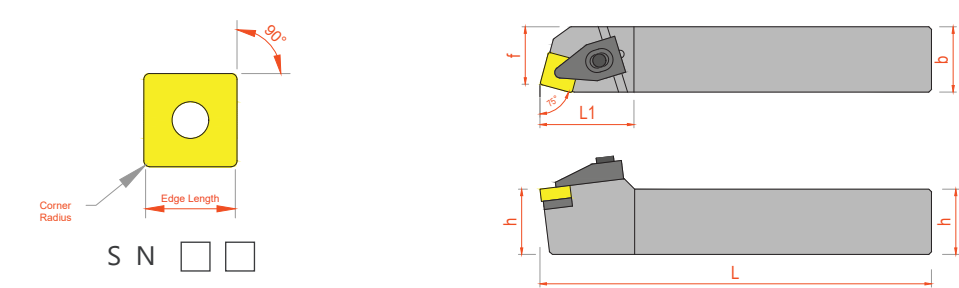
Item	Code	Dimension (mm)										
		H	B	L	L1	F	Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
DDQN-	DDQNL/R 2020 K11 AS3	20	20	125	35	25	DN1103C	4AT510	DC2228	8T521	8SG512	H3/H2.5
	DDQNL/R 2525 M11 AS3	25	25	150	35	32	DN1103C	4AT510	DC2228	8T521	8SG512	H3/H2.5
	DDQNL/R 2525 M15 AS4	25	25	150	40	32	DN1504C	4AT609	DC2640	8T521	8SG512	H3
	DDQNL/R 3232 P15 AS4	32	32	170	40	40	DN1504C	4AT609	DC2640	8T521	8SG512	H3

DDNNN



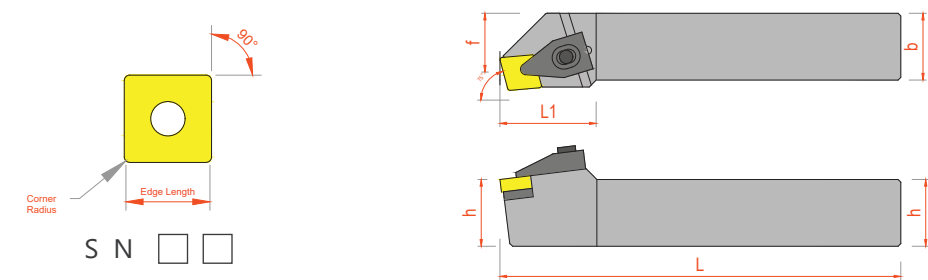
Item	Code	Dimension (mm)										
		H	B	L	L1	F	Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
DDNNN-	DDNNN 2020 K11 AS3	20	20	125	40	10	DN1103C	4AT510	DC2228	8T521	8SG512	H3/H2.5
	DDNNN 2525 M11 AS3	25	25	150	40	12.5	DN1103C	4AT510	DC2228	8T521	8SG512	H3/H2.5
	DDNNN 2525 M15 AS4	25	25	150	45	12.5	DN1504C	4AT609	DC2640	8T521	8SG512	H3
	DDNNN 3232 P15 AS4	32	32	170	45	16	DN1504C	4AT609	DC2640	8T521	8SG512	H3

DSBNL/R



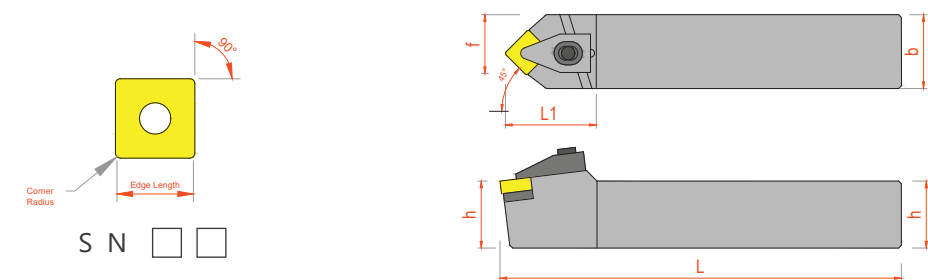
Item	Code	Dimension (mm)										
		H	B	L	L1	F	Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
DSBN-	DSBNL/R 2020 K12 AS4	20	20	125	40	17	SN1204C	4AT609	DC2640	8T521	8SG512	H3
	DSBNL/R 2525 M12 AS4	25	25	150	40	22	SN1204C	4AT609	DC2640	8T521	8SG512	H3

DSKNL/R



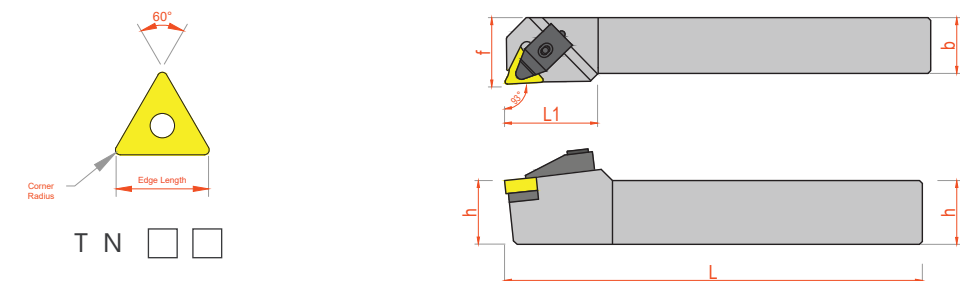
Item	Code	Dimension (mm)										
		H	B	L	L1	F	Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
DSKN-	DSKNL/R 2020 K12 AS4	20	20	125	40	25	SN1204C	4AT609	DC2640	8T521	8SG512	H3
	DSKNL/R 2525 M12 AS4	25	25	150	40	32	SN1204C	4AT609	DC2640	8T521	8SG512	H3

DSDNN



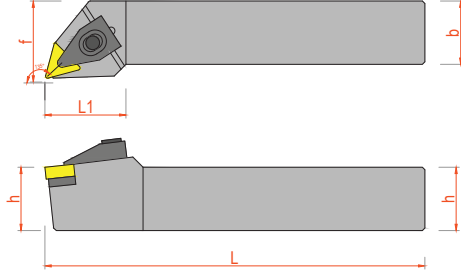
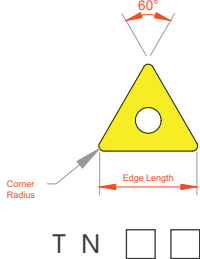
Item	Code	Dimension (mm)										
		H	B	L	L1	F	Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
DSDNN-	DSDNN 2020 K12 AS4	20	20	125	40	10	SN1204C	4AT609	DC2640	8T521	8SG512	H3
	DSDNN 2525 M12 AS4	25	25	150	40	12.5	SN1204C	4AT609	DC2640	8T521	8SG512	H3

DTJNL/R



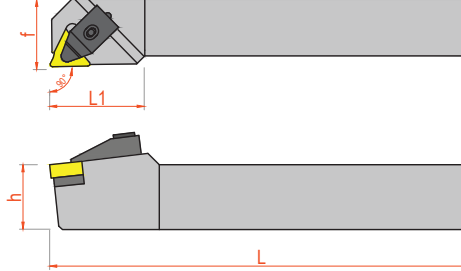
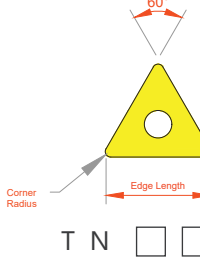
Item	Code	Dimension (mm)										
		H	B	L	L1	F	Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
DTJN-	DTJNL/R 2020 K16 AS3	20	20	125	35	25	TN1603C	4AT510	DC2228	8T521	8SG512	H3/H2.5
	DTJNL/R 2525 M16 AS3	25	25	150	35	32	TN1603C	4AT510	DC2228	8T521	8SG512	H3/H2.5

DTQNL/R



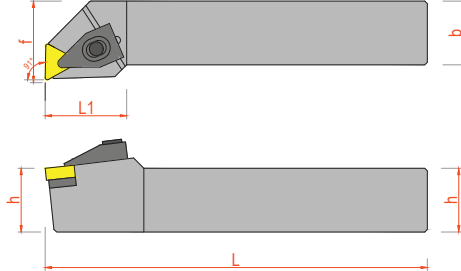
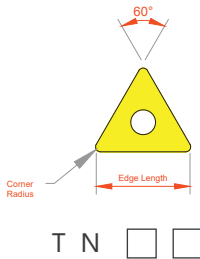
Item	Code	Dimension (mm)										
		H	B	L	L1	F	Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
DTQN-	DTQNL/R 2020 K16 AS3	20	20	125	35	25	TN1603C	4AT510	DC2228	8T521	8SG512	H3/H2.5
	DTQNL/R 2525 M16 AS3	25	25	150	35	32	TN1603C	4AT510	DC2228	8T521	8SG512	H3/H2.5

DTGNL/R



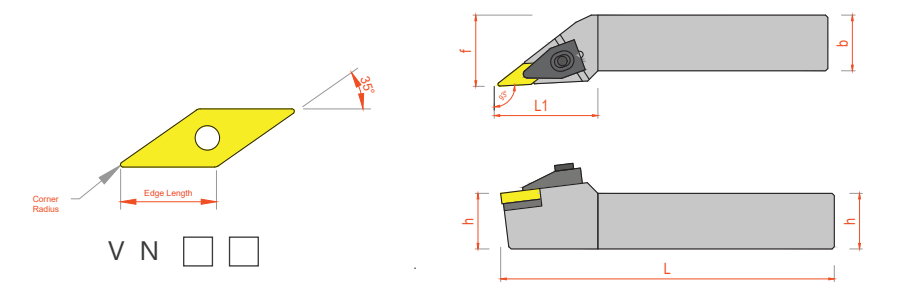
Item	Code	Dimension (mm)										
		H	B	L	L1	F	Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
DTGN-	DTGNL/R 2020 K16 AS3	20	20	125	35	25	TN1603C	4AT510	DC2228	8T521	8SG512	H3/H2.5
	DTGNL/R 2525 M16 AS3	25	25	150	35	32	TN1603C	4AT510	DC2228	8T521	8SG512	H3/H2.5

DTFNL/R



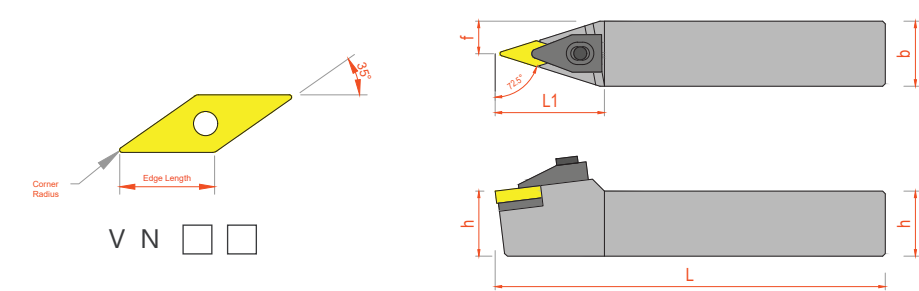
Item	Code	Dimension (mm)										
		H	B	L	L1	F	Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
DTFN-	DTFNL/R 2020 K16 AS3	20	20	125	35	25	TN1603C	4AT510	DC2228	8T521	8SG512	H3/H2.5
	DTFNL/R 2525 M16 AS3	25	25	150	35	32	TN1603C	4AT510	DC2228	8T521	8SG512	H3/H2.5

DVJNL/R



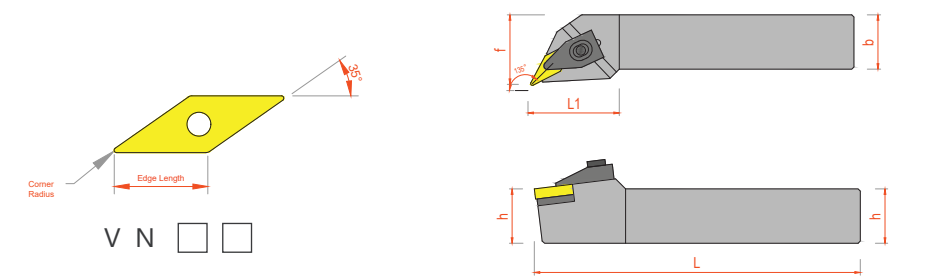
Item	Code	Dimension (mm)										
		H	B	L	L1	F	Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
DVJN-	DVJNL/R 2020 K12	20	20	125	50	25	-	-	DC3128	8T521	8SG512	H3
	DVJNL/R 2525 M12	25	25	150	50	32	-	-	DC3128	8T521	8SG512	H3
	DVJNL/R 2020 K16 AS3	20	20	125	50	25	VN1603C	4AT510	DC3128	8T521	8SG512	H3/H2.5
	DVJNL/R 2525 M16 AS3	25	25	150	50	32	VN1603C	4AT510	DC3128	8T521	8SG512	H3/H2.5

DVVNN



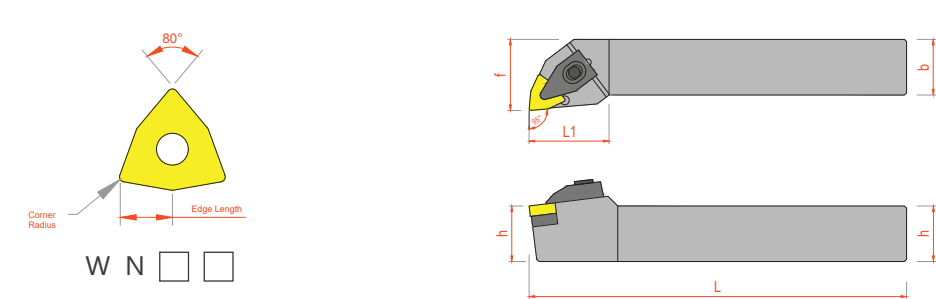
Item	Code	Dimension (mm)										
		H	B	L	L1	F	Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
DVVNN-	DVVNN 2020 K12	20	20	125	50	10	-	-	DC3128	8T521	8SG512	H3
	DVVNN 2525 M12	25	25	150	50	12.5	-	-	DC3128	8T521	8SG512	H3
	DVVNN 2020 K16 AS3	25	25	150	50	12.5	VN1603C	4AT510	DC3128	8T521	8SG512	H3/H2.5
	DVVNN 2525 M16 AS3	25	25	150	50	12.5	VN1603C	4AT510	DC3128	8T521	8SG512	H3/H2.5

DVQNL/R



Item	Code	Dimension (mm)										
		H	B	L	L1	F	Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
DVQN-	DVQNL/R 2525 M12	25	25	150	50	32	-	-	DC3128	8T521	8SG512	H3
	DVQNL/R 2525 M16 AS3	25	25	150	50	32	VN1603C	4AT510	DC3128	8T521	8SG512	H3/H2.5

DWLNL/R



Item	Code	Dimension (mm)										
		H	B	L	L1	F	Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
DWLN-	DWLNL/R 2020 K06 AS4	20	20	125	40	25	WN0604C	4AT510	DC2228	8T521	8SG512	H3/H2.5
	DWLNL/R 2525 M06 AS4	25	25	150	40	32	WN0604C	4AT510	DC2228	8T521	8SG512	H3/H2.5
	DWLNL/R 2020 K06T3 AS4	20	20	125	40	25	WN0604C	4AT510	DC2228	8T521	8SG512	H3/H2.5
	DWLNL/R 2525 M06T3 AS4	25	25	150	40	32	WN0604C	4AT510	DC2228	8T521	8SG512	H3/H2.5
	DWLNL/R 2020 K08 AS4	20	20	125	40	25	WN0804C	4AT609	DC2640	8T521	8SG512	H3
	DWLNL/R 2525 M08 AS4	25	25	150	40	32	WN0804C	4AT609	DC2640	8T521	8SG512	H3

Internal Turning Tool Holders Designation System

S

1
Type of Bar

12

2
Bar Diameter

M

3
Bar Length

S

4
Method of Mounting Insert

T

5
Insert Shape

F

6
Lead Angle of Boring Bar

P

7
Relief Angle of Insert

R

8
Hand of Bar

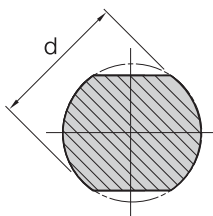
11

9
Length of Cutting Edge

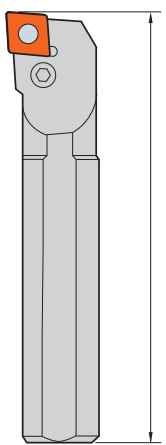
1 Type of Bar

- "A" Steel with coolant hole
- "E" Carbide bar with fixed steel head and coolant hole
- "C" Carbide shank
- "S" Steel shank
- "X" Special type

2 Bar Diameter



3 Bar Length

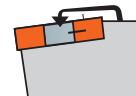


length(L)	(mm)
H	100
J	110
K	125
M	150
N	160
Q	180
R	200
S	250
T	300
U	350
V	400
W	450
Y	500

4 Method of Mounting insert



Top clamping

C


Top and hole clamping

D


Top and hole clamping

M

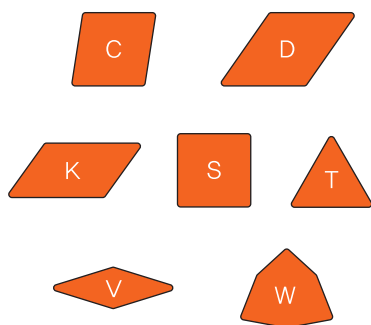

Hole clamping

P

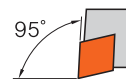
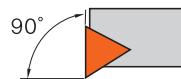
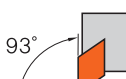

Screw on

S

5 Insert Shape



6 Lead Angle of Boring Bar


L

F

U

K

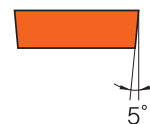
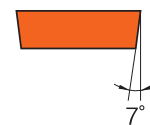
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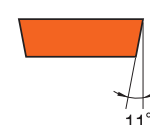
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J

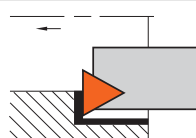
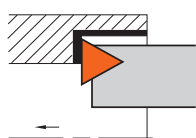
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7 Relief Angle of Insert

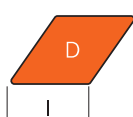
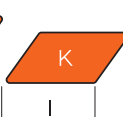

B

C

N

P

8 Hand of bar


R

L

9 Length of Cutting Edge


C

D

K

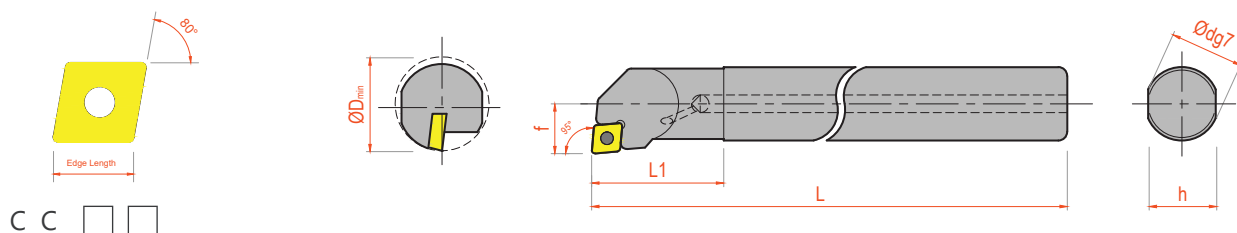
S

T

V

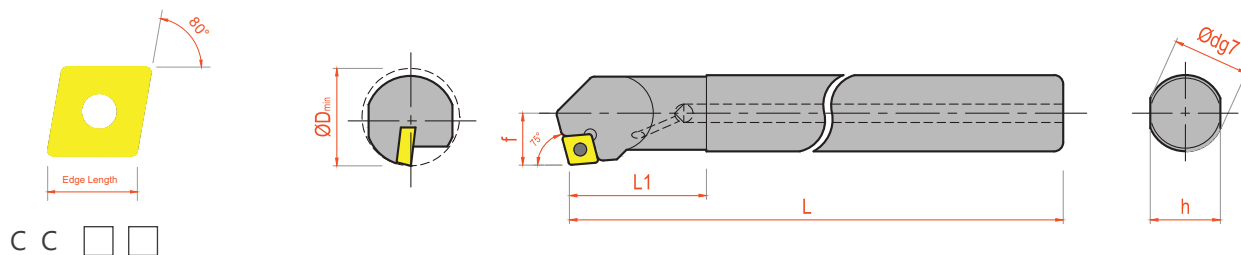
W

SCLCL/R



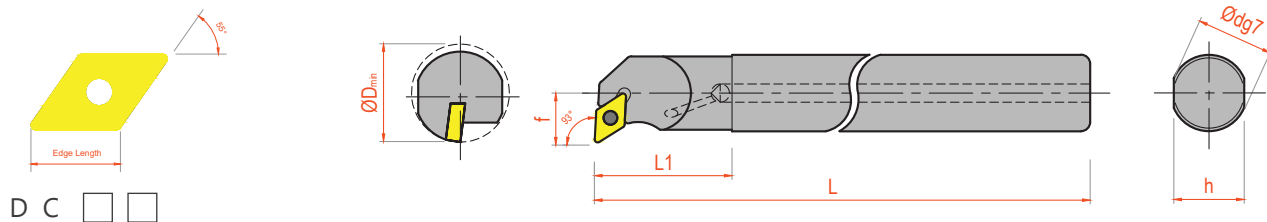
Item	Code	Dimension (mm)							Spare				
		H	B	L	L1	F	Bore	Head	Shim	Shim Screw	Insert Screw	Torx	Hex
S-SCLC-	S08H SCLCL/R 06	8	7	100	20	4.5	9	8.5	-	-	3S2505	LT8	-
	S10K SCLCL/R 06	10	9	125	20	5.5	11	10.5	-	-	3S2505	LT8	-
	S12M SCLCL/R 06	12	11	150	20	6.5	13	12.5	-	-	3S2506	LT8	-
	S12M SCLCL/R 09	12	11	150	30	7.5	14	13.5	-	-	5S3508	LT15	-
	S16Q SCLCL/R 09	16	15	180	30	8.5	17	16.5	-	-	5S3508	LT15	-
	S20R SCLCL/R 09	20	18	200	35	10.5	22	21	-	-	5S3508	LT15	-
	S25S SCLCL/R 09	25	23	250	35	13	27	26.5	-	-	5S3508	LT15	-
A-SCLC-	A08H SCLCL/R 06	8	7	100	20	4.5	9	8.5	-	-	3S2505	LT8	-
	A10K SCLCL/R 06	10	9	125	20	5.5	11	10.5	-	-	3S2505	LT8	-
	A12M SCLCL/R 06	12	11	150	20	6.5	13	12.5	-	-	3S2506	LT8	-
	A12M SCLCL/R 09	12	11	150	30	7.5	14	13.5	-	-	5S3508	LT15	-
	A16Q SCLCL/R 09	16	15	180	30	8.5	17	16.5	-	-	5S3508	LT15	-
	A20R SCLCL/R 09	20	18	200	35	10.5	22	21	-	-	5S3508	LT15	-
	A25S SCLCL/R 09	25	23	250	35	13	27	26.5	-	-	5S3508	LT15	-
C-SCLC-	C08H SCLCL/R 06	8	7	100	13	4.5	9	8.5	-	-	3S2505	LT8	-
	C10K SCLCL/R 06	10	9	125	14	5.5	11	10.5	-	-	3S2505	LT8	-
	C12M SCLCL/R 06	12	11	150	16	6.5	13	12.5	-	-	3S2506	LT8	-
	C12M SCLCL/R 09	12	11	150	18	7.5	14	13.5	-	-	5S3508	LT15	-
	C16Q SCLCL/R 09	16	15	180	21	8.5	17	16.5	-	-	5S3508	LT15	-
H-SCLC-	H08H SCLCL/R 06	8	7	100	20	4.5	9	8.5	-	-	3S2505	LT8	-
	H10K SCLCL/R 06	10	9	125	20	5.5	11	10.5	-	-	3S2505	LT8	-
	H12M SCLCL/R 06	12	11	150	20	6.5	13	12.5	-	-	3S2506	LT8	-
	H12M SCLCL/R 09	12	11	150	30	7.5	14	13.5	-	-	5S3508	LT15	-
	H16Q SCLCL/R 09	16	15	180	30	8.5	17	16.5	-	-	5S3508	LT15	-
	H20R SCLCL/R 09	20	18	200	35	10.5	22	21	-	-	5S3508	LT15	-
	H25S SCLCL/R 09	25	23	250	35	13	27	26.5	-	-	5S3508	LT15	-

