



Thread Turning Toolholders

Vardex Ordering Code System

External Toolholders

A	L	32	-	4	U	C			
1	2	3		4	5	6	7	8	9
1 - Anvil			2 - Holder Style			3 - Shank Square [mm]		4 - Insert Size	
A - Anvil Required N - No Anvil Required O - Miniature Holder			L - External V - Miniature Square Shank VR - Miniature Round Shank			8, 10, 12, 16, 20, 25, 32, 40, 50, 60		2 - IC1/4" 3 - IC3/8" 4 - IC1/2" 5 - IC5/8"	
5 - Insert Style			6 - Clamping			7 - Insert Width			
U - U style V - Vertical F - F Line M - Multi+ M MF - Multi+ F Line Z - Multi+ Z T - Multi+ T 14D - Multi+ 14D MG - Mega Line			C - With Clamping			(for IC5/8"V) 6, 8, 10			
8 - Tool Type			9 - RH/LH Holder						
CQ - Drop Head FQ - Off-Set Oil - For API Inserts			None - Right Hand LH - Left Hand						

Internal Toolholders

C 1	A 2	VR 3	C 4	20 5	6	-	3 7	8	9	10	11	12
1 - Shank Type B - Anti Vibration System C - Carbide Shank S - Mini Holders			2 - Anvil A - Anvil Required N - No Anvil Required O - Miniature Holder			3 - Tool Type VR - Internal Round Shank 4 - Cooling C - With Coolant Channel		5 - Shank Front Dia. 10, 10D, 12, 13, 16 16D, 20, 25, 25D, 32, 40, 50 6.2 (Mini Adjust) 8.0 (Mini Adjust)		6 - Holder Length (Mini Holders) U - Ultra Short S - Short M - Medium L - Long T - Adjustable		
7 - Insert Size 5LK - IC5.0L mm 4.0K - IC4.0 mm 5.0K - IC5.0 mm 6.0K - IC6.0 mm 2 - IC1/4" 3 - IC3/8" 4 - IC1/2" 5 - IC5/8"		8 - Insert Style U - U style V - Vertical F - F Line M - Multi+ M MF - Multi+ F Line Z - Multi+ Z T - Multi+ T 14D - Multi+ 14D MG - Mega Line		9 - Clamping C - Wth Clamp 10 -Oil Field OIL - For API Inserts 11 - RH/LH Holder None - Right Hand LH - Left Hand		12 - Serial No. 156/... (Coarse Pitch Holder) 206/... (V6 Holder)						

Micro, Microscope & Adjustable Toolholders (Sleeves)

M 1	H 2	C 3	R 4	22 5	-	4 6	-	5 7	-	4F 8
1- Holder Shape S - Sleeve (Double Ended) M - Microscope (Single Ended)				2 - Holder Type V - Adjustable Holders for Mini M - Micro (Double Ended) H - Microscope Round Holder HS - Microscope with Square Shank HD - Microscope with Drop Head			3 - Coolant C or D - Coolant Thru		4 - Round Tools R - Microscope Round Bore S - Microscope Shrink by Screw	
5 - Shank Size [mm] 10-28		6 - Holder Bore Size Micro Size 3, 4, 5, 6, 7, 8, 10 Adjustable Holders (for Mini) 6.2, 8			7 - Holder Bore Size for Double Sided Microscope Size 4, 5, 6,			8 - No. of Flats 4F - 4 Flats None - 2 Flats		

V-CAP Toolholders

VCAP	40	-	S	E	R	27	050	-	3
1	2		3	4	5	6	7		8

1 - Holder Style	2 - D (Polygon Size)	3 - Insert Style	4 - External / Internal	5 - RH / LH
VCAP - Vargus Polygon Shank	32, 40, 50, 63	S - Threading	E - External I - Internal	R - Right Hand L - Left Hand

6 - Cutting Radius	7 - Tool Overhang	8 - Insert Size
12-45	40-105	3 - IC3/8"

VG-Cut Toolholders for Threading

VG	E	R	2525	-	3	T12	PH
1	2	3	4		5	6	7

1 - Line Name	2 - Application Approach	3 - RH / LH	4 - Shank Size
VG - Deep Grooving & Parting Off	E - External	R - Right Hand L - Left Hand	Width-Height

5 - Pocket Size	6 - Depth of Cut	7 - PH
3	T8, T12 - Limit Depth of Cut 8, 12 mm	PH - Reinforced blade structure

Mini-V Holders

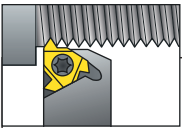
C	V	08	-	12	21	-
1	2	3		4	5	6

1 - Holder Type	2 - Product Line	3 - Insert Size	4 - Shank Diameter	5 - Tool Overhang	6 - RH or LH
C - Carbide Shank None - Steel Shank	V - Mini-V	08, 11, 14, 16	6, 8, 12, 16	12, 21, 29, 30, 42, 50, 56, 64, 80	None - RH L - LH

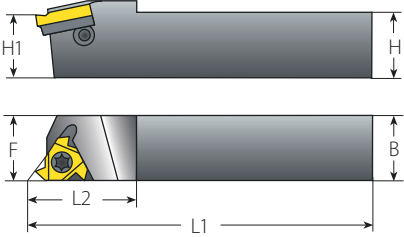
Mini-V Sleeves

MH	C	16	-	6
1	2	3		4

1 - Holder Type	2 - Coolant	3 - Shank Dia.	4 - Sleeve Bore Dia.
MH - Microscope Holder	C - Coolant Channels	12, 16, 20	6, 8



External Toolholders



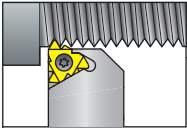
Standard

Insert Size	Ordering Code	Dimensions mm			
IC	RH/LH	H=H1=B	F	L1	L2
1/4"	NL8-2	8	11	136.4	17.5
	NL10-2	10	11	125.0	17.5
	NL12-2	12	12	125.0	17.5
3/8"	NL12-3	12	16	83.2	22
	AL3/8-3	9.52	16	63.6	20.5
	AL12-3	12	16	83.2	22
	AL16-3	16	16	100.0	20.5
	AL20-3	20	20	128.6	30
	AL25-3	25	25	153.6	30
	AL32-3	32	32	173.6	30
1/2"	AL25-4	25	25	155.7	36
	AL32-4	32	32	175.7	36
	AL40-4	40	40	205.7	36
5/8"	AL25-5	25	32	151.6	35
	AL32-5	32	32	176.6	40
	AL40-5	40	40	206.6	40
	AL50-5	50	50	256.6	40

Spare Parts

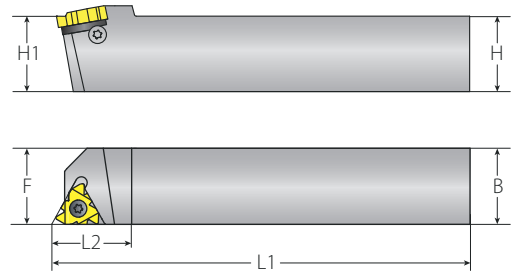
Insert Screw	Anvil Screw	Torx Key	Anvil RH	Anvil LH
SN2T	-	K2T	-	-
SA3T	-	K3T	-	-
SA3T	SY3T	K3T	YE3	YI3
SA4T	SY4T	K4T	YE4	YI4
SA5T	SY5T	K5T	YE5	YI5

The above toolholders have a 1.5° helix angle. For other helix angles, see page 203.
The above toolholders are for RH inserts. For LH inserts, add LH to the toolholder's ordering code (Example AL20-3**LH**).



External Toolholders

FLINE



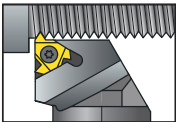
Thread Turning
Toolholders

Standard F-Line

Insert Size	Ordering Code	Dimensions mm			
IC	RH	H=H1=B	F	L1	L2
1/2"F	AL25-4F	25	25	155	33
	AL32-4F	32	32	175	33
	AL40-4F	40	40	205	33

Spare Parts

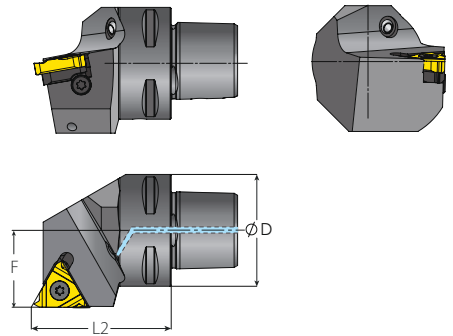
			
Insert Screw	Anvil Screw	Torx Key	Anvil RH
SA4T	SY4T	K6T	YE4F



External Toolholders




Max. coolant pressure 10bar



V-CAP

Insert Size	Ordering Code	Dimensions mm		
IC	RH/LH	D	F	L2
3/8"	VCAP32-SER22040-3	32	22	40
	VCAP40-SER27050-3	40	27	50
	VCAP50-SER35060-3	50	35	60
	VCAP63-SER45065-3	63	45	65

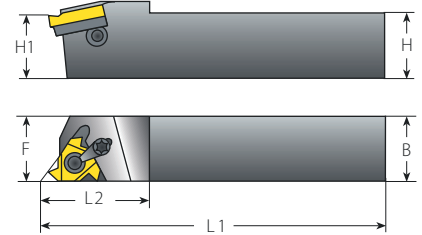
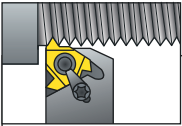
Spare Parts

					
Insert Screw	Anvil Screw	Torx Key	Coolant Jet	Anvil RH	Anvil LH
SA3T	SY3T	K3T	OD6 OD8	YE3	YI3

The above toolholders are for RH inserts. For LH inserts, add LH to the toolholder's ordering code (Example VCAP32-SEL22040-3).

The above toolholders have a 1.5° helix angle. For other helix angles, see page 203.







External Toolholders



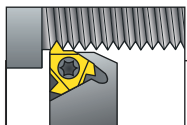
Standard with Clamp

(Dual System, Screw or Clamp)

Spare Parts

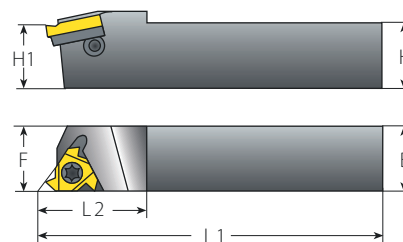
Insert Size	Ordering Code	Dimensions mm									
IC	RH/LH	H=H1=B	F	L1	L2	Insert Screw	Anvil Screw	Clamp	Torx Key	Anvil RH	Anvil LH
3/8"	AL16-3C	16	16	100.0	20.5	SA3T	SY3T	C3	K3CT	YE3	YI3
	AL20-3C	20	20	128.6	30						
	AL25-3C	25	25	153.6	30						
	AL32-3C	32	32	173.6	30						
1/2"	AL25-4C	25	25	155.7	36	SA4T	SY4T	C4	K4T	YE4	YI4
	AL32-4C	32	32	175.7	36						
	AL40-4C	40	40	205.7	36						
5/8"	AL25-5C	25	32	151.6	35	SA5T	SY5T	C5	K5T	YE5	YI5
	AL32-5C	32	32	176.6	40						
	AL40-5C	40	40	206.6	40						
	AL50-5C	50	50	256.6	40						

The above toolholders have a 1.5° helix angle. For other helix angles, see page 203.
The above toolholders are for RH inserts. For LH inserts, add LH to the toolholder's ordering code (Example AL16-3CLH).



External Toolholders





Oil&Gas

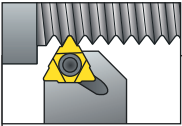


Thread Turning
Toolholders

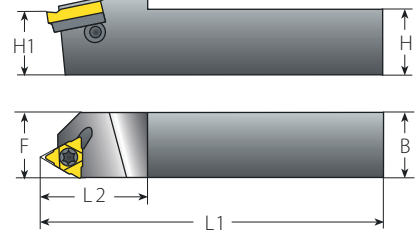
Oil & Gas

Spare Parts

Insert Size	Ordering Code	Thread Form	Connection No. or Size	Dimensions mm				Helix Angle	   			
IC	RH			H=H1=B=F	L1	L2			Insert Screw	Anvil Screw	Torx Key	Anvil RH
3/8"	AL32-3-APIRD	APIRD 8	2.375"-20"	32	173.0	28.8	1		SA3T	SY3T	K3T	YEI3 APIRD
	AL40-3-APIRD	APIRD 10	1.05"-3.5"	40	205.0	37.4	1					
1/2"	AL32-4-5BUT/API	5BUT, V0.038R, V0.050, V0.040, V0.055	4 1/2"-20"	32	177.0	36.6	0		SA4T	SY4T	K4T	YEI4-API-1P YEI4-5BUT
	AL40-4-5BUT/API		NC10-NC77 all sizes	40	204.0	34.5	0					
5/8"	AL32-5OIL	V0.038R, V0.050	NC23-NC77 all sizes	32	175.9	40.0	1.5		SA5T	SY5T	K5T	YE5OIL
	AL40-5OIL	V0.038R, V0.050	NC23-NC77 all sizes	40	205.9	40.0	1.5					

