

MASTER CATALOG 2018

VOLUME ONE | **TURNING TOOLS**



ISO/ANSI TURNING | GROOVING & CUT-OFF | THREADING | APPLICATION SPECIFIC

➤ **Fix-Perfect™**

Precision Ground Insert Program Goes Above and Beyond!

The breakthrough performance characteristics of these precision ground inserts enable outstanding indexing accuracy and excellent chip flow when machining steel, cast iron, and stainless steel workpiece materials.

Fix-Perfect Beyond inserts are the ideal solution to machining operations in a multitude of industries, including fluid power, energy, automotive, heavy equipment, and general engineering applications.

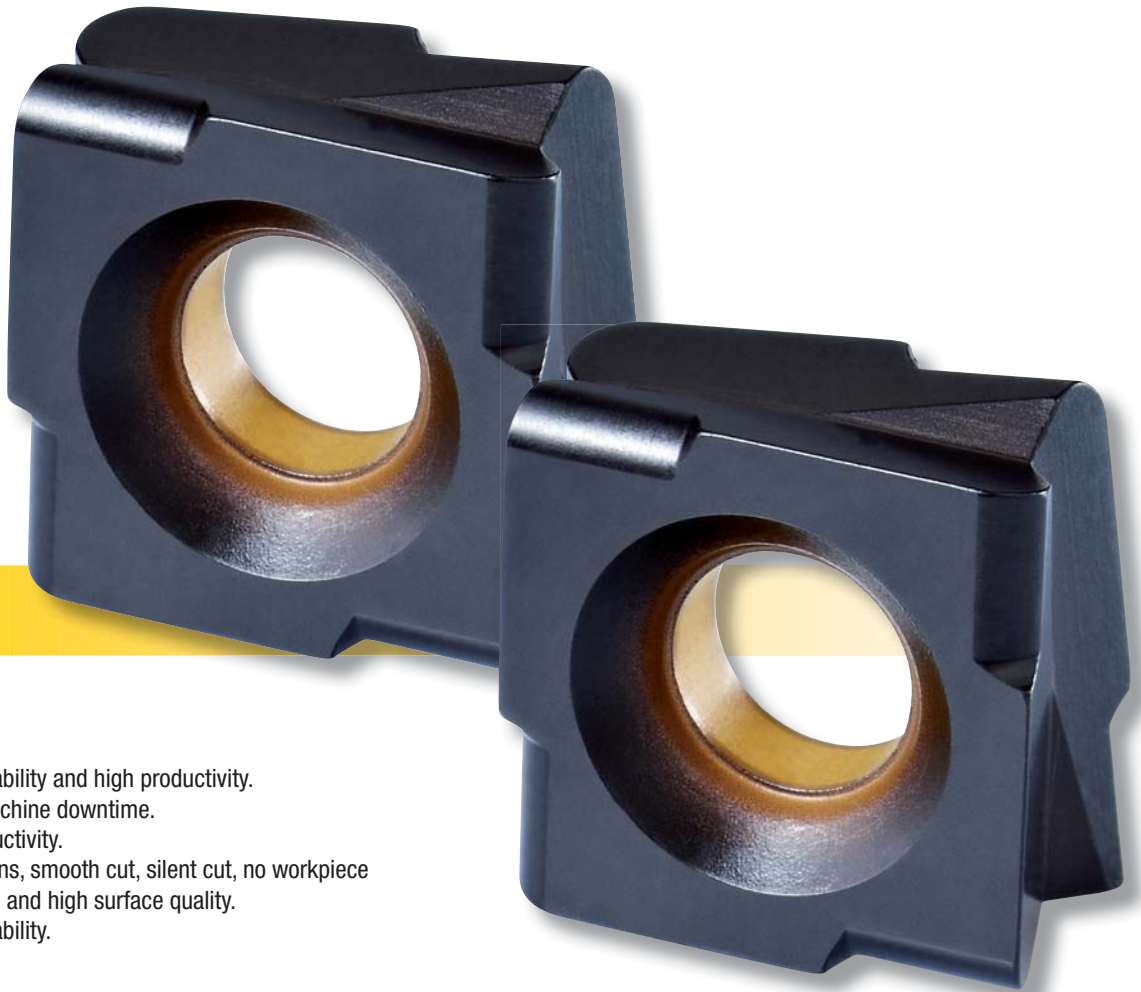
Features, Functions, and Benefits

Features

- Tangential design.
- Rigid clamping system.
- Up to eight cutting edges (protected by pocket seat).
- Positive geometry.
- Precision ground insert.

Functions

- Stable system.
- Very stable clamping system and quick and easy cutting edge switch.
- Use up to eight edges per insert.
- Very low cutting forces and excellent chip control.
- Better indexing accuracy.

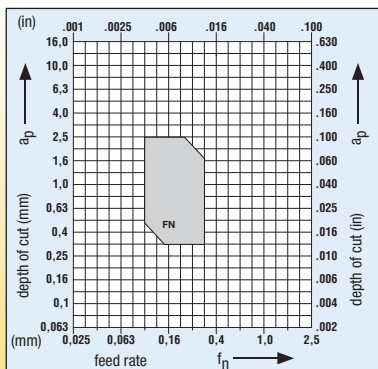
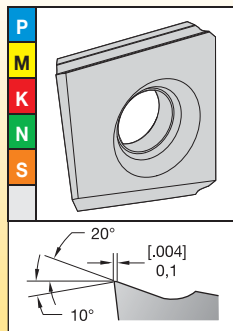


Benefits

- Process reliability and high productivity.
- Reduced machine downtime.
- Higher productivity.
- Low vibrations, smooth cut, silent cut, no workpiece deformation, and high surface quality.
- Process reliability.

Finishing

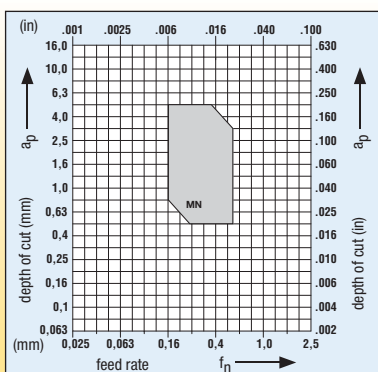
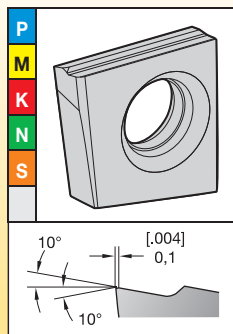
D2FIX-FN



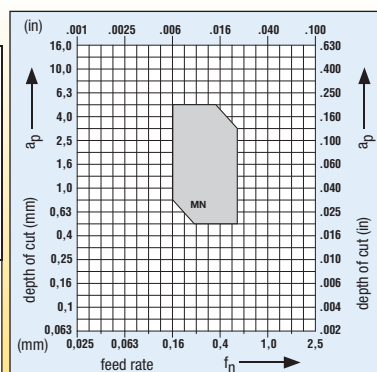
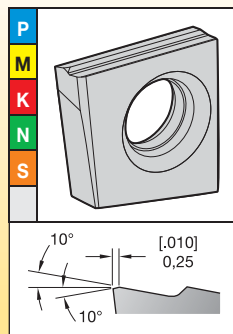
P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous Materials
S	High-Temp Alloys
H	Hardened Materials

