

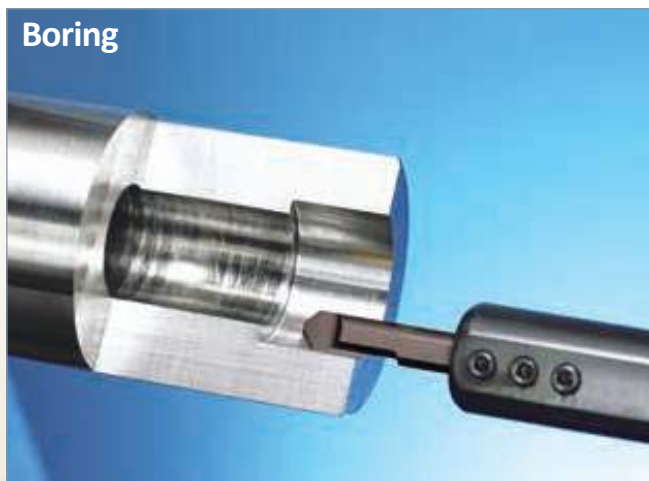
Micro Tool System

For boring, grooving & threading

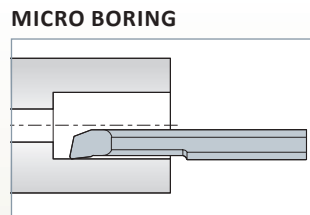


Ideal for small part machining with many applications including: fittings, valves, medical, automotive, semiconductor.

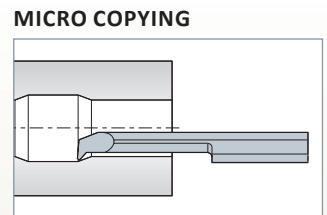
- Shank sizes from 3mm-12mm
- Sleeve holder system,
- Coated carbide substrate for long tool life.



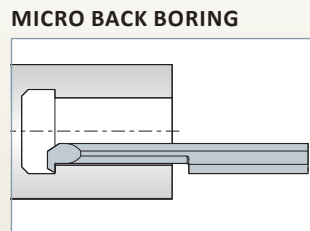
Boring



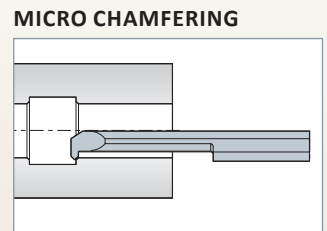
MICRO BORING



MICRO COPYING



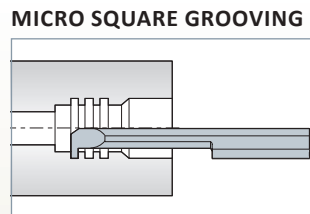
MICRO BACK BORING



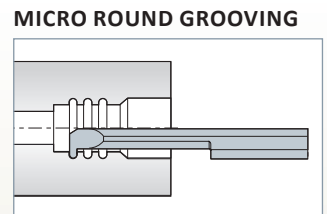
MICRO CHAMFERING



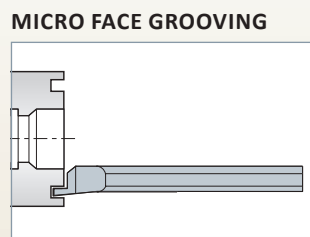
Grooving



MICRO SQUARE GROOVING



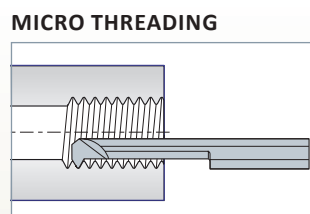
MICRO ROUND GROOVING



MICRO FACE GROOVING



Threading

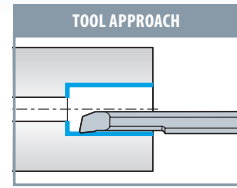
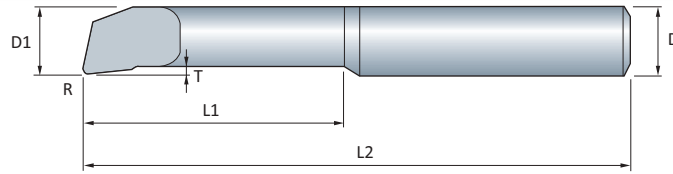