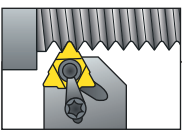


External Toolholders

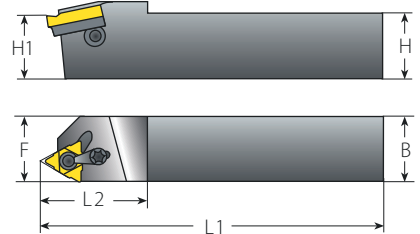


U Style

Insert Size Ordering Code Dimensions mm						Spare Parts				
IC	RH/LH	H=H1=B	F	L1	L2	Insert Screw	Anvil Screw	Torx Key	Anvil RH	Anvil LH
1/2"U	AL25-4U	25	25	178.4	38	SA4T	SY4T	K4T	YE4U	YI4U
	AL32-4U	32	32	178.4	38					
	AL40-4U	40	40	208.4	38					
5/8"U	AL25-5U	25	25	179.1	40	SA5T	SY5T	K5T	YE5U	YI5U
	AL32-5U	32	32	179.1	40					
	AL40-5U	40	40	209.1	40					
	AL50-5U	50	50	259.1	40					



External Toolholders

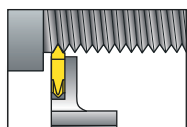


U Style with Clamp

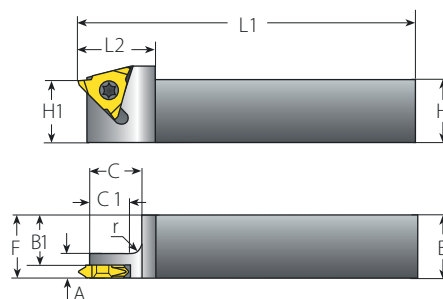
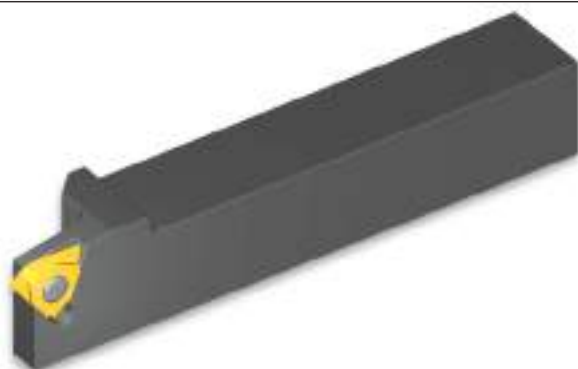
(Dual System, Screw or Clamp)

Insert Size Ordering Code Dimensions mm						Spare Parts					
IC	RH/LH	H=H1=B	F	L1	L2	Insert Screw	Anvil Screw	Clamp	Torx Key	Anvil RH	Anvil LH
1/2"U	AL32-4UC	32	32	178.4	38	SA4T	SY4T	C4	K4T	YE4U	YI4U
	AL40-4UC	40	40	208.4	38						
	AL32-5UC	32	32	179.1	40						
5/8"U	AL40-5UC	40	40	209.1	40	SA5T	SY5T	C5	K5T	YE5U	YI5U
	AL50-5UC	50	50	259.1	40						

All U Style Toolholders have a 1.5° helix angle. For other helix angles see page 203.
The above toolholders are for RH inserts. For LH inserts, add LH to the toolholder's ordering code (Example AL25-4U**LH**).



External Toolholders

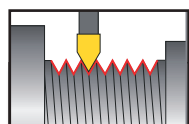


Slim Throat

Spare Parts

Insert Size		Ordering Code		Dimensions mm								
IC	RH/LH	H=B=F	H1	A	B1	C	C1	L1	L2	r	Insert Screw	Torx Key
1/4"V	NL8-2V	8	10	7	4.8	12.5	11.5	60	14.0	1	SN2T	K2T
	NL10-2V	10	10	7	6.8	12.5	11.5	70	14.0	1		
	NL12-2V	12	12	7	8.8	14.5	11.5	80	14.0	3		
	NL16-2V	16	16	7	12.8	14.5	11.5	100	14.0	3		
3/8"V	NL10-3V	10	14	7	6.4	14.5	11.5	70	18.5	3	SN3TV	K3T
	NL12-3V	12	14	7	8.4	14.5	11.5	80	18.5	3		
	NL16-3V	16	16	7	12.4	14.5	11.5	100	25.0	3		
	NL20-3V	20	20	7	16.4	16.5	11.5	125	30.0	3		
	NL25-3V	25	25	7	21.4	16.5	11.5	150	30.0	5		
	NL32-3V	32	32	7	28.4	16.5	11.5	170	30.0	5		
1/2"V	NL40-3V	40	40	7	36.4	16.5	11.5	200	30.0	5	SN4T	K4T
	NL25-4V	25	25	12	20.2	16.5	11.5	150	30.0	5		
	NL32-4V	32	32	12	27.2	16.5	11.5	170	30.0	5		
	NL40-4V	40	40	12	35.2	16.5	11.5	200	30.0	5		

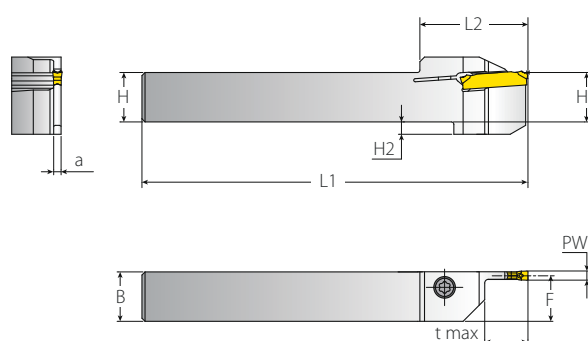
All Slim Throat toolholders have a 1.5° helix angle see page 203.
The above toolholders are for RH inserts. For LH inserts, add LH to the toolholder's ordering code (Example NL8-2V**LH**).





External Toolholders

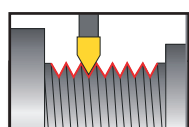


Right hand shown



Monoblock

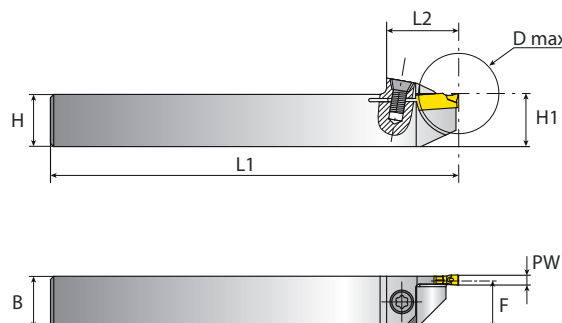
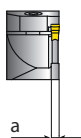
Ordering Code										Dimensions mm													
PW	RH/LH		t max	HxB	H1	F	L1	L2	a	H2	Cylindrical Holder Screw				Torx Key								
3	VGER/L1212-3T12		12	12x12	12	10.8	125	35	2.4	4.0	SM3.5x14-T15				KT-15								
	VGER/L1616-3T12		12	16x16	16	14.8				4.0	SM4.0x18-T20				K6T								
	VGER/L2020-3T08		8	20x20	20	18.8				-													
	VGER/L2020-3T12		12	20x20	20	18.8				-													
	VGER/L2525-3T08		8	25x25	25	23.8				-													
	VGER/L2525-3T12		12	25x25	25	23.8				-													





External Toolholders



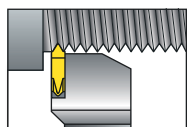
Right hand shown



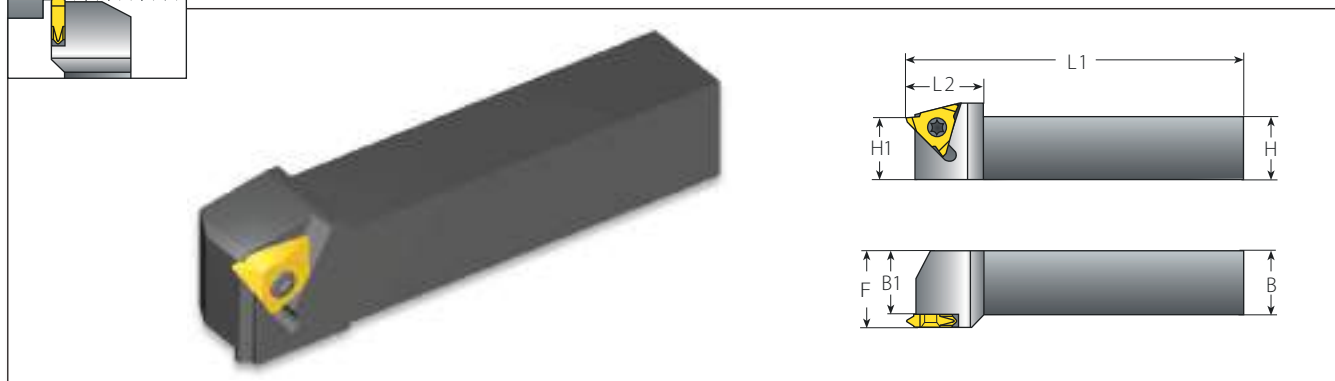
Reinforced Monoblock

Ordering Code									Dimensions mm			
PW	RH/LH	D max	HxB	H1	F	L1	L2	a	Cylindrical Holder Screw	Torx Key		
3	VGER/L1616-3T12PH	26	16x16	16	14.8	125	22	2.4	SCM4x14	KT-15		
	VGER/L2020-3T12PH	26	20x20	20	18.8		22					
	VGER/L2020-3T21PH	42	20x20	20	18.8		30					
	VGER/L2525-3T12PH	26	25x25	25	18.8		22					
	VGER/L2525-3T21PH	42	25x25	25	23.8		30					

All VG-Cut tooling have 1.5° helix angle.



External Toolholders



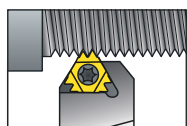
V Style

Insert Size		Ordering Code		Dimensions mm			Spare Parts	
IC	RH/LH	H=H1=B	B1	F	L1	L2	Insert Screw	Torx key
5/8"V	NL32-5V-6	32	25.5	32.0	170	40	SN6T	K6T
	NL32-5V-8	32	25.5	34.1	170	40		
	NL32-5V-10	32	25.5	35.8	170	40		
	NL32-5V-10ABUT*	32	25.5	35.8	170	40		
	NL40-5V-6	40	33.5	40.0	200	40		
	NL40-5V-8	40	33.5	42.1	200	40		
	NL40-5V-10	40	33.5	43.8	200	40		
	NL40-5V-10ABUT*	40	33.5	43.8	200	40		

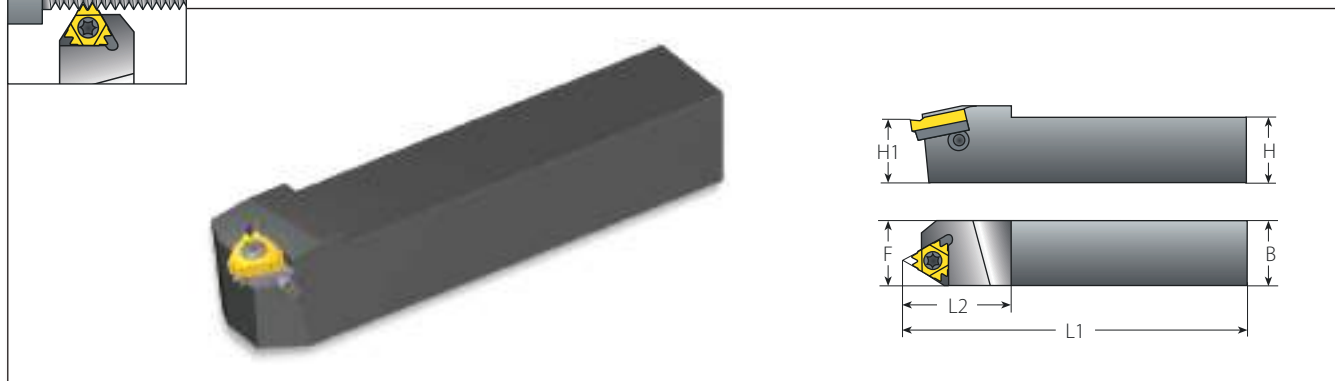
All V Style toolholders have a 1° helix angle.

The above toolholders are for RH inserts. For LH inserts, add LH to the toolholder's ordering code (Example NL32-5V-6 LH).

* To be used only with inserts 5VER2.5ABUT...



External Toolholders



Z+ Style

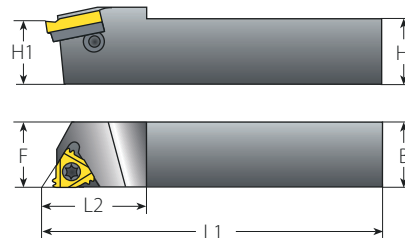
Insert Size		Ordering Code		Dimensions mm			Spare Parts				
IC	RH	H=H1=B	F	L1	L2		Insert Screw	Anvil Screw	Torx Key	Anvil RH	Anvil LH
1/2"Z	AL32-4Z	32	32	178.4	38		SA4T	SY4T	K4T	YE4Z	YI4Z
	AL40-4Z	40	40	208.4	38						

All Z Style toolholders have a 1.5° helix angle.