SCKCL/R



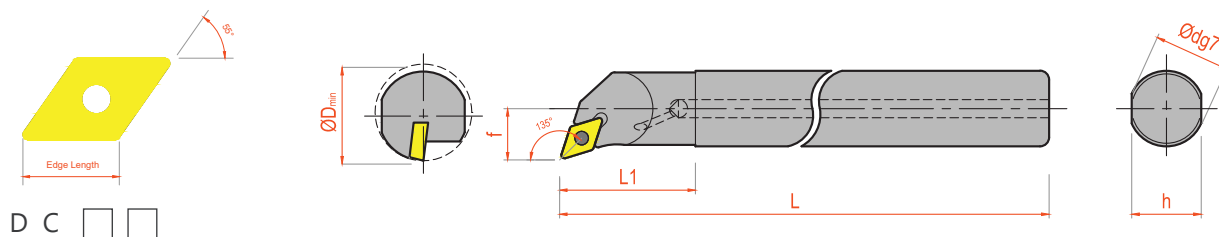
Item	Code	Dimension (mm)							Shim	Shim Screw	Insert Screw	Torx	Hex
		H	B	L	L1	F	Bore	Head					
S-SCKC-	S08H SCKCL/R 06	8	7	100	20	4.25	10	9	-	-	3S2505	LT8	-
	S10K SCKCL/R 06	10	9	125	20	5.5	12	11.5	-	-	3S2505	LT8	-
	S12M SCKCL/R 06	12	11	150	20	6.5	13	12.5	-	-	3S2506	LT8	-
	S12M SCKCL/R 09	12	11	150	30	7.5	14	13.5	-	-	5S3508	LT15	-
	S16Q SCKCL/R 09	16	15	180	30	8.5	18	17.5	-	-	5S3508	LT15	-
	S20R SCKCL/R 09	20	18	200	35	10.5	22.5	22	-	-	5S3508	LT15	-
	S25S SCKCL/R 09	25	23	250	35	13	27	26.5	-	-	5S3508	LT15	-
A-SCKC-	A08H SCKCL/R 06	8	7	100	20	4.25	10	9	-	-	3S2505	LT8	-
	A10K SCKCL/R 06	10	9	125	20	5.5	12	11.5	-	-	3S2505	LT8	-
	A12M SCKCL/R 06	12	11	150	20	6.5	13	12.5	-	-	3S2506	LT8	-
	A12M SCKCL/R 09	12	11	150	30	7.5	14	13.5	-	-	5S3508	LT15	-
	A16Q SCKCL/R 09	16	15	180	30	8.5	18	17.5	-	-	5S3508	LT15	-
	A20R SCKCL/R 09	20	18	200	35	10.5	22.5	22	-	-	5S3508	LT15	-
	A25S SCKCL/R 09	25	23	250	35	13	27	26.5	-	-	5S3508	LT15	-
C-SCKC-	C08H SCKCL/R 06	8	7	100	13	4.25	10	9	-	-	3S2505	LT8	-
	C10K SCKCL/R 06	10	9	125	14	5.5	12	11.5	-	-	3S2505	LT8	-
	C12M SCKCL/R 06	12	11	150	16	6.5	13	12.5	-	-	3S2506	LT8	-
	C12M SCKCL/R 09	12	11	150	18	7.5	14	13.5	-	-	5S3508	LT15	-
	C16Q SCKCL/R 09	16	15	180	21	8.5	18	17.5	-	-	5S3508	LT15	-
H-SCKC-	H08H SCKCL/R 06	8	7	100	20	4.25	10	9	-	-	3S2505	LT8	-
	H10K SCKCL/R 06	10	9	125	20	5.5	12	11.5	-	-	3S2505	LT8	-
	H12M SCKCL/R 06	12	11	150	20	6.5	13	12.5	-	-	3S2506	LT8	-
	H12M SCKCL/R 09	12	11	150	30	7.5	14	13.5	-	-	5S3508	LT15	-
	H16Q SCKCL/R 09	16	15	180	30	8.5	18	17.5	-	-	5S3508	LT15	-
	H20R SCKCL/R 09	20	18	200	35	10.5	22.5	22	-	-	5S3508	LT15	-
	H25S SCKCL/R 09	25	23	250	35	13	27	26.5	-	-	5S3508	LT15	-

SDUCL/R



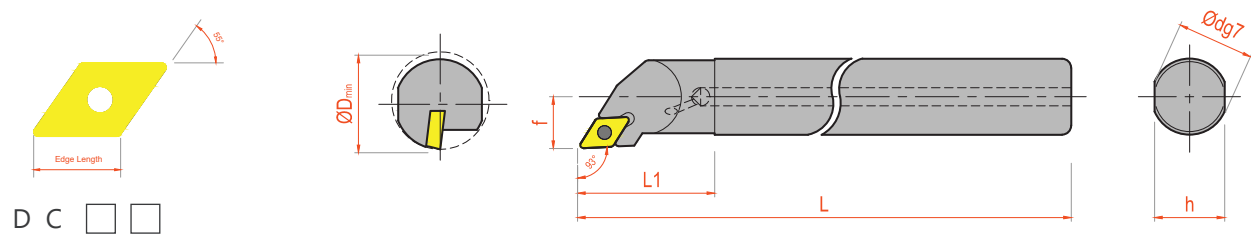
Item	Code	Dimension (mm)							Shim	Shim Screw	Insert Screw	Torx	Hex
		H	B	L	L1	F	Bore	Head					
S-SDUC-	S12M SDUCL/R 07	12	11	150	25	8.5	15	14	-	-	3S2506	LT8	-
	S16Q SDUCL/R 07	16	15	180	25	11.5	20	19.5	-	-	3S2506	LT8	-
	S16Q SDUCL/R 11	16	15	180	30	11.5	20	19.5	-	-	5S3508	LT15	-
	S20R SDUCL/R 11	20	18	200	30	13	25	22.5	-	-	5S3508	LT15	-
	S25S SDUCL/R 11	25	23	250	40	17	32	27.5	-	-	5S3508	LT15	-
A-SDUC-	A12M SDUCL/R 07	12	11	150	25	8.5	15	14	-	-	3S2506	LT8	-
	S16Q SDUCL/R 07	16	15	180	25	11.5	20	19.5	-	-	3S2506	LT8	-
	A16Q SDUCL/R 11	16	15	180	30	11.5	20	19.5	-	-	5S3508	LT15	-
	A20R SDUCL/R 11	20	18	200	30	13	25	22.5	-	-	5S3508	LT15	-
	A25S SDUCL/R 11	25	23	250	40	17	32	27.5	-	-	5S3508	LT15	-
C-SDUC-	C12M SDUCL/R 07	12	11	150	25	8.5	15	14	-	-	3S2506	LT8	-
	C16Q SDUCL/R 07	16	15	180	25	11.5	20	19.5	-	-	3S2506	LT8	-
	C16Q SDUCL/R 11	16	15	180	30	11.5	20	19.5	-	-	5S3508	LT15	-
H-SDUC-	H12M SDUCL/R 07	12	11	150	25	8.5	15	14	-	-	3S2506	LT8	-
	H16Q SDUCL/R 07	16	15	180	25	11.5	20	19.5	-	-	3S2506	LT8	-
	H16Q SDUCL/R 11	16	15	180	30	11.5	20	19.5	-	-	5S3508	LT15	-
	H20R SDUCL/R 11	20	18	200	30	13	25	22.5	-	-	5S3508	LT15	-
	H25S SDUCL/R 11	25	23	250	40	17	32	27.5	-	-	5S3508	LT15	-

SDQCL/R



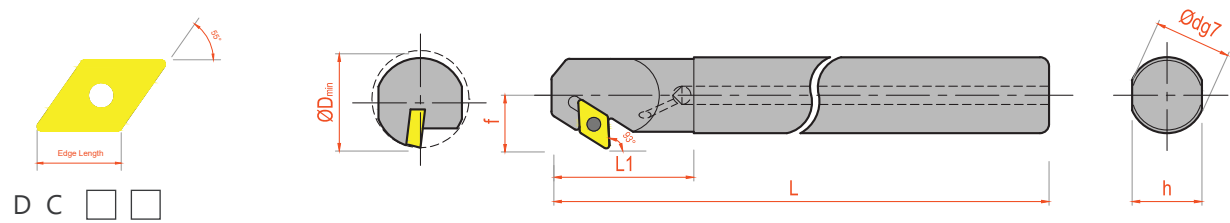
Item	Code	Dimension (mm)							Shim	Shim Screw	Insert Screw	Torx	Hex
		H	B	L	L1	F	Bore	Head					
S-SDQC-	S10K SDQCL/R 07	10	9	125	25	7.53	13	12.5	-	-	3S2505	LT8	-
	S12M SDQCL/R 07	12	11	150	25	8.5	15	14	-	-	3S2506	LT8	-
	S16Q SDQCL/R 07	16	15	180	25	11.5	20	19.5	-	-	3S2506	LT8	-
	S16Q SDQCL/R 11	16	15	180	30	11.5	20	19.5	-	-	5S3508	LT15	-
	S20R SDQCL/R 11	20	18	200	30	13	25	22.5	-	-	5S3508	LT15	-
	S25S SDQCL/R 11	25	23	250	40	17	32	27.5	-	-	5S3508	LT15	-
A-SDQC-	A10K SDQCL/R 07	10	9	125	25	7.53	13	12.5	-	-	3S2505	LT8	-
	A12M SDQCL/R 07	12	11	150	25	8.5	15	14	-	-	3S2506	LT8	-
	A16Q SDQCL/R 07	16	15	180	25	11.5	20	19.5	-	-	3S2506	LT8	-
	A16Q SDQCL/R 11	16	15	180	30	11.5	20	19.5	-	-	5S3508	LT15	-
	A20R SDQCL/R 11	20	18	200	30	13	25	22.5	-	-	5S3508	LT15	-
	A25S SDQCL/R 11	25	23	250	40	17	32	27.5	-	-	5S3508	LT15	-
C-SDQC-	C10K SDQCL/R 07	10	9	125	25	7.53	13	12.5	-	-	3S2505	LT8	-
	C12M SDQCL/R 07	12	11	150	25	8.5	15	14	-	-	3S2506	LT8	-
	C16Q SDQCL/R 07	16	15	180	25	11.5	20	19.5	-	-	3S2506	LT8	-
	C16Q SDQCL/R 11	16	15	180	30	11.5	20	19.5	-	-	5S3508	LT15	-
H-SDQC-	H10K SDQCL/R 07	10	9	125	25	7.53	13	12.5	-	-	3S2505	LT8	-
	H12M SDQCL/R 07	12	11	150	25	8.5	15	14	-	-	3S2506	LT8	-
	H16Q SDQCL/R 07	16	15	180	25	11.5	20	19.5	-	-	3S2506	LT8	-
	H16Q SDQCL/R 11	16	15	180	30	11.5	20	19.5	-	-	5S3508	LT15	-
	H20R SDQCL/R 11	20	18	200	30	13	25	22.5	-	-	5S3508	LT15	-
	H25S SDQCL/R 11	25	23	250	40	17	32	27.5	-	-	5S3508	LT15	-

SDJCL/R



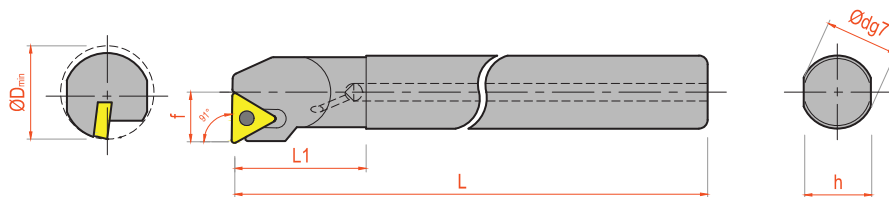
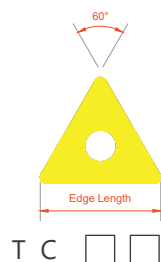
Item	Code	Dimension (mm)							Shim	Shim Screw	Insert Screw	Torx	Hex
		H	B	L	L1	F	Bore	Head					
S-SDJC-	S10K SDJCL/R 07	10	9	125	25	7.53	13	12.5	-	-	3S2505	LT8	-
	S12M SDJCL/R 07	12	11	150	25	8.5	15	14	-	-	3S2506	LT8	-
	S16Q SDJCL/R 07	16	15	180	25	11.5	20	18	-	-	3S2506	LT8	-
	S16Q SDJCL/R 11	16	15	180	30	11.5	20	19	-	-	5S3508	LT15	-
	S20R SDJCL/R 11	20	18	200	30	14	25	23	-	-	5S3508	LT15	-
	S25S SDJCL/R 11	25	23	250	40	17.5	32	30	-	-	5S3508	LT15	-
A-SDJC-	A10K SDJCL/R 07	10	9	125	25	7.53	13	12.5	-	-	3S2505	LT8	-
	A12M SDJCL/R 07	12	11	150	25	8.5	15	14	-	-	3S2506	LT8	-
	A16Q SDJCL/R 07	16	15	180	25	11.5	20	18	-	-	3S2506	LT8	-
	A16Q SDJCL/R 11	16	15	180	30	11.5	20	19	-	-	5S3508	LT15	-
	A20R SDJCL/R 11	20	18	200	30	14	25	23	-	-	5S3508	LT15	-
	A25S SDJCL/R 11	25	23	250	40	17.5	32	30	-	-	5S3508	LT15	-
H-SDJC-	H10K SDJCL/R 07	10	9	125	25	7.53	13	12.5	-	-	3S2505	LT8	-
	H12M SDJCL/R 07	12	11	150	25	8.5	15	14	-	-	3S2506	LT8	-
	H16Q SDJCL/R 07	16	15	180	25	11.5	20	18	-	-	3S2506	LT8	-
	H16Q SDJCL/R 11	16	15	180	30	11.5	20	19	-	-	5S3508	LT15	-
	H20R SDJCL/R 11	20	18	200	30	14	25	23	-	-	5S3508	LT15	-
	H25S SDJCL/R 11	25	23	250	40	17.5	32	30	-	-	5S3508	LT15	-

SDZCL/R



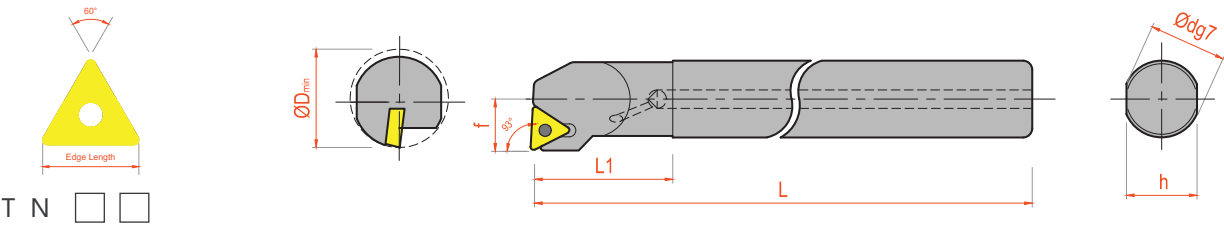
Item	Code	Dimension (mm)							Shim	Shim Screw	Insert Screw	Torx	Hex
		H	B	L	L1	F	Bore	Head					
S-SDZC-	S12M SDZCL/R 07	12	11	150	25	10.5	17	14	-	-	3S2506	LT8	-
	S16Q SDZCL/R 07	16	15	180	25	12.5	21	18	-	-	3S2506	LT8	-
	S20R SDZCL/R 11	20	18	200	30	15.5	26	23	-	-	3S2508	LT15	-
	S25S SDZCL/R 11	25	23	250	40	17.5	32	30	-	-	5S3508	LT15	-
A-SDZC-	A12M SDZCL/R 07	12	11	150	25	10.5	17	14	-	-	3S2506	LT8	-
	A16Q SDZCL/R 07	16	15	180	25	12.5	21	18	-	-	3S2506	LT8	-
	A20R SDZCL/R 11	20	18	200	30	15.5	26	23	-	-	3S2508	LT15	-
	A25S SDZCL/R 11	25	23	250	40	17.5	32	30	-	-	5S3508	LT15	-
H-SDZC-	H12M SDZCL/R 07	12	11	150	25	10.5	17	14	-	-	3S2506	LT8	-
	H16Q SDZCL/R 07	16	15	180	25	12.5	21	18	-	-	3S2506	LT8	-
	H20R SDZCL/R 11	20	18	200	30	15.5	26	23	-	-	3S2508	LT15	-
	H25S SDZCL/R 11	25	23	250	40	17.5	32	30	-	-	5S3508	LT15	-

STFCL/R



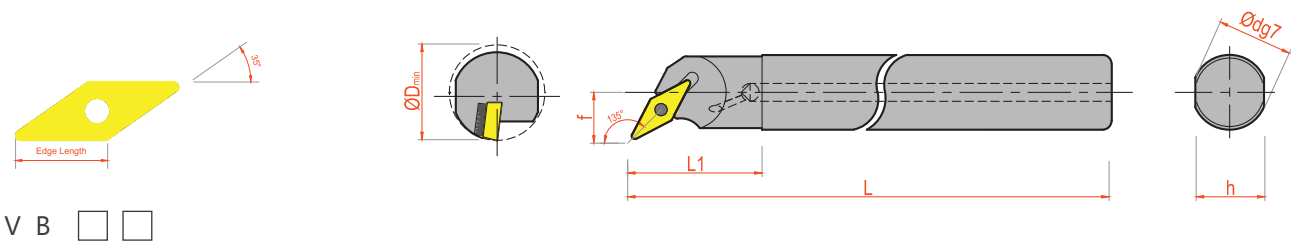
Item	Code	Dimension (mm)							Shim	Shim Screw	Insert Screw	Torx	Hex
		H	B	L	L1	F	Bore	Head					
S-STFC-	S10K STFCL/R 11	10	9	125	25	6.5	12	11.5	-	-	3S2505	LT8	-
	S12M STFCL/R 11	12	11	150	25	6.5	14	12.5	-	-	3S2505	LT8	-
	S16Q STFCL/R 11	16	15	180	35	8.5	18	16.5	-	-	3S2505	LT8	-
	S20R STFCL/R 11	20	18	200	35	11.25	22	20.5	-	-	5S3505	LT8	-
	S20R STFCL/R 16	20	18	200	35	11.25	22	20.5	-	-	5S3511	LT15	-
	S25S STFCL/R 16	25	23	250	35	15.5	29	27.5	-	-	5S3511	LT15	-
	S32T STFCL/R 16	32	30	300	35	18.87	36	33.5	-	-	5S3511	LT15	-
A-STFC-	A10K STFCL/R 11	10	9	125	25	6.5	12	11.5	-	-	3S2505	LT8	-
	A12M STFCL/R 11	12	11	150	25	6.5	14	12.5	-	-	3S2505	LT8	-
	A16Q STFCL/R 11	16	15	180	35	8.5	18	16.5	-	-	3S2505	LT8	-
	A20R STFCL/R 11	20	18	200	35	11.25	22	20.5	-	-	5S3505	LT8	-
	A20R STFCL/R 16	20	18	200	35	11.25	22	20.5	-	-	5S3511	LT15	-
	A25S STFCL/R 16	25	23	250	35	15.5	29	27.5	-	-	5S3511	LT15	-
	A32T STFCL/R 16	32	30	300	35	18.87	36	33.5	-	-	5S3511	LT15	-
C-STFC-	C12M STFCL/R 11	10	9	125	25	6.5	12	11.5	-	-	3S2505	LT8	-
	C16Q STFCL/R 11	12	11	150	25	6.5	14	12.5	-	-	3S2505	LT8	-
H-STFC-	H10K STFCL/R 11	10	9	125	25	6.5	12	11.5	-	-	3S2505	LT8	-
	H12M STFCL/R 11	12	11	150	25	6.5	14	12.5	-	-	3S2505	LT8	-
	H16Q STFCL/R 11	16	15	180	35	8.5	18	16.5	-	-	3S2505	LT8	-
	H20R STFCL/R 11	20	18	200	35	11.25	22	20.5	-	-	5S3505	LT8	-
	H20R STFCL/R 16	20	18	200	35	11.25	22	20.5	-	-	5S3511	LT15	-
	H25S STFCL/R 16	25	23	250	35	15.5	29	27.5	-	-	5S3511	LT15	-
	H32T STFCL/R 16	32	30	300	35	18.87	36	33.5	-	-	5S3511	LT15	-