MICRO THREADING



Micro Boring Bar Insert

MG
HM

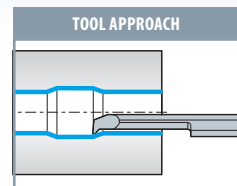
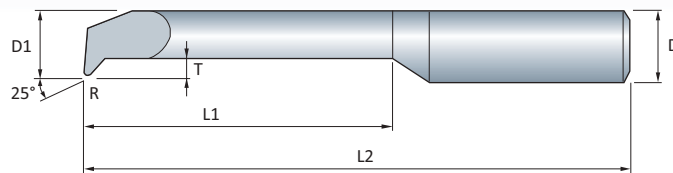


For holders see pages 407

D1	D2	L1	L2	R	T	Min. Bore Diameter	ORDER CODE
1	3	3	38	0.05	0.2	1.2	ELIH3-01R005L03
1	3	5	38	0.1	0.2	1.2	ELIH3-01R010L05
2	3	6	38	0.1	0.4	2.2	ELIH3-02R010L06
2	3	9	38	0.1	0.4	2.2	ELIH3-02R010L09
3	3	10	38	0.1	0.7	3.2	ELIH3-03R010L10
3	3	15	38	0.1	0.7	3.2	ELIH3-03R010L15
4	4	11	50	0.1	0.7	4.2	ELIH4-04R010L11
4	4	16	50	0.1	0.7	4.2	ELIH4-04R010L16
4	4	21	50	0.1	0.7	4.2	ELIH4-04R010L21
6	6	11	50	0.15	0.8	6.2	ELIH6-06R015L11
6	6	16	50	0.15	0.8	6.2	ELIH6-06R015L16
6	6	21	50	0.15	0.8	6.2	ELIH6-06R015L21
8	8	15	60	0.2	0.9	8.2	ELIH8-08R020L15
8	8	20	60	0.2	0.9	8.2	ELIH8-08R020L20
8	8	25	60	0.2	0.9	8.2	ELIH8-08R020L25
10	10	20	75	0.2	1	10.2	ELIH10-10R020L20
10	10	25	75	0.2	1	10.2	ELIH10-10R020L25
10	10	30	75	0.2	1	10.2	ELIH10-10R020L30

Micro Copying Bar Insert

MG
HM

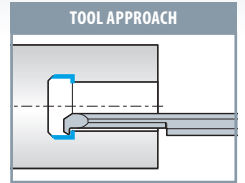
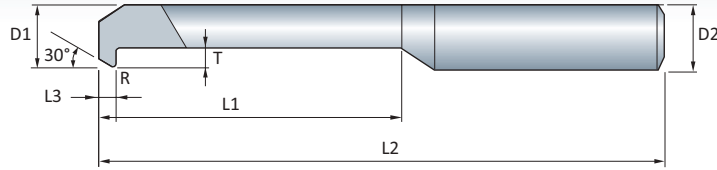


For holders see pages 407

D1	D2	L1	L2	R	T	Min. Bore Diameter	ORDER CODE
4	4	11	50	0.1	1	4.2	FLIH4-4R010L11
4	4	16	50	0.1	1	4.2	FLIH4-4R010L16
4	4	21	50	0.1	1	4.2	FLIH4-4R010L21
6	6	11	50	0.15	1.3	7	FLIH6-6R015L11
6	6	16	50	0.15	1.3	7	FLIH6-6R015L16
6	6	21	50	0.15	1.3	7	FLIH6-6R015L21