Multiplus



External Toolholders



M+ Style

Insert Size	Ordering Code	Dimensions mm			
IC	RH	H=H1=B	F	L1	L2
5/8" M	AL32-5M	32	32	176.6	40
	AL40-5M	40	40	206.6	40
	AL50-5M	50	50	256.6	40

Spare Parts

Multiplus


Insert Screw

Anvil Screw

Torx Key

Anvil RH

Anvil LH

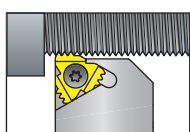
SA5T

SY5T

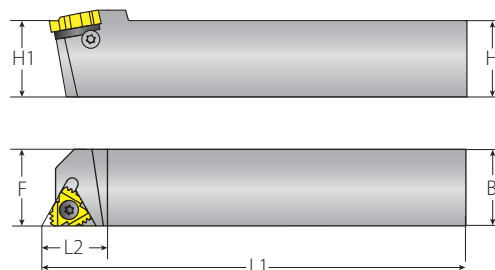
K5T

YE5M

YI5M



External Toolholders

F-LINE


F-Line M+ Style

Insert Size	Ordering Code	Dimensions mm			
IC	RH	H=H1=B	F	L1	L2
1/2" F	AL25-4MF	25	25	155	33
	AL32-4MF	32	32	175	33
	AL40-4MF	40	40	205	33

Spare Parts

Multiplus


Insert Screw

Anvil Screw

Torx Key

Anvil RH

SA4T

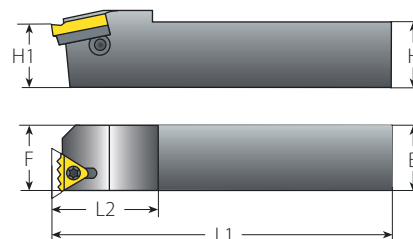
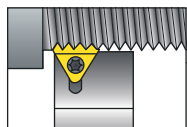
SY4T

K6T

YE4M2F

The above toolholders have a 1.5° helix angle. For other helix angles, see page 203.

External Toolholders



T+ Style

Insert Size	Ordering Code	Dimensions mm			
IC	RH	H=H1=B	F	L1	L2
1/2" T	AL25-4T	25	27	150	30
	AL32-4T	32	34	170	30
	AL40-4T	40	42	200	30

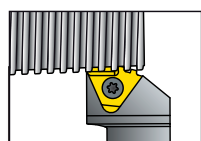
Spare Parts



Insert Screw	Anvil Screw	Insert Torx Key	Anvil Torx Key	Anvil RH/LH
SA4T	SY4K2	K4T	K2	Y4T

All T Style toolholders have a 0° helix angle.

External Toolholders



14D Standard

Insert Size	Ordering Code	Dimensions mm			
IC	RH	H=H1=B	F	L1	L2
14D	AL25-14D	25	32	150	25
	AL32-14D	32	40	170	25
	AL40-14D	40	40	200	30

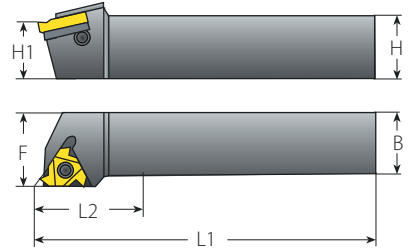
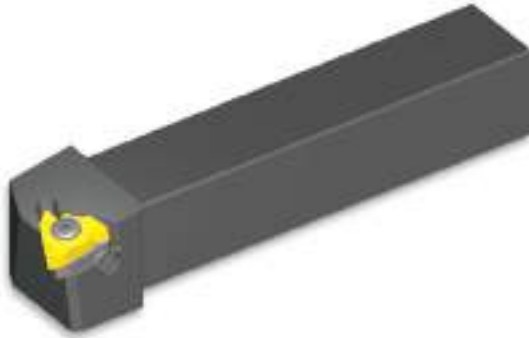
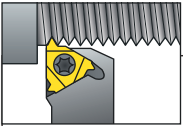
Spare Parts



Insert Screw	Anvil Screw & Washer	Torx Key	Anvil Key
SA5T	M4x6(14D)	KT15	K5T






14D holders are supplied without anvils. For specific applications, please use the anvils indicated in the table on page 204.

External Toolholders

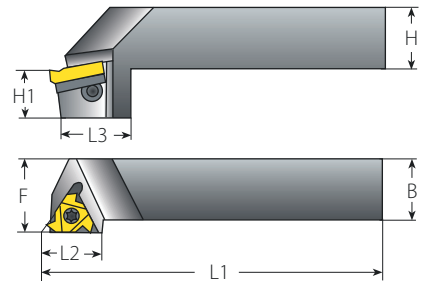
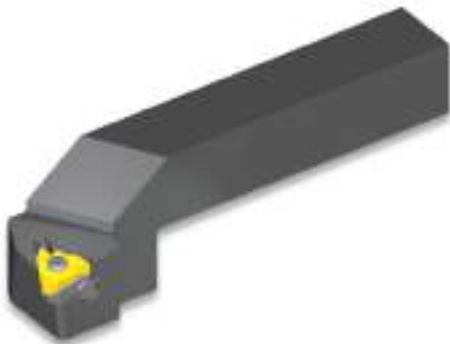
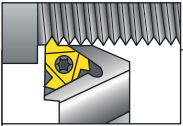


Off-Set Qualified (FQ)

Spare Parts






Insert Size		Ordering Code		Dimensions mm			    				
IC	RH/LH	H=H1=B	F	L1	L2		Insert Screw	Anvil Screw	Torx Key	Anvil RH	Anvil LH
3/8"	AL20-3FQ	20	25	125	25		SA3T	SY3T	K3T	YE3	YI3
	AL25-3FQ	25	32	150	25						
	AL32-3FQ	32	40	170	32						
1/2"	AL25-4FQ	25	32	150	30		SA4T	SY4T	K4T	YE4	YI4
	AL32-4FQ	32	40	170	30						
5/8"	AL32-5FQ	32	40	170	35		SA5T	SY5T	K5T	YE5	YI5

External Toolholders

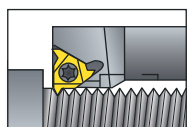


Drop Head-Qualified (CQ)

Spare Parts

Insert Size		Ordering Code		Dimensions mm					    				
IC	RH/LH	H=B	F	L1	L2	L3	H1		Insert Screw	Anvil Screw	Torx Key	Anvil RH	Anvil LH
3/8"	AL20-3CQ	20	25	125	24	38	17.5		SA3T	SY3T	K3T	YE3	YI3
	AL25-3CQ	25	32	150	24	38	22.2						
	AL32-3CQ	32	40	170	24	38	22.2						
1/2"	AL25-4CQ	25	32	150	30	38	22.2		SA4T	SY4T	K4T	YE4	YI4
	AL32-4CQ	32	40	170	30	38	22.2						
5/8"	AL32-5CQ	32	40	170	33	43	25.4		SA5T	SY5T	K5T	YE5	YI5

The above toolholders have a 1.5° helix angle. For other helix angles see page 203.
The above toolholders are for RH inserts. For LH inserts, add LH to the toolholder's ordering code (Example AL20-3FQLH).





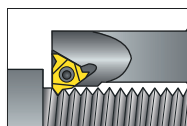
External + Internal Toolholders



Miniature Square Shank*

Spare Parts

Insert Size	Ordering Code	Dimensions mm					Min. Bore Dia.		
IC	RH/LH	A	L	L1 (max)	F	mm		Insert Screw	Torx Key
1/4"	OV8-2	8	100	25	12	29.2		SN2T	K2T
	OV10-2	10	100	25	14	36.1			





External + Internal Toolholders



Miniature Round Shank*

Spare Parts

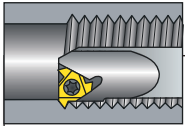
Insert Size	Ordering Code	Dimensions mm							Min. Bore Dia.		
IC	RH/LH	A	L	L1 (max)	D	D1	F	mm		Insert Screw	Torx Key
1/4"	OVR12-2	11.4	100	25	12	10	7.4	13		SN2T	K2T
	OVR15-2	14.3	100	32	15	13	8.9	16			
	OVR16D-2	15.3	100	32	16	13	8.9	16			

* Miniature square and round toolholders are designed for use on automatic lathes for the optical and other precision industries. They can be used for both external and internal threading, as follows:

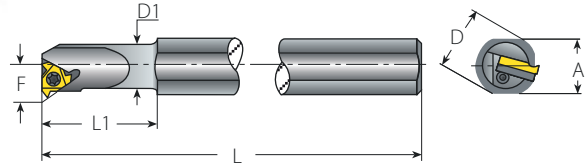
Thread	ER	EL	IR	IL
Insert	ER	EL	IR	IL
Holder	LH	RH	RH	LH

Miniature toolholders have a 0.5° helix angle.

The above toolholders are for RH inserts. For LH inserts, add LH to the toolholder's ordering code (Example OV8-2LH).



Internal Toolholders

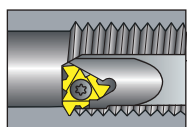


Standard

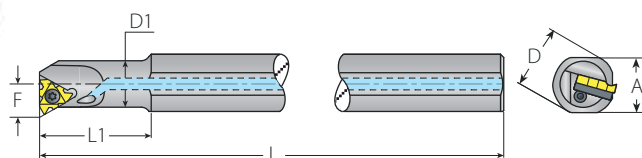
Spare Parts

Insert Size	Ordering Code	Dimensions mm							Min. Bore Dia.					
IC	RH/LH	A	L	L1 (max)	D	D1	F	mm		Insert Screw	Anvil Screw	Torx Key	Anvil RH	Anvil LH
1/4"	NVR10D-2	9.5	100	40	10	10.0	7.3	13						
	NVR10-2	18.0	180	25	20	10.0	7.3	13		SN2T	-	K2T	-	-
	NVR13-2	18.0	180	32	20	13.0	8.9	16						
3/8"	NVR13-3	18.0	180	32	20	12.7	10.3	17						
	NVR16-3	18.0	180	40	20	16.0	11.5	20		SN3T	-	K3T	-	-
	NVR16D-3	15.2	150	64	16	16.0	11.3	20						
	AVR20-3	18.0	180	80	20	20.0	13.4	24						
	AVR25-3	29.0	250	60	32	25.0	16.3	29						
	AVR25D-3	22.6	200	100	25	24.6	16.1	29		SA3T	SY3T	K3T	YI3	YE3
	AVR32-3	29.0	250	128	32	32.0	19.6	36						
	AVR40-3	36.0	300	160	40	40.0	23.8	44						
	NVR20-4	18.0	180	80	20	20.0	15.6	27		SN4T	-	K4T	-	-
1/2"	AVR25-4	29.0	250	60	32	25.0	17.4	32						
	AVR25D-4	22.6	200	100	25	24.6	17.2	32						
	AVR32-4	29.0	250	128	32	32.0	21.5	39		SA4T	SY4T	K4T	YI4	YE4
	AVR40-4	36.0	300	160	40	40.0	25.8	47						
	AVR50-4	45.0	350	200	50	50.0	30.8	57						
5/8"	AVR32-5	29.0	250	128	32	32.0	22.4	40		SN5T	SY5T	K5T	YI5	YE5
	AVR40-5	36.0	300	160	40	40.0	26.4	48						
	AVR50-5	45.0	350	200	50	50.0	31.4	58		SA5T	SY5T	K5T	YI5	YE5
	AVR60-5	54.0	400	240	60	60.0	36.4	69						





- The above toolholders have a 1.5° helix angle. For other helix angles, see page 203.
- Toolholders with prefix "N" cannot be used with an anvil.
- Holders with coolant channel are available as standard (Example NVRC10D-2).
- The above toolholders are for RH inserts. For LH inserts, add LH to the toolholder's ordering code (Example NVR10D-2**LH**).



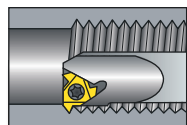
Internal Toolholders



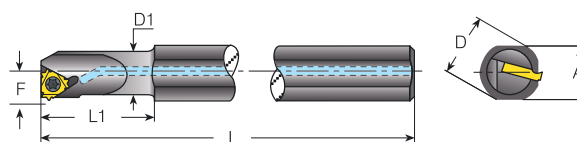
Standard F-Line

Standard F-Line									Spare Parts				
Insert Size	Ordering Code	Dimensions mm							Min. Bore Dia.				
IC	RH	A	L	L1 (max)	D	D1	F	mm	Insert Screw	Anvil Screw	Torx Key	Anvil RH	
1/2" F	AVRC25-4F	29.0	250	60	32	25.0	17.9	32	SA4T	SY4T	K6T	Y14F	
	AVRC25D-4F	22.6	200	100	25	24.6	17.9	32					
	AVRC32-4F	29.0	250	128	32	32.0	21.6	39					
	AVRC40-4F	36.0	300	160	40	40.0	25.4	47					
	AVRC50-4F	45.0	350	200	50	50.0	30.6	57					

The above toolholders have a 1.5° helix angle. For other helix angles, see page 203.





Internal Toolholders for V6 (without anvil)*

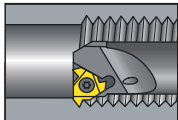


Specially designed for V6 inserts

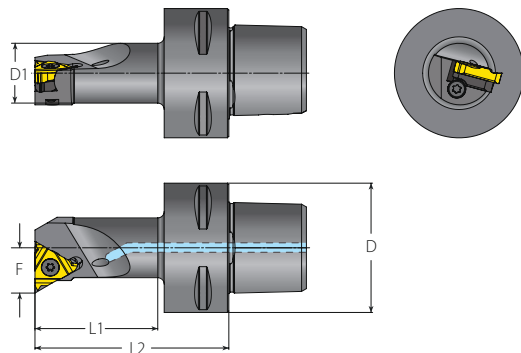
V6 Style

V6 Style									Spare Parts		
Insert Size	Ordering Code	Dimensions mm							Min. Bore Dia.		
IC	RH	A	L	L1 (max)	D	D1	F	mm	Insert Screw	Torx Key	
3/8" V6	NVRC13-3-206/001	18	180	32	20	12.7	10.3	17	SN3TM	K3T	
	NVRC16-3-206/002	18	180	40	20	16	11.5	20	SN3T		
	NVRC16D-3-206/003	15.2	150	64	16	16	11.3	20			

* V6 inserts cannot be used on standard internal toolholders without anvil. For this purpose you must use one of these special V6 toolholders. The above toolholders have a 1.5° helix angle.