Medium Machining

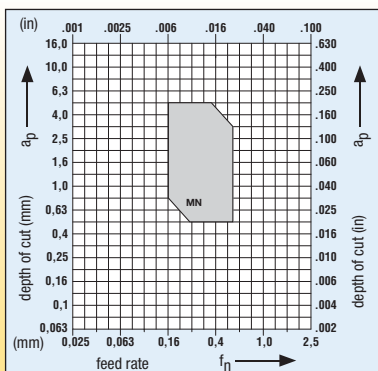
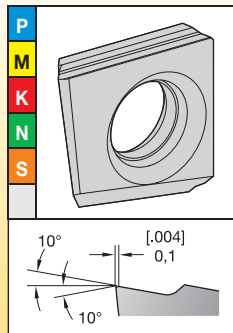
C2FIX15-MN



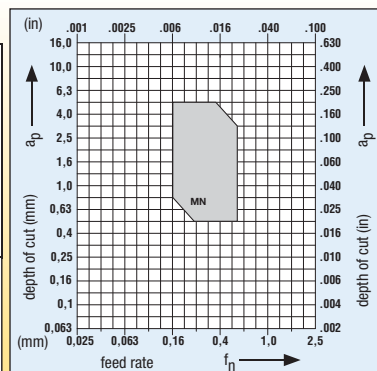
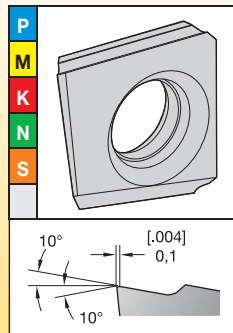
C2FIX18-MN



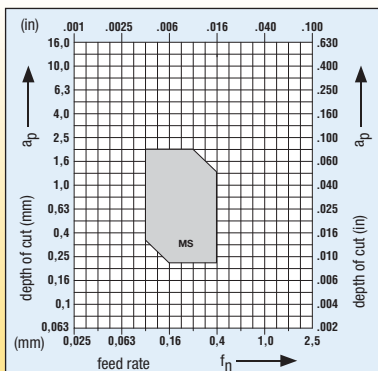
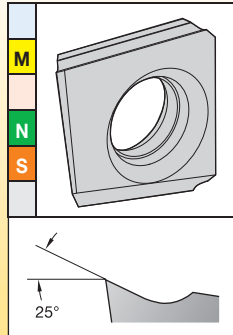
D2FIX-MN



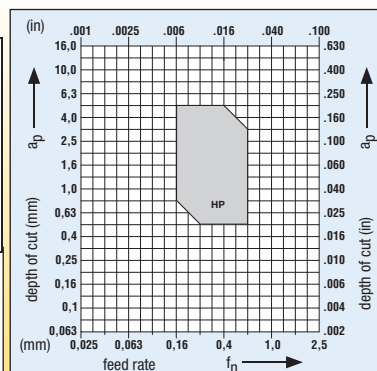
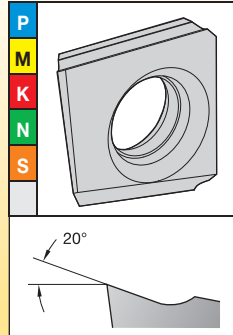
K2FIX-MN



D2FIX-MS

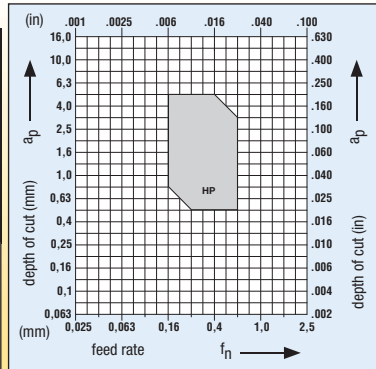
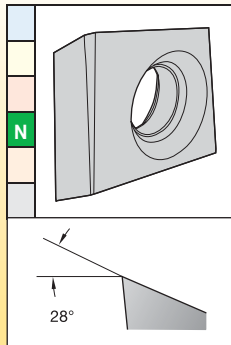


D2FIX-HP



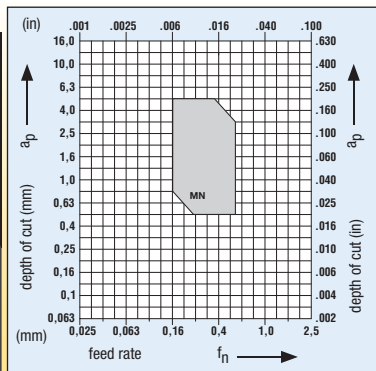
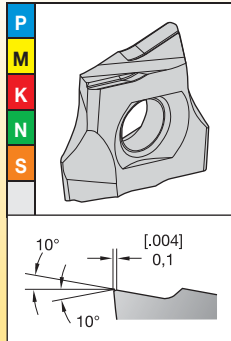
Medium Machining

E2FIX-HP

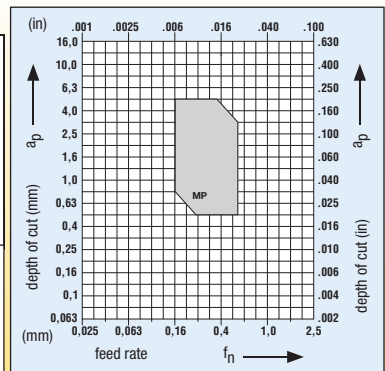
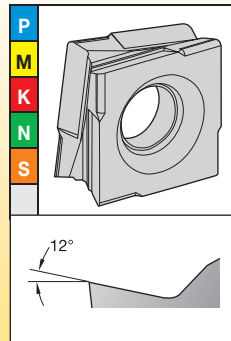


P	Steel
M	Stainless Steel
K	Cast Iron
N	Non-Ferrous Materials
S	High-Temp Alloys
H	Hardened Materials

D4FIX-MN

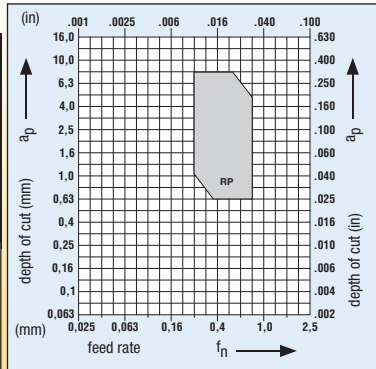
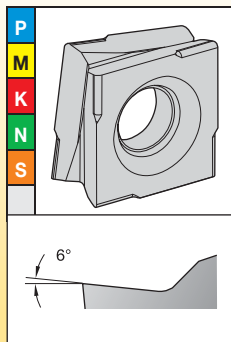