Micro Back Boring Bar Insert

MG
HM

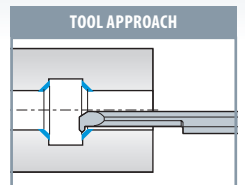
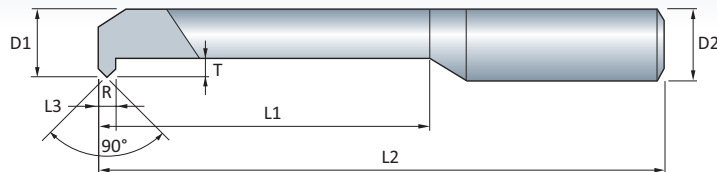


For holders see pages 407

D1	D2	L1	L2	L3	R	T	Min. Bore Diameter	ORDER CODE
3	3	11	38	1.5	0.1	0.8	3.1	GLIH3-3R010L11
3	3	16	50	1.5	0.1	0.8	3.1	GLIH3-3R010L16
4	4	11	50	2	0.1	1.3	4.1	GLIH4-4R010L11
4	4	16	50	2	0.1	1.3	4.1	GLIH4-4R010L16
4	4	21	50	2	0.1	1.3	4.1	GLIH4-4R010L21
6	6	11	50	2	0.2	1.9	6.1	GLIH6-6R020L11
6	6	16	50	2	0.2	1.9	6.1	GLIH6-6R020L16
6	6	21	50	2	0.2	1.9	6.1	GLIH6-6R020L21