Internal Toolholders

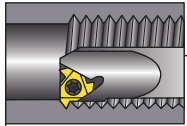


V-CAP

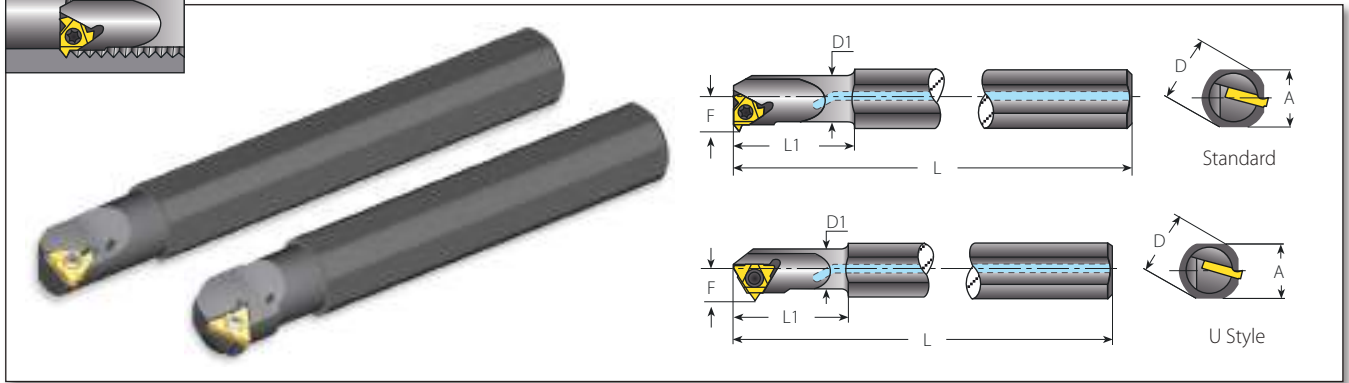
Spare Parts

Insert Size	Ordering Code	Dimensions mm					Min. Bore Dia.					
IC	RH/LH	D1	D	F	L2	L1 (max)	mm					
3/8"	VCAP40-SIR12060-3	15.5	40	12	60	37	20	SN3T	-	K3T	-	-
	VCAP40-SIR14060-3	18.5		14	60	38	25	SA3T	SY3T	K3T	YI3	YE3
	VCAP40-SIR17070-3	24.5		17	70	48	32					
	VCAP40-SIR22090-3	32.0		22	90	69	40					
	VCAP40-SIR27080-3	39.5		27	80	60	50	SN3T	-	K3T	-	-
	VCAP50-SIR12060-3	15.5	50	12	60	35	20					
	VCAP50-SIR14060-3	18.5		14	60	36	25	SA3T	SY3T	K3T	YI3	YE3
	VCAP50-SIR17070-3	24.5		17	70	47	32					
	VCAP50-SIR22090-3	32.0		22	90	68	40					
	VCAP50-SIR27105-3	40.0		27	105	84	50	SA3T	SY3T	K3T	YI3	YE3
	VCAP63-SIR14070-3	18.5	63	14	70	42	25					
	VCAP63-SIR17075-3	24.5		17	75	48	32					
	VCAP63-SIR22090-3	32.0		22	90	64	40					
	VCAP63-SIR27105-3	40.0		27	105	80	50					



The above toolholders have a 1.5° helix angle. For other helix angles, see page 203.
The above toolholders are for RH inserts. For LH inserts, add LH to the toolholder's ordering code (Example VCAP40-SIL12060-3).





Internal Toolholders

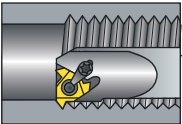


Standard for Coarse Pitch

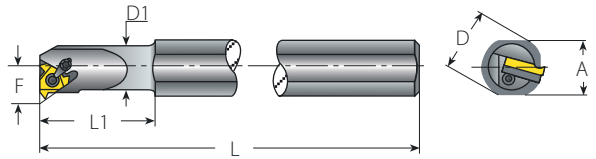
Standard for Coarse Pitch										Spare Parts	
Insert Size	Ordering Code		Dimensions mm				F to Insert		Holder Helix		
IC	RH	LH	A	L	L1 (max)	D	D1	mm	Deg.	Insert Screw	Torx Key
1/4"	NVRC10-2-156/001	NVRC10-2LH-156/036	18.0	180	25.0	20	10.1	6.53	3.0	SN2T	K2T
3/8"	NVRC11-3-156/005	NVRC11-3LH-156/025	18.0	180	25.4	20	11.2	8.30	4.5	SN3TM	K3T
	NVRC13-3-156/006	NVRC13-3LH-156/028	18.0	180	32.0	20	13.0	9.05	4.0	SN3T	K3T
	NVRC13-3-156/016	NVRC13-3LH-156/026	18.0	180	34.0	20	13.8	8.90	2.5		
1/2"	NVRC17-4-156/007	NVRC17-4LH-156/023	18.0	180	40.0	20	16.7	11.45	4.0	SN4TM	K4T
	NVRC17-4-156/039	NVRC17-4LH-156/040	18.0	180	40.0	20	16.5	13.40	4.0	SN4T	K4T
	NVRC20-4-156/008	NVRC20-4LH-156/024	18.0	180	50.0	20	19.6	12.55	3.5		
	NVRC20-4-156/009	NVRC20-4LH-156/033	18.0	180	50.0	20	19.6	12.55	3.0		
5/8"	NVRC25-5-156/012	NVRC25-5LH-156/017	29.0	250	60.0	32	25.0	16.78	3.3	SN5TM	K5T
	NVRC28-5-156/010	NVRC28-5LH-156/034	29.0	250	50.0	32	28.0	17.80	3.5		

U Style for Coarse Pitch

U Style for Coarse Pitch										Spare Parts	
Insert Size	Ordering Code		Dimensions mm				F to Insert		Holder Helix		
IC	RH	LH	A	L	L1 (max)	D	D1	mm	Deg.	Insert Screw	Torx Key
6.0U	NVRC8-6.0KU-156/003	NVRC8-6.0KULH-156/037	18.0	180	24.0	20	8.0	5.86	4.0	SN6MTN	KIP6
1/4"U	NVRC10-2U-156/004	NVRC10-2ULH-156/038	18.0	180	32.0	20	10.0	7.40	4.0	SM2T8	K2T
	NVRC11-2U-156/002	NVRC11-2ULH-156/035	18.0	180	32.0	20	11.2	7.30	3.0		
3/8"U	NVRC11-3U-156/020	NVRC11-3ULH-156/029	18.0	180	32.0	20	11.0	8.23	4.5	SN3TM	K3T
	NVRC14-3U-156/018	NVRC14-3ULH-156/030	18.0	180	38.0	20	13.4	9.99	4.5		
	NVRC15-3U-156/019	NVRC15-3ULH-156/031	18.0	180	38.0	20	15.4	10.99	4.0		
1/2"U	NVRC20-4U-156/011	NVRC20-4ULH-156/021	18.0	180	40.0	20	19.2	13.68	4.0	SN4T	K4T
	NVRC25-4U-156/013	NVRC25-4ULH-156/032	29.0	250	60.0	32	25.0	17.63	3.5		
	NVRC32-4U-156/014	NVRC32-4ULH-156/022	29.0	250	60.0	32	28.0	18.76	3.3	SA4T	K4T
5/8"U	NVRC32-5U-156/015	NVRC32-5ULH-156/027	29.0	250	60.0	32	31.6	20.96	3.2	SN5T	K5T









Internal Toolholders



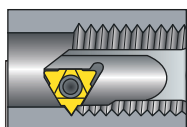
Standard with Clamp

(Dual System, Screw or Clamp)

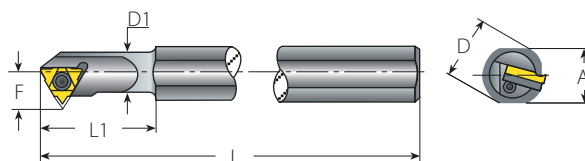
Spare Parts

Insert Size		Ordering Code		Dimensions mm				Min. Bore Dia.	     					
IC	RH/LH	A	L	L1 (max)	D	D1	F	mm	Insert Screw	Anvil Screw	Clamp	Torx Key	Anvil RH	Anvil LH
3/8"	AVR20-3C	18.0	180	80	20	20.0	13.4	24	SA3T	SY3T	C3	K3CT	YI3	YE3
	AVR25-3C	28.0	250	60	32	25.0	16.3	29						
	AVR25D-3C	22.6	200	100	25	24.6	16.1	29						
	AVR32-3C	29.0	250	128	32	32.0	19.6	36						
	AVR40-3C	36.0	300	160	40	40.0	23.8	44						
1/2"	AVR25-4C	29.0	250	60	32	25.0	17.4	32	SA4T	SY4T	C4	K4T	YI4	YE4
	AVR25D-4C	22.6	200	100	25	24.6	17.2	32						
	AVR32-4C	29.0	250	128	32	32.0	21.5	39						
	AVR40-4C	36.0	300	160	40	40.0	25.8	47						
5/8"	AVR32-5C	29.0	250	128	32	32.0	22.4	40	SA5T	SY5T	C5	K5T	YI5	YE5
	AVR40-5C	36.0	300	160	40	40.0	26.4	48						
	AVR50-5C	45.0	350	200	50	50.0	31.4	58						
	AVR60-5C	54.0	400	240	60	60.0	36.4	69						

- The above toolholders have a 1.5° helix angle. For other helix angles, see page 203.
- Holders with coolant channel available as standard (Example AVR20-3C).
- The above toolholders are for RH inserts. For LH inserts, add LH to the toolholder's ordering code (Example AVR20-3CLH).








Internal Toolholders

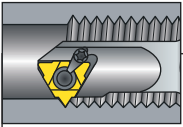


U Style

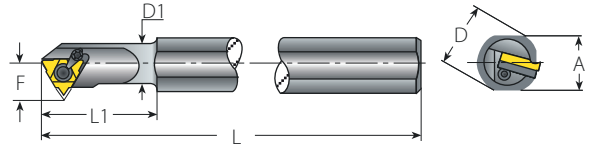
Spare Parts

Insert Size Ordering Code		Dimensions mm						Min. Bore Dia.	    				
IC	RH/LH	A	L	L1 (max)	D	D1	F	mm	Insert Screw	Anvil Screw	Torx Key	Anvil RH	Anvil LH
1/2"U	AVR32-4U	29	250	128	32	32	25.5	42	SA4T	SY4T	K4T	YI4U	YE4U
	AVR40-4U	36	300	160	40	40	29.5	51					
5/8"U	NVR32-5U	29	250	128	32	32	24.7	42	SN5T	-	K5T	-	-
	AVR40-5U	36	300	160	40	40	29.4	51					
	AVR50-5U	45	350	200	50	50	34.3	63	SA5T	SY5T	K5T	YI5U	YE5U
	AVR60-5U	54	400	240	60	60	39.3	74					

- The above toolholders have a 1.5° helix angle. For other helix angles, see page 203.
- Holders with coolant channel available as standard (Example AVR**C**32-4U).
- The above toolholders are for RH inserts. For LH inserts, add LH to the toolholder's ordering code (Example AVR32-4U**LH**).



Internal Toolholders



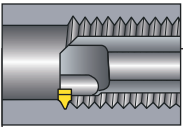
U style with Clamp

(Dual System, Screw or Clamp)

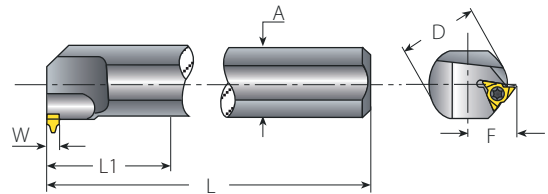
Spare Parts

Insert Size	Ordering Code	Dimensions mm							Min. Bore Dia.						
IC	RH/LH	A	L	L1 (max)	D	D1	F	mm		Insert Screw	Anvil Screw	Clamp	Torx Key	Anvil RH	Anvil LH
1/2"U	AVR32-4UC	29.0	250	128	32	32.0	25.5	42		SA4T	SY4T	C4	K4T	YI4U	YE4U
	AVR40-4UC	36.0	300	160	40	40.0	29.5	51							
5/8"U	AVR40-5UC	36.0	300	160	40	40.0	29.4	53		SA5T	SY5T	C5	K5T	YI5U	YE5U
	AVR50-5UC	45.0	350	200	50	50.0	34.4	63							
	AVR60-5UC	54.0	400	240	60	60.0	39.3	74							

The above toolholders have a 1.5° helix angle. For other helix angles, see page 203.



Internal Toolholders



V Style

Spare Parts

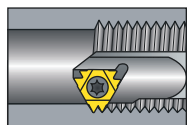
Insert Size	Ordering Code	Dimensions mm								
IC	RH/LH	A	L	L1 (max)	D	F	W		Insert Screw	Torx Key
5/8"V	NVR40-5V	36	300	160	40	28.4	6.5		SN6T	K6T
	NVR50-5V	45	350	200	50	33.4	6.5			
	NVR60-5V	54	400	240	60	38.0	6.5			

The above toolholders have a 1.0° helix angle.