C8FIX-MP

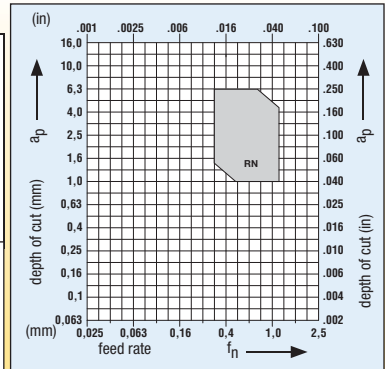
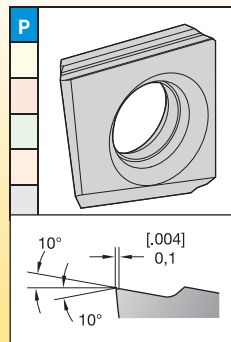


Roughing

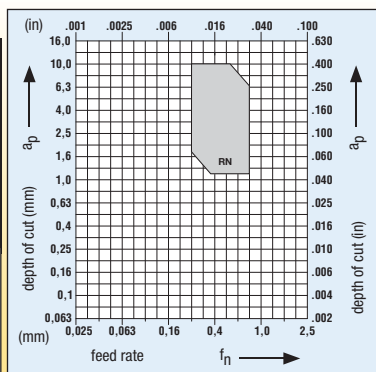
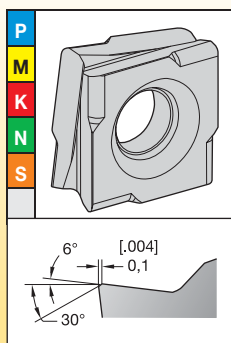
C8FIX-RP



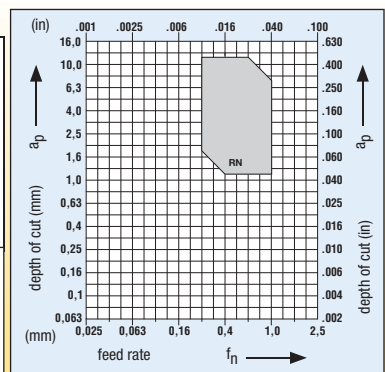
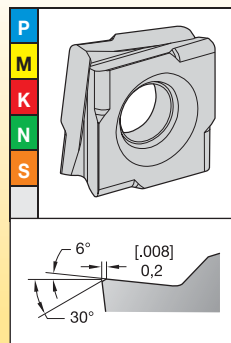
D2FIX-RN



C8FIX15-RN



C8FIX18-RN

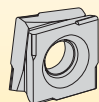


Select the Insert Geometry

8-Edged Inserts

Roughing

Interrupted cut and/or heavy scale
USE: -RP OR -RN



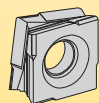
-RP



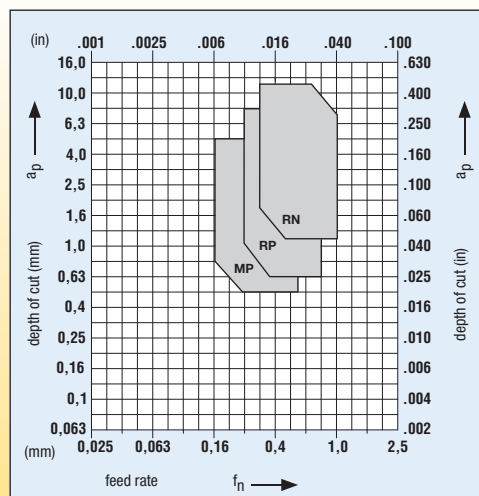
-RN

Medium Turning

Slightly interrupted cut and/or slight scale
USE: -MP



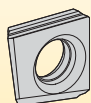
-MP



2- and 4-Edged Inserts

Roughing

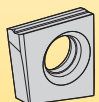
Interrupted cut and/or heavy scale
USE: -RN



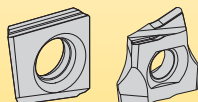
-RN

Medium Turning

Slightly interrupted cut and/or slight scale
USE: -MN



-MN

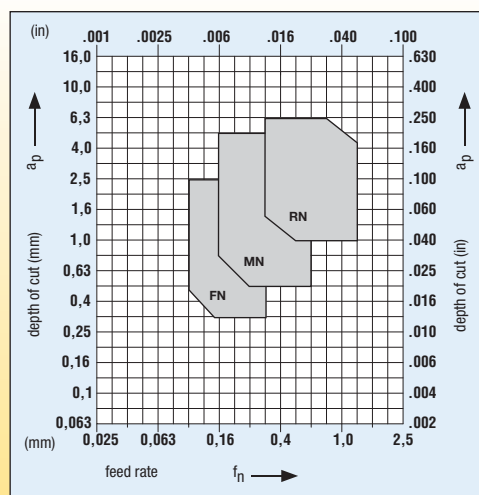


Finishing

Non-interrupted cut, not scale
USE: -FN



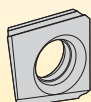
-FN



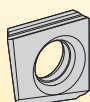
2-Edged Inserts, High Positive

Medium Turning

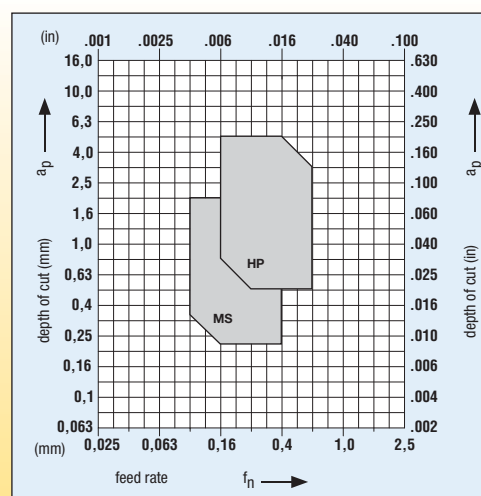
Slightly interrupted cut and/or slight scale
USE: -HP OR -MS



-HP



-MS



Select the grade

	P	M	K	N	S	H
heavily interrupted	KCP40/KCU25	KCU25/KCP40	KCP25/KCU25	KCU25	KCU25	—
lightly interrupted	KCP25/KCU25	KCU25/KCP40	KCP25/KCU25	KCU25	KCU25	—
varying depths of cut	KCP10/KCU10	KCU10/KCM15	KCP10/KCU10	KCU10	KCU10	KCU10
smooth	KCP10/KCU10	KCU10/KCM15	KCP10/KCU10	KCU10	KCU10	KCU10

Select the cutting speed

Steel		speed — m/min (SFM)									starting conditions	
material group	grade	60 (200)	90 (300)	120 (400)	105 (500)	185 (617)	215 (717)	245 (800)	275 (900)	300 (1000)	m/min	SFM
P	KCP40	◇									150	500
	KCU10	◇									200	650
	KCP25	◇									200	650
	KCP10	◇									250	180

