

Duracarb Milling Line New Product Announcement

DURA FINISH BALL



Smart solution for accurate profile machining

Duracarb has launched its new Insert type finishing end mill - the DURA FINISH BALL for Die & Mold, General Engineering and Aerospace machining. The newly launched line delivers smooth and stable machining performance with excellent runout and precision.

These benefits are directly due to the unique new insert and holder features, with inserts are available as Ball type in diameters of Ø12mm, Ø16mm and Ø20mm.

The DURA FINISH BALL line is characterized by more rigid and secure clamping system of 3 point contact.

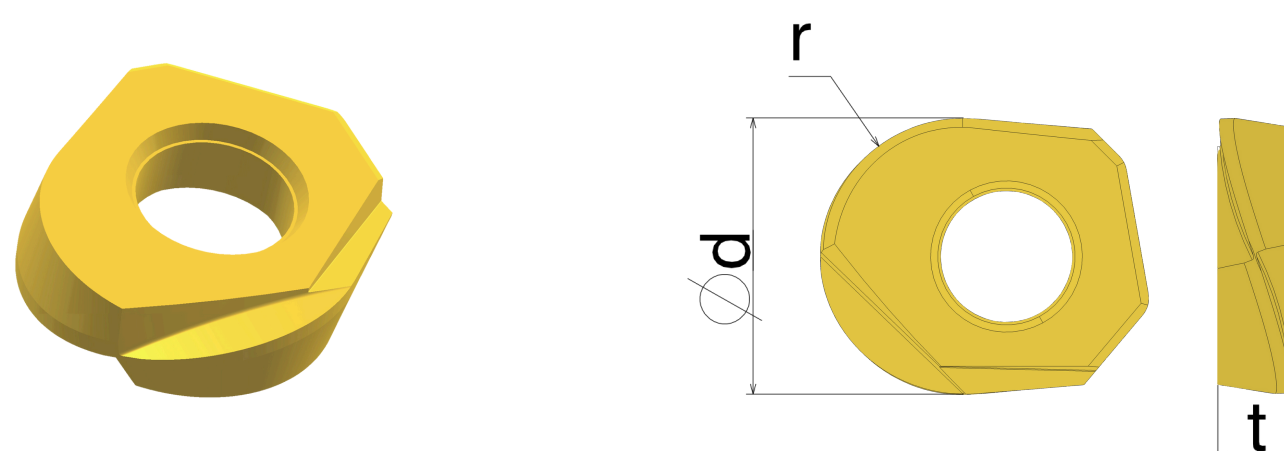
Feature highlights include:

- High helix cutting edge guarantees smooth and stable cutting.
- Demonstrates excellent run-out and precision due to its optimized design.
- Enhanced contact area between insert and cutter body provides stable clamping and rigidity.
- Insert's asymmetric structure is designed for accurate clamping and fool proof mounting.



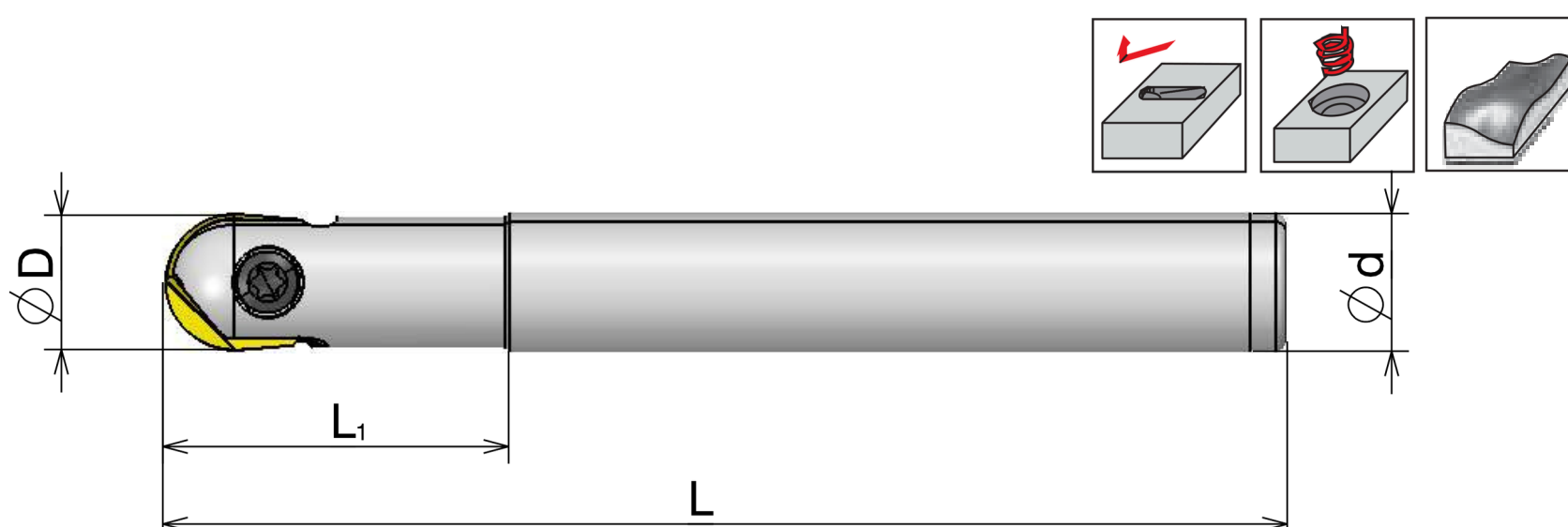
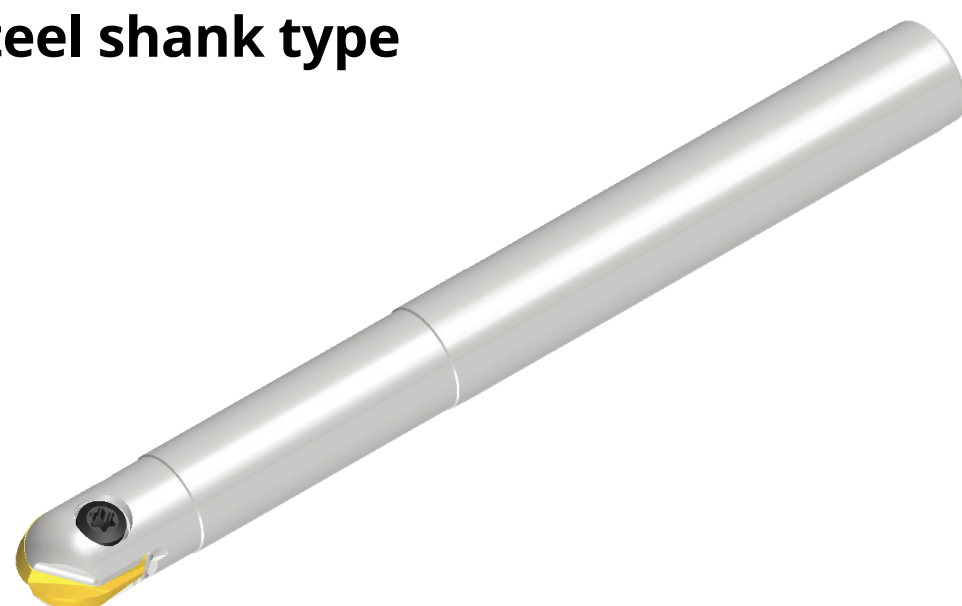
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DFB Ball nose insert