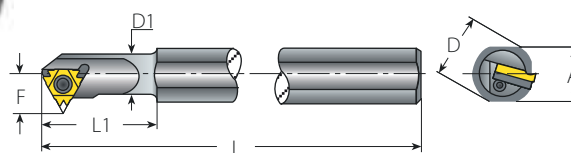
Minimum Bore Diameter

	Pitch mm	6.0 ISO	8.0 ISO	10.0 ISO	
Holder	Pitch TPI	4 UN	3 UN		2.5 W
NVR40-5V		48	54	62	68
NVR50-5V		58	58	62	68
NVR60-5V		68	68	68	68

The above toolholders are for RH inserts. For LH inserts, add LH to the toolholder's ordering code (Example AVR32-4UCLH).
Holders with coolant channel available as standard (Example AVRC32-4UC).

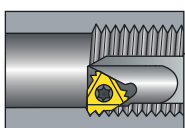


Internal Toolholders

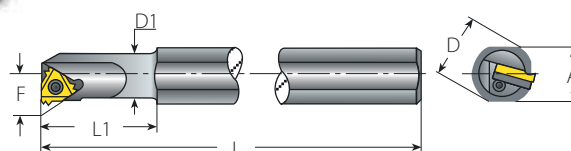


Z+ Style

Insert Size Ordering Code		Dimensions mm						Min. Bore Dia.	Spare Parts				
IC	RH	A	L	L1 (max)	D	D1	F	mm	Insert Screw	Anvil Screw	Torx Key	Anvil RH	Anvil LH
1/2"Z	AVR32-4Z	29	250	128	32	32	25.5	42	SA4T	SY4T	K4T	YI4Z	YE4Z
	AVR40-4Z	36	300	160	40	40	29.5	51					



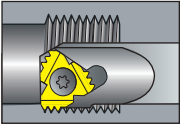
Internal Toolholders



M+ Style

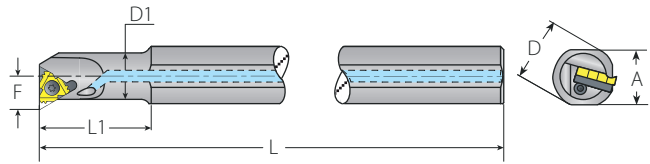
Insert Size Ordering Code		Dimensions mm						Min. Bore Dia.	Spare Parts				
IC	RH	A	L	L1 (max)	D	D1	F	mm	Insert Screw	Anvil Screw	Torx Key	Anvil RH	Anvil LH
5/8"M	AVR32-5M	29	250	128	32	32	22.4	40	SN5T	SY5T	K5T	YI5M	YE5M
	AVR40-5M	36	300	160	40	40	26.4	48					
	AVR50-5M	45	350	200	50	50	31.4	58	SA5T	SY5T	K5T	YI5M	YE5M
	AVR60-5M	54	400	240	60	60	36.4	69					

The above toolholders have a 1.5° helix angle. For other helix angles, see page 203.
Holders with coolant channel available as standard (Example AVR32-4Z).



Internal Toolholders

FLINE



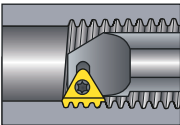
F-Line M+ Style

Spare Parts

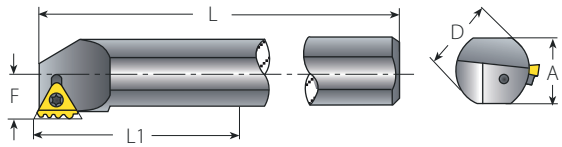
Multiplus

Insert Size	Ordering Code	Dimensions mm							Min. Bore Dia.				
IC	RH	A	L	L1 (max)	D	D1	F	mm		Insert Screw	Anvil Screw	Torx Key	Anvil RH
1/2"F	AVRC25-4MF	29	250	60	32	25.0	17.9	32					
	AVRC25D-4MF	22.6	200	100	25	24.6	17.9	32					
	AVRC32-4MF	29	250	128	32	32.0	21.4	39		SA4T	SY4T	K6T	YI4M2F
	AVRC40-4MF	36	300	160	40	40.0	25.6	47					
	AVRC50-4MF	45	350	200	50	50.0	30.6	57					

The above toolholders have a 1.5° helix angle. For other helix angles, see page 203.



Internal Toolholders



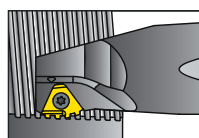
T+ Style

Spare Parts

Multiplus

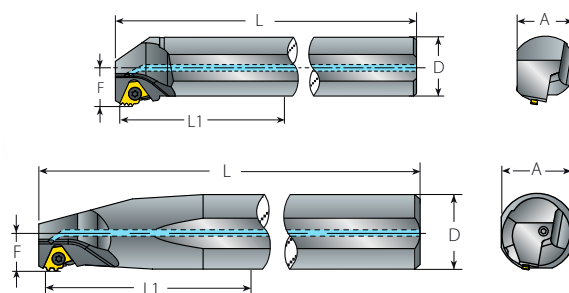
Insert Size	Ordering Code	Dimensions mm							Min. Bore Dia.					
IC	RH	A	L	L1 (max)	D	F	mm			Insert Screw	Anvil Screw	Torx Key	Anvil Torx Key	Anvil RH/LH
1/2"T	AVR40-4T	36	300	160	40	23.3	60							
	AVR50-4T	45	350	200	50	28.3	70			SA4T	SY4K2	K4T	K2	Y4T
	AVR60-4T	54	400	240	60	33.3	80							

All toolholders have a 0° helix angle.
Holders with coolant channel available as standard (Example: AVR40-4T).



Internal Toolholders

Oil&Gas



14D Standard

Insert Size	Ordering Code	Dimensions mm					Min. Bore Dia.
IC	RH	A	L	L1 (max)	D	F	mm
14D	AVRC40-14D	37	300	160	40	26	54.5
	AVRC50-14D	46	300	160	50	25	54.5

Spare Parts

Multiplus



Insert Screw

Anvil Screw
& Washer

Torx Key

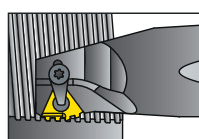
Anvil Key

SA5T

M4x6(14D)

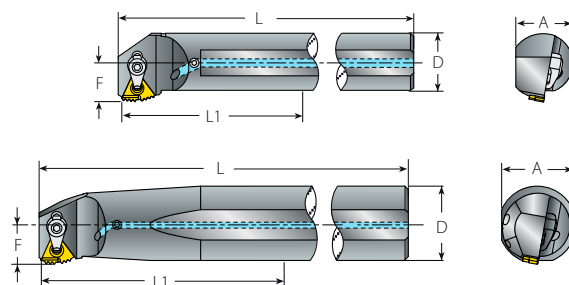
K5T

KT15



Internal Toolholders

Oil&Gas



14D Standard with Clamp

Insert Size	Ordering Code	Dimensions mm					Min. Bore Dia.
IC	RH	A	L	L1 (max)	D	F	mm
14D	AVRC40-14DC	37	300	160	40	26	54.5
	AVRC50-14DC	46	300	160	50	25	54.5

Spare Parts

Multiplus



Insert Screw

Anvil Screw
& Washer

Clamp

Torx Key

Anvil Key

SA5T

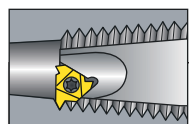
M4x6(14D)

C5

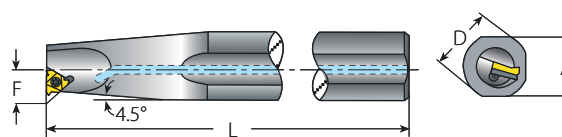
K5T

KT15

14D holders are supplied without anvils. For specific applications, please use the anvils indicated in the table on page 204.



Internal Toolholders



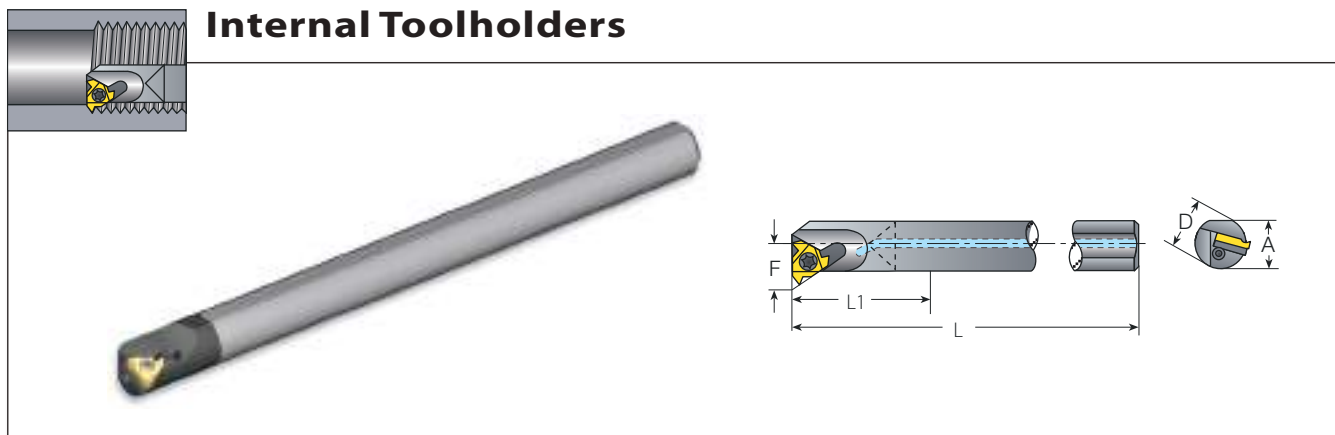
Oil & Gas

Spare Parts






Insert Size	Ordering Code	Thread Form	Connection No. or Size	Dimensions mm				Helix Angle Deg.				
IC	RH			A	L	D	F		Insert Screw	Anvil Screw	Torx Key	Anvil RH
3/8"	AVRC25-3-APIRD	APIRD 8 APIRD 10	2.375"-20" 1.315"-3.5"	29	250	25	14.5	1	SA3T	SY3T	K3T	YEI3-APIRD
	AVRC32-3-APIRD	APIRD 8 APIRD 10	2.375"-20" 1.66"-3.5"	29	250	32	19.6	1				
	AVRC40-3-APIRD	APIRD 8 APIRD 10	2.375"-20" 1.9"-3.5"	36	300	40	22.0	1				
1/2"	AVRC40-4-BUT/API	5BUT, V.038R, V.050, V.040, V.055	4 1/2"-20" NC10-NC77 all sizes	36	300	40	24.2	0	SA4T	SY4T	K4T	YEI4-API-1P YEI4-5BUT
5/8"	AVR50-5OIL	V0.038R	NC23-NC38	45	300	50	22.6	1.5	SA5T	SY5T	K5T	YI5OIL
	AVRC50-5OIL	V0.038R	NC23-NC38									
	AVR80-5OIL	V0.050R	NC40-NC77	72	400	80	39.7	1.5				
	AVRC80-5OIL	V0.050R	NC40-NC77									

Toolholders ordered with an internal coolant channel have an internal BSP 1/2" thread for connection to the flexible coolant pipe.

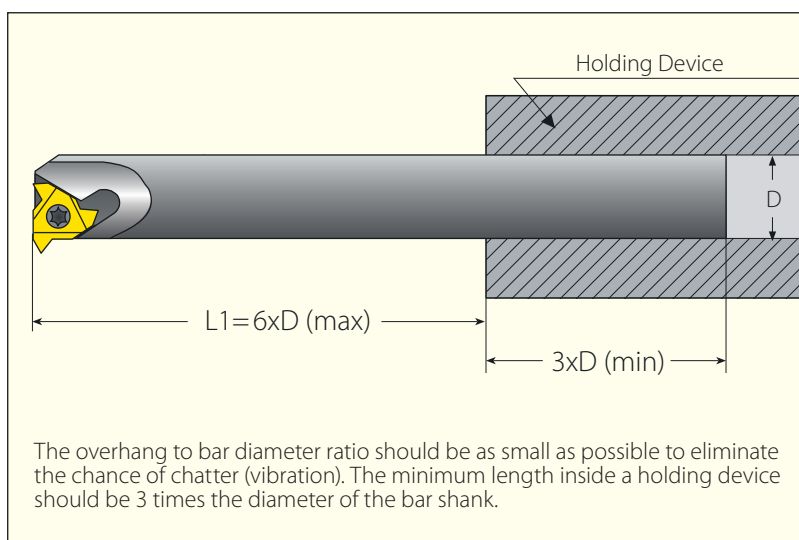
Internal Toolholders



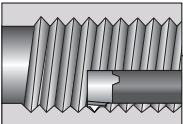
Standard with Carbide Shank

Standard with Carbide Shank								Spare Parts				
Insert Size	Ordering Code	Dimensions mm					Min. Bore Dia.					
IC	RH/LH	D	A	F	L	L1 (max)	mm	Insert Screw	Anvil Screw	Torx Key	Anvil RH	Anvil LH
1/4"	CNVRC10-2	10	9.5	7.3	150	60	13	SN2T	-	K2T	-	-
	CNVRC12-2	12	11.7	8.3	180	72	15					
3/8"	CNVRC16-3	16	15.6	11.5	200	96	20	SN3T	-	K3T	-	-
	CAVRC20-3	20	19.5	13.4	250	120	24	SA3T	SY3T	K3T	YI3	YE3
1/2"	CNVRC20-4	20	19.5	15.5	250	120	25	SN4T	-	K4T	-	-

Toolholders with prefix "CN" cannot be used with an anvil. The above toolholders have coolant channel as standard.