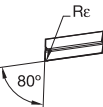
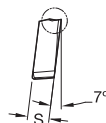
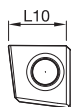
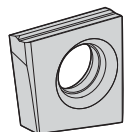
Stainless Steel		speed — m/min (SFM)									starting conditions	
material group	grade	45 (150)	70 (233)	90 (300)	115 (383)	140 (467)	165 (550)	185 (617)	210 (700)	230 (767)	m/min	SFM
M	KCP40	◇									140	450
	KCM15	◇									165	550
	KCU25	◇									165	550
	KCU10	◇									185	600

Cast Iron		speed — m/min (SFM)									starting conditions	
material group	grade	90 (300)	135 (450)	180 (600)	225 (750)	275 (900)	320 (1050)	360 (1200)	410 (1350)	460 (1500)	m/min	SFM
K	KCU25	◇									140	450
	KCU10	◇									165	550
	KCP25	◇									165	550
	KCP10	◇									185	600

Non-Ferrous		speed — m/min (SFM)									starting conditions	
material group	grade	150 (500)	225 (750)	300 (1000)	380 (1267)	460 (1533)	535 (1783)	610 (2033)	685 (2283)	760 (2533)	m/min	SFM
N	KCU10	◇									460	1500

High-Temperature Alloys		speed — m/min (SFM)									starting conditions	
material group	grade	35 (117)	45 (150)	55 (183)	65 (217)	75 (250)	85 (283)	95 (317)	120 (400)	140 (467)	m/min	SFM
S	KCU25	◇									45	150
	KCU10	◇									60	200

Hardened Steel		speed — m/min (SFM)									starting conditions	
material group	grade	5 (17)	15 (50)	25 (83)	35 (117)	45 (150)	55 (183)	65 (217)	75 (250)	85 (283)	m/min	SFM
H	KCU10	◇									30	100



- first choice
- alternate choice

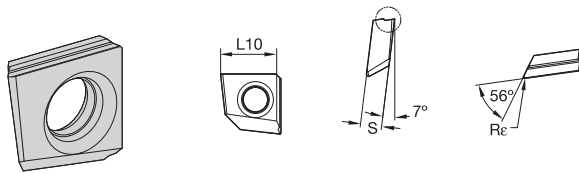
beyond

P	●	●	●	●	●	●	●
M	○	○	○	○	○	○	○
K	●	●	●	●	●	●	●
N	○	○	○	○	○	○	○
S	○	○	○	○	○	○	○
H	○	○	○	○	○	○	○

C2FIX-MN

Application Specific

	L10		S		Rε		KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
catalog number	mm	in	mm	in	mm	in						
right hand												
C2FIX110404RMN	10,70	.423	4,00	.157	0,40	.016	-	-	-	-	●	-
C2FIX110405RMN	10,70	.432	4,00	.157	0,50	.020	-	●	●	-	-	-
C2FIX150510RMN	14,50	.572	5,00	.197	1,00	.039	-	●	-	-	-	-
C2FIX150512RMN	14,50	.571	5,00	.197	1,20	.048	-	-	-	-	-	●
C2FIX150505RMN	14,70	.578	5,00	.197	0,50	.020	-	●	-	-	-	-
left hand												
C2FIX110404LMN	10,70	.423	4,00	.157	0,40	.016	-	-	-	-	-	●
C2FIX110405LMN	10,70	.423	4,00	.157	0,50	.020	-	●	●	-	●	-
C2FIX110408LMN	10,70	.419	4,00	.157	0,80	.032	-	●	-	-	-	-
C2FIX150510LMN	14,50	.571	5,00	.197	1,00	.039	-	●	●	-	-	-
C2FIX150508LMN	14,60	.574	5,00	.197	0,80	.032	-	●	-	-	●	●
C2FIX150504LMN	14,70	.578	5,00	.197	0,40	.016	-	-	●	-	-	●
C2FIX150505LMN	14,70	.578	5,00	.197	0,50	.020	-	●	●	-	●	-
C2FIX180610LMN	17,50	.689	6,00	.236	1,00	.039	-	●	●	-	●	-

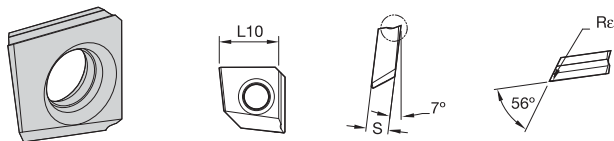
beyond


- first choice
- alternate choice

P	●	●	●	●	●	●
M	○	○	○	●	●	●
K	●	●	●	●	●	●
N	●	●	●	○	○	○
S	○	○	○	○	○	○
H	○	○	○	○	○	○

■ D2FIX-MN

	L10		S		Rε							
catalog number	mm	in	mm	in	mm	in	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
right hand												
D2FIX110405RMN	10,50	.413	4,00	.157	0,50	.020	-	●	●	-	-	-
D2FIX150508RMN	14,20	.560	5,00	.197	0,80	.032	-	●	-	-	-	-
D2FIX150505RMN	14,50	.571	5,00	.197	0,50	.020	●	●	●	-	-	-
D2FIX150504RMN	14,60	.575	5,00	.197	0,40	.016	-	●	-	-	-	-
D2FIX150503RMN	14,70	.579	5,00	.197	0,30	.012	-	●	-	-	-	-
left hand												
D2FIX110405LMN	10,50	.413	4,00	.157	0,50	.020	-	●	●	-	-	-
D2FIX150508LMN	14,20	.560	5,00	.197	0,80	.032	-	●	-	-	-	-
D2FIX150505LMN	14,50	.571	5,00	.197	0,50	.020	-	●	-	-	-	-

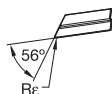
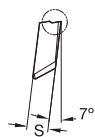
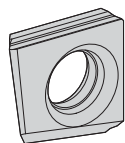


■ D2FIX-HP

	L10		S		Re		KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
catalog number	mm	in	mm	in	mm	in						
right hand												
D2FIX110404RHP	10,00	.394	4,00	.157	0,40	.016	-	-	-	-	-	●
D2FIX110403RHP	10,10	.396	4,00	.157	0,30	.012	-	●	-	-	●	-
D2FIX150508RHP	13,60	.535	5,00	.197	0,80	.032	-	-	-	-	●	●
D2FIX150504RHP	14,00	.551	5,00	.197	0,40	.016	-	-	-	-	●	●
D2FIX150503RHP	14,10	.554	5,00	.197	0,30	.012	-	●	-	-	●	-
left hand												
D2FIX110403LHP	10,10	.396	4,00	.157	0,30	.012	-	-	-	-	●	-
D2FIX150508LHP	13,60	.535	5,00	.197	0,80	.032	-	-	-	-	●	-
D2FIX150503LHP	14,10	.554	5,00	.197	0,30	.012	-	-	-	-	●	-