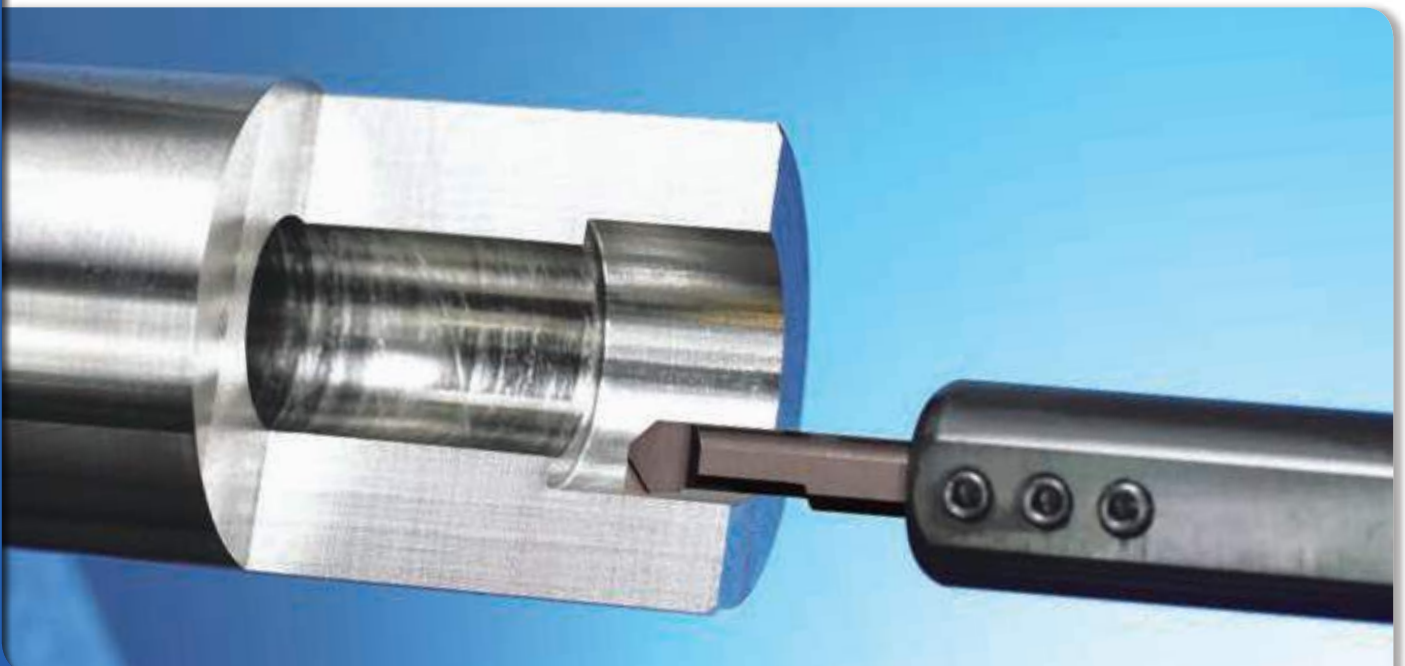
Micro Chamfer Insert

MG
HM



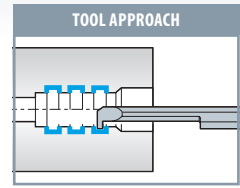
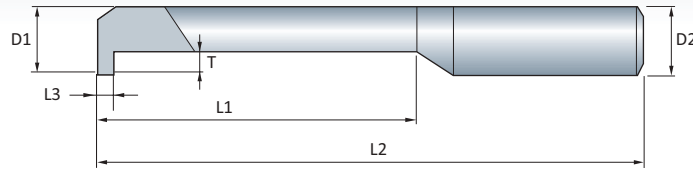
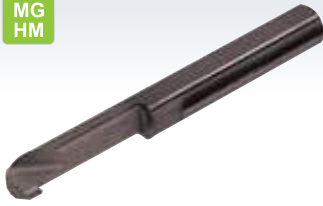
For holders see pages 407

D1	D2	L1	L2	L3	R	T	Min. Bore Diameter	ORDER CODE
4	4	11	38	2	0.1	1.2	4.1	HLIH4-R010W2L11
4	4	16	50	2	0.1	1.2	4.1	HLIH4-R010W2L16
4	4	21	50	2	0.1	1.2	4.1	HLIH4-R010W2L21
6	6	16	50	2.4	0.2	1.5	6.1	HLIH6-R020W24L11
6	6	16	50	2.4	0.2	1.5	6.1	HLIH6-R020W24L16
6	6	21	50	2.4	0.2	1.5	6.1	HLIH6-R020W24L21



Micro Square Grooving Insert

MG
HM

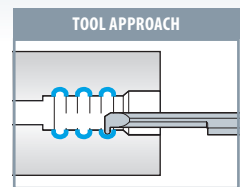
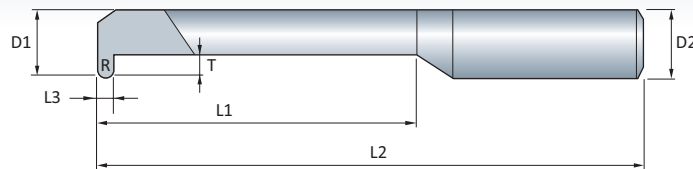
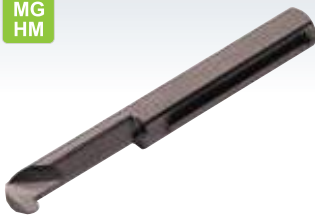


For holders see pages 407

D1	D2	L1	L2	L3	T	Min. Bore Diameter	ORDER CODE
3	3	12	38	0.3	0.6	3.1	BLIH3-W030L12
3	3	12	38	0.4	0.8	3.1	BLIH3-W040L12
4	4	12	50	0.5	1.25	4.1	BLIH4-W050L12
4	4	12	50	0.6	1.25	4.1	BLIH4-W060L12
4	4	12	50	0.7	1.25	4.1	BLIH4-W070L12
4	4	12	50	0.8	1.25	4.1	BLIH4-W080L12
6	6	16	50	0.9	2	6.1	BLIH6-W090L16
6	6	16	50	1	2	6.1	BLIH6-W100L16
6	6	16	50	1.2	2	6.1	BLIH6-W120L16
6	6	16	50	1.4	2	6.1	BLIH6-W140L16
6	6	16	50	1.6	2	6.1	BLIH6-W160L16
6	6	16	50	1.8	2	6.1	BLIH6-W180L16
8	8	20	60	2	3.5	8.1	BLIH8-W200L20
8	8	20	60	2.5	3.5	8.1	BLIH8-W250L20
10	10	20	75	3	4.5	10.1	BLIH10-W300L20
10	10	20	75	3.5	4.5	10.1	BLIH10-W350L20
10	10	20	75	4	4.5	10.1	BLIH10-W400L20