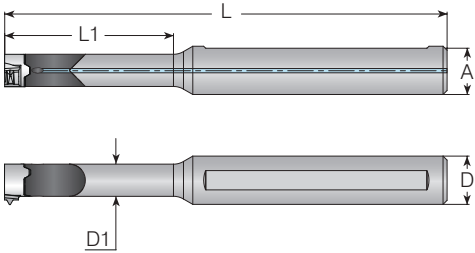


The above toolholders have 1.5° helix angle. For other helix angles see page 203.
The above toolholders are for RH inserts. For LH inserts, add LH to the toolholder's ordering code (Example CNVRC10-2LH).





Internal Toolholders

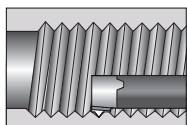
Mini-V



Carbide Shank with Alloy Steel Head

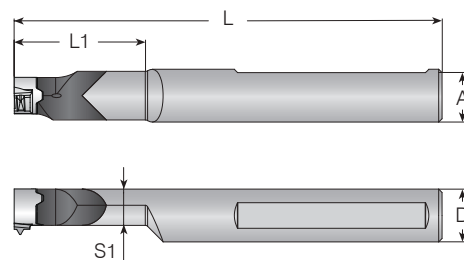
Spare Parts

Insert Style Ordering Code		Dimensions mm					 		
	RH	A	L	L1	D	D1	Screw	Size	Torx Key
V08	CV08-1221	11.5	80.5	21	12	6	SNV08	M2.6x0.45x8	K2T
	CV08-1230		90.5	30					
V11	CV11-1229	11.5	95.0	29	12	8	SNV11	M3.5x0.6x10	K3T
	CV11-1242		110.0	42					
V16	CV16-1240	11.0	130.0	40	12	11	SNV16	M5x0.8x12	K4T
	CV16-1256		130.0	56					
	CV16-1280		150.0	80					



Internal Toolholders



Mini-V

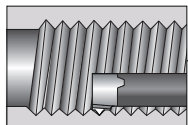


Thread Turning
Toolholders

Reinforced Carbide Shank

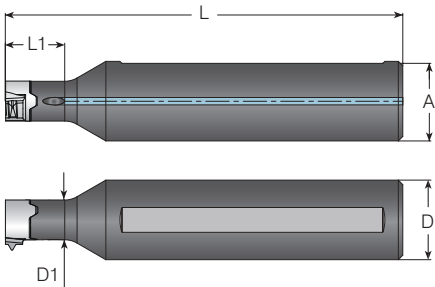
Spare Parts

Insert Style	Ordering Code	Dimensions mm							
	RH	A	L	L1	D	S1	S2	Screw	Key
V14	CV14-1234	11	100.0	34.0	12	9.3	11.9	SNV14	M4x0.7x12
	CV14-1634	15	100.0	34.0	16	9.3	12.45		
V16	CV16-1640	15	129.7	39.7	16	11	14.75	SNV16	M5x0.8x12



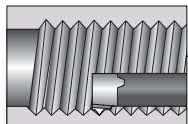
Internal Toolholders

Mini-V



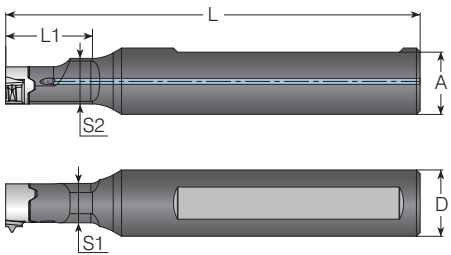
Alloy Steel Shank

Insert Style		Ordering Code		Dimensions mm			Spare Parts		
		RH		A	L	L1	D	D1	
V08	V08-1612	15.6	80	12	16	6	SNV08	M2.6x0.45x8	Torx Key K2T
V11	V11-1612	15.6	80	12	16	8	SNV11	M3.5x0.6x10	K3T
V16	V16-1622	15.0	100	22	16	11	SNV16	M5.0x0.8x12	K4T



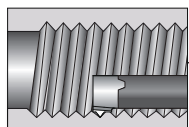
Internal Toolholders

Mini-V

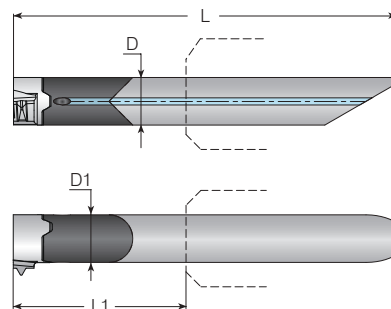


Alloy Steel Shank

Insert Style		Ordering Code		Dimensions mm				Spare Parts		
		RH		A	L	L1	D	S1	S2	
V14	V14-1620	15.0	100	20	16	9.5	11	SNV14	M4x0.7x12	Torx Key KT15





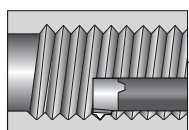
Internal Toolholders

Mini-V


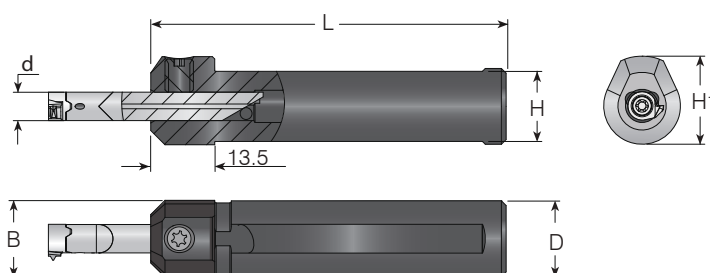
Holder for Sleeve Clamping

Spare Parts

Insert Style	Ordering Code	Dimensions mm					Ordering Code			
	RH	A	L	L1 (max)	D	D1	Sleeve			
V08	CV08-0621	-	45	21	6	6	MHC...-6	SNV08	M2.6x0.45x8	K2T
V11	CV11-0829	-	64.5	29	8	8	MHC...-8	SNV11	M3.5x0.6x10	K3T





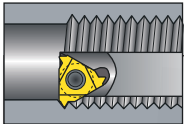
Internal Toolholders

Mini-V


Sleeves

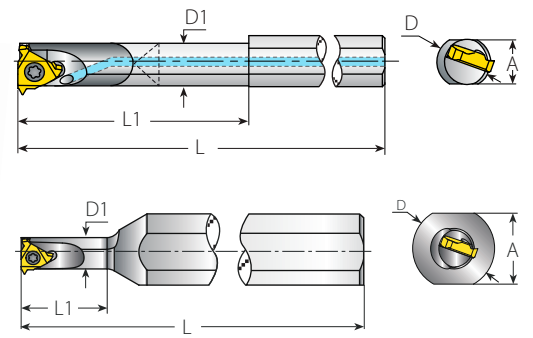
Spare Parts

Ordering Code		Dimensions mm					
d	Sleeve	D=B	H1	H	L		
6	MHC12-6	12	16.0	10.8	70.0	SL7DT15	KT15
	MHC16-6	16	18.6	14.8	75.0		
	MHC20-6	20	22.0	18.8	84.0		
8	MHC16-8	16	18.6	14.8	100.0		
	MHC20-8	20	22.0	18.8	103.5		



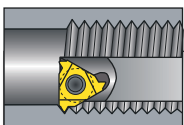
Internal Toolholders Standard

MINIPRO

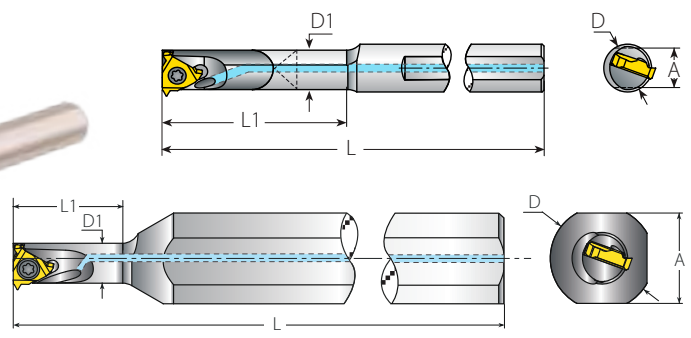


Mini-3 Standard

Insert Size		Ordering Code		Dimensions mm			Anti-Vibration System	Spare Parts	
IC	RH/LH	A	L	L1	D	D1		Insert Screw	Torx Key
4.0	SNVR5-4.0K	11.0	100	12	12	5.1	No	SN4MT	K6MT
	CNVR5-4.0K	5.2	100	26	6	5.1	Carbide Shank		



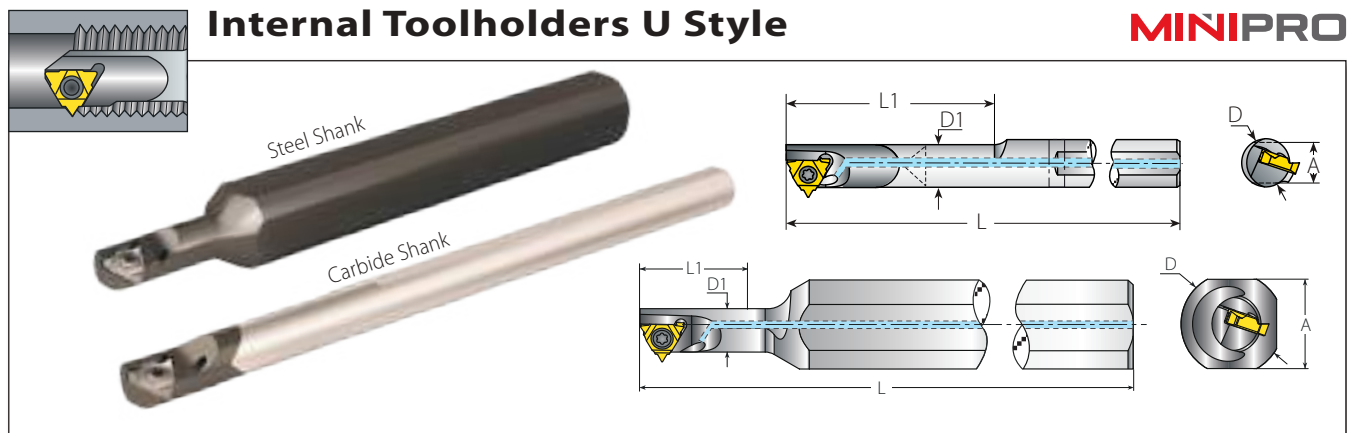
Internal Toolholders Standard



Mini-3 Standard

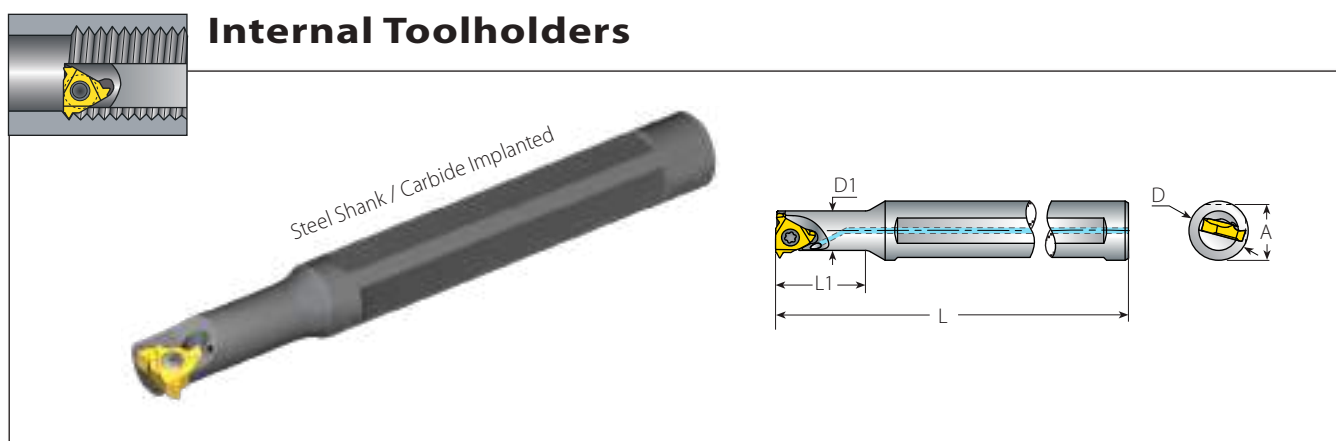
Insert Size		Ordering Code		Dimensions mm			Anti-Vibration System	Spare Parts	
IC	RH/LH	A	L	L1	D	D1		Insert Screw	Torx Key
5.0	NVRC7-5.0K	15	125	18	16	6.6	No	SN5MT	K6MT
	CNVR7-5.0K	7	125	31	8	6.6	Carbide Shank		

The above toolholders have 2.5° helix angle.
The above toolholders are for RH inserts. For LH inserts, add LH to the toolholder's ordering code (Example: CNVR5-4.0KLH).