Application Specific

beyond

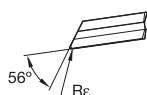
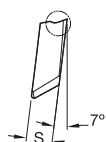
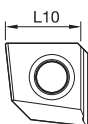
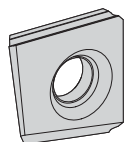


- first choice
- alternate choice

P	●	●	●	●	●	●	●
M	○	○	○	○	○	○	○
K	●	●	●	●	●	●	●
N	○	○	○	○	○	○	○
S	○	○	○	○	○	○	○
H	○	○	○	○	○	○	○

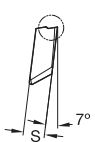
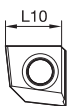
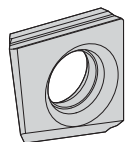
D2FIX-MS

catalog number	L10		S		Rε		KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
	mm	in	mm	in	mm	in						
right hand												
D2FIX150505RMS	13,90	.549	5,00	.197	0,50	.020	-	-	-	-	●	-
D2FIX150503RMS	14,10	.554	5,00	.197	0,30	.012	-	-	-	-	●	-
left hand												
D2FIX150505LMS	13,90	.549	5,00	.197	0,50	.020	-	-	-	-	●	-
D2FIX150503LMS	14,10	.554	5,00	.197	0,30	.012	-	-	-	-	●	-



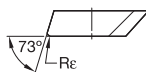
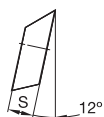
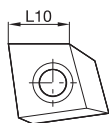
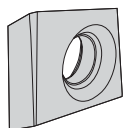
D2FIX-FN

	L10		S		Re		KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
catalog number	mm	in	mm	in	mm	in						
right hand												
D2FIX150505RFN	13.90	.549	5.00	.197	0.50	.020	-	●	-	-	●	-



D2FIX-RN

	L10		S		Re		KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
catalog number	mm	in	mm	in	mm	in						
right hand												
D2FIX150505RRN	14,50	.571	5,00	.197	0,50	.020	●	-	●	-	-	-
left hand												
D2FIX150505LRN	14,50	.571	5,00	.197	0,50	.020	-	●	-	-	-	-

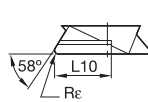
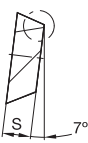
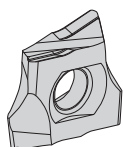
beyond


- first choice
- alternate choice

P	●	●	●	●	●	●
M	○	○	○	○	○	○
K	●	●	●	●	●	●
N	○	○	○	○	○	○
S	○	○	○	○	○	○
H	○	○	○	○	○	○

E2FIX-HP

catalog number	L10		S		Re		KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
	mm	in	mm	in	mm	in						
right hand												
E2FIX100505RHP	10,50	.413	5,00	.197	0,50	.020	-	-	-	-	●	-
left hand												
E2FIX100505LHP	10,50	.413	5,00	.197	0,50	.020	-	-	-	-	●	-

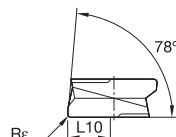
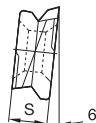
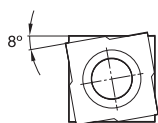
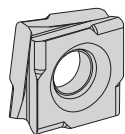


D4FIX-MN

catalog number	L10		S		Re		KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
	mm	in	mm	in	mm	in						
right hand												
D4FIX140608RMN	6,70	.264	5,90	.233	0,80	.031	●	●	-	-	●	●
D4FIX140605RMN	7,00	.276	5,90	.233	0,50	.020	●	●	-	-	-	-
D4FIX140604RMN	7,10	.280	5,90	.233	0,40	.016	-	-	●	-	-	●
D4FIX140603RMN	7,20	.283	5,90	.232	0,30	.012	●	●	-	-	-	-
left hand												
D4FIX140608LMN	6,70	.264	5,90	.233	0,80	.031	-	●	-	-	-	-

Application Specific

beyond



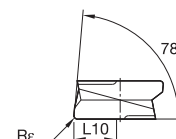
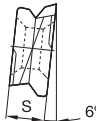
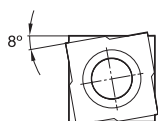
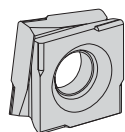
- first choice
- alternate choice

P	●	●	●	●	●	●
M	○	○	○	○	○	○
K	●	●	●	●	●	●
N	●	●	●	●	●	●
S	○	○	○	○	○	○
H	●	●	●	●	●	●

■ C8FIX-RN

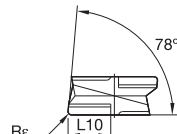
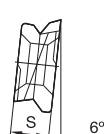
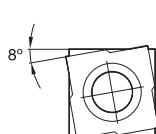
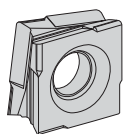
Application Specific

catalog number	L10		S		Re		KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
	mm	in	mm	in	mm	in						
right hand												
C8FIX150612RRN	8,60	.339	6,60	.260	1,20	.047	-	●	-	-	-	-
C8FIX150608RRN	8,90	.350	6,60	.260	0,80	—	●	●	●	-	-	●
C8FIX150605RRN	9,10	.358	6,60	.260	0,50	.020	●	●	●	-	●	●
C8FIX180812RRN	10,60	.417	7,90	.311	1,20	—	-	●	●	-	-	●
C8FIX180808RRN	10,90	.429	7,90	.311	0,80	—	-	●	●	-	-	-
left hand												
C8FIX150612LRN	8,60	.339	6,60	.260	1,20	.047	-	●	-	-	-	-
C8FIX150608LRN	8,90	.350	6,60	.260	0,80	—	-	●	-	-	-	●
C8FIX150605LRN	9,10	.358	6,60	.260	0,50	.020	-	●	●	-	-	●
C8FIX180812LRN	10,60	.417	7,90	.311	1,20	—	-	●	-	-	-	-



■ C8FIX-RP

catalog number	L10		S		Re		KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
	mm	in	mm	in	mm	in						
right hand												
C8FIX120508RRP	6,90	.272	5,50	.217	0,80	.031	●	●	-	-	-	-
C8FIX120505RRP	7,10	.280	5,50	.217	0,50	.020	-	●	-	-	-	●
C8FIX120504RRP	7,20	.283	5,50	.217	0,40	.016	●	●	-	-	-	-
C8FIX120503RRP	7,30	.287	5,50	.217	0,30	.012	-	●	●	-	-	-
left hand												
C8FIX120508LRP	6,90	.272	5,50	.217	0,80	.031	-	●	●	-	-	-
C8FIX150612LRP	7,80	.306	6,60	.260	1,20	.047	-	●	-	-	-	-
C8FIX150608LRP	8,80	.345	6,60	.260	0,80	.031	-	-	-	-	-	●



- first choice
- alternate choice

P	●	●	●	●	●	●
M	○	○	○	●	●	●
K	●	●	●	●	●	●
N	●	●	●	●	●	●
S	○	○	○	○	○	○
H	●	●	●	●	●	●
	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25