STUNL/R



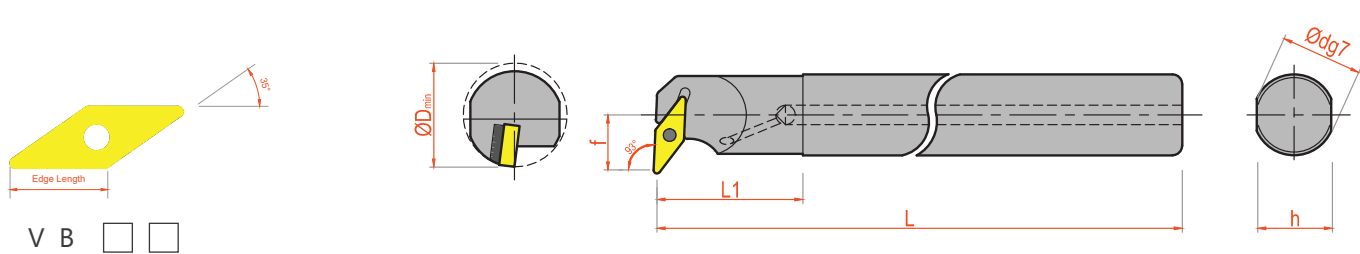
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S-STUN-	S16Q STUNL/R 16	16	15	180	32	8.5	18	16.5	-	-	5S3511	LT15	-
	S20R STUNL/R 16	20	18	200	35	11.93	22	20.5	-	-	5S3511	LT15	-
	S25S STUNL/R 16	25	23	250	40	15.37	29	27.5	-	-	5S3511	LT15	-
	S32T STUNL/R 16	32	30	300	45	18.87	36	33.5	-	-	5S3511	LT15	-
A-STUN-	A16Q STUNL/R 16	16	15	180	32	8.5	18	16.5	-	-	5S3511	LT15	-
	A20R STUNL/R 16	20	18	200	35	11.93	22	20.5	-	-	5S3511	LT15	-
	A25S STUNL/R 16	25	23	250	40	15.37	29	27.5	-	-	5S3511	LT15	-
	A32T STUNL/R 16	32	30	300	45	18.87	36	33.5	-	-	5S3511	LT15	-
H-STUN-	H16Q STUNL/R 16	16	15	180	32	8.5	18	16.5	-	-	5S3511	LT15	-
	H20R STUNL/R 16	20	18	200	35	11.93	22	20.5	-	-	5S3511	LT15	-
	H25S STUNL/R 16	25	23	250	40	15.37	29	27.5	-	-	5S3511	LT15	-
	H32T STUNL/R 16	32	30	300	45	18.87	36	33.5	-	-	5S3511	LT15	-

SVQBL/R



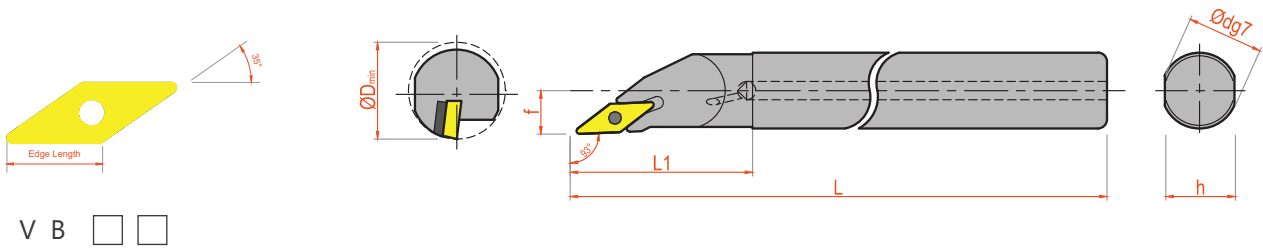
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		H	B	L	L1	F	Bore	Head					
S-SVQB-	S32T SVQBL/R 16	32	30	300	45	18.5	38	33.5	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	S40U SVQBL/R 16	40	37	350	45	23	48	42	VN1603CTW	6ST508	5S3511	LT15	LH3.5
A-SVQB-	A32T SVQBL/R 16	32	30	300	45	18.5	38	33.5	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	A40U SVQBL/R 16	40	37	350	45	23	48	42	VN1603CTW	6ST508	5S3511	LT15	LH3.5
H-SVQB-	H32T SVQBL/R 16	32	30	300	45	18.5	38	33.5	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	H40U SVQBL/R 16	40	37	350	45	23	48	42	VN1603CTW	6ST508	5S3511	LT15	LH3.5

SVUBL/R



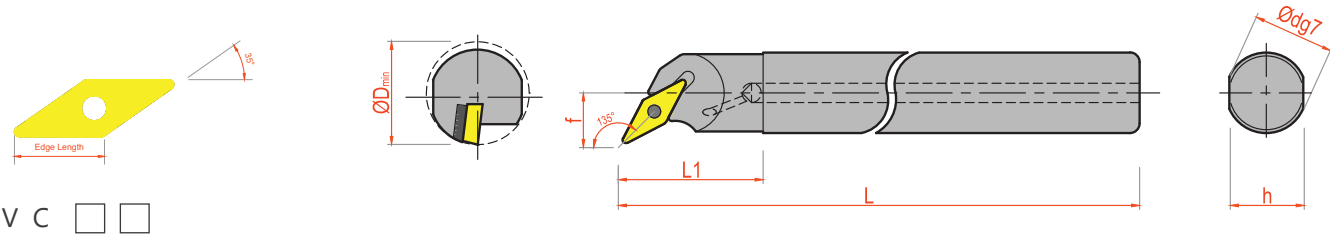
Item	Code	Dimension (mm)							Shim	Shim Screw	Insert Screw	Torx	Hex
		H	B	L	L1	F	Bore	Head					
S-SVUB-	S32T SVUBL/R 16	32	30	300	45	18.5	38	34	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	S40U SVUBL/R 16	40	37	350	45	23	48	42	VN1603CTW	6ST508	5S3511	LT15	LH3.5
A-SVUB-	A32T SVUBL/R 16	32	30	300	45	18.5	38	34	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	A40U SVUBL/R 16	40	37	350	45	23	48	42	VN1603CTW	6ST508	5S3511	LT15	LH3.5
H-SVUB-	H32T SVUBL/R 16	32	30	300	45	18.5	38	34	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	H40U SVUBL/R 16	40	37	350	45	23	48	42	VN1603CTW	6ST508	5S3511	LT15	LH3.5

SVJBL/R



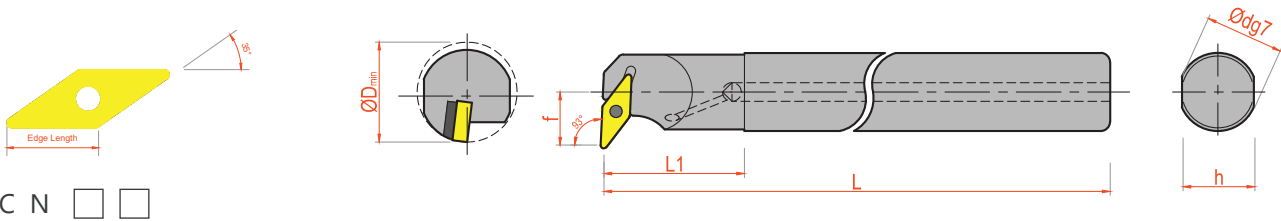
Item	Code	Dimension (mm)							Shim	Shim Screw	Insert Screw	Torx	Hex
		H	B	L	L1	F	Bore	Head					
S-SVJB-	S20R SVJBL/R 16	20	18	200	50	12	24	21	-	-	5S3511	LT15	-
	S25S SVJBL/R 16	25	23	250	50	15.5	32	27.5	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	S32T SVJBL/R 16	32	30	300	60	18.5	38	37.5	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	S40U SVJBL/R 16	40	37	350	65	23	48	42	VN1603CTW	6ST508	5S3511	LT15	LH3.5
A-SVJB-	A20R SVJBL/R 16	20	18	200	50	12	24	21	-	-	5S3511	LT15	-
	A25S SVJBL/R 16	25	23	250	50	15.5	32	27.5	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	A32T SVJBL/R 16	32	30	300	60	18.5	38	37.5	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	A40U SVJBL/R 16	40	37	350	65	23	48	42	VN1603CTW	6ST508	5S3511	LT15	LH3.5
H-SVJB-	H20R SVJBL/R 16	20	18	200	50	12	24	21	-	-	5S3511	LT15	-
	H25S SVJBL/R 16	25	23	250	50	15.5	32	27.5	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	H32T SVJBL/R 16	32	30	300	60	18.5	38	37.5	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	H40U SVJBL/R 16	40	37	350	65	23	48	42	VN1603CTW	6ST508	5S3511	LT15	LH3.5

SVQCL/R



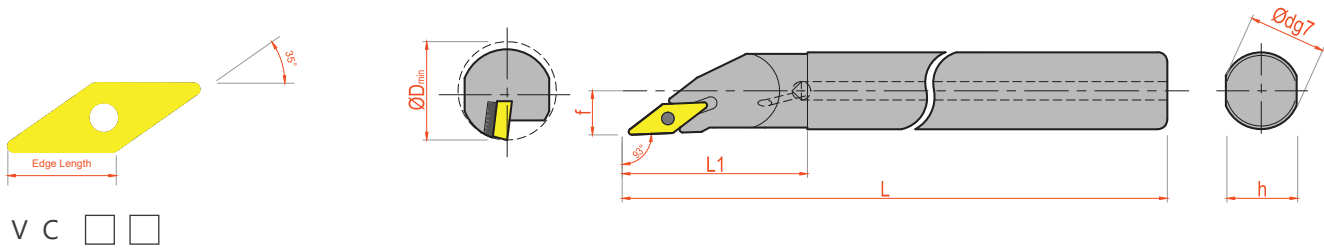
Item	Code	Dimension (mm)							Shim	Shim Screw	Insert Screw	Torx	Hex
		H	B	L	L1	F	Bore	Head					
S-SVQC-	S32T SVQCL/R 16	32	30	300	45	18.5	38	33.5	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	S40U SVQCL/R 16	40	37	350	45	23	48	42	VN1603CTW	6ST508	5S3511	LT15	LH3.5
A-SVQC-	A32T SVQCL/R 16	32	30	300	45	18.5	38	33.5	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	A40U SVQCL/R 16	40	37	350	45	23	48	42	VN1603CTW	6ST508	5S3511	LT15	LH3.5
H-SVQC-	H32T SVQCL/R 16	32	30	300	45	18.5	38	33.5	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	H40U SVQCL/R 16	40	37	350	45	23	48	42	VN1603CTW	6ST508	5S3511	LT15	LH3.5

SVUCL/R



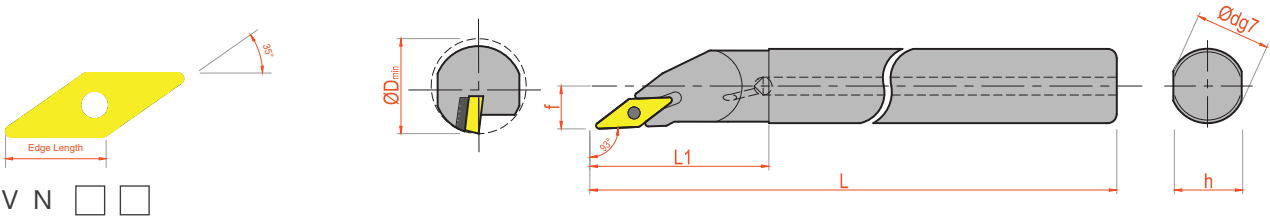
Item	Code	Dimension (mm)							Shim	Shim Screw	Insert Screw	Torx	Hex
		H	B	L	L1	F	Bore	Head					
S-SVUC-	S32T SVUCL/R 16	32	30	300	45	18.5	38	34	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	S40U SVUCL/R 16	40	37	350	45	23	48	42	VN1603CTW	6ST508	5S3511	LT15	LH3.5
A-SVUC-	A32T SVUCL/R 16	32	30	300	45	18.5	38	34	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	A40U SVUCL/R 16	40	37	350	45	23	48	42	VN1603CTW	6ST508	5S3511	LT15	LH3.5
H-SVUC-	H32T SVUCL/R 16	32	30	300	45	18.5	38	34	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	H40U SVUCL/R 16	40	37	350	45	23	48	42	VN1603CTW	6ST508	5S3511	LT15	LH3.5

SVJCL/R



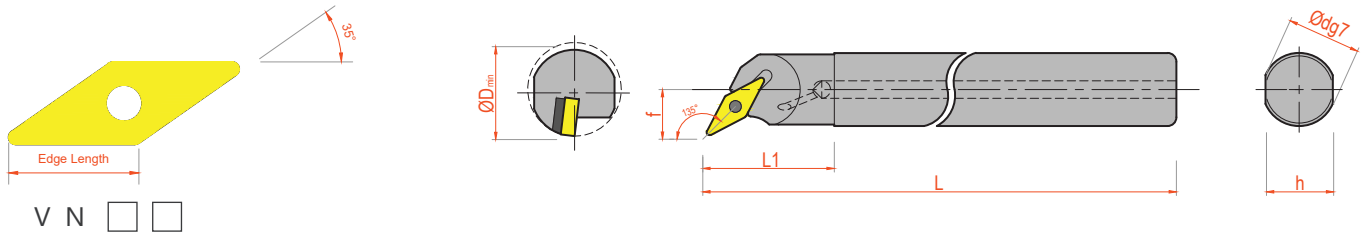
Item	Code	Dimension (mm)							Spare				
		H	B	L	L1	F	Bore	Head	Shim	Shim Screw	Insert Screw	Lever	Hex
S-SVJC-	S20R SVJCL/R 16	20	18	200	50	12	24	21	-	-	5S3511	LT15	-
	S25S SVJCL/R 16	25	23	250	50	15.5	32	27.5	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	S32T SVJCL/R 16	32	30	300	60	18.5	38	33.5	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	S40U SVJCL/R 16	40	37	350	65	23	48	42	VN1603CTW	6ST508	5S3511	LT15	LH3.5
A-SVJC-	A20R SVJCL/R 16	20	18	200	50	12	24	21	-	-	5S3511	LT15	-
	A25S SVJCL/R 16	25	23	250	50	15.5	32	27.5	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	A32T SVJCL/R 16	32	30	300	60	18.5	38	33.5	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	A40U SVJCL/R 16	40	37	350	65	23	48	42	VN1603CTW	6ST508	5S3511	LT15	LH3.5
H-SVJC-	H20R SVJCL/R 16	20	18	200	50	12	24	21	-	-	5S3511	LT15	-
	H25S SVJCL/R 16	25	23	250	50	15.5	32	27.5	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	H32T SVJCL/R 16	32	30	300	60	18.5	38	33.5	VN1603CTW	6ST508	5S3511	LT15	LH3.5
	H40U SVJCL/R 16	40	37	350	65	23	48	42	VN1603CTW	6ST508	5S3511	LT15	LH3.5

SVJNL/R



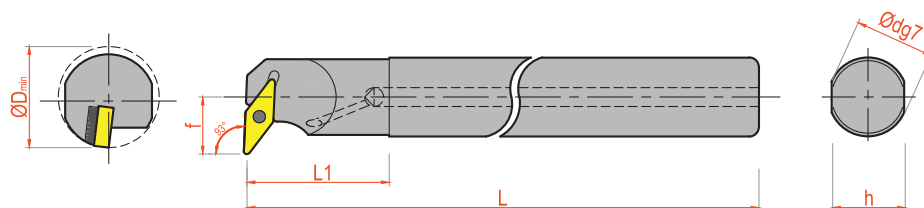
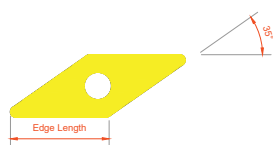
Item	Code	Dimension (mm)							Shim	Shim Screw	Insert Screw	Torx	Hex
		H	B	L	L1	F	Bore	Head					
S-SVJN-	S16Q SVJNL/R 12	16	15	180	40	12.23	21	20.5	-	-	5S3511	LT10	-
	S20R SVJNL/R 12	20	18	200	40	13.8	25	24	-	-	5S3511	LT10	-
	S25S SVJNL/R 12	25	23	250	40	16	32	30	-	-	5S3511	LT10	-
	S20R SVJNL/R 16	20	18	200	50	12	25	21	-	-	5S3513	LT15	-
	S25S SVJNL/R 16	25	23	250	50	15.5	32	27.5	VN1603C	6ST508	5S3513	LT15	LH3.5
	S32T SVJNL/R 16	32	30	300	60	18.5	38	33.5	VN1603C	6ST508	5S3513	LT15	LH3.5
	S40U SVJNL/R 16	40	37	350	65	23	48	42	VN1603C	6ST508	5S3513	LT15	LH3.5
A-SVJN-	A16Q SVJNL/R 12	16	15	180	40	12.23	21	20.5	-	-	5S3511	LT10	-
	A20R SVJNL/R 12	20	18	200	40	13.8	25	24	-	-	5S3511	LT10	-
	A25S SVJNL/R 12	25	23	250	40	16	32	30	-	-	5S3511	LT10	-
	A20R SVJNL/R 16	20	18	200	50	12	25	21	-	-	5S3513	LT15	-
	A25S SVJNL/R 16	25	23	250	50	15.5	32	27.5	VN1603C	6ST508	5S3513	LT15	LH3.5
	A32T SVJNL/R 16	32	30	300	60	18.5	38	33.5	VN1603C	6ST508	5S3513	LT15	LH3.5
	A40U SVJNL/R 16	40	37	350	65	23	48	42	VN1603C	6ST508	5S3513	LT15	LH3.5
H-SVJN-	H16Q SVJNL/R 12	16	15	180	40	12.23	21	20.5	-	-	5S3511	LT10	-
	H20R SVJNL/R 12	20	18	200	40	13.8	25	24	-	-	5S3511	LT10	-
	H25S SVJNL/R 12	25	23	250	40	16	32	30	-	-	5S3511	LT10	-
	H20R SVJNL/R 16	20	18	200	50	12	25	21	-	-	5S3513	LT15	-
	H25S SVJNL/R 16	25	23	250	50	15.5	32	27.5	VN1603C	6ST508	5S3513	LT15	LH3.5
	H32T SVJNL/R 16	32	30	300	60	18.5	38	33.5	VN1603C	6ST508	5S3513	LT15	LH3.5
	H40U SVJNL/R 16	40	37	350	65	23	48	42	VN1603C	6ST508	5S3513	LT15	LH3.5

SVQNL/R



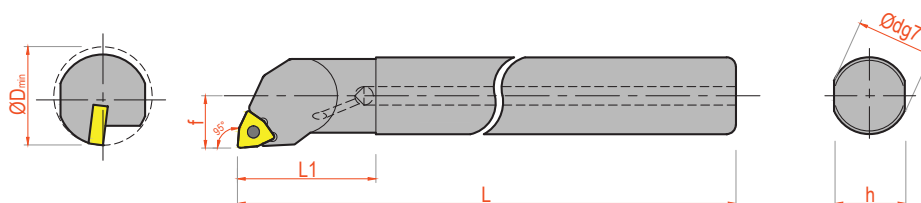
Item	Code	Dimension (mm)							Shim	Shim Screw	Insert Screw	Torx	Hex
		H	B	L	L1	F	Bore	Head					
S-SVQN-	S16Q SVQNL/R 12	16	15	180	40	12.23	21	20.5	-	-	5S3511	LT10	-
	S20R SVQNL/R 12	20	18	200	40	13.8	25	24	-	-	5S3511	LT10	-
	S25S SVQNL/R 12	25	23	250	40	16	32	30	-	-	5S3511	LT10	-
	S25S SVQNL/R 16	25	23	250	45	16	32	30	VN1603C	6ST508	5S3513	LT15	LH3.5
	S32T SVQNL/R 16	32	30	300	45	18.5	38	34	VN1603C	6ST508	5S3513	LT15	LH3.5
	S40U SVQNL/R 16	40	37	350	45	23	48	42	VN1603C	6ST508	5S3513	LT15	LH3.5
A-SVQN-	A16Q SVQNL/R 12	16	15	180	40	12.23	21	20.5	-	-	5S3511	LT10	-
	A20R SVQNL/R 12	20	18	200	40	13.8	25	24	-	-	5S3511	LT10	-
	A25S SVQNL/R 12	25	23	250	40	16	32	30	-	-	5S3511	LT10	-
	A25S SVQNL/R 16	25	23	250	45	16	32	30	VN1603C	6ST508	5S3513	LT15	LH3.5
	A32T SVQNL/R 16	32	30	300	45	18.5	38	34	VN1603C	6ST508	5S3513	LT15	LH3.5
	A40U SVQNL/R 16	40	37	350	45	23	48	42	VN1603C	6ST508	5S3513	LT15	LH3.5
H-SVQN-	H16Q SVQNL/R 12	16	15	180	40	12.23	21	20.5	-	-	5S3511	LT10	-
	H20R SVQNL/R 12	20	18	200	40	13.8	25	24	-	-	5S3511	LT10	-
	H25S SVQNL/R 12	25	23	250	40	16	32	30	-	-	5S3511	LT10	-
	H25S SVQNL/R 16	25	23	250	45	16	32	30	VN1603C	6ST508	5S3513	LT15	LH3.5
	H32T SVQNL/R 16	32	30	300	45	18.5	38	34	VN1603C	6ST508	5S3513	LT15	LH3.5
	H40U SVQNL/R 16	40	37	350	45	23	48	42	VN1603C	6ST508	5S3513	LT15	LH3.5