Mini-3 U Style

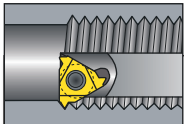
Insert Size		Ordering Code		Dimensions mm			Anti-Vibration System	Spare Parts	
IC mm	RH/LH	A	L	L1	D	D1		Insert Screw	Torx Key
5.0U	NVRC8-5.0KU	15	125	21	16	7.3	No	SN5MT	K6MT
	CNVRC8-5.0KU	7	125	35	8	7.3	Carbide Shank		



Mini-3 Standard

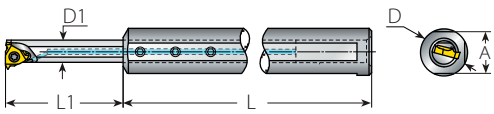
Insert Size		Ordering Code		Dimensions mm			Anti-Vibration System	Spare Parts	
IC	RH/LH	A	L	L1	D	D1		Insert Screw	Torx Key
6.0	SNVRC12U-6.0K	11.4	82	16	12	8	No	SN6MTN	KIP6
	BNVRC10S-6.0K	9.4	89	22	10	8	Carbide Implanted		
	BNVRC10M-6.0K	9.4	98	31	10	8	Carbide Implanted		
	BNVRC10L-6.0K	9.4	110	43	10	8	Carbide Implanted		

The above toolholders have 2.5° helix angle.
The above toolholders are for RH inserts. For LH inserts, add LH to the toolholder's ordering code (Example: NVRC8-5.0KU**LH**).



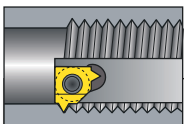
Internal Toolholders

MINIPRO

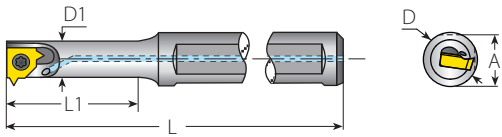


Mini-3 Adjustable

Insert Size		Ordering Code		Dimensions mm					Spare Parts			
IC	Sleeve	Holder RH/LH	A	L	L1	D	D1		Insert Screw	Torx Key for Insert Screw	Holder Screw x3	Key for Holder Screw
6.0	SVC16-8.0	BNVRC8.0T-6.0K	15.6	100	8-56	16	8		SN6MTN	KIP6	S4.0	K2.0



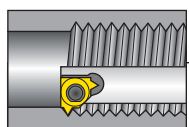
Internal Toolholders



Mini-L

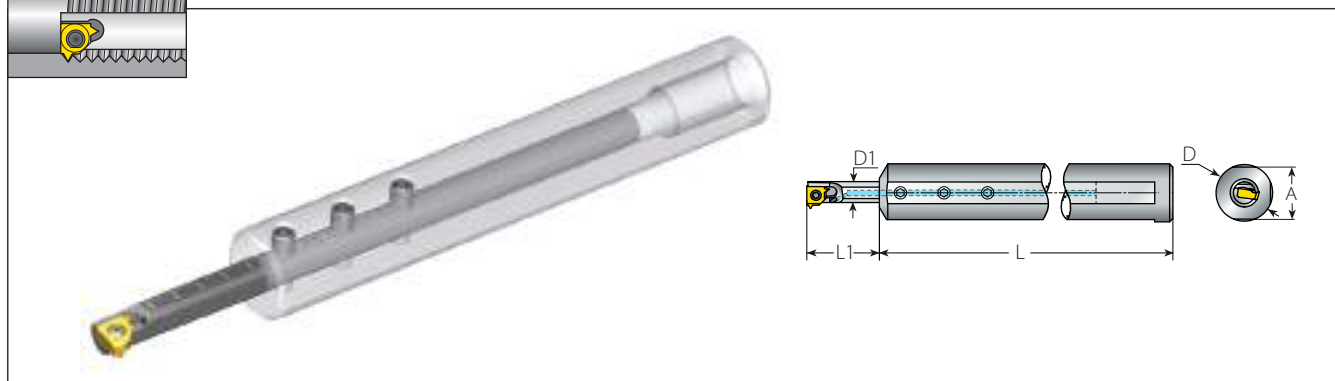
Insert Size		Ordering Code		Dimensions mm					Spare Parts	
IC	RH/LH	A	L	L1	D	D1	Anti-Vibration System		Insert Screw	Torx Key
5.0L	SNVRC10U-5LK	9.4	81	16	10	6.2	No	SN5LSTR		K7MT
	BNVRC10S-5LK	9.4	87	22	10	6.2	Carbide Implanted			
	BNVRC10M-5LK	9.4	97	31	10	6.2	Carbide Implanted			
	BNVRC10L-5LK	9.4	109	43	10	6.2	Carbide Implanted			

The above toolholders have 2.5° helix angle.
The above toolholders are for RH inserts. For LH inserts, add LH to the toolholder's ordering code (Example: SNVRC10U-5LK**LH**).



Internal Toolholders

MINIPRO

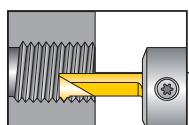


Mini-L-Adjustable

Spare Parts

Insert Size		Ordering Code		Dimensions mm							
IC	Sleeve	Holder RH/LH	A	L	L1	D	D1	Insert Screw	Torx Key for Insert Screw	Holder Screw x 3	Key for Holder Screw
5.0L	SVC16-6.2	BNVRC6.2T-5LK	15.6	100	8-44	16	6.2	SN5LSTR	K7MT	S4.0	K2.0

The above toolholders are for RH inserts. For LH inserts, add LH to the toolholder's ordering code (Example: BNVRC6.2T-5LK**LH**).



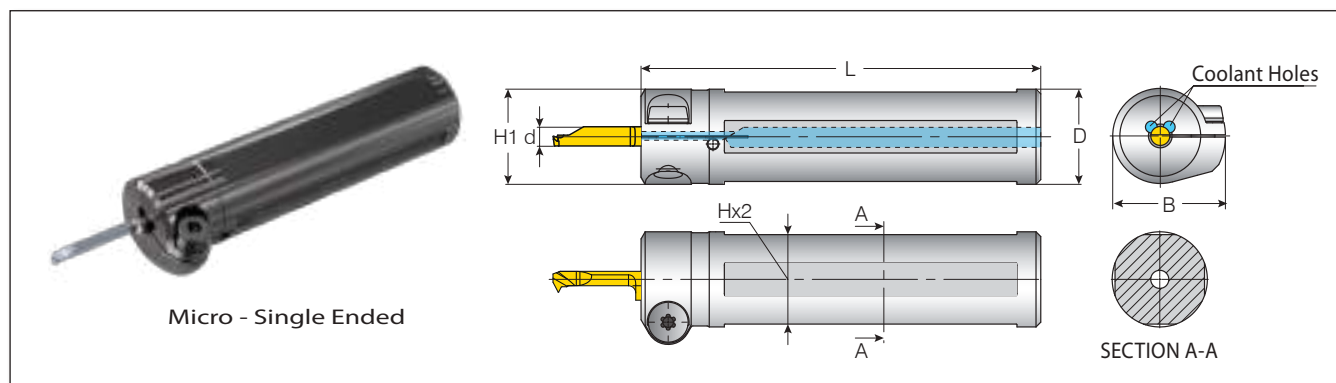
Internal Toolholders





Micro - Double Ended

Spare Parts

Micro Insert Dia.	Shank Dia.	Ordering Code	Dimensions mm			Location Screw (Every toolholder package contains the full range of location screws needed)		Key	Clamping Screw x 3	
						Screw	M		Screw	Key
3	10	SMC10-3.0	80	9- Short	89	AGISM8X28	28	K4.0	M4X0.7X4.0	K2.0
	12	SMC12-3.0		16- Medium	96	AGISM8X21	21			
	16	SMC16-3.0	95	9- Short	104	AGISM8X49	49			
	20	SMC20-3.0		16- Medium	111	AGISM8X42	42			
4	10	SMC10-4.0	80	9- Short	89	AGISM8X28	28			
	12	SMC12-4.0		16- Medium	96	AGISM8X21	21			
				21- Long	101	AGISM8X16	16			
	16	SMC16-4.0	95	9- Short	104	AGISM8X49	49			
				16- Medium	111	AGISM8X42	42			
	20	SMC20-4.0		21- Long	116	AGISM8X37	37			
6	12	SMC12-6.0	80	9- Short	89	AGISM8X28	28			
				16- Medium	96	AGISM8X21	21			
				21- Long	101	AGISM8X16	16			
	16	SMC16-6.0	95	9- Short	104	AGISM8X49	49			
				16- Medium	111	AGISM8X42	42			
				21- Long	116	AGISM8X37	37			



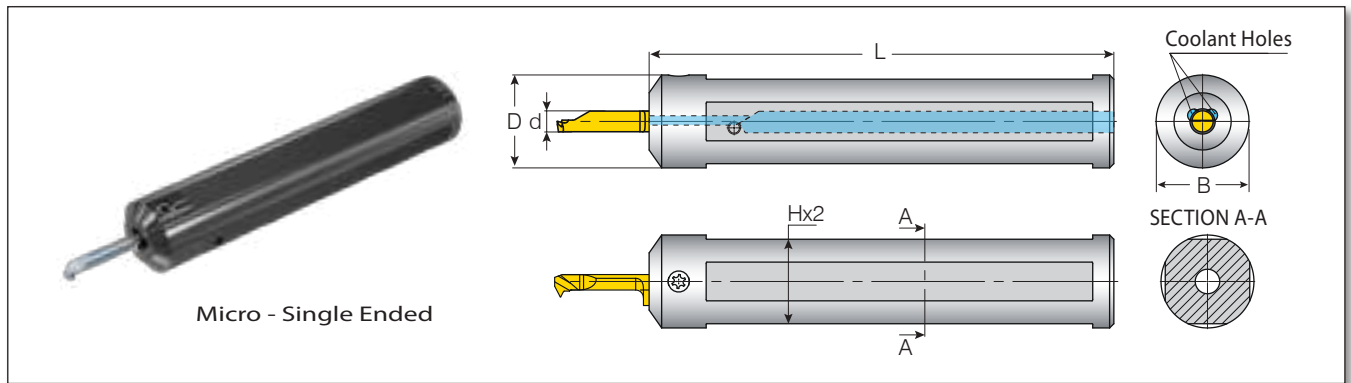
Shrink

Shrink							Spare Parts	
Micro Insert Dia.	Ordering Code	Dimensions mm						
d (mm)		D	B	H1	H	L	Shrink Screw	Key
4.0	MHCS10-4-4F	10.0	19.7	13.3	8.8	65.0	SM5x10-15IPx2*	F15IP*
	MHCS12-4-4F	12.0	19.7	13.8	10.8	70.0		
	MHCS16-4-4F	16.0	21.7	16.0	14.8	75.0		
	MHCS20-4-4F	20.0	23.7	20.0	18.8	84.0		
	MHCS22-4-4F	22.0	24.7	22.0	20.0	110.0		
5.0	MHCS16-5-4F	16.0	21.7	16.0	14.8	75.0		
	MHCS20-5-4F	20.0	23.7	20.0	18.8	84.0		
6.0	MHCS12-6-4F	12.0	19.7	13.8	10.8	70.0		
	MHCS16-6-4F	16.0	21.7	16.0	14.8	75.0		
	MHCS20-6-4F	20.0	23.7	20.0	18.8	84.0		
	MHCS22-6-4F	22.0	24.7	22.0	20.0	110.0		
7.0	MHCS16-7-4F	16.0	21.7	16.0	14.8	75.0		
	MHCS20-7-4F	20.0	23.7	20.0	18.8	84.0		

SM5x10-15IPx2 is a special screw which can be used from both its sides.
For an alternative screw, please use MS5x10 (key: S4).



Internal Toolholder

microscope



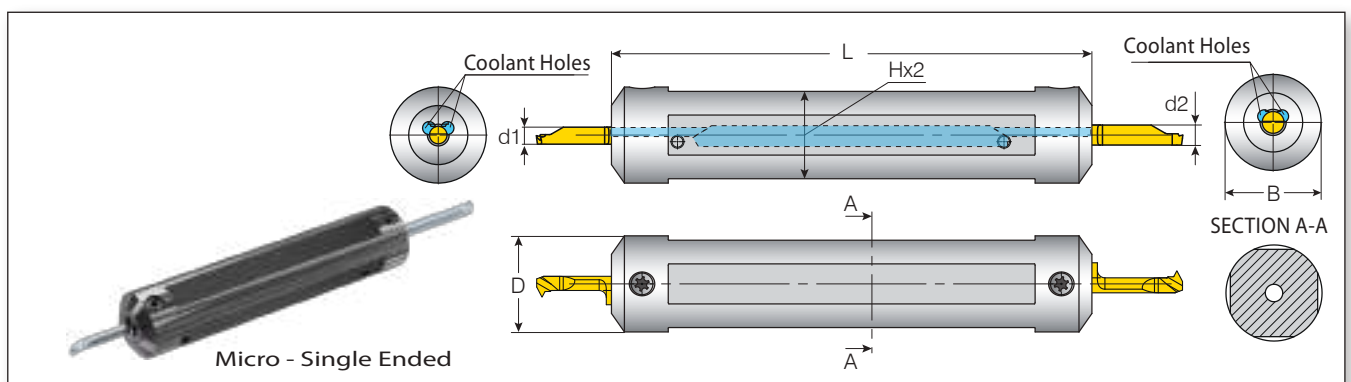
Round without Shoulder

Spare Parts

Micro Insert Dia.	Ordering Code	Dimensions mm				
d (mm)		B=D	H	L	Clamping Screw	Key
4.0	MHCR20-4-4F	20	18.8	83.5	SLDBT15IP	F15IP
	MHCR22-4-4F	22	20.0	110.0		
5.0	MHCR20-5-4F	20	18.8	83.5		
	MHCR22-5-4F	22	20.0	110.0		
6.0	MHCR20-6-4F	20	18.8	83.5		
	MHCR22-6-4F	22	20.0	110.0		
7.0	MHCR25-7-4F	25	20.0	110.0		