■ C8FIX-MP

	L10		S		Rε			KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
catalog number	mm	in	mm	in	mm	in							
right hand													
C8FIX120503RMP	7,30	.287	5,50	.217	0,30	.012	-	●	-	-	●	●	
C8FIX150603RMP	9,30	.366	6,60	.260	0,30	.012	●	●	●	-	-	●	●
C8FIX180805RMP	11,10	.437	7,90	.311	0,50	.020	-	●	-	-	-	-	●
left hand													
C8FIX120503LMP	7,30	.287	5,50	.217	0,30	.012	●	●	-	-	-	●	-
C8FIX150603LMP	9,30	.366	6,60	.260	0,30	.012	-	●	-	-	-	-	-

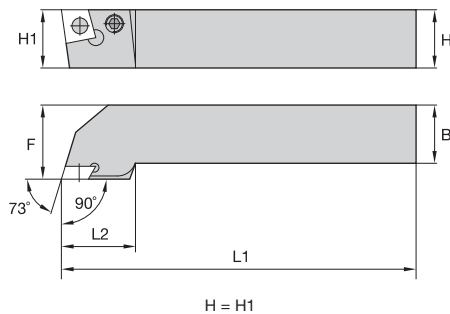
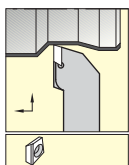
Application Specific

How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding image to easily identify which attributes apply.

Fix-Perfect™ Toolholders									
catalog number	H	B	L1	F	size insert	clamp stud	clamping screw	hex wrench	
right hand	1.00	1.00	6.00	.750	CDFX15, R.	112.404	121.616	170.003	
117125R330Z									

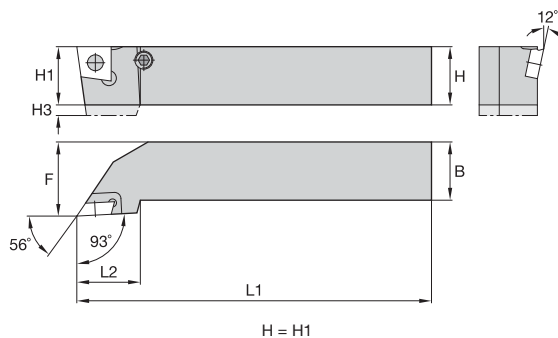
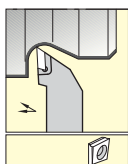
Metric/Inch	1	1	71	25	R	3	3	0	Z																				
Turning Program	1 = Fix-Perfect	Number of Cutters	Version	Shaft Dimensions	Direction of Working	Insert Size and Type	Insert Shape	Clamping Screw Support	Inch Toolholder																				
	1 = Inserts with 2 cutting edges 3 = Inserts with 4 cutting edges 7 = Inserts with 8 cutting edges				R = Right L = Left			0 = Activated from main cutting edge 1 = Minor cutting edge 2 = Above 5 = Main cutting edge with sharp-edged full cartridge 6 = Minor cutting edge with sharp-edged full cartridge																					
	08 = 90° or 93° setting, for machining aluminum 16 = 92° setting angle 20 = 92° setting angle 22 = 92° setting angle	30 = 75° setting angle 71 = 75° setting angle 72 = 45° setting angle 77 = 90° setting angle 80 = 90° or 93° setting angle																											
		Toolholder 10 = 10 x 10mm 11 = 40 x 40mm 16 = 16 x 16mm 20 = 20 x 20mm 21 = 50 x 50mm 25 = 25 x 25mm 32 = 32 x 25mm 32 x 32mm 40 = 40 x 32mm				<table border="1"> <thead> <tr> <th></th> <th>L</th> <th>cutting edges</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>8mm 20mm 25mm</td> <td>4 4 4</td> </tr> <tr> <td>1</td> <td>10,5mm 12mm</td> <td>2 8</td> </tr> <tr> <td>3</td> <td>14,5mm 15mm</td> <td>2 8</td> </tr> <tr> <td>4</td> <td>17,5mm 18mm</td> <td>2 8</td> </tr> <tr> <td>5</td> <td>23,5mm 21mm</td> <td>2 8</td> </tr> <tr> <td>7</td> <td>10,5mm</td> <td>2 Alu</td> </tr> </tbody> </table>		L	cutting edges	0	8mm 20mm 25mm	4 4 4	1	10,5mm 12mm	2 8	3	14,5mm 15mm	2 8	4	17,5mm 18mm	2 8	5	23,5mm 21mm	2 8	7	10,5mm	2 Alu		
	L	cutting edges																											
0	8mm 20mm 25mm	4 4 4																											
1	10,5mm 12mm	2 8																											
3	14,5mm 15mm	2 8																											
4	17,5mm 18mm	2 8																											
5	23,5mm 21mm	2 8																											
7	10,5mm	2 Alu																											



■ **1.108...90° • Metric**

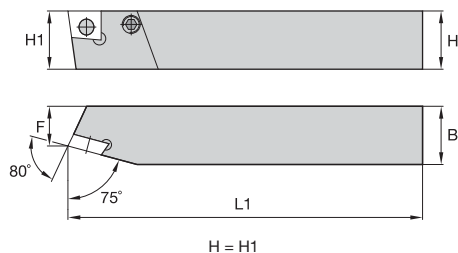
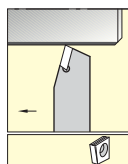
catalog number	H	B	L1	F	gage insert	 clamp stud	 clamping screw	 hex wrench
right hand								
1.10825R700	25	25	150,0	32,0	E2FIX10..R..	410.081	121.616	170.003

Application Specific



■ **1.108...93° • Metric**

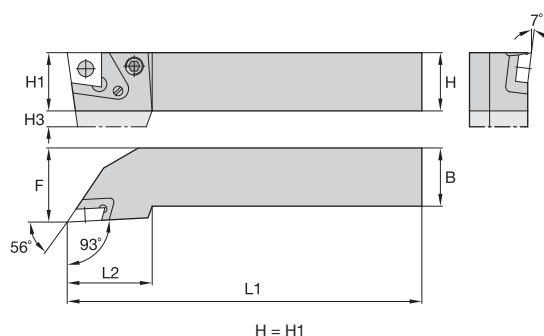
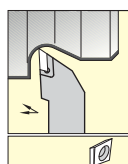
catalog number	H	H3	B	L1	F	gage insert	 clamp stud	 clamping screw	 hex wrench
right hand									
1.10820R310	20	5	20	125,0	25,0	D2FIX15..RHP/FN/MS	112.403	121.612	170.003
1.10825R310	25	—	25	150,0	32,0	D2FIX15..RHP/FN/MS	112.404	121.616	170.003
left hand									
1.10825L310	25	5	25	150,0	32,0	D2FIX15..LHP/FN/MS	112.404	121.616	170.003