SVUNL/R

V N ☐ ☐

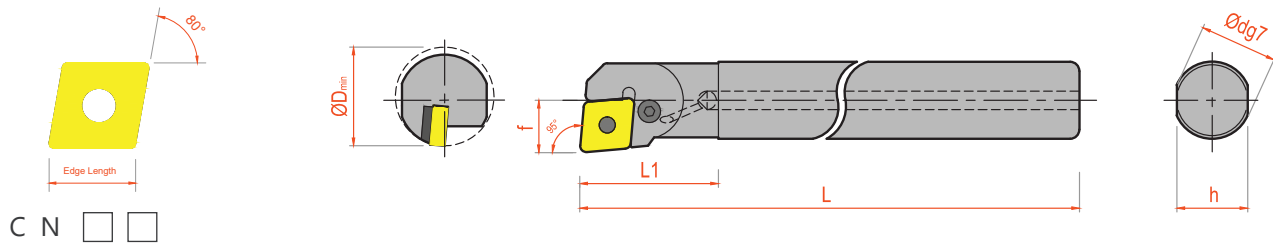
Item	Code	Dimension (mm)							Shim	Shim Screw	Insert Screw	Torx	Hex
		H	B	L	L1	F	Bore	Head					
S-SVUN-	S20R SVUNL/R 12	20	18	200	40	13.8	25	24	-	-	5S3511	LT10	-
	S25S SVUNL/R 12	25	23	250	40	17	32	30	-	-	5S3511	LT10	-
	S32T SVUNL/R 16	32	30	300	45	18.5	38	34	VN1603C	6ST508	5S3513	LT15	LH3.5
	S40U SVUNL/R 16	40	37	350	45	23	48	42	VN1603C	6ST508	5S3513	LT15	LH3.5
A-SVUN-	A20R SVUNL/R 12	20	18	200	40	13.8	25	24	-	-	5S3511	LT10	-
	A25S SVUNL/R 12	25	23	250	40	17	32	30	-	-	5S3511	LT10	-
	A32T SVUNL/R 16	32	30	300	45	18.5	38	34	VN1603C	6ST508	5S3513	LT15	LH3.5
	A40U SVUNL/R 16	40	37	350	45	23	48	42	VN1603C	6ST508	5S3513	LT15	LH3.5
H-SVUN-	H20R SVUNL/R 12	20	18	200	40	13.8	25	24	-	-	5S3511	LT10	-
	H25S SVUNL/R 12	25	23	250	40	17	32	30	-	-	5S3511	LT10	-
	H32T SVUNL/R 16	32	30	300	45	18.5	38	34	VN1603C	6ST508	5S3513	LT15	LH3.5
	H40U SVUNL/R 16	40	37	350	45	23	48	42	VN1603C	6ST508	5S3513	LT15	LH3.5

SWLNL/R

W N ☐ ☐

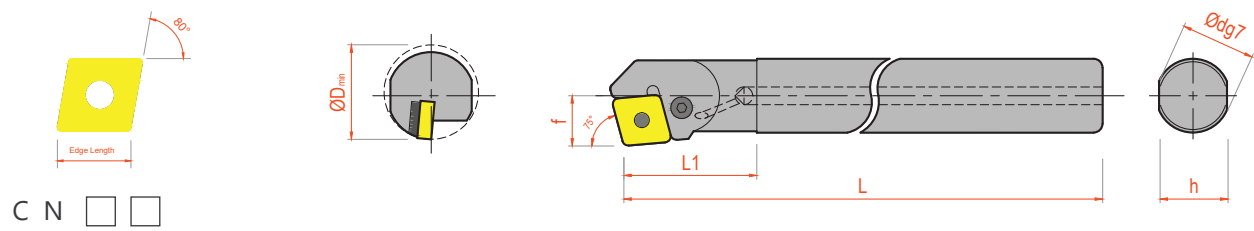
Item	Code	Dimension (mm)							Shim	Shim Screw	Insert Screw	Torx	Hex
		H	B	L	L1	F	Bore	Head					
S-SWLN-	S16Q SWLNL/R 06 T3	16	15	180	40	9.5	19.5	17	-	-	3S308	LT10	-
	S16Q SWLNL/R 06	16	15	180	40	9.5	19.5	17	-	-	3S308	LT10	-
	S20R SWLNL/R 06 T3	20	18	200	40	11.5	22	20.5	-	-	3S308	LT10	-
	S20R SWLNL/R 06	20	18	200	40	11.5	22	20.5	-	-	3S308	LT10	-
A-SWLN-	A16Q SWLNL/R 06 T3	16	15	180	40	9.5	19.5	17	-	-	3S308	LT10	-
	A16Q SWLNL/R 06	16	15	180	40	9.5	19.5	17	-	-	3S308	LT10	-
	A20R SWLNL/R 06 T3	20	18	200	40	11.5	22	20.5	-	-	3S308	LT10	-
	A20R SWLNL/R 06	20	18	200	40	11.5	22	20.5	-	-	3S308	LT10	-
H-SWLN-	H16Q SWLNL/R 06 T3	16	15	180	40	9.5	19.5	17	-	-	3S308	LT10	-
	H16Q SWLNL/R 06	16	15	180	40	9.5	19.5	17	-	-	3S308	LT10	-
	H20R SWLNL/R 06 T3	20	18	200	40	11.5	22	20.5	-	-	3S308	LT10	-
	H20R SWLNL/R 06	20	18	200	40	11.5	22	20.5	-	-	3S308	LT10	-

PCLNL/R



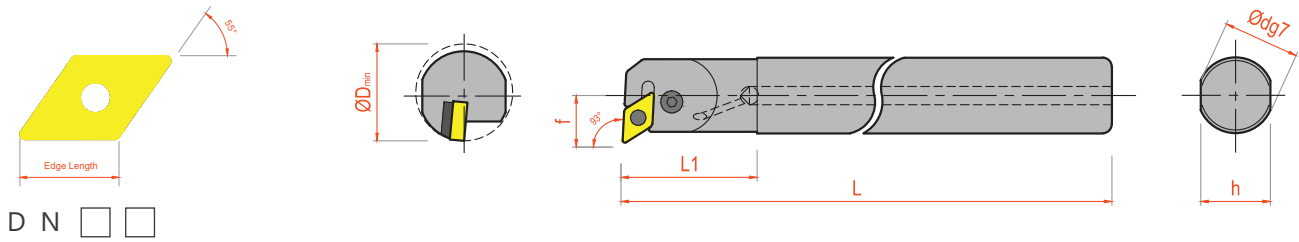
Item	Code	Dimension (mm)							Spare				
		H	B	L	L1	F	Bore	Head	Shim	Shim Pin	Insert Screw	Lever	Hex
S-PCLN-	S16Q PCLNL/R 09	16	15	180	40	10.5	20	17.5	-	-	6KS16	3L1209	LH2.5
	S20R PCLNL/R 09	20	18	200	40	13	25	21.5	-	-	6KS16	3L1209	LH2.5
	S25S PCLNL/R 12	25	23	250	40	16.5	32	28	CN1203SW	7SP066	8KS21	4L1213	LH3
	S32T PCLNL/R 12	32	30	300	40	20.5	40	34.5	CN1203SW	7SP066	8KS21	4L1213	LH3
	S40U PCLNL/R 12	40	37	350	45	45	50	43	CN1203SW	7SP066	8KS21	4L1213	LH3
	S50U PCLNL/R 12	50	47	350	45	33	63	57	CN1203SW	7SP066	8KS21	4L1213	LH3
	S50U PCLNL/R 19	50	47	350	50	33	63	57	CN1904SW	11SP104	10KS30	7L2120	LH4
A-PCLN-	A16Q PCLNL/R 09	16	15	180	40	10.5	20	17.5	-	-	6KS16	3L1209	LH2.5
	A20R PCLNL/R 09	20	18	200	40	13	25	21.5	-	-	6KS16	3L1209	LH2.5
	A25S PCLNL/R 12	25	23	250	40	16.5	32	28	CN1203SW	7SP066	8KS21	4L1213	LH3
	A32T PCLNL/R 12	32	30	300	40	20.5	40	34.5	CN1203SW	7SP066	8KS21	4L1213	LH3
	A40U PCLNL/R 12	40	37	350	45	45	50	43	CN1203SW	7SP066	8KS21	4L1213	LH3
	A50U PCLNL/R 12	50	47	350	45	33	63	57	CN1203SW	7SP066	8KS21	4L1213	LH3
	A50U PCLNL/R 19	50	47	350	50	33	63	57	CN1904SW	11SP104	10KS30	7L2120	LH4
H-PCLN-	H16Q PCLNL/R 09	16	15	180	40	10.5	20	17.5	-	-	6KS16	3L1209	LH2.5
	H20R PCLNL/R 09	20	18	200	40	13	25	21.5	-	-	6KS16	3L1209	LH2.5
	H25S PCLNL/R 12	25	23	250	40	16.5	32	28	CN1203SW	7SP066	8KS21	4L1213	LH3
	H32T PCLNL/R 12	32	30	300	40	20.5	40	34.5	CN1203SW	7SP066	8KS21	4L1213	LH3
	H40U PCLNL/R 12	40	37	350	45	45	50	43	CN1203SW	7SP066	8KS21	4L1213	LH3
	H50U PCLNL/R 12	50	47	350	45	33	63	57	CN1203SW	7SP066	8KS21	4L1213	LH3
	H50U PCLNL/R 19	50	47	350	50	33	63	57	CN1904SW	11SP104	10KS30	7L2120	LH4

PCKNL/R



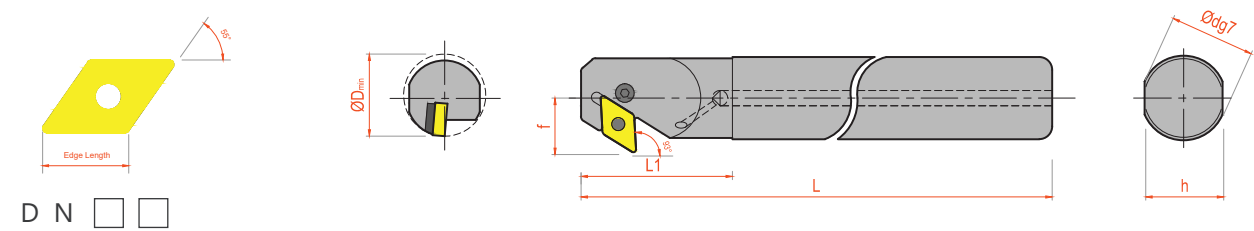
Item	Code	Dimension (mm)							Spare				
		H	B	L	L1	F	Bore	Head	Shim	Shim Pin	Insert Screw	Lever	Hex
S-PCKN-	S25S PCKNL/R 12	25	23	250	40	16.5	32	28	CN1203SW	7SP066	8KS21	4L1213	LH3
	S32T PCKNL/R 12	32	30	300	40	20.5	40	34.5	CN1203SW	7SP066	8KS21	4L1213	LH3
	S40U PCKNL/R 12	40	37	350	45	45	50	43	CN1203SW	7SP066	8KS21	4L1213	LH3
	S50U PCKNL/R 12	50	47	350	45	33	63	57	CN1203SW	7SP066	8KS21	4L1213	LH3
	S50U PCKNL/R 19	50	47	350	50	33	63	57	CN1904SW	11SP104	10KS30	7L2120	LH4
A-PCKN-	A25S PCKNL/R 12	25	23	250	40	16.5	32	28	CN1203SW	7SP066	8KS21	4L1213	LH3
	A32T PCKNL/R 12	32	30	300	40	20.5	40	34.5	CN1203SW	7SP066	8KS21	4L1213	LH3
	A40U PCKNL/R 12	40	37	350	45	45	50	43	CN1203SW	7SP066	8KS21	4L1213	LH3
	A50U PCKNL/R 12	50	47	350	45	33	63	57	CN1203SW	7SP066	8KS21	4L1213	LH3
	A50U PCKNL/R 19	50	47	350	50	33	63	57	CN1904SW	11SP104	10KS30	7L2120	LH4
H-PCKN-	H25S PCKNL/R 12	25	23	250	40	16.5	32	28	CN1203SW	7SP066	8KS21	4L1213	LH3
	H32T PCKNL/R 12	32	30	300	40	20.5	40	34.5	CN1203SW	7SP066	8KS21	4L1213	LH3
	H40U PCKNL/R 12	40	37	350	45	45	50	43	CN1203SW	7SP066	8KS21	4L1213	LH3
	H50U PCKNL/R 12	50	47	350	45	33	63	57	CN1203SW	7SP066	8KS21	4L1213	LH3
	H50U PCKNL/R 19	50	47	350	50	33	63	57	CN1904SW	11SP104	10KS30	7L2120	LH4

PDUNL/R



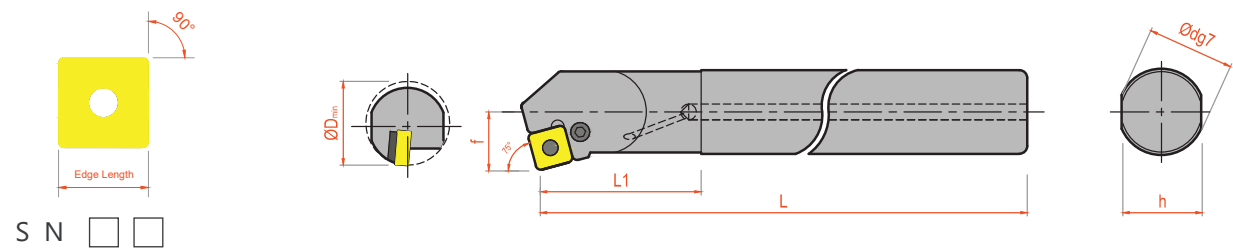
Item	Code	Dimension (mm)							Spare				
		H	B	L	L1	F	Bore	Head	Shim	Shim Pin	Insert Screw	Lever	Hex
S-PDUN-	S25S PDUNL/R 11	25	23	250	40	18	32	29.5	DN1103C	6SP045	6KS16	3L1209	LH2.5
	S32T PDUNL/R 11	32	30	300	40	22	40	38	DN1103C	6SP045	6KS16	3L1209	LH2.5
	S40U PDUNL/R 11	40	37	350	45	27	50	43	DN1103C	6SP045	6KS16	3L1209	LH2.5
	S50U PDUNL/R 11	50	47	350	50	32	60	53	DN1103C	6SP045	6KS16	3L1209	LH2.5
	S32T PDUNL/R 15	32	30	300	45	22	40	38	DN1503SW	7SP066	8KS21	4L1514	LH3
	S40U PDUNL/R 15	40	37	350	50	27	50	43	DN1503SW	7SP066	8KS21	4L1514	LH3
	S50U PDUNL/R 15	45	47	350	55	32	60	53	DN1503SW	7SP066	8KS21	4L1514	LH3
A-PDUN-	A25S PDUNL/R 11	25	23	250	40	18	32	29.5	DN1103C	6SP045	6KS16	3L1209	LH2.5
	A32T PDUNL/R 11	32	30	300	40	22	40	38	DN1103C	6SP045	6KS16	3L1209	LH2.5
	A40U PDUNL/R 11	40	37	350	45	27	50	43	DN1103C	6SP045	6KS16	3L1209	LH2.5
	A50U PDUNL/R 11	50	47	350	50	32	60	53	DN1103C	6SP045	6KS16	3L1209	LH2.5
	A32T PDUNL/R 15	32	30	300	45	22	40	39	DN1503SW	7SP066	8KS21	4L1514	LH3
	A40U PDUNL/R 15	40	37	350	50	27	50	46	DN1503SW	7SP066	8KS21	4L1514	LH3
	A50U PDUNL/R 15	45	47	350	55	32	60	56	DN1503SW	7SP066	8KS21	4L1514	LH3
H-PDUN-	H25S PDUNL/R 11	25	23	250	40	18	32	29.5	DN1103C	6SP045	6KS16	3L1209	LH2.5
	H32T PDUNL/R 11	32	30	300	40	22	40	38	DN1103C	6SP045	6KS16	3L1209	LH2.5
	H40U PDUNL/R 11	40	37	350	45	27	50	43	DN1103C	6SP045	6KS16	3L1209	LH2.5
	H50U PDUNL/R 11	50	47	350	50	32	60	53	DN1103C	6SP045	6KS16	3L1209	LH2.5
	H32T PDUNL/R 15	32	30	300	55	22	40	39	DN1503SW	7SP066	8KS21	4L1514	LH3
	H40U PDUNL/R 15	40	37	350	60	27	50	46	DN1503SW	7SP066	8KS21	4L1514	LH3
	H50U PDUNL/R 15	45	47	350	60	32	60	56	DN1503SW	7SP066	8KS21	4L1514	LH3

PDZNL/R



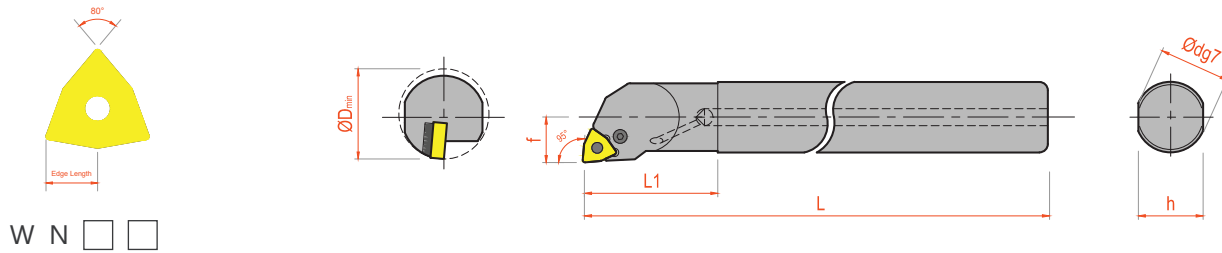
Item	Code	Dimension (mm)							Spare				
		H	B	L	L1	F	Bore	Head	Shim	Shim Pin	Insert Screw	Lever	Hex
S-PDZN-	S25S PDZNL/R 11	25	23	250	55	18	32	29.5	DN1103C	6SP045	6KS16	3L1209	LH2.5
	S32T PDZNL/R 11	32	30	300	60	22	40	38	DN1103C	6SP045	6KS16	3L1209	LH2.5
	S40U PDZNL/R 11	40	37	350	65	27	50	43	DN1103C	6SP045	6KS16	3L1209	LH2.5
	S50U PDZNL/R 11	50	47	350	65	32	60	53	DN1103C	6SP045	6KS16	3L1209	LH2.5
	S32T PDZNL/R 15	32	30	300	60	22	40	38	DN1503SW	7SP066	8KS21	4L1514	LH3
	S40U PDZNL/R 15	40	37	350	65	27	50	43	DN1503SW	7SP066	8KS21	4L1514	LH3
	S50U PDZNL/R 15	50	47	350	65	32	60	53	DN1503SW	7SP066	8KS21	4L1514	LH3
A-PDZN-	A25S PDZNL/R 11	25	23	250	55	18	32	29.5	DN1103C	6SP045	6KS16	3L1209	LH2.5
	A32T PDZNL/R 11	32	30	300	60	22	40	38	DN1103C	6SP045	6KS16	3L1209	LH2.5
	A40U PDZNL/R 11	40	37	350	65	27	50	43	DN1103C	6SP045	6KS16	3L1209	LH2.5
	A50U PDZNL/R 11	50	47	350	65	32	60	53	DN1103C	6SP045	6KS16	3L1209	LH2.5
	A32T PDZNL/R 15	32	30	300	60	22	40	38	DN1503SW	7SP066	8KS21	4L1514	LH3
	A40U PDZNL/R 15	40	37	350	65	27	50	43	DN1503SW	7SP066	8KS21	4L1514	LH3
	A50U PDZNL/R 15	50	47	350	65	32	60	53	DN1503SW	7SP066	8KS21	4L1514	LH3
H-PDZN-	H25S PDZNL/R 11	25	23	250	55	18	32	29.5	DN1103C	6SP045	6KS16	3L1209	LH2.5
	H32T PDZNL/R 11	32	30	300	60	22	40	38	DN1103C	6SP045	6KS16	3L1209	LH2.5
	H40U PDZNL/R 11	40	37	350	65	27	50	43	DN1103C	6SP045	6KS16	3L1209	LH2.5
	H50U PDZNL/R 11	50	47	350	65	32	60	53	DN1103C	6SP045	6KS16	3L1209	LH2.5
	H32T PDZNL/R 15	32	30	300	60	22	40	38	DN1503SW	7SP066	8KS21	4L1514	LH3
	H40U PDZNL/R 15	40	37	350	65	27	50	43	DN1503SW	7SP066	8KS21	4L1514	LH3
	H50U PDZNL/R 15	50	47	350	65	32	60	53	DN1503SW	7SP066	8KS21	4L1514	LH3