Designation	Dimension (mm)			Grade	Application
	D	t	r	DP5320	End Mill
DFB D120-SM	12	3.2	6	•	DFBE □□□-□□-□□□□ DFBE □□□-□□-CT-□□□□
DFB D160-SM	16	4.2	8	•	
DFB D200-SM	20	5.5	10	•	

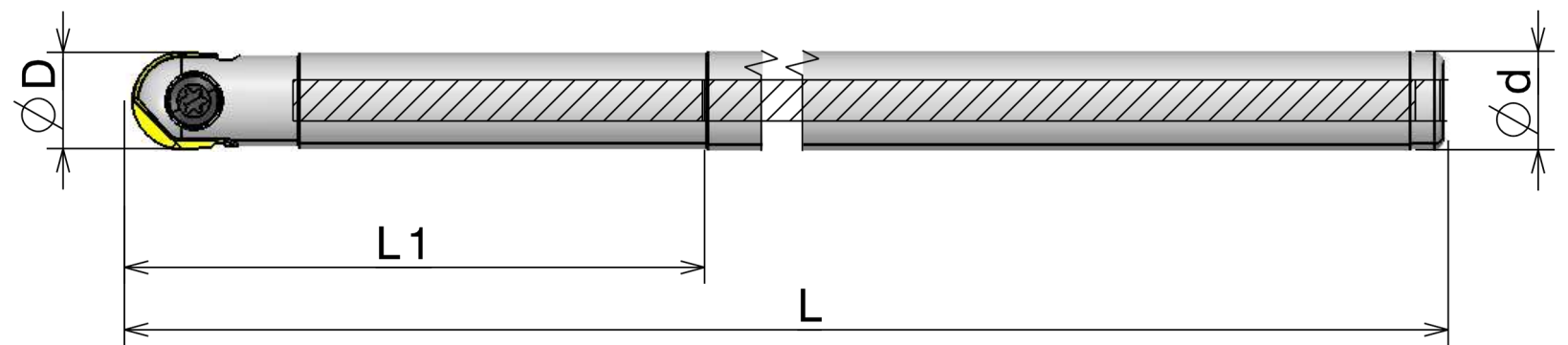
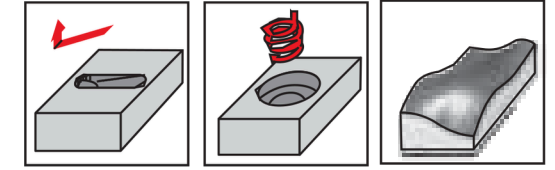
DFBE □□□-□□-□□□□ Steel shank type



Designation	Insert	Dimension (mm)			
		D	d	L	L ₁
DFBE 120-12-L110	DFB D120-SM	12	12	110	30
DFBE 160-16-L130	DFB D160-SM	16	16	130	40
DFBE 200-20-L150	DFB D200-SM	20	20	150	50

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DFBE □□□-□□-CT-L□□□
Tungsten carbide reinforced shank type



Designation	Insert	Dimension (mm)			
		D	d	L	L ₁
DFBE 120-12-CT-L120	DFB D120-SM	12	12	120	30
DFBE 120-12-CT-L200				200	70
DFBE 160-16-CT-L160	DFB D160-SM	16	16	160	70
DFBE 160-16-CT-L220				220	150
DFBE 200-20-CT-L220	DFB D200-SM