Micro Round Grooving Insert

MG
HM



For holders see pages 407

D1	D2	L1	L2	L3	R	T	Min. Bore Diameter	ORDER CODE
3	3	12	38	0.3	0.6	0.8	3.1	CLIH3-R03L12
3	3	12	38	0.4	0.8	0.8	3.1	CLIH3-R04L12
4	4	12	50	0.3	0.6	1.4	4.1	CLIH4-R03L12
4	4	12	50	0.4	0.8	1.4	4.1	CLIH4-R04L12
4	4	12	50	0.5	1	1.4	4.1	CLIH4-R05L12
4	4	12	50	0.6	1	1.4	4.1	CLIH4-R06L12
6	6	16	50	0.5	1	2	6.1	CLIH6-R05L16
6	6	16	50	0.6	1.2	2	6.1	CLIH6-R06L16
6	6	16	50	0.7	1.4	2	6.1	CLIH6-R07L16
6	6	16	50	0.8	1.6	2	6.1	CLIH6-R08L16
6	6	16	50	0.9	1.8	2	6.1	CLIH6-R09L16
6	6	16	50	1	2	2	6.1	CLIH6-R10L16
8	8	21	60	1	2	2.5	8.1	CLIH8-R10L21
8	8	21	60	1.5	3	2.5	8.1	CLIH8-R15L21
10	10	26	75	1	2	3.5	10.1	CLIH10-R10L26
10	10	26	75	1.5	3	3.5	10.1	CLIH10-R15L26
10	10	26	75	2	4	3.5	10.1	CLIH10-R20L26

ISO TURNING INSERTS

CBN TURNING INSERTS

PCD TURNING INSERTS

ISO TURNING TOOLHOLDERS

ISO BORING BARS

PARTING OFF SYSTEMS

MULTI TURN

KGT GROOVING

MGT MULTI GROOVING

simturn® AX

MICROSCOPE

simturn® DX

FINE TOOL

simturn® E3

simturn® K2

FGT AUTO

simturn® C4

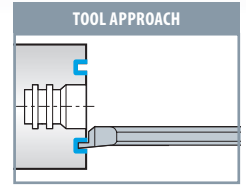
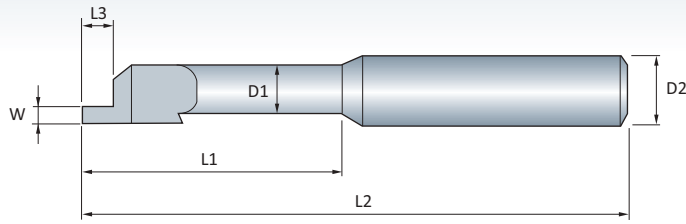
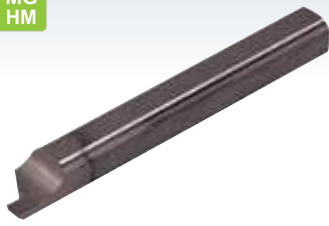
CUT KNURLING

FORM/PRESSURE KNURLING



Micro Face Grooving Insert

MG
HM

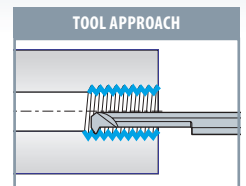
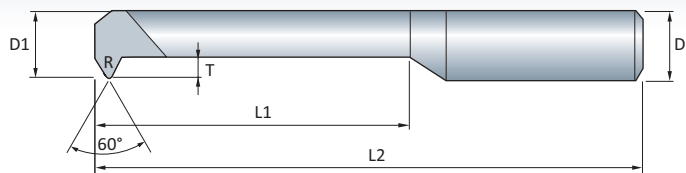