PSKNL/R



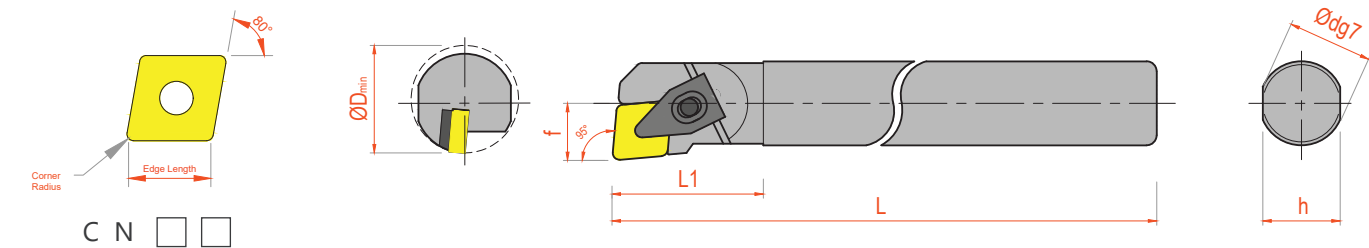
Item	Code	Dimension (mm)							Spare				
		H	B	L	L1	F	Bore	Head	Shim	Shim Pin	Insert Screw	Lever	Hex
S-PSKN-	S25S PSKNL/R 12	25	23	250	40	16.5	32	28	SN1203SW	7SP066	8KS21	4L1213	LH3
	S32T PSKNL/R 12	32	30	300	40	20.5	40	34.5	SN1203SW	7SP066	8KS21	4L1213	LH3
	S40U PSKNL/R 12	40	37	350	45	45	50	43	SN1203SW	7SP066	8KS21	4L1213	LH3
	S50U PSKNL/R 12	50	47	350	45	33	63	57	SN1203SW	7SP066	8KS21	4L1213	LH3
A-PSKN-	A25S PSKNL/R 12	25	23	250	40	16.5	32	28	SN1203SW	7SP066	8KS21	4L1213	LH3
	A32T PSKNL/R 12	32	30	300	40	20.5	40	34.5	SN1203SW	7SP066	8KS21	4L1213	LH3
	A40U PSKNL/R 12	40	37	350	45	45	50	43	SN1203SW	7SP066	8KS21	4L1213	LH3
	A50U PSKNL/R 12	50	47	350	45	33	63	57	SN1203SW	7SP066	8KS21	4L1213	LH3
C-PSKN-	H25S PSKNL/R 12	25	23	250	40	16.5	32	28	SN1203SW	7SP066	8KS21	4L1213	LH3
	H32T PSKNL/R 12	32	30	300	40	20.5	40	34.5	SN1203SW	7SP066	8KS21	4L1213	LH3
	H40U PSKNL/R 12	40	37	350	45	45	50	43	SN1203SW	7SP066	8KS21	4L1213	LH3
	H50U PSKNL/R 12	50	47	350	45	33	63	57	SN1203SW	7SP066	8KS21	4L1213	LH3

PWLNL/R



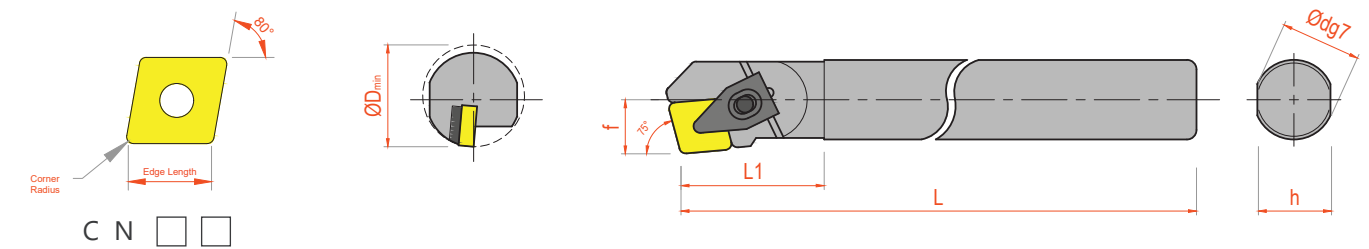
Item	Code	Dimension (mm)							Spare				
		H	B	L	L1	F	Bore	Head	Shim	Shim Pin	Insert Screw	Lever	Hex
S-PWLN-	S16Q PWLNL/R 06	16	15	180	30	11	19.5	19	-	-	6KS16	3L1209	LH2.5
	S20R PWLNL/R 06	20	18	200	35	11.75	23.5	22.5	-	-	6KS16	3L1209	LH2.5
	S16Q PWLNL/R 06T3	16	15	180	30	11	19.5	19	-	-	6KS16	3L1209	LH2.5
	S20R PWLNL/R 06T3	20	18	200	35	11.75	23.5	22.5	-	-	6KS16	3L1209	LH2.5
	S25S PWLNL/R 06	25	23	250	40	15.5	29	28	WN0603C	6SP045	6KS16	3L1209	LH2.5
	S32T PWLNL/R 06	32	30	300	45	19	36	35	WN0603C	6SP045	6KS16	3L1209	LH2.5
	S25S PWLNL/R 06T3	25	23	250	40	15.5	29	28	WN0603C	6SP045	6KS16	3L1209	LH2.5
	S32T PWLNL/R 06T3	32	30	300	45	19	36	35	WN0603C	6SP045	6KS16	3L1209	LH2.5
	S25S PWLNL/R 08	25	23	250	40	15.5	29	28	WN0803C	7SP066	8KS21	4L1213	LH3
	S32T PWLNL/R 08	32	30	300	45	19	36	35	WN0803C	7SP066	8KS21	4L1213	LH3
A-PWLN-	A16Q PWLNL/R 06	16	15	180	30	11	19.5	19	-	-	6KS16	3L1209	LH2.5
	A20R PWLNL/R 06	20	18	200	35	11.75	23.5	22.5	-	-	6KS16	3L1209	LH2.5
	A16Q PWLNL/R 06T3	16	15	180	30	11	19.5	19	-	-	6KS16	3L1209	LH2.5
	A20R PWLNL/R 06T3	20	18	200	35	11.75	23.5	22.5	-	-	6KS16	3L1209	LH2.5
	A25S PWLNL/R 06	25	23	250	40	15.5	29	28	WN0603C	6SP045	6KS16	3L1209	LH2.5
	A32T PWLNL/R 06	32	30	300	45	19	36	35	WN0603C	6SP045	6KS16	3L1209	LH2.5
	A25S PWLNL/R 06T3	25	23	250	40	15.5	29	28	WN0603C	6SP045	6KS16	3L1209	LH2.5
	A32T PWLNL/R 06T3	32	30	300	45	19	36	35	WN0603C	6SP045	6KS16	3L1209	LH2.5
	A25S PWLNL/R 08	25	23	250	40	15.5	29	28	WN0803C	7SP066	8KS21	4L1213	LH3
	A32T PWLNL/R 08	32	30	300	45	19	36	35	WN0803C	7SP066	8KS21	4L1213	LH3
H-PWLN-	H16Q PWLNL/R 06	16	15	180	30	11	19.5	19	-	-	6KS16	3L1209	LH2.5
	H20R PWLNL/R 06	20	18	200	35	11.75	23.5	22.5	-	-	6KS16	3L1209	LH2.5
	H16Q PWLNL/R 06T3	16	15	180	30	11	19.5	19	-	-	6KS16	3L1209	LH2.5
	H20R PWLNL/R 06T3	20	18	200	35	11.75	23.5	22.5	-	-	6KS16	3L1209	LH2.5
	H25S PWLNL/R 06	25	23	250	40	15.5	29	28	WN0603C	6SP045	6KS16	3L1209	LH2.5
	H32T PWLNL/R 06	32	30	300	45	19	36	35	WN0603C	6SP045	6KS16	3L1209	LH2.5
	H25S PWLNL/R 06T3	25	23	250	40	15.5	29	28	WN0603C	6SP045	6KS16	3L1209	LH2.5
	H32T PWLNL/R 06T3	32	30	300	45	19	36	35	WN0603C	6SP045	6KS16	3L1209	LH2.5
	H25S PWLNL/R 08	25	23	250	40	15.5	29	28	WN0803C	7SP066	8KS21	4L1213	LH3
	H32T PWLNL/R 08	32	30	300	45	19	36	35	WN0803C	7SP066	8KS21	4L1213	LH3

DCLNL/R



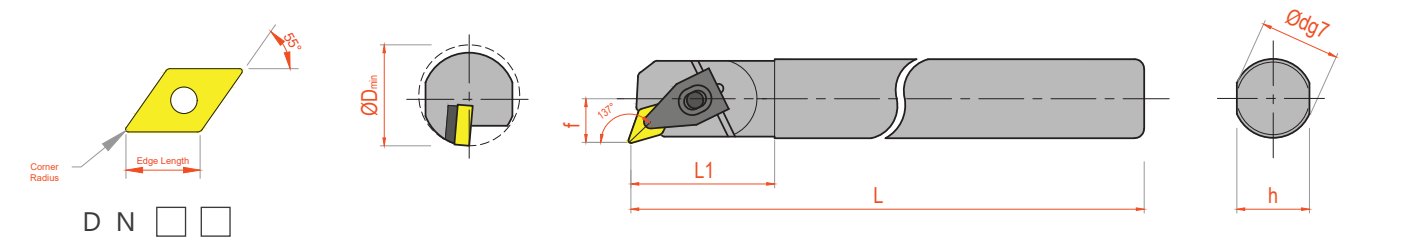
Item	Code	Dimension (mm)					Daimeter		Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
		H	B	L	L1	F	Bore	Head						
S-DCLN-	S25S DCLNL/R 12 AS3	25	23	250	45	15.90	32	27.5	CN1203C	4AT610	DC2640	8T521	8SG512	H3
	S32T DCLNL/R 12 AS4	32	30	300	50	18.87	36	33.5	CN1204C	4AT609	DC2640	8T521	8SG512	H3
	S40U DCLNL/R 12 AS4	40	37	350	60	23.8	45	42.5	CN1204C	4AT609	DC2640	8T521	8SG512	H3
	S50U DCLNL/R 12 AS4	50	47	350	60	28.8	55	52.5	CN1204C	4AT609	DC2640	8T521	8SG512	H3
H-DCLN-	H25S DCLNL/R 12 AS3	25	23	250	45	15.90	32	27.5	CN1203C	4AT610	DC2640	8T521	8SG512	H3
	H32T DCLNL/R 12 AS4	32	30	300	50	18.87	36	33.5	CN1204C	4AT609	DC2640	8T521	8SG512	H3
	H40U DCLNL/R 12 AS4	40	37	350	60	23.8	45	42.5	CN1204C	4AT609	DC2640	8T521	8SG512	H3
	H50U DCLNL/R 12 AS4	50	47	350	60	28.8	55	52.5	CN1204C	4AT609	DC2640	8T521	8SG512	H3

DCKNL/R



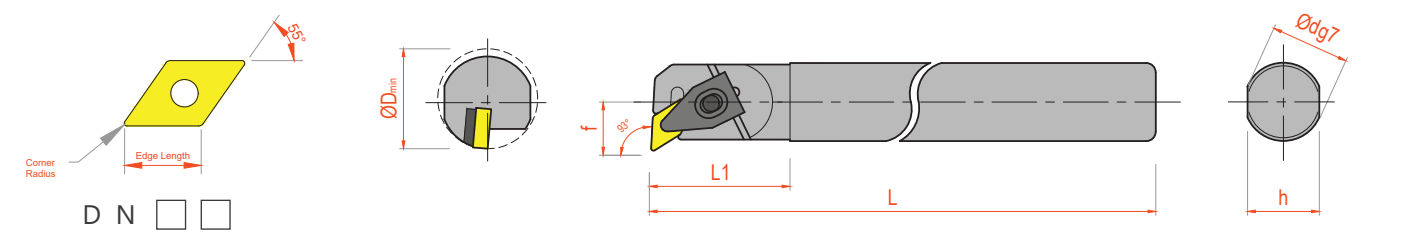
Item	Code	Dimension (mm)					Daimeter		Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
		H	B	L	L1	F	Bore	Head						
S-DCKN-	S25S DCKNL/R 12 AS3	25	23	250	45	15.90	32	27.5	CN1203C	4AT610	DC2640	8T521	8SG512	H3
	S32T DCKNL/R 12 AS4	32	30	300	50	18.87	36	33.5	CN1204C	4AT609	DC2640	8T521	8SG512	H3
	S40U DCKNL/R 12 AS4	40	37	350	60	23.8	45	42.5	CN1204C	4AT609	DC2640	8T521	8SG512	H3
	S50U DCKNL/R 12 AS4	50	47	350	60	28.8	55	52.5	CN1204C	4AT609	DC2640	8T521	8SG512	H3
H-DCKN-	H25S DCKNL/R 12 AS3	25	23	250	45	15.90	32	27.5	CN1203C	4AT610	DC2640	8T521	8SG512	H3
	H32T DCKNL/R 12 AS4	32	30	300	50	18.87	36	33.5	CN1204C	4AT609	DC2640	8T521	8SG512	H3
	H40U DCKNL/R 12 AS4	40	37	350	60	23.8	45	42.5	CN1204C	4AT609	DC2640	8T521	8SG512	H3
	H50U DCKNL/R 12 AS4	50	47	350	60	28.8	55	52.5	CN1204C	4AT609	DC2640	8T521	8SG512	H3

DDQNL/R



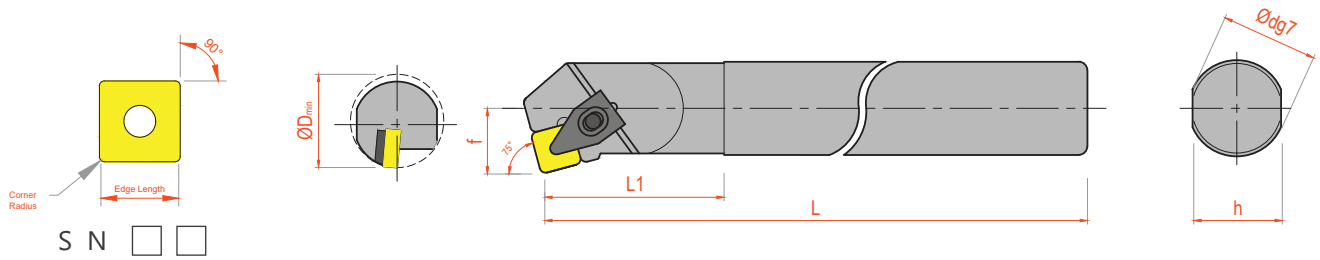
Item	Code	Dimension (mm)					Daimeter		Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
		H	B	L	L1	F	Bore	Head						
S-DDQN-	S25S DDQNL/R 11 AS3	25	23	250	50	17	32	28	DN1103C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	S32T DDQNL/R 11 AS3	32	30	300	50	22	40	34	DN1103C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	S32T DDQNL/R 15 AS4	32	30	300	50	22	40	34	DN1504C	4AT609	DC2640	8T521	8SG512	H3
	S40U DDQNL/R 15 AS4	40	37	350	60	25	50	44	DN1504C	4AT609	DC2640	8T521	8SG512	H3
	S50U DDQNL/R 15 AS4	50	47	350	60	30	63	56	DN1504C	4AT609	DC2640	8T521	8SG512	H3
H-DDQN-	H25S DDQNL/R 11 AS3	25	23	250	50	17	32	28	DN1103C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	H32T DDQNL/R 11 AS3	32	30	300	50	22	40	34	DN1103C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	H32T DDQNL/R 15 AS4	32	30	300	50	22	40	34	DN1504C	4AT609	DC2640	8T521	8SG512	H3
	H40U DDQNL/R 15 AS4	40	37	350	60	25	50	44	DN1504C	4AT609	DC2640	8T521	8SG512	H3
	H50U DDQNL/R 15 AS4	50	47	350	60	30	63	56	DN1504C	4AT609	DC2640	8T521	8SG512	H3

DDUNL/R



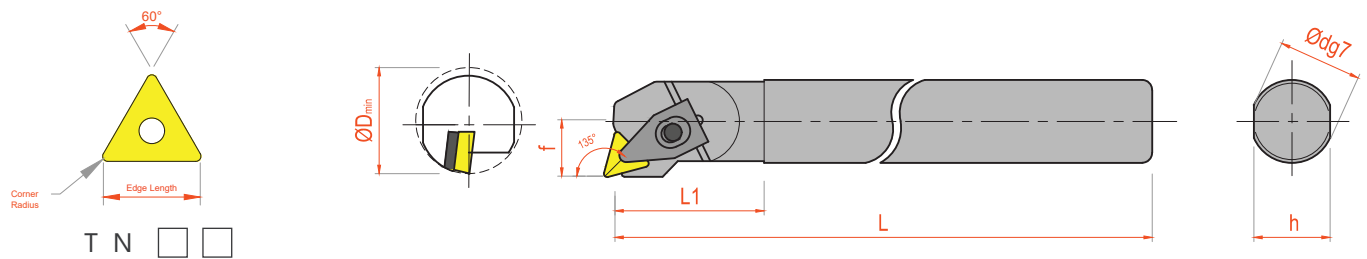
Item	Code	Dimension (mm)					Daimeter		Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
		H	B	L	L1	F	Bore	Head						
S-DDUN-	S25S DDUNL/R 11 AS3	25	23	250	50	17	32	28	DN1103C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	S32T DDUNL/R 11 AS3	32	30	300	50	22	40	34	DN1103C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	S32T DDUNL/R 15 AS4	32	30	300	50	22	40	34	DN1504C	4AT609	DC2640	8T521	8SG512	H3
	S40U DDUNL/R 15 AS4	40	37	350	60	25	50	44	DN1504C	4AT609	DC2640	8T521	8SG512	H3
	S50U DDUNL/R 15 AS4	50	47	350	60	30	63	56	DN1504C	4AT609	DC2640	8T521	8SG512	H3
H-DDUN-	H25S DDUNL/R 11 AS3	25	23	250	50	17	32	28	DN1103C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	H32T DDUNL/R 11 AS3	32	30	300	50	22	40	34	DN1103C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	H32T DDUNL/R 15 AS4	32	30	300	50	22	40	34	DN1504C	4AT609	DC2640	8T521	8SG512	H3
	H40U DDUNL/R 15 AS4	40	37	350	60	25	50	44	DN1504C	4AT609	DC2640	8T521	8SG512	H3
	H50U DDUNL/R 15 AS4	50	47	350	60	30	63	56	DN1504C	4AT609	DC2640	8T521	8SG512	H3

DSKNL/R



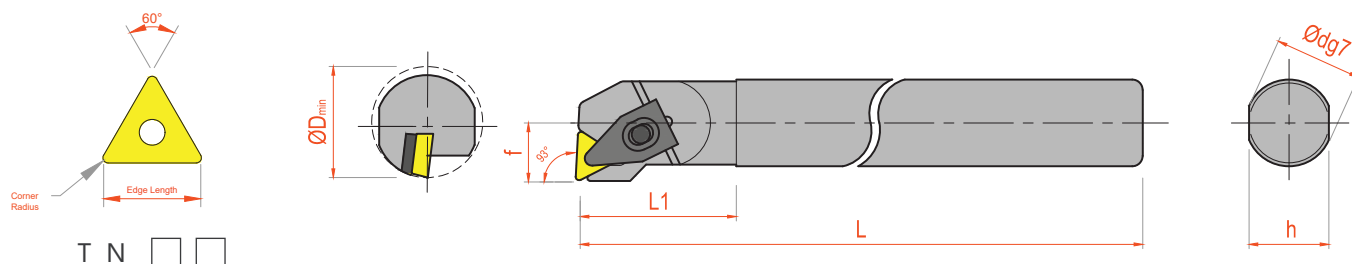
Item	Code	Dimension (mm)					Diameter		Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
		H	B	L	L1	F	Bore	Head						
S-DSKN-	S25S DSKNL/R 12 AS3	25	23	250	50	15.90	32	27.5	SN1203C	4AT610	DC2640	8T521	8SG512	H3
	S32T DSKNL/R 12 AS4	32	30	300	50	18.87	36	33.5	SN1204C	4AT609	DC2640	8T521	8SG512	H3
	S40U DSKNL/R 12 AS4	40	37	350	60	23.8	45	42.5	SN1204C	4AT609	DC2640	8T521	8SG512	H3
	S50U DSKNL/R 12 AS4	50	47	350	60	28.8	55	52.5	SN1204C	4AT609	DC2640	8T521	8SG512	H3
H-DSKN-	H25S DSKNL/R 12 AS3	25	23	250	50	15.90	32	27.5	SN1203C	4AT610	DC2640	8T521	8SG512	H3
	H32T DSKNL/R 12 AS4	32	30	300	50	18.87	36	33.5	SN1204C	4AT609	DC2640	8T521	8SG512	H3
	H40U DSKNL/R 12 AS4	40	37	350	60	23.8	45	42.5	SN1204C	4AT609	DC2640	8T521	8SG512	H3
	H50U DSKNL/R 12 AS4	50	47	350	60	28.8	55	52.5	SN1204C	4AT609	DC2640	8T521	8SG512	H3

DTQNL/R



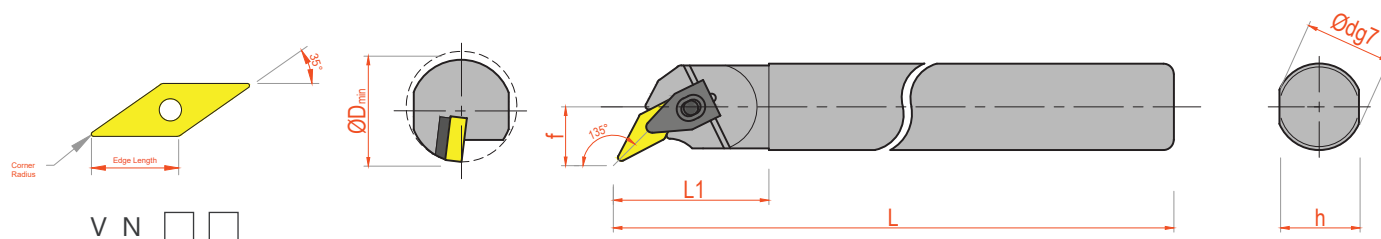
Item	Code	Dimension (mm)					Diameter		Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
		H	B	L	L1	F	Bore	Head						
S-DTQN-	S25S DTQNL/R 16 AS3	25	23	250	50	15.90	29	27.5	TN1603C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	S32T DTQNL/R 16 AS3	32	30	300	50	18.87	36	33.5	TN1603C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	S40U DTQNL/R 16 AS3	40	37	350	60	23.8	45	42.5	TN1603C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	S50U DTQNL/R 16 AS3	50	47	350	60	28.8	55	52.5	TN1603C	4AT510	DC2228	8T521	8SG512	H2.5/H3
H-DTQN-	H25S DTQNL/R 16 AS3	25	23	250	50	15.90	29	27.5	TN1603C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	H32T DTQNL/R 16 AS3	32	30	300	50	18.87	36	33.5	TN1603C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	H40U DTQNL/R 16 AS3	40	37	350	60	23.8	45	42.5	TN1603C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	H50U DTQNL/R 16 AS3	50	47	350	60	28.8	55	52.5	TN1603C	4AT510	DC2228	8T521	8SG512	H2.5/H3