Internal Toolholder

microscope

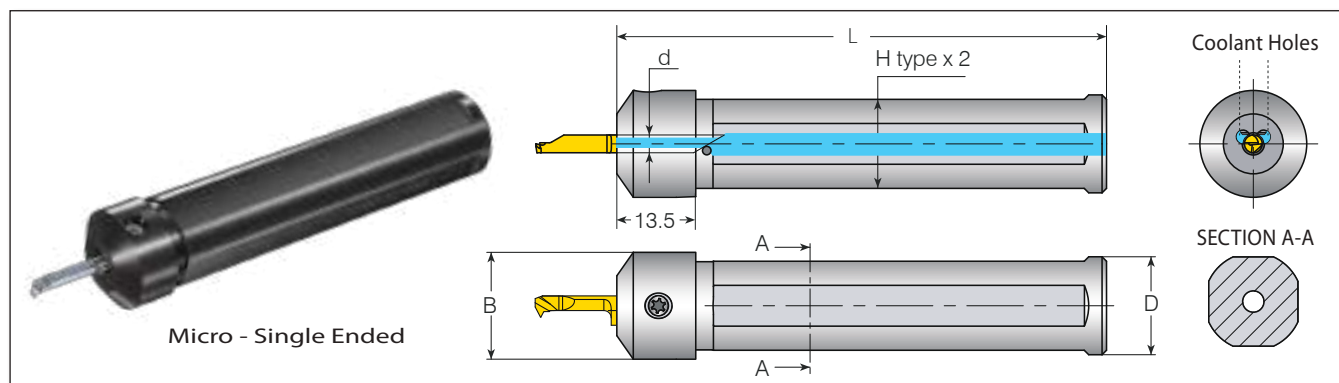


Round Double Sided

Spare Parts



Micro Insert Dia.	Ordering Code	Dimensions mm				
d1 - d2 (mm)		B=D	H	L	Clamping Screw	Key
4.0 - 5.0	MHCR075-4-5-4F*	19.05	17.8	83.5	SLDBT15IP	F15IP
	MHCR20-4-5-4F*	20	18.8	83.5		
	MHCR22-4-5-4F	22	20.0	110.0		
	MHCR25-4-5-4F	25	23.0	110.0		
6.0 - 7.0	MHCR20-6-7-4F*	20	18.8	83.5		
	MHCR25-6-7-4F	25	23.0	110.0		

* Front screw must be removed in order to mount the toolholder on the machine. Once mounted, set the screw back in place and secure the insert.

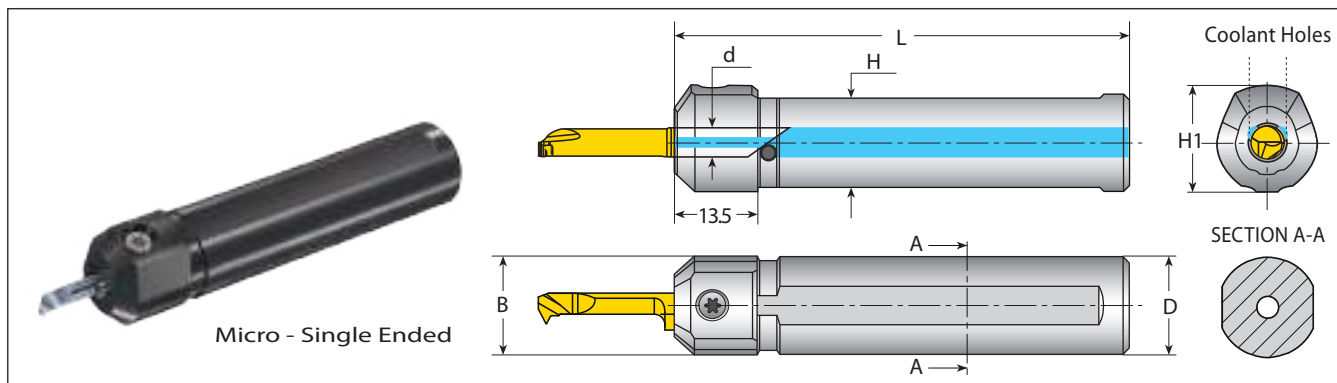


Round Shank - 4 Flats

Spare Parts



Micro Insert Dia.						Spare Parts		
Micro Insert Dia.	Ordering Code	Dimensions mm						
d mm		D	B	H	L	Clamping Screw	Torx Key	
4.0	MHC20-4-4F	20.0	22.0	18.8	83.5	SL7DT15 or SL7DBT15IP*	KT15 or F15IP*	
	MHC22-4-4F	22.0	24.0	20.0	110			
	MHC23-4-4F	23.0	25.0	21.0				
	MHC25-4-4F	25.0	27.0	23.0				
	MHC28-4-4F	28.0	30.0	26.0				
5.0	MHC20-5-4F	20.0	22.0	18.8	83.5			
	MHC22-5-4F	22.0	24.0	20.0	110			
	MHC23-5-4F	23.0	25.0	21.0				
	MHC25-5-4F	25.0	27.0	23.0				
	MHC28-5-4F	28.0	30.0	26.0				
6.0	MHC20-6-4F	20.0	22.0	18.8	83.5			110
	MHC22-6-4F	22.0	24.0	20.0				
	MHC23-6-4F	23.0	25.0	21.0				
	MHC25-6-4F	25.0	27.0	23.0				
	MHC28-6-4F	28.0	30.0	26.0				
7.0	MHC22-7-4F	22.0	24.0	20.0				
	MHC23-7-4F	23.0	25.0	21.0				
	MHC25-7-4F	25.0	27.0	23.0				
	MHC28-7-4F	28.0	30.0	26.0				

* Torx+ screw and key are now available for improved clamping.

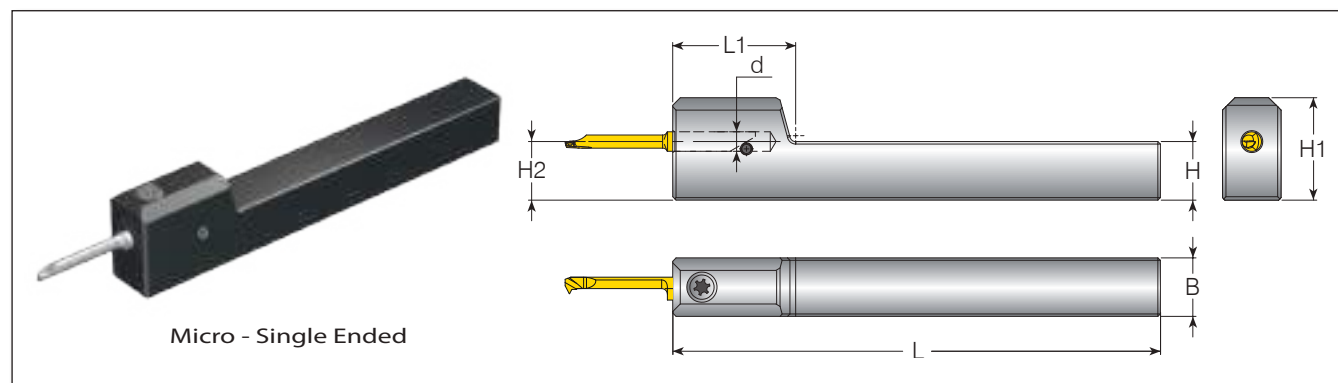


Round Shank - 2 Flats

Spare Parts



Micro Insert Dia.	Ordering Code	Dimensions mm					
d mm		D=B	H1	H	L	Clamping Screw	Torx Key
4.0	MHC10-4	10	14	8.8	65	SL7DT15 or SL7DBT15IP*	KT15 or F15IP*
	MHC12-4	12	16	10.8	70		
	MHC16-4	16	17.6	14.8	75		
	MHC20-4	20	22	18.8	84		
5.0	MHC10-5	10	14	8.8	65		
	MHC12-5	12	16	10.8	70		
	MHC16-5	16	18.6	14.8	75		
	MHC20-5	20	22	18.8	84		
6.0	MHC12-6	12	16	10.8	70		
	MHC16-6	16	18.6	14.8	75		
	MHC20-6	20	22	18.8	84		
7.0	MHC16-7	16	18.6	14.8	75		
	MHC20-7	20	22	18.8	84		

* Torx+ screw and key are now available for improved clamping.



Microscope Holder with Square Shank

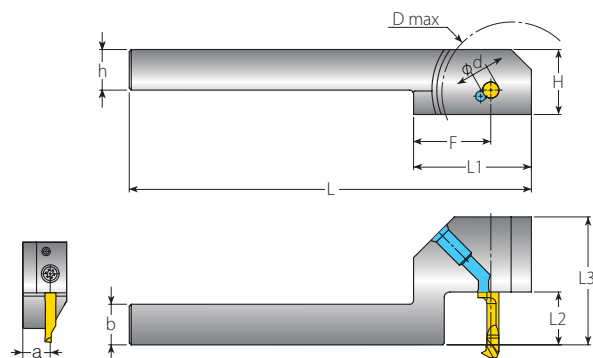
Spare Parts

Micro Insert Dia.	Ordering Code	Dimensions mm					
d mm		H=H2=B	H1	L	L1	Clamping Screw	Torx Key
4.0	MHS1010-4	10.0	19.0	100.0	25.0	SL7DT15 or SL7DBT15IP*	KT15 or F15IP*
5.0	MHS1010-5	10.0	19.5	100.0	25.0		
4.0	MHS1212-4	12.0	21.0	100.0	25.0		
5.0	MHS1212-5	12.0	21.5	100.0	27.0		
6.0	MHS1212-6	12.0	22.0	100.0	27.0		

* Torx+ screw and key are now available for improved clamping.





Micro - Single Ended



Microscope Holder with Drop Head

Spare Parts

Micro Insert Holder With Drop Head										Spare Parts			
Micro Insert Dia.	Ordering Code		Dimensions mm										
d mm	a=b=h	L3	H	L	L1	F	D max	L2	Clamping Screw	Torx Key			
4.0	MHD1010-4L0500	10.0	31.5	16.0	99.0	29.0	19.0	26.0	SL7DT15 or SL7DBT15IP*	KT15 or F15IP*			
5.0	MHD1010-5L0800		48.0								23.0		
6.0	MHD1010-6L1000		53.0								28.0		
4.0	MHD1212-4L0700	12.0	36.5	18.0							23.0	28.0	
5.0	MHD1212-5L0800		48.0										18.0
6.0	MHD1212-6L1000		53.0										28.0

* Torx+ screw and key are now available for improved clamping.

Thread Turning Kits



TT External + Internal Kit




TT External Kit




TT Internal Kit


TT External + Internal Kit

Ordering Code		Contents		
KHTT3EI-...	Holder External + Internal	10 x External Inserts	10 x Internal Inserts	Torx Key 
	AL20-3 AVRC20-3	3ERA60...	3IRA60...	K3T
		3ERG60...	3IRG60...	
		3ER11W...	3IR11W...	
		3ER14W...	3IR14W...	
		3ER1.0ISO...	3IR1.0ISO...	
		3ER1.25ISO...	3IR1.25ISO...	
		3ER1.5ISO...	3IR1.5ISO...	
		3ER2.0ISO...	3IR2.0ISO...	
		3ER2.5ISO...	3IR2.5ISO...	
		3ER3.0ISO...	3IR3.0ISO...	

TT External Kit

Ordering Code		Contents	
KHTT3E-...	Holder External	10 x External Inserts	Torx Key 
	AL20-3	3ERA60...	K3T
		3ERG60...	
		3ER11W...	
		3ER14W...	
		3ER1.0ISO...	
		3ER1.25ISO...	
		3ER1.5ISO...	
		3ER2.0ISO...	
		3ER2.5ISO...	
		3ER3.0ISO...	

TT Internal Kit

Ordering Code		Contents	
KHTT3I-...	Holder Internal	10 x Internal Inserts	Torx Key 
	AVRC 20-3	3IRA60...	K3T
		3IRG60...	
		3IR11W...	
		3IR14W...	
		3IR1.0ISO...	
		3IR1.25ISO...	
		3IR1.5ISO...	
		3IR2.0ISO...	
		3IR2.5ISO...	
		3IR3.0ISO...	



Ordering Code Example: KHTT3I-VKX.
Additional kits are available by request.

Thread Turning Inserts Kits





TT Inserts Kit

TT External Insert Kit

Ordering Code	Contents		
KITT3E-...	10 x External Inserts	Torx Key 	Insert Screw 
	3ERA60...	K3T	SA3T
	3ERG60...		
	3ER11W...		
	3ER14W...		
	3ER1.0ISO...		
	3ER1.25ISO...		
	3ER1.5ISO...		
	3ER2.0ISO...		
	3ER2.5ISO...		
	3ER3.0ISO...		

TT Internal Insert Kit

Ordering Code	Contents		
KITT3I-...	10 x Internal Inserts	Torx Key 	Insert Screw 
	3IRA60...	K3T	SA3T
	3IRG60...		
	3IR11W...		
	3IR14W...		
	3IR1.0ISO...		
	3IR1.25ISO...		
	3IR1.5ISO...		
	3IR2.0ISO...		
	3IR2.5ISO...		
	3IR3.0ISO...		

Ordering Code Example: KITT3E-VKX.
Additional kits are available by request.