For holders see pages 407

D1	D2	L1	L2	L3	W	ORDER CODE
3.2	4	12	50	1	0.7	DLIH4-W070L12
3.2	4	12	50	1.1	0.8	DLIH4-W080L12
3.2	4	12	50	1.2	0.9	DLIH4-W090L12
3.2	4	12	50	1.3	1	DLIH4-W100L12
5	6	16	50	1	0.7	DLIH6-W070L16
5	6	16	50	1.1	0.8	DLIH6-W080L16
5	6	16	50	1.2	0.9	DLIH6-W090L16
5	6	16	50	1.3	1	DLIH6-W100L16
5	6	16	50	1.4	1.1	DLIH6-W110L16
5	6	16	50	1.5	1.2	DLIH6-W120L16
6	8	20	60	1.3	1	DLIH8-W100L20
6	8	20	60	2.3	2	DLIH8-W200L20
8	10	25	75	2.3	2	DLIH10-W200L25
8	10	25	75	3.5	3	DLIH10-W300L25

Micro Threading Bar Insert

MG
HM

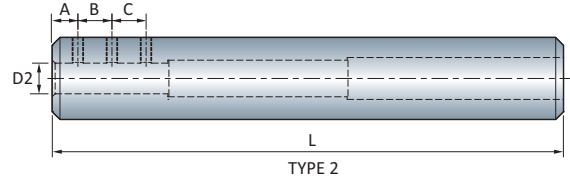
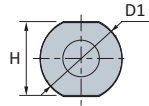
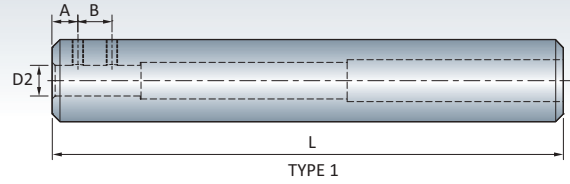
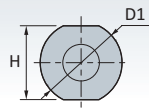


For holders see pages 407

D1	D2	L1	L2	R	T	Pitch	Min. Bore Diameter	ORDER CODE
2.4	3	8	38	0.05	0.5	0.5	2.5	ALIH3-A60L08
3	3	10	38	0.05	0.75	0.5-0.7	3.2	ALIH3-A60L10
4	4	10	50	0.05	0.85	0.5-0.8	4.2	ALIH4-A60L10
5	6	10	50	0.05	1.3	0.5-1.25	5.2	ALIH6-A60L10
6	6	12	50	0.05	1.55	0.5-1.5	6.2	ALIH6-A60L12
3	3	16	50	0.05	0.75	0.5-0.7	3.2	ALIH3-A60L16
4	4	16	50	0.05	0.75	0.5-0.8	4.2	ALIH4-A60L16
5	6	16	50	0.05	1.3	0.5-1.25	5.2	ALIH6-A60L16
6	6	18	50	0.05	1.55	0.5-1.5	6.2	ALIH6-A60L18
7.4	8	20	60	0.08	1.9	1.0-1.5	7.6	ALIH8-A60L20
9.6	10	20	75	0.08	2.4	1.0-2.0	9.8	ALIH10-A60L20
11.4	12	20	75	0.08	3.2	1.0-2.0	11.6	ALIH12-A60L20



Micro Boring Bar Holders



D1	D2	L	A	B	C	H	ORDER CODE	PRICE	SPARES	
									Screw	Wrench
TYPE 1										
16	3	100	5	-	-	14	SL1603		M3	HW15L
	4		5	6	-		M4		HW20L	
	5		5	8	-					
TYPE 2										
16	6	100	5	6	6	14	SL1606		M4	HW20L
	7		5	6	8		SL1607			
20	8		5	10	10	18	SL2008		M5	
	10		5	10	10		SL2010			



ISO TURNING
INSERTS

CBN TURNING
INSERTS

PCD TURNING
INSERTS

ISO TURNING
TOOLHOLDERS

ISO BORING
BARS

PARTING OFF
SYSTEMS

MULTI TURN

KGT
GROOVING

MGT MULTI
GROOVING

simturn®
AX

MICROSCOPE

simturn®
DX

FINE TOOL

simturn®
E3

simturn®
K2

FGT AUTO

simturn®
C4

CUT
KNURLING

FORM/
PRESSURE
KNURLING