DTUNL/R



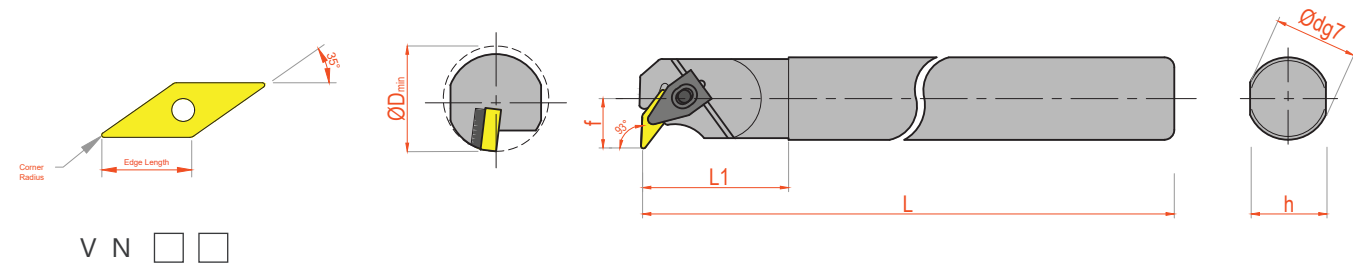
Item	Code	Dimension (mm)					Diameter		Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
		H	B	L	L1	F	Bore	Head						
S-DTUN-	S25S DTUNL/R 16 AS3	25	23	250	50	15.90	29	27.5	TN1603C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	S32T DTUNL/R 16 AS3	32	30	300	50	18.87	36	33.5	TN1603C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	S40U DTUNL/R 16 AS3	40	37	350	60	23.8	45	42.5	TN1603C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	S50U DTUNL/R 16 AS3	50	47	350	60	28.8	55	52.5	TN1603C	4AT510	DC2228	8T521	8SG512	H2.5/H3
H-DTUN-	H25S DTUNL/R 16 AS3	25	23	250	50	15.90	29	27.5	TN1603C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	H32T DTUNL/R 16 AS3	32	30	300	50	18.87	36	33.5	TN1603C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	H40U DTUNL/R 16 AS3	40	37	350	60	23.8	45	42.5	TN1603C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	H50U DTUNL/R 16 AS3	50	47	350	60	28.8	55	52.5	TN1603C	4AT510	DC2228	8T521	8SG512	H2.5/H3

DVQNL/R



Item	Code	Dimension (mm)					Diameter		Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
		H	B	L	L1	F	Bore	Head						
S-DVQN-	S25S DVQNL/R 12	25	23	250	50	17	32	28	-	-	DC3128	8T521	8SG512	H3
	S32T DVQNL/R 12	32	30	300	50	22	40	34	-	-	DC3128	8T521	8SG512	H3
	S25S DVQNL/R 16 AS3	25	23	250	50	17	32	31	VN1603C	4AT510	DC3128	8T521	8SG512	H2.5/H3
	S32T DVQNL/R 16 AS3	32	30	300	50	22	40	34	VN1603C	4AT510	DC3128	8T521	8SG512	H2.5/H3
	S40U DVQNL/R 16 AS3	40	37	350	60	25	50	44	VN1603C	4AT510	DC3128	8T521	8SG512	H2.5/H3
	S50U DVQNL/R 16 AS3	50	47	350	60	30	63	56	VN1603C	4AT510	DC3128	8T521	8SG512	H2.5/H3
H-DVQN-	H25S DVQNL/R 12	25	23	250	50	17	32	28	-	-	DC3128	8T521	8SG512	H3
	H32T DVQNL/R 12	32	30	300	50	22	40	34	-	-	DC3128	8T521	8SG512	H3
	H25S DVQNL/R 16 AS3	25	23	250	50	17	32	31	VN1603C	4AT510	DC3128	8T521	8SG512	H2.5/H3
	H32T DVQNL/R 16 AS3	32	30	300	50	22	40	34	VN1603C	4AT510	DC3128	8T521	8SG512	H2.5/H3
	H40U DVQNL/R 16 AS3	40	37	350	60	25	50	44	VN1603C	4AT510	DC3128	8T521	8SG512	H2.5/H3
	H50U DVQNL/R 16 AS3	50	47	350	60	30	63	56	VN1603C	4AT510	DC3128	8T521	8SG512	H2.5/H3

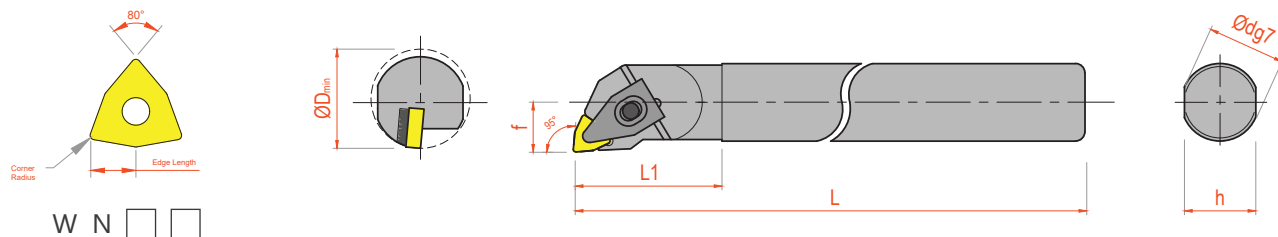
DVUNL/R



V N ☐ ☐

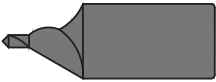
Item	Code	Dimension (mm)					Diameter		Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
		H	B	L	L1	F	Bore	Head						
S-DVUN-	S25S DVUNL/R 12	25	23	250	50	17	32	30	-	-	DC3128	8T521	8SG512	H3
	S32T DVUNL/R 12	32	30	300	50	22	40	34	-	-	DC3128	8T521	8SG512	H3
	S32T DVUNL/R 16 AS3	32	30	300	50	22	40	34	VN1603C	4AT510	DC3128	8T521	8SG512	H2.5/H3
	S40U DVUNL/R 16 AS3	40	37	350	60	25	50	44	VN1603C	4AT510	DC3128	8T521	8SG512	H2.5/H3
	S50U DVUNL/R 16 AS3	50	47	350	60	30	63	56	VN1603C	4AT510	DC3128	8T521	8SG512	H2.5/H3
H-DVUN-	H25S DVUNL/R 12	25	23	250	50	17	32	30	-	-	DC3128	8T521	8SG512	H3
	H32T DVUNL/R 12	32	30	300	50	22	40	34	-	-	DC3128	8T521	8SG512	H3
	H32T DVUNL/R 16 AS3	32	30	300	50	22	40	34	VN1603C	4AT510	DC3128	8T521	8SG512	H2.5/H3
	H40U DVUNL/R 16 AS3	40	37	350	60	25	50	44	VN1603C	4AT510	DC3128	8T521	8SG512	H2.5/H3
	H50U DVUNL/R 16 AS3	50	47	350	60	30	63	56	VN1603C	4AT510	DC3128	8T521	8SG512	H2.5/H3

DWLNL/R

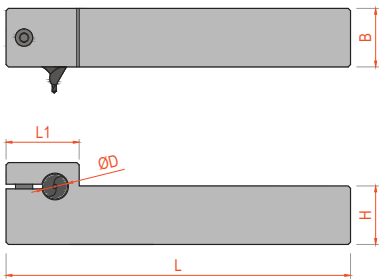


Item	Code	Dimension (mm)					Diameter		Shim	Shim Screw	Clamp	Clamp Screw	Spring	Key
		H	B	L	L1	F	Bore	Head						
S-DWLN-	S25S DWLNL/R 06 AS3	25	23	250	60	15.90	29	27.5	WN0603C	4AT510	DC2228	8T521	8SG512	H2.5 & H3
	S32T DWLNL/R 06 AS4	32	30	300	65	18.87	36	33.5	WN0604C	4AT510	DC2228	8T521	8SG512	H2.5 & H3
	S40U DWLNL/R 06 AS4	40	37	350	65	23.5	45	42.5	WN0604C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	S50U DWLNL/R 06 AS4	50	47	350	65	28.8	55	52.5	WN0604C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	S25S DWLNL/R 06T3 AS3	25	23	250	60	15.90	29	27.5	WN0603C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	S32T DWLNL/R 06T3 AS4	32	30	300	65	18.87	36	33.5	WN0604C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	S40U DWLNL/R 06T3 AS4	40	37	350	65	23.5	45	42.5	WN0604C	4AT510	DC2228	8T521	8SG512	H2.5 & H3
	S50U DWLNL/R 06T3 AS4	50	47	350	65	28.8	55	52.5	WN0604C	4AT510	DC2228	8T521	8SG512	H2.5 & H3
	S25S DWLNL/R 08 AS3	25	23	250	60	15.90	32	28	WN-0803C	4AT510	DC2640	8T521	8SG512	H3
	S32T DWLNL/R 08 AS4	32	30	300	65	18.87	36	33.5	WN0804C	4AT609	DC2640	8T521	8SG512	H3
	S40U DWLNL/R 08 AS4	40	37	350	65	23.5	45	42.5	WN0804C	4AT609	DC2640	8T521	8SG512	H3
	S50U DWLNL/R 08 AS4	50	47	350	65	28.8	55	52.5	WN0804C	4AT609	DC2640	8T521	8SG512	H3
H-DWLN-	H25S DWLNL/R 06 AS3	25	23	250	60	15.90	29	27.5	WN0603C	4AT510	DC2228	8T521	8SG512	H2.5 & H3
	H32T DWLNL/R 06 AS4	32	30	300	65	18.87	36	33.5	WN0604C	4AT510	DC2228	8T521	8SG512	H2.5 & H3
	H40U DWLNL/R 06 AS4	40	37	350	65	23.5	45	42.5	WN0604C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	H50U DWLNL/R 06 AS4	50	47	350	65	28.8	55	52.5	WN0604C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	H25S DWLNL/R 06T3 AS3	25	23	250	60	15.90	29	27.5	WN0603C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	H32T DWLNL/R 06T3 AS4	32	30	300	65	18.87	36	33.5	WN0604C	4AT510	DC2228	8T521	8SG512	H2.5/H3
	H40U DWLNL/R 06T3 AS4	40	37	350	65	23.5	45	42.5	WN0604C	4AT510	DC2228	8T521	8SG512	H2.5 & H3
	H50U DWLNL/R 06T3 AS4	50	47	350	65	28.8	55	52.5	WN0604C	4AT510	DC2228	8T521	8SG512	H2.5 & H3
	H25S DWLNL/R 08 AS3	25	23	250	60	15.90	32	28	WN0803C	4AT510	DC2640	8T521	8SG512	H3
	H32T DWLNL/R 08 AS4	32	30	300	65	18.87	36	33.5	WN0804C	4AT609	DC2640	8T521	8SG512	H3
	H40U DWLNL/R 08 AS4	40	37	350	65	23.5	45	42.5	WN0804C	4AT609	DC2640	8T521	8SG512	H3
	H50U DWLNL/R 08 AS4	50	47	350	65	28.8	55	52.5	WN0804C	4AT609	DC2640	8T521	8SG512	H3

SCDGN



C G ☐ ☐



Code	Dimension (mm)					Spare	
	H	B	L	L1	D	Screw	Torx Key
SCDGN 2020 K05	20	20	125	30	5	9T626	LH4
SCDGN 2020 K06	20	20	125	30	6	9T626	LH4
SCDGN 2020 K08	20	20	125	35	8	9T626	LH4
SCDGN 2020 K10	20	20	125	35	10	9T626	LH4
SCDGN 2525 M05	25	25	150	40	5	9T626	LH4
SCDGN 2525 M06	25	25	150	40	6	9T626	LH4
SCDGN 2525 M08	25	25	150	45	8	9T626	LH4
SCDGN 2525 M10	25	25	150	45	10	9T626	LH4

VAICOCUT

B





VAICOCUT



Longer Tmax and more consistent tool life lets you make more everyday.
Available in a variety of customizations.

Grooving Turning Tool Holders Designation System

2525

4

Shank Size

G

1

Operation Type

M

2

Tool Type

L

3

Hand of Tool

4K

5

Insert Width & Type

15

6

Tmax

S20M

4

Shank Size

G

1

Operation Type

K

2

Tool Type

L

3

Hand of Tool

2K

5

Insert Width & Type

08

6

Tmax


1

Operation Type

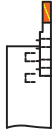
G	General Grooving & Parting
F	Face Grooving

2


Tool Type



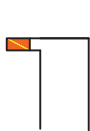
T




S



M




K



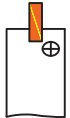
R

3

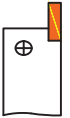
Hand of Tool



R (Right Hand)




L (Left Hand)




N (Neutral)

4

Shank Size



Sq.



Dia.

5

Insert Width & Type

G	General Grooving & Parting			
F	Face Grooving			
2 mm	3 mm	4 mm	5 mm	

6

Tmax

05	5 mm
06	6 mm
08	8 mm
10	10 mm
15	15 mm
20	20 mm
25	25 mm

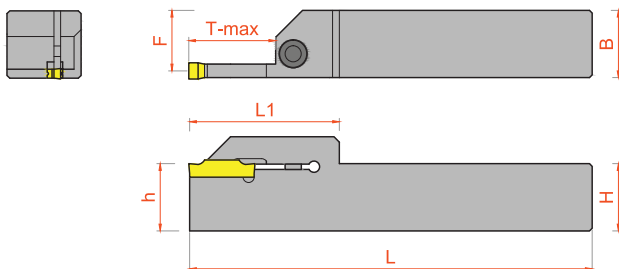
B64

VAICOCUT

GML/R



G D □ □

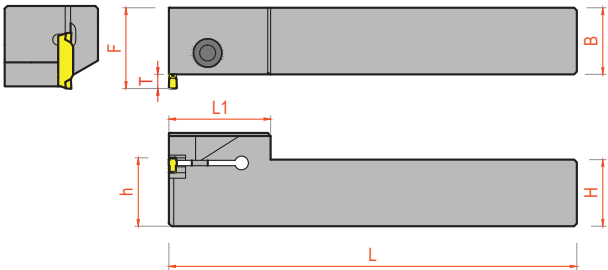


Item	Dimension (mm)							Spare	
	H	B	L	L1	F	Tmax	Insert Size	Insert Screw	Hex
GML/R 2020 2-06	20	20	125	30	19.1	6	2	9T626	LH4
GML/R 2020 2-10	20	20	125	30	19.1	10	2	9T626	LH4
GML/R 2020 2-15	20	20	125	35	19.1	15	2	9T626	LH4
GML/R 2020 3-10	20	20	125	32	18.8	10	3	9T626	LH4
GML/R 2020 3-15	20	20	125	35	18.8	15	3	9T626	LH4
GML/R 2020 3-20	20	20	125	40	18.8	20	3	9T626	LH4
GML/R 2020 3-25	20	20	125	45	18.8	25	3	9T626	LH4
GML/R 2020 4-10	20	20	125	32	18.5	10	4	9T626	LH4
GML/R 2020 4-15	20	20	125	35	18.5	15	4	9T626	LH4
GML/R 2020 4-20	20	20	125	40	18.5	20	4	9T626	LH4
GML/R 2020 4-25	20	20	125	45	18.5	25	4	9T626	LH4
GML/R 2020 5-10	20	20	125	35	18.1	10	5	9T626	LH4
GML/R 2020 5-15	20	20	125	40	18.1	15	5	9T626	LH4
GML/R 2020 5-20	20	20	125	45	18.1	20	5	9T626	LH4
*GML/R 2020 6T12	20	20	125	37	17.6	12	6	9T626	LH4
*GML/R 2020 6T20	20	20	125	40	17.6	20	6	9T626	LH4
GML/R 2525 2-06	25	25	150	30	24.1	6	2	9T626	LH4
GML/R 2525 2-10	25	25	150	30	24.1	10	2	9T626	LH4
GML/R 2525 2-15	25	25	150	35	24.1	15	2	9T626	LH4
GML/R 2525 3-10	25	25	150	30	23.8	10	3	9T626	LH4
GML/R 2525 3-15	25	25	150	35	23.8	15	3	9T626	LH4
GML/R 2525 3-20	25	25	150	40	23.8	20	3	9T626	LH4
GML/R 2525 3-25	25	25	150	45	23.8	25	3	9T626	LH4
GML/R 2525 4-10	25	25	150	30	23.5	10	4	9T626	LH4
GML/R 2525 4-15	25	25	150	35	23.5	15	4	9T626	LH4
GML/R 2525 4-20	25	25	150	40	23.5	20	4	9T626	LH4
GML/R 2525 4-25	25	25	150	45	23.5	25	4	9T626	LH4
GML/R 2525 5-10	25	25	150	30	23.1	10	5	9T626	LH4
GML/R 2525 5-15	25	25	150	35	23.1	15	5	9T626	LH4
GML/R 2525 5-20	25	25	150	40	23.1	20	5	9T626	LH4
GML/R 2525 5-25	25	25	150	45	23.1	25	5	9T626	LH4
*GML/R 2525 6T12	25	25	150	37	22.6	12	6	9T626	LH4
*GML/R 2525 6T20	25	25	150	40	22.6	20	6	9T626	LH4
*GML/R 2525 6T32	25	25	150	60	22.6	32	6	9T626	LH4

GKL/R

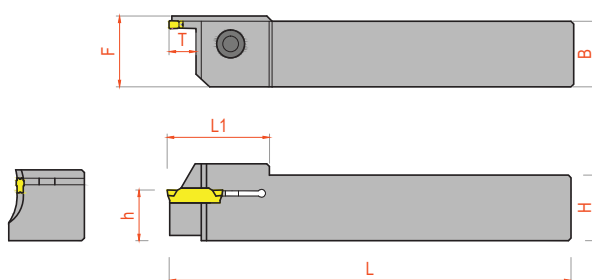


G D ☐ ☐



Item	Dimension (mm)							Spare	
	H	B	L	L1	F	Tmax	Insert Size	Insert Screw	Hex
GKL/R 2020 2-04	20	20	125	20	24	4	2	9T626	LH4
GKL/R 2020 3-05	20	20	125	20	25	5	3	9T626	LH4
GKL/R 2020 4-05	20	20	125	20	25	5	4	9T626	LH4
GKL/R 2020 5-07	20	20	125	25	27	7	5	9T626	LH4
*GKL/R 2020 6T07	20	20	125	25	27	7	6	9T626	LH4
GKL/R 2525 2-04	25	25	150	20	29	4	2	9T626	LH4
GKL/R 2525 3-05	25	25	150	20	30	5	3	9T626	LH4
GKL/R 2525 4-05	25	25	150	20	30	5	4	9T626	LH4
GKL/R 2525 5-07	25	25	150	20	32	7	5	9T626	LH4
*GKL/R 2525 6T07	25	25	150	25	32	7	6	9T626	LH4

FML/R

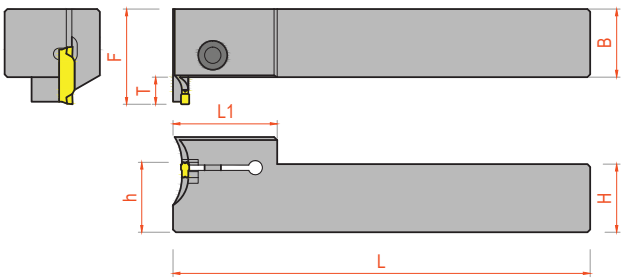
G D ☐ ☐

Item	Dimension (mm)									Spare	
	H	B	F	L	L1	Tmax	Ød	ØD	Insert Size	Insert Screw	Hex
FML/R 2525 3-10 24/35	25	25	24	150	40	10	24	35	3	9T626	LH4
FML/R 2525 3-10 29/40	25	25	24	150	40	10	29	40	3	9T626	LH4
FML/R 2525 3-10 34/50	25	25	24	150	40	10	34	50	3	9T626	LH4
FML/R 2525 3-15 44/70	25	25	24	150	40	15	44	70	3	9T626	LH4
FML/R 2525 3-15 64/100	25	25	24	150	40	15	64	100	3	9T626	LH4
FML/R 2525 4-10 22/36	25	25	23.6	150	40	10	22	36	3	9T626	LH4
FML/R 2525 4-10 34/50	25	25	23.6	150	40	10	34	50	4	9T626	LH4
FML/R 2525 4-20 28/42	25	25	23.6	150	45	20	28	42	4	9T626	LH4
FML/R 2525 4-20 42/70	25	25	23.6	150	45	20	42	70	4	9T626	LH4
FML/R 2525 4-20 62/120	25	25	23.6	150	45	20	62	120	4	9T626	LH4
FML/R 2525 4-20 112/200	25	25	23.6	150	45	20	112	200	4	9T626	LH4