■ 1.171...75° • Metric



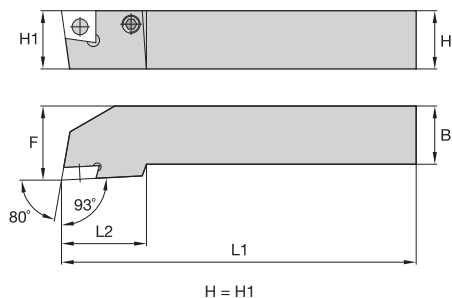
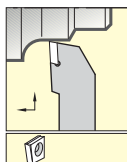
catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
left hand								
1.17125L330	25	25	150,0	17,0	C2FIX15..L..	112.404	121.616	170.003



■ 1.18 • Metric



catalog number	H	H3	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench	steel nest assembly
right hand										
1.18016R110	16	4	16	100,0	24,0	D2FIX11..R..	112.244	121.612	170.003	—
1.18020R110	20	—	20	125,0	25,0	D2FIX11..R..	112.244	121.612	170.003	—
1.18020R310	20	5	20	125,0	26,0	D2FIX15..R..	112.403	121.612	170.003	—
1.18025R110	25	—	25	150,0	32,0	D2FIX11..R..	112.244	121.612	170.003	—
1.18025R310	25	—	25	150,0	32,0	D2FIX15..R..	112.404	121.616	170.003	—
1.18025R315	25	7	25	150,0	32,0	D2FIX15..R..	112.505	121.616	170.003	132.151
1.18032R315	32	—	25	170,0	32,0	D2FIX15..R..	112.505	121.616	170.003	132.151
left hand										
1.18016L110	16	4	16	100,0	24,0	D2FIX11..L..	112.244	121.612	170.003	—
1.18020L110	20	—	20	125,0	25,0	D2FIX11..L..	112.244	121.612	170.003	—
1.18025L310	25	—	25	150,0	32,0	D2FIX15..L..	112.404	121.616	170.003	—
1.18025L315	25	7	25	150,0	32,0	D2FIX15..L..	112.505	121.616	170.003	132.156
1.18032L315	32	—	25	170,0	32,0	D2FIX15..L..	112.505	121.616	170.003	132.156

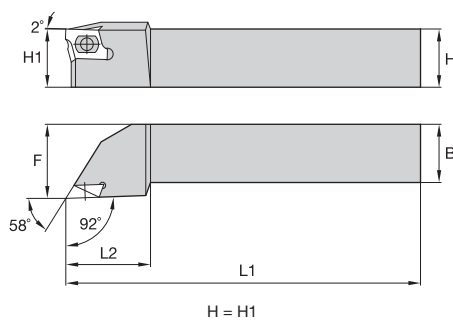
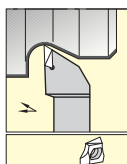


■ 1.180...93° • Metric

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
left hand								
1.18025L330	25	25	150,0	32,0	C2FIX15..L..	112.404	121.616	170.003



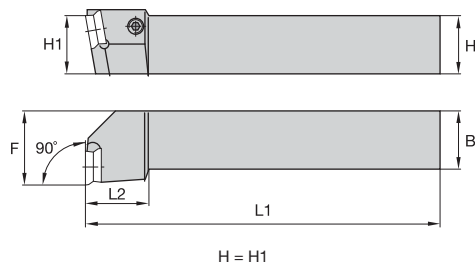
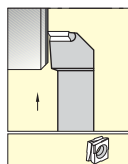
Application Specific



■ 1.380...92° • Metric

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.38020R021	20	20	125,0	25,0	D4FIX..R..	114.111	121.812	170.004
1.38025R021	25	25	150,0	32,0	D4FIX..R..	114.114	121.816	170.004
left hand								
1.38025L021	25	25	150,0	32,0	D4FIX..L..	114.114	121.816	170.004



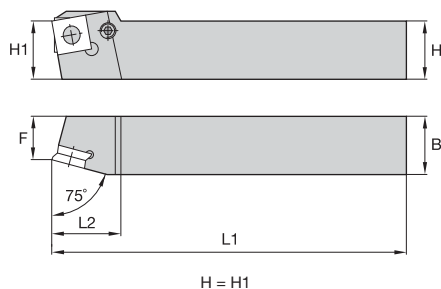
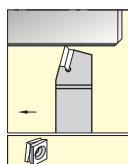


■ 1.777...90° • Metric



catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.77725R301	25	25	150,0	32,0	C8FIX15..L..	118.314	121.816	170.004

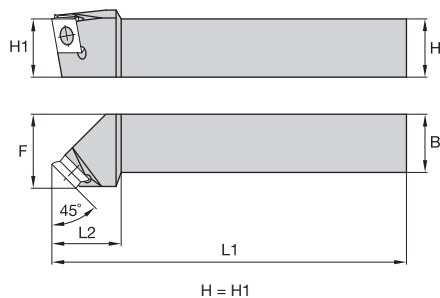
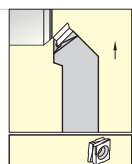
NOTE: Right-hand tool requires left-hand insert.



■ 1.771...75° • Metric



catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.77120R100	20	20	125,0	17,0	C8FIX12..R..	118.204	121.612	170.003
1.77125R300	25	25	150,0	21,0	C8FIX115..R..	410.084	121.816	170.004
1.77132R400	32	32	170,0	27,0	C8FIX18..R..	410.091	—	—
left hand								
1.77120L100	20	20	125,0	17,0	C8FIX12..L..	118.204	121.612	170.003

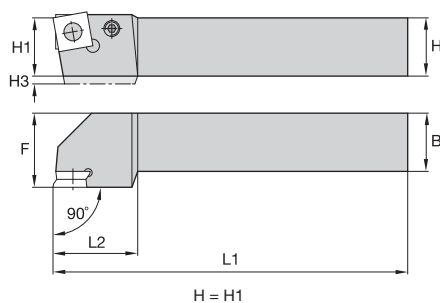
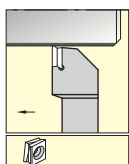


■ 1.772...45° • Metric

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.7725R301	25	25	150,0	32,0	C8FIX15..L..	118.314	121.816	170.004

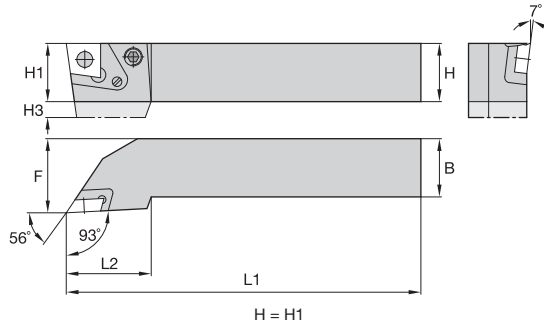
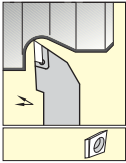
NOTE: C8FIX15..L.. is usable for plunging only.
For both plunging and turning, C4FIX15..L.. has to be used.