FKL/R



G D ☐ ☐

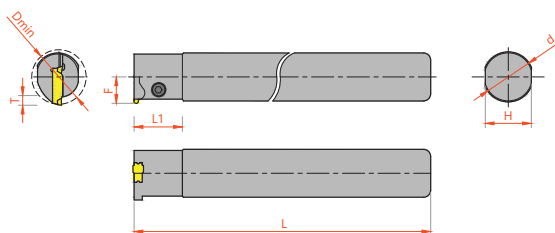


Item	Dimension (mm)									Spare	
	H	B	F	L	L1	Tmax	Ød	ØD	Insert Size	Insert Screw	Hex
FKL/R 2525 3-10 24/35	25	25	35	150	20	10	24	35	3	9T626	LH4
FKL/R 2525 3-10 29/40	25	25	34	150	20	10	29	40	3	9T626	LH4
FKL/R 2525 3-10 34/50	25	25	34	150	20	10	34	50	3	9T626	LH4
FKL/R 2525 3-15 44/60	25	25	40	150	20	15	44	60	3	9T626	LH4
FKL/R 2525 3-15 54/85	25	25	40	150	20	15	54	85	3	9T626	LH4
FKL/R 2525 4-15 22/40	25	25	40	150	25	15	22	40	4	9T626	LH4
FKL/R 2525 4-15 32/50	25	25	40	150	25	15	32	50	4	9T626	LH4
FKL/R 2525 4-15 42/60	25	25	40	150	25	15	42	60	4	9T626	LH4
FKL/R 2525 4-15 52/85	25	25	40	150	25	15	52	85	4	9T626	LH4
FKL/R 2525 5-20 50/80	25	25	45	150	30	20	50	80	5	9T626	LH4
FKL/R 2525 5-20 70/110	25	25	45	150	30	20	70	110	5	9T626	LH4
FKL/R 2525 5-20 100/150	25	25	45	150	30	20	100	150	5	9T626	LH4
FKL/R 2525 5-20 140/200	25	25	45	150	30	20	140	200	5	9T626	LH4
*FKL/R 2525 6T20 48/85	25	25	45	150	30	20	48	85	6	9T626	LH4
*FKL/R 2525 6T20 73/150	25	25	45	150	30	20	73	150	6	9T626	LH4
*FKL/R 2525 6T20 138/250	25	25	45	150	30	20	138	250	6	9T626	LH4

GKL/R



G D □ □

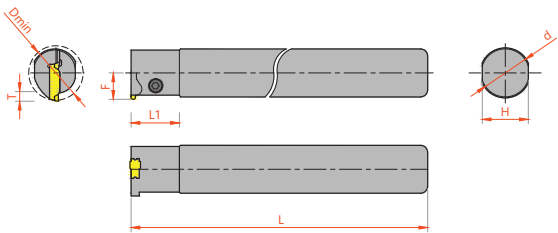


Item	Dimension (mm)						Spares	
	D	L	L1	F	Tmax	Insert Size	Insert Screw	Hex
S16K GKL/R 2-05	16	125	30	13	5	2	9T626	LH4
S16K GKL/R 2-08	16	125	30	16	8	2	9T626	LH4
S16K GKL/R 3-08	16	125	30	16	8	3	9T626	LH4
S20M GKL/R 2-05	20	150	40	15	5	2	9T626	LH4
S20M GKL/R 2-08	20	150	40	18	8	2	9T626	LH4
S20M GKL/R 3-05	20	150	40	15	5	3	9T626	LH4
S20M GKL/R 3-08	20	150	40	18	8	3	9T626	LH4
S20M GKL/R 4-05	20	150	40	15	5	4	9T626	LH4
S20M GKL/R 4-08	20	150	40	18	8	4	9T626	LH4
S25R GKL/R 2-05	25	200	40	17.5	5	2	9T626	LH4
S25R GKL/R 2-08	25	200	40	20.5	8	2	9T626	LH4
S25R GKL/R 3-05	25	200	40	17.5	5	3	9T626	LH4
S25R GKL/R 3-08	25	200	40	20.5	8	3	9T626	LH4
S25R GKL/R 4-05	25	200	40	17.5	5	4	9T626	LH4
S25R GKL/R 4-08	25	200	40	20.5	8	4	9T626	LH4
S32S GKL/R 3-05	32	250	45	21	5	3	9T626	LH4
S32S GKL/R 3-08	32	250	45	24	8	3	9T626	LH4
S32S GKL/R 3-10	32	250	45	26	10	3	9T626	LH4
S32S GKL/R 4-05	32	250	45	21	5	4	9T626	LH4
S32S GKL/R 4-08	32	250	45	24	8	4	9T626	LH4
S32S GKL/R 4-10	32	250	45	26	10	4	9T626	LH4
S32S GKL/R 5-05	32	250	45	21	5	5	9T626	LH4
S32S GKL/R 5-08	32	250	45	24	8	5	9T626	LH4
S32S GKL/R 5-10	32	250	45	26	10	5	9T626	LH4
*S32S GKL/R 6T05	32	250	45	21	5	6	9T626	LH4
*S32S GKL/R 6T08	32	250	45	24	8	6	9T626	LH4
*S32S GKL/R 6T10	32	250	45	26	10	6	9T626	LH4
S40T GKL/R 3-10	40	300	50	30	10	3	9T626	LH4
S40T GKL/R 3-12	40	300	50	32	12	3	9T626	LH4
S40T GKL/R 4-10	40	300	50	30	10	4	9T626	LH4
S40T GKL/R 4-12	40	300	50	32	12	4	9T626	LH4
S40T GKL/R 5-10	40	300	50	30	10	5	9T626	LH4
S40T GKL/R 5-12	40	300	50	32	12	5	9T626	LH4
*S40T GKL/R 6T10	40	300	50	30	10	6	9T626	LH4
*S40T GKL/R 6T12	40	300	50	12	32	6	9T626	LH4
S50U GKL/R 3-10	50	350	50	10	35	3	9T626	LH4
S50U GKL/R 3-12	50	350	50	12	37	3	9T626	LH4
S50U GKL/R 4-10	50	350	50	35	10	4	9T626	LH4
S50U GKL/R 4-12	50	350	50	37	12	4	9T626	LH4
S50U GKL/R 4-14	50	350	50	39	14	4	9T626	LH4
S50U GKL/R 5-10	50	350	50	35	10	5	9T626	LH4
S50U GKL/R 5-12	50	350	50	37	12	5	9T626	LH4

GKL/R



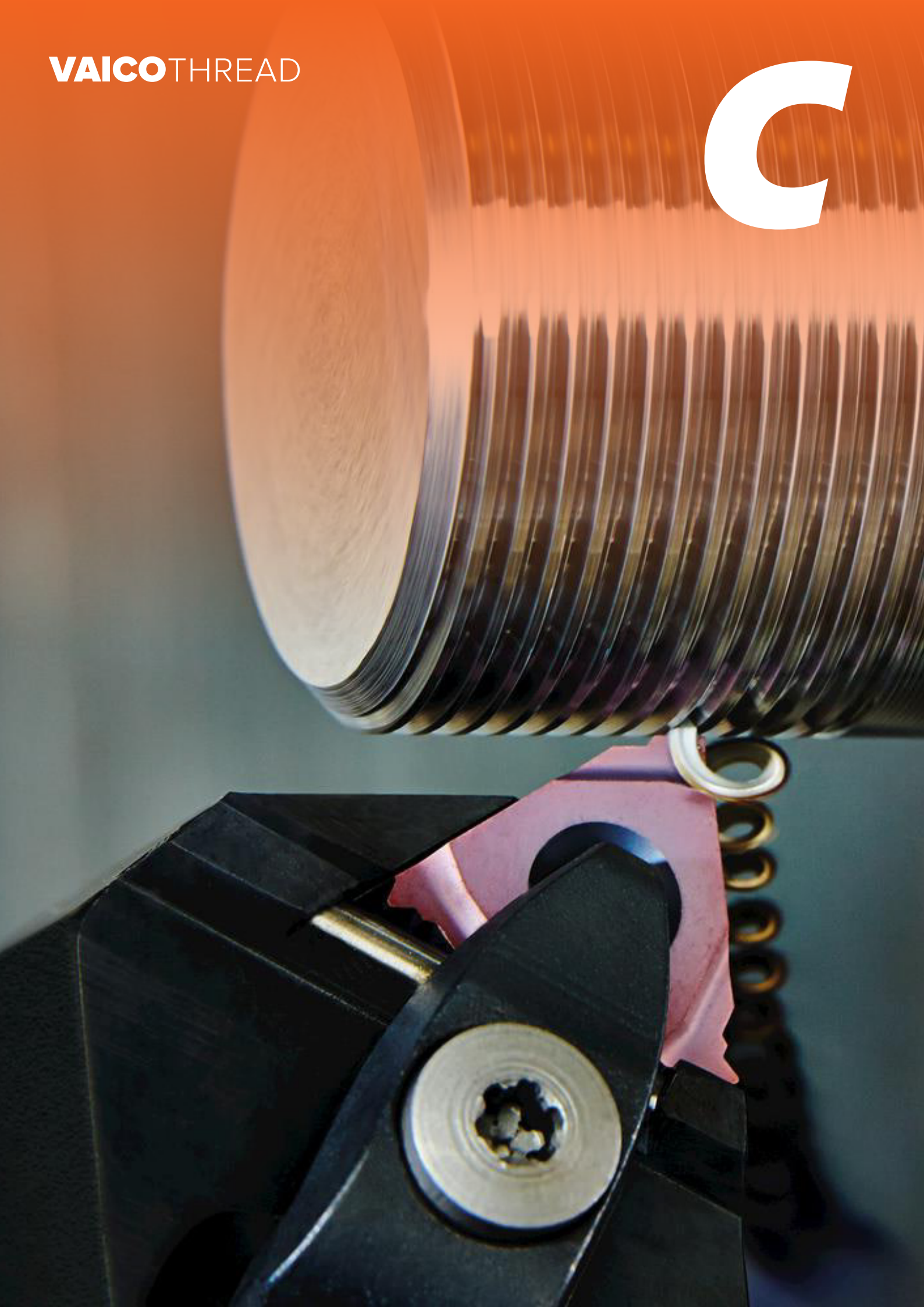
G D ☐ ☐



Item	Dimension (mm)						Spares	
	D	L	L1	F	Tmax	Insert Size	Insert Screw	Hex
S50U GKL/R 5-14	50	350	50	39	14	5	9T626	LH4
*S50U GKL/R 6T10	50	350	50	35	10	6	9T626	LH4
*S50U GKL/R 6T12	50	350	50	37	12	6	9T626	LH4
*S50U GKL/R 6T14	50	350	50	39	14	6	9T626	LH4

VAICOTHREAD

C





VAICOTHREAD_____



For productive and high quality threading we offer a selection of complex
threading tools suitable for both internal and external operations.

Threading Tool Designation System

S
1

E
2

R
3

25
4

25
5

M
6

16
7

Clamping systemHolder typeHand of insertHeight of shankWidth of shankOver all lengthInsert size (mm)

1 Clamping system

S: Screw Clamping


2 Holder type

E: External I: Internal

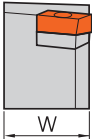
3 Hand of insert

R: Right hand L: Left hand
N: Neutral

4 Height of shank



5 Width of shank

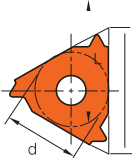


6 Over all length

A - 32	H - 100	Q - 180	X-Special Item
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 (mm)

11: d = 6.35
16: d = 9.525
12: d = 12.7
27: d = 15.875



S
1

I
2

R
3

25
4

T
5

16
6

Clamping systemHolder typeHand of toolBar DiaOver all lengthInsert size (mm)

1 Clamping system

S: Screw Clamping

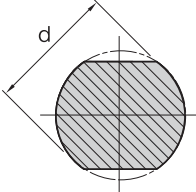
2 Holder type

E: External I: Internal

3 Hand of tool

R: Right hand L: Left hand
N: Neutral

4 Bar Dia

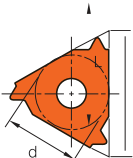


5 Over all length

A - 32	H - 100	Q - 180	X-Special Item
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	

6 Insert size (mm)

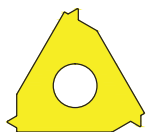
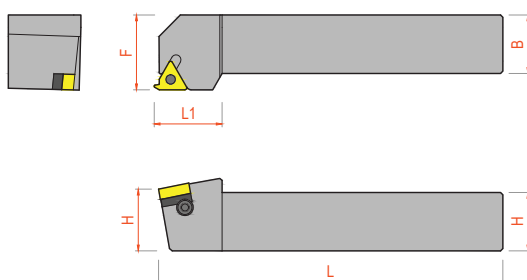
11: d = 6.35
16: d = 9.525
12: d = 12.7
27: d = 15.875



C74

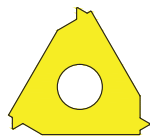
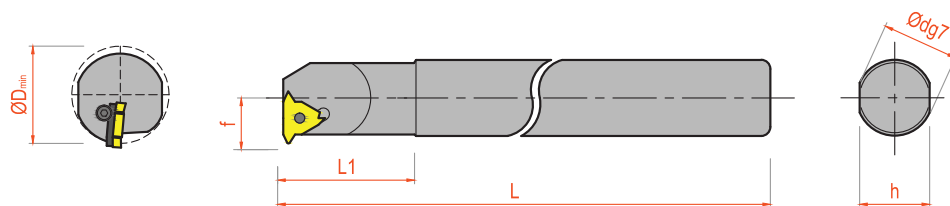
VAICO THREAD

SEL/R

ER/ L ☐ ☐

Item	Dimension (mm)								Spare			
	H	B	F	L	L1	Insert	Shim For Right	Shim For Left	Shim Screw	Insert Screw	Torx	Hex
SEL/R 0808 H11	8	8	11	100	15	11ER/L	-	-	-	3S308	LT10	-
SEL/R 1010 H11	10	10	12	100	15		-	-	-	3S308	LT10	-
SEL/R 1212 F16	12	12	16	80	20		-	-	-	5S3513	LT15	-
SEL/R 1616 H16	16	16	20	100	20	16ER/L	TNR1603SW	TNL1603SW	5ST309	5S3513	LT15	LH2.5
SEL/R 2020 K16	20	20	25	125	20		TNR1603SW	TNL1603SW	5ST309	5S3513	LT15	LH2.5
SEL/R 2525 M16	25	25	32	150	25		TNR1603SW	TNL1603SW	5ST309	5S3513	LT15	LH2.5
SEL/R 3232 P16	32	32	40	170	25		TNR1603SW	TNL1603SW	5ST309	5S3513	LT15	LH2.5
SEL/R 2525 M22	25	25	32	150	28	22ER/L	-	-	-	5S4514	LT15	-
SEL/R 3232 P22	32	32	40	170	28		-	-	-	5S4514	LT15	-

SIL/R

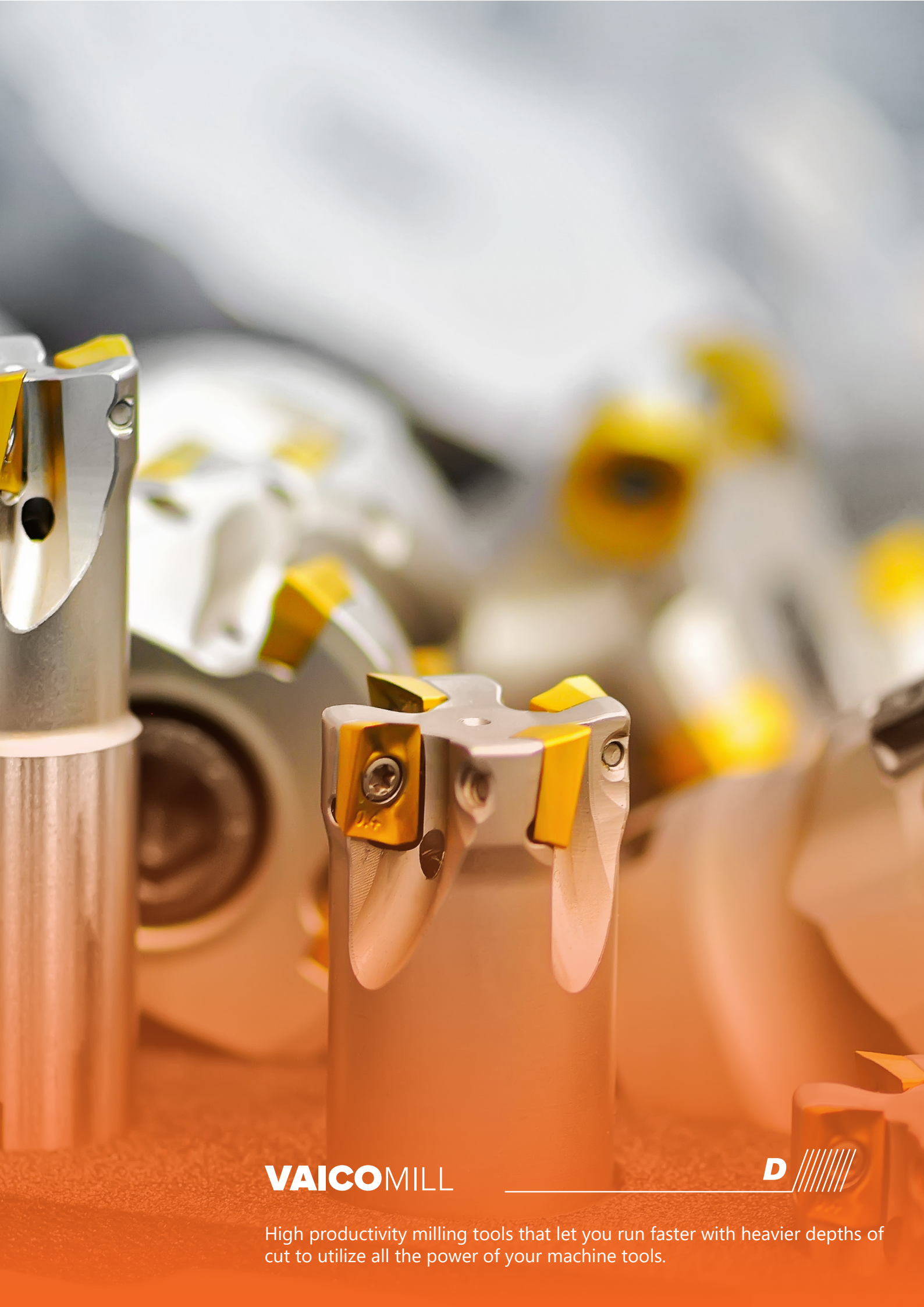
IR/ L ☐ ☐

Item	Dimension (mm)							Spare					
	d	d1	F	L	L1	Insert	ØDmin	Shim For Right	Shim For Left	Shim Screw	Insert Screw	Torx	Hex
SIL/R 10 K11	10	10	7.3	125	-	11IR/L	13	-	-	-	4S305	LT10	-
SIL/R 13 M11	20	13	8.9	150	32		16	-	-	-	4S305	LT10	-
SIL/R 13 M16	20	12.7	10.3	150	32	16IR/L	17	-	-	-	4S3506	LT15	-
SIL/R 16 Q16	16	16	11.3	180	40		20	-	-	-	4S3506	LT15	-
SIL/R 20 Q16	20	20	13.4	180	40		24	TNR1603SW	TNL1603SW	5ST309	5S3509	LT15	LH2.5
SIL/R 25 R16	25	24.5	16.1	200	45		29	TNR1603SW	TNL1603SW	5ST309	5S3511	LT15	LH2.5
SIL/R 32 S16	32	32	19.5	250	60		36	TNR1603SW	TNL1603SW	5ST309	5S3513	LT15	LH2.5
SIL/R 40 T16	40	40	23.8	300	60		44	TNR1603SW	TNL1603SW	5ST309	5S3513	LT15	LH2.5
SIL/R 50 U16	50	50	28.7	350	60		54	TNR1603SW	TNL1603SW	5ST309	5S3513	LT15	LH2.5
SIL/R 20 Q22	20	20	15.6	180	50	22IR/L	27	-	-	-	5S4511	LT15	-
SIL/R 25 R22	25	24.6	17.2	200	45		32	-	-	-	5S4511	LT15	-
SIL/R 32 S22	32	32	21.5	250	60		39	-	-	-	5S4514	LT15	-
SIL/R 40 T22	40	40	25.8	300	60		47	-	-	-	5S4514	LT15	-
SIL/R 50 U22	50	50	30.5	350	40		58	-	-	-	5S4514	LT15	-

VAICOMILL

D





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High productivity milling tools that let you run faster with heavier depths of cut to utilize all the power of your machine tools.