Application Specific



■ 1.780...90° • Metric

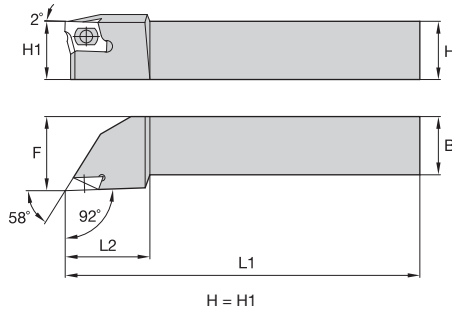
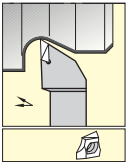
catalog number	H	H3	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand									
1.78012R103	12	—	12	80,0	14,0	C8FIX12..R..	—	—	170.003
1.78016R100	16	4	16	100,0	25,0	C8FIX12..R..	118.204	121.616	170.003
1.78020R100	20	—	20	125,0	25,0	C8FIX12..R..	118.204	121.616	170.003
1.78025R100	25	—	25	150,0	32,0	1.81201R...	118.204	121.616	170.003
1.78025R300	25	—	25	150,0	32,0	C8FIX15..R..	410.084	121.816	170.004
1.78032R400	32	—	32	170,0	40,0	C8FIX18..R..	410.091	121.825	170.004
left hand									
1.78025L100	25	—	25	150,0	32,0	1.81202L...	118.204	121.616	170.003
1.78025L300	25	—	25	150,0	32,0	C8FIX15..L..	410.084	121.816	170.004



■ 1.18 • Inch

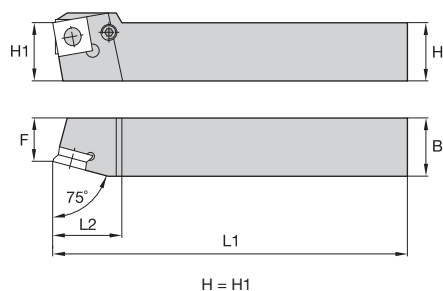
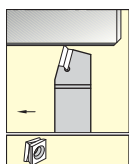
Application Specific

catalog number	H	B	L1	F	gage insert	 clamp stud	 clamping screw	 hex wrench
right hand								
1.18025R310Z	1.00	1.00	6.00	1.250	D2FIX15..R..	112.404	121.616	170.003



■ 1.380...92° • Inch

catalog number	H	B	L1	F	gage insert	 clamp stud	 clamping screw	 hex wrench
right hand								
1.38025R021Z	1.00	1.00	6.00	1.250	D4FIX..R..	114.114	121.816	170.004

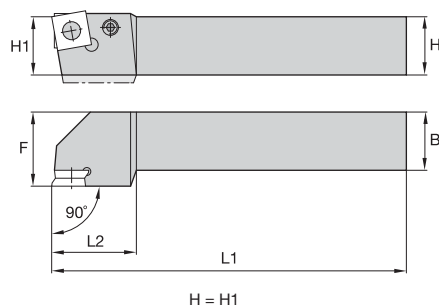
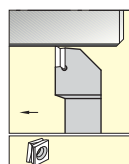


■ 1.771...75° • Inch

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.77125R300Z	1.00	1.00	6.00	.875	C8FIX15..R..	410.084	121.816	170.004



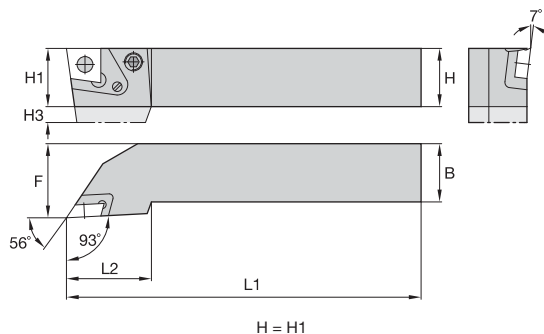
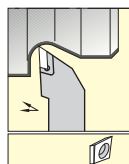
Application Specific



■ 1.78...90° • Inch

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.78025R300Z	1.00	1.00	6.00	1.250	C8FIX15..R..	410.084	121.816	170.004
left hand								
1.78025L300Z	1.00	1.00	6.00	1.250	C8FIX15..L..	410.084	121.816	170.004
1.78032L400Z	1.25	1.25	7.00	1.500	C8FIX18..L..	410.091	121.825	170.004

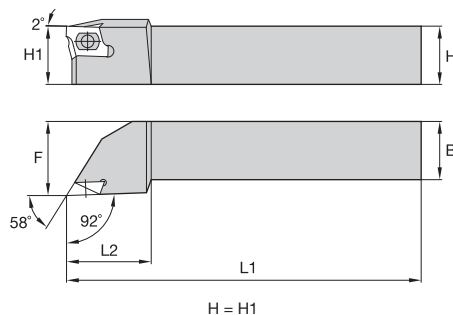
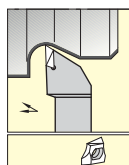




■ 1.18 • Inch

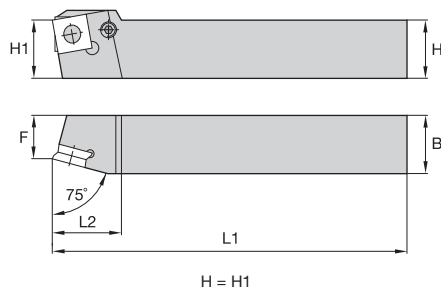
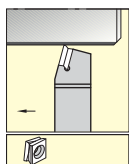
Application Specific

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.18025R310Z	1.00	1.00	6.00	1.250	D2FIX15..R..	112.404	121.616	170.003



■ 1.380...92° • Inch

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.38025R021Z	1.00	1.00	6.00	1.250	D4FIX..R..	114.114	121.816	170.004

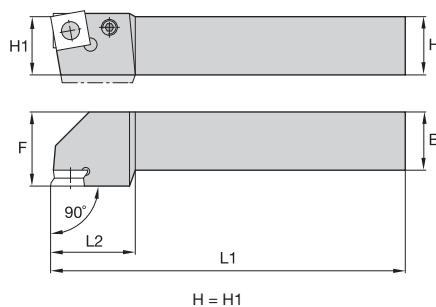
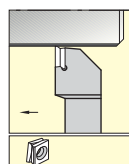


■ 1.771...75° • Inch

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.77125R300Z	1.00	1.00	6.00	.875	C8FIX15..R..	410.084	121.816	170.004



Application Specific



■ 1.78...90° • Inch

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.78025R300Z	1.00	1.00	6.00	1.250	C8FIX15..R..	410.084	121.816	170.004
left hand								
1.78025L300Z	1.00	1.00	6.00	1.250	C8FIX15..L..	410.084	121.816	170.004
1.78032L400Z	1.25	1.25	7.00	1.500	C8FIX18..L..	410.091	121.825	170.004