Milling Tool Designation System



▶ 1	Application Type
F	Face Milling
E	End/Shoulder Milling
H	Helical Milling
K	High Feed Milling
P	Profile Milling
T	Slot Milling

▶ 2	Lead Angle
As Per Actual	

▶ 5	Cutter Dia
16	016
20	020
25	025
32	032
40	040
50	050
52	052
63	063

▶ 9	Same Size
S	Same Size
As Per Actual	

▶ 3	Insert Type
AP	APMT
AX	AXMT
RD	RDET
RD	RDEW
SP	SPMT
SD	SDMT
SD	SDKT

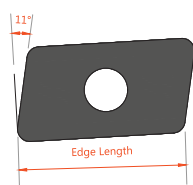
▶ 4	Cutting Edge Length
As Per Actual	

▶ 6	Number of Teeth
As Per Actual	

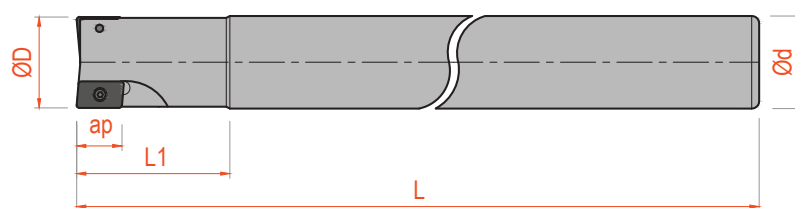
▶ 7	Over All Length
As Per Actual	

▶ 8	Coolant
N	No Through Coolant
C	With Through Coolant

E90AP11

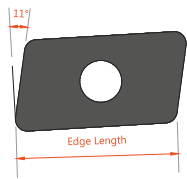


A P 1 1

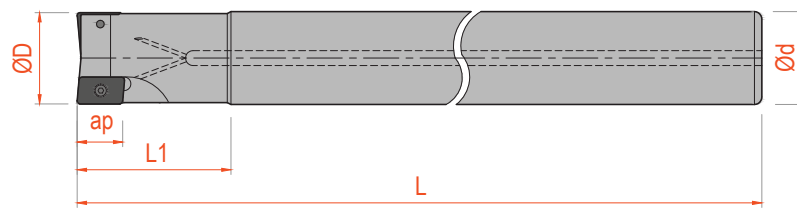


Item	Code	Dimension (mm)					Spare	
		ØD	Ød	L	L1	Z	Insert Screw	Torx Key
E90AP11-	E90AP110101080NS	10	10	80	30	1	3S2505	LT8
	E90AP110121080NS	12	12	80	30	1	3S2505	LT8
	E90AP110141080NS	14	14	80	30	1	3S2505	LT8
	E90AP110162100NS	16	16	100	32	2	3S2505	LT8
	E90AP110162150NS	16	16	150	32	2	3S2505	LT8
	E90AP110162200NS	16	16	200	32	2	3S2505	LT8
	E90AP110182100N16	18	16	100	32	2	3S2505	LT8
	E90AP110182150N16	18	16	150	32	2	3S2505	LT8
	E90AP110182200N16	18	16	200	32	2	3S2505	LT8
	E90AP110202100NS	20	20	100	32	2	3S2505	LT8
	E90AP110202150NS	20	20	150	32	2	3S2505	LT8
	E90AP110202200NS	20	20	200	32	2	3S2505	LT8
	E90AP110223100N20	22	20	100	32	3	3S2505	LT8
	E90AP110223150N20	22	20	150	32	3	3S2505	LT8
	E90AP110223200N20	22	20	200	32	3	3S2505	LT8
	E90AP110252100NS	25	25	100	35	2	3S2505	LT8
	E90AP110252150NS	25	25	150	35	2	3S2505	LT8
	E90AP110252200NS	25	25	200	35	2	3S2505	LT8
	E90AP110253100NS	25	25	100	35	3	3S2505	LT8
	E90AP110253150NS	25	25	150	35	3	3S2505	LT8
	E90AP110253200NS	25	25	200	35	3	3S2505	LT8
	E90AP110323100NS	32	32	100	40	3	3S2505	LT8
	E90AP110323150NS	32	32	150	40	3	3S2505	LT8
	E90AP110323200NS	32	32	200	40	3	3S2505	LT8
	E90AP110323250NS	32	32	250	40	3	3S2505	LT8
	E90AP110324100NS	32	32	100	40	4	3S2505	LT8
	E90AP110324150NS	32	32	150	40	4	3S2505	LT8
	E90AP110324200NS	32	32	200	40	4	3S2505	LT8
	E90AP110324250NS	32	32	250	40	4	3S2505	LT8
	E90AP110404100N32	40	32	100	40	4	3S2505	LT8
	E90AP110404150N32	40	32	150	40	4	3S2505	LT8
	E90AP110404200N32	40	32	200	40	4	3S2505	LT8
	E90AP110404250N32	40	32	250	40	4	3S2505	LT8
	E90AP110405100N32	40	32	100	40	5	3S2505	LT8
	E90AP110405150N32	40	32	150	40	5	3S2505	LT8
	E90AP110405200N32	40	32	200	40	5	3S2505	LT8
	E90AP110405250N32	40	32	250	40	5	3S2505	LT8

E90AP11

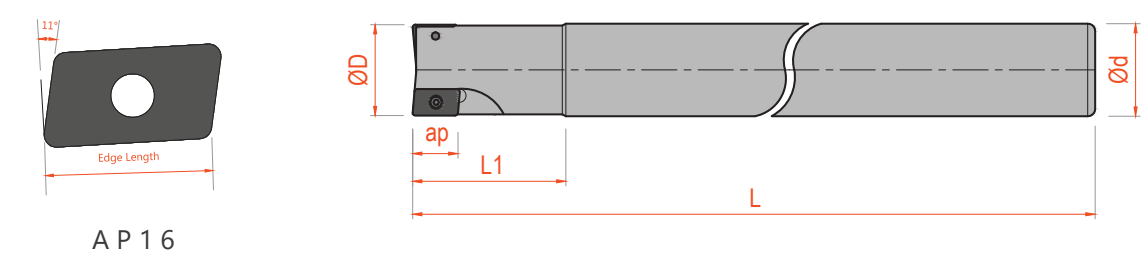


A P 1 1



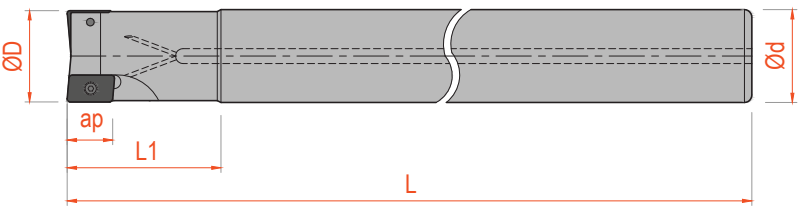
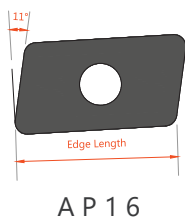
Item	Code	Dimension (mm)					Spare	
		ØD	Ød	L	L1	Z	Insert Screw	Torx Key
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	E90AP110121080CS	12	12	80	30	1	3S2505	LT8
	E90AP110141080CS	14	14	80	30	1	3S2505	LT8
	E90AP110162100CS	16	16	100	32	2	3S2505	LT8
	E90AP110162150CS	16	16	150	32	2	3S2505	LT8
	E90AP110162200CS	16	16	200	32	2	3S2505	LT8
	E90AP110182100C16	18	16	100	32	2	3S2505	LT8
	E90AP110182150C16	18	16	150	32	2	3S2505	LT8
	E90AP110182200C16	18	16	200	32	2	3S2505	LT8
	E90AP110202100CS	20	20	100	32	2	3S2505	LT8
	E90AP110202150CS	20	20	150	32	2	3S2505	LT8
	E90AP110202200CS	20	20	200	32	2	3S2505	LT8
	E90AP110223100C20	22	20	100	32	3	3S2505	LT8
	E90AP110223150C20	22	20	150	32	3	3S2505	LT8
	E90AP110223200C20	22	20	200	32	3	3S2505	LT8
	E90AP110252100CS	25	25	100	35	2	3S2505	LT8
	E90AP110252150CS	25	25	150	35	2	3S2505	LT8
	E90AP110252200CS	25	25	200	35	2	3S2505	LT8
	E90AP110253100CS	25	25	100	35	3	3S2505	LT8
	E90AP110253150CS	25	25	150	35	3	3S2505	LT8
	E90AP110253200CS	25	25	200	35	3	3S2505	LT8
	E90AP110323100CS	32	32	100	40	3	3S2505	LT8
	E90AP110323150CS	32	32	150	40	3	3S2505	LT8
	E90AP110323200CS	32	32	200	40	3	3S2505	LT8
	E90AP110323250CS	32	32	250	40	3	3S2505	LT8
	E90AP110324100CS	32	32	100	40	4	3S2505	LT8
	E90AP110324150CS	32	32	150	40	4	3S2505	LT8
	E90AP110324200CS	32	32	200	40	4	3S2505	LT8
	E90AP110324250CS	32	32	250	40	4	3S2505	LT8
	E90AP110404100C32	40	32	100	40	4	3S2505	LT8
	E90AP110404150C32	40	32	150	40	4	3S2505	LT8
	E90AP110404200C32	40	32	200	40	4	3S2505	LT8
	E90AP110404250C32	40	32	250	40	4	3S2505	LT8
	E90AP110405100C32	40	32	100	40	5	3S2505	LT8
	E90AP110405150C32	40	32	150	40	5	3S2505	LT8
	E90AP110405200C32	40	32	200	40	5	3S2505	LT8
	E90AP110405250C32	40	32	250	40	5	3S2505	LT8

E90AP16



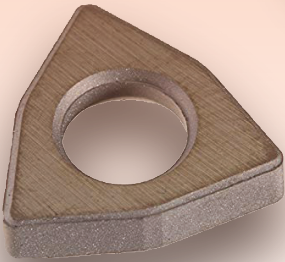
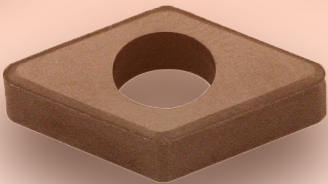
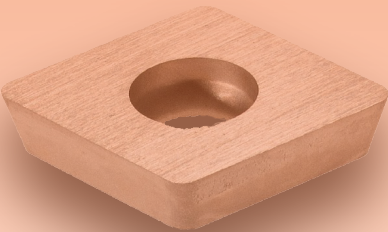
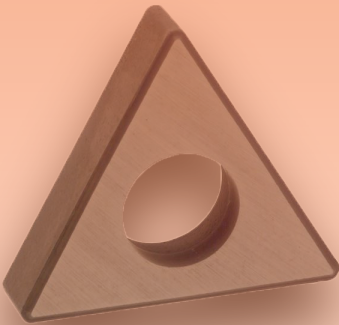
Item	Code	Dimension (mm)					Spare	
		ØD	Ød	L	L1	Z	Insert Screw	Torx Key
E90AP16	E90AP160252100NS	25	25	100	40	2	5S408	LT15
	E90AP160252150NS	25	25	150	40	2	5S408	LT15
	E90AP160252200NS	25	25	200	40	2	5S408	LT15
	E90AP160322100NS	32	32	100	40	2	5S408	LT15
	E90AP160322150NS	32	32	150	40	2	5S408	LT15
	E90AP160322200NS	32	32	200	40	2	5S408	LT15
	E90AP160322250NS	32	32	250	40	2	5S408	LT15
	E90AP160323100NS	32	32	100	40	3	5S408	LT15
	E90AP160323150NS	32	32	150	40	3	5S408	LT15
	E90AP160323200NS	32	32	200	40	3	5S408	LT15
	E90AP160323250NS	32	32	250	40	3	5S408	LT15
	E90AP160403100NS	40	32	100	40	3	5S408	LT15
	E90AP160403150NS	40	32	150	40	3	5S408	LT15
	E90AP160403200NS	40	32	200	40	3	5S408	LT15
	E90AP160403250NS	40	32	250	40	3	5S408	LT15
	E90AP160404100N32	40	32	100	40	4	5S408	LT15
	E90AP160404150N32	40	32	150	40	4	5S408	LT15
	E90AP160404200N32	40	32	200	40	4	5S408	LT15
	E90AP160404250N32	40	32	250	40	4	5S408	LT15

E90AP16



Item	Code	Dimension (mm)					Spare	
		ØD	Ød	L	L1	Z	Insert Screw	Torx Key
E90AP16 TC	E90AP160252100CS	25	25	100	40	2	5S408	LT15
	E90AP160252150CS	25	25	150	40	2	5S408	LT15
	E90AP160252200CS	25	25	200	40	2	5S408	LT15
	E90AP160322100CS	32	32	100	40	2	5S408	LT15
	E90AP160322150CS	32	32	150	40	2	5S408	LT15
	E90AP160322200CS	32	32	200	40	2	5S408	LT15
	E90AP160322250CS	32	32	250	40	2	5S408	LT15
	E90AP160323100CS	32	32	100	40	3	5S408	LT15
	E90AP160323150CS	32	32	150	40	3	5S408	LT15
	E90AP160323200CS	32	32	200	40	3	5S408	LT15
	E90AP160323250CS	32	32	250	40	3	5S408	LT15
	E90AP160403100CS	40	32	100	40	3	5S408	LT15
	E90AP160403150CS	40	32	150	40	3	5S408	LT15
	E90AP160403200CS	40	32	200	40	3	5S408	LT15
	E90AP160403250CS	40	32	250	40	3	5S408	LT15
	E90AP160404100C32	40	32	100	40	4	5S408	LT15
	E90AP160404150C32	40	32	150	40	4	5S408	LT15
	E90AP160404200C32	40	32	200	40	4	5S408	LT15
	E90AP160404250C32	40	32	250	40	4	5S408	LT15

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



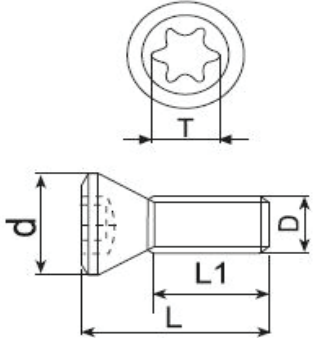


VAICO SPARES

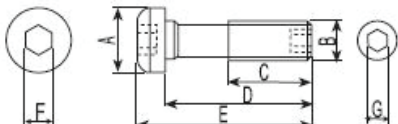


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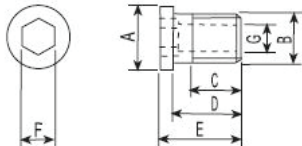
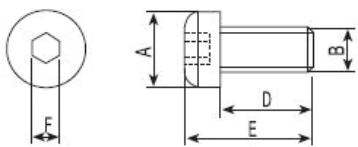
Insert Screw

Geometry	Code	D	d	L	L1	T
	2S2204	M2.2*0.45	2.86	4.70	3.17	6
	3S2505	M2.5*0.45	3.29	5.52	3.10	8
	3S2506	M2.5*0.45	3.48	6.58	4.70	8
	3S308	M3.0*0.5	3.75	8.50	5.85	10
	4S305	M3.0*0.5	4.50	5.50	3.10	8
	5S3513	M3.5*0.6	5.20	13.70	10.50	15
	5S3508	M3.5*0.6	5.00	8.20	5.40	15
	4S3506	M3.5*0.6	4.77	6.82	4.20	10
	5S3509	M3.5*0.6	5.00	9.00	6.50	15
	5S3511	M3.5*0.6	5.20	11.30	7.75	15
	5S408	M4.0*0.7	5.28	8.50	6.22	15
	5S4511	M4.0*0.7	5.65	11.05	8.20	15
	5S4514	M4.5*0.75	5.60	14.17	11.75	15

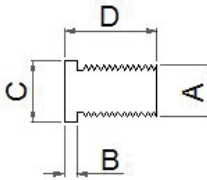
Clamp Screw

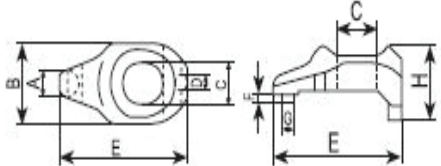
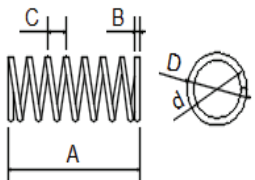
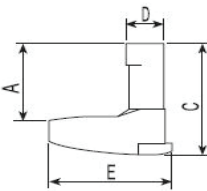
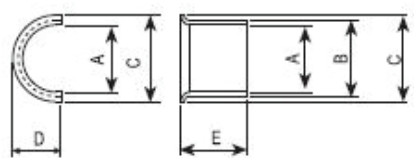
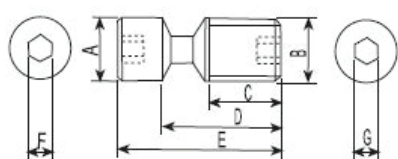
Geometry	Code	A	B	C	D	E	F	G
	7T521	7.28	M5.0*0.8	8.70	18.30	21.40	3.00	2.50
	10T623	10.00	M6.0*1.0	11.33	19.00	23.31	3.00	3.00
	9T626	9.92	M6.0*1.0	12.30	22.10	26.55	4.00	3.00
	8T521	7.98	M5.0*0.8	9.80	17.50	21.10	3.00	3.00

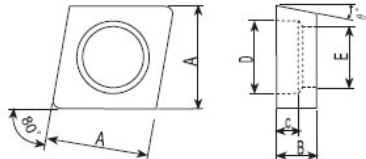
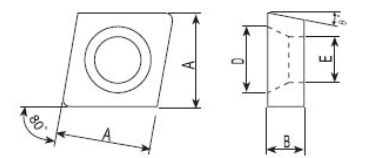
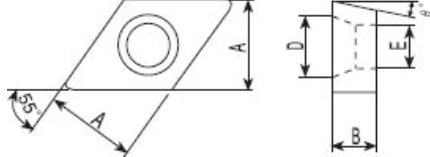
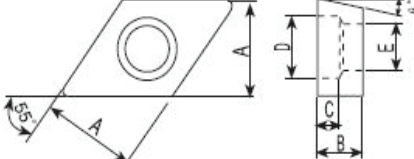
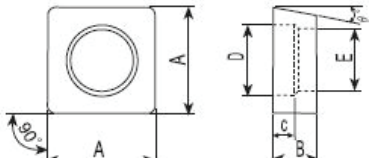
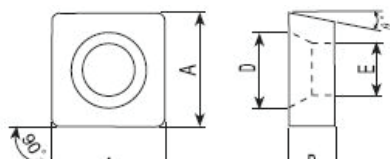
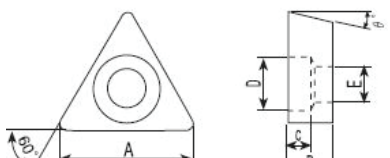
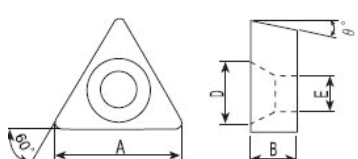
Shim Screw

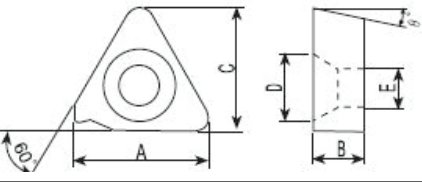
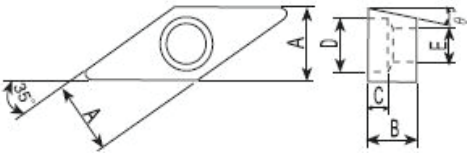
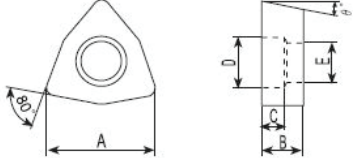
Geometry	Code	A	B	C	D	E	F	G
	6ST508	6.30	M5.0*0.5	5.40	7.45	8.65	3.50	M3.5*0.6
	5ST309	5.15	M3.0*0.5	-	6.20	9.15	-	-

Shim Screw

Geometry	Item	A	B	C	D
	4AT510	M5*0.8	1.25	6.00	9.00
	4AT609	M6*1.0	1.50	7.75	8.25
	4AT610	M6*1.0	1.50	7.40	8.00
	4AT812	M8*1.25	1.80	11.00	12.00
	4AT1015	M10*1.5	2.20	12.30	15.00
	4AT1018	M10*1.5	2.00	12.60	18.00

D Type Clamp								
Geometry	Code	A	B	C	D	E	F	G
	DC2228	2.95	11.10	5.65	2.30	21.70	1.25	2.00
	DC2640	4.01	12.95	6.25	2.33	26.55	1.52	3.10
	DC3128	2.80	12.80	5.40	2.40	31.15	1.40	2.10
	D3360	17.80	10.40	14.20	5.60	33.00	6.00	-
	D3372	17.80	10.40	14.20	5.60	33.00	7.10	-
Spring								
Geometry	Code	A	B	C	D	d		
	8SG512	14.00	0.8	2.30	7.40	5.80		
	9SG617	17.00	0.8	2.30	7.40	6.60		
Lever								
Geometry	Code	A	B	C	D	E		
	3L1209	9.98	-	12.05	3.43	9.71		
	4L1213	8.45	-	12.50	4.55	13.25		
	4L1514	11.20	-	15.50	4.50	14.75		
	7L2120	14.10	-	21.15	7.30	20.00		
Shim Pin								
Geometry	Code	A	B	C	D	E		
	6SP045	4.18	4.54	6.02	3.51	6.97		
	7SP066	5.97	6.66	7.76	4.16	5.87		
	7SP063	5.91	6.37	7.54	4.63	9.20		
	11SP104	9.22	10.41	11.97	6.54	11.02		
I - Screw								
Geometry	Code	A	B	C	D	E	F	G
	6KS16	5.90	M6.0*1.0	9.45	13.10	16.65	2.50	2.50
	8KS21	8.00	M8.0*1.0	9.20	15.50	21.00	3.00	3.00
	10KS30	9.89	M10.0*1.0	10.55	23.65	30.00	4.00	4.00

Shim							
Geometry	Code	A	B	C	D	E	θ°
	CN1203C	12.40	3.20	1.80	8.00	7.32	-
	CN1204C	12.40	4.78	2.58	8.00	7.32	-
	CN1604C	15.60	4.77	2.35	11.40	9.70	-
	CN1904C	18.80	4.78	2.10	13.00	11.30	-
	CN1203SW	11.62	3.19	-	8.21	6.60	-
	CN1904SW	18.15	4.76	-	11.55	9.65	-
	DN1503SW	11.72	3.18	-	7.76	6.40	-
	DN1103C	9.30	3.20	1.87	6.50	5.70	-
	DN1504C	12.50	4.78	2.75	8.00	7.40	-
	SN1203C	12.40	3.20	1.80	8.00	7.32	-
	SN1203C	12.40	4.78	2.50	8.00	7.32	-
	SN1203SW	11.78	3.2	-	8.05	6.35	-
	TN1603C	14.45	3.20	2.50	6.40	5.70	-
	TN1603SW	13.90	3.18	-	7.20	5.05	-

Shim							
Geometry	Code	A	B	C	D	E	Θ°
	TNL1603SW	12.60	3.2	12.05	6.25	4.00	-
	TNR1603SW	12.60	3.22	12.10	6.25	4.00	-
	VN1603C	9.40	3.20	1.76	6.50	5.90	-
	VN1603CTW	8.36	3.18	1.40	6.60	5.25	-
	WN0603C	12.16	3.18	1.80	6.45	5.75	-
	WN0604C	12.16	4.00	2.50	6.45	5.75	-
	WN0803C	15.32	3.20	1.80	7.60	6.30	-
	WN0804C	16.22	4.78	2.50	8.00	7.30	-

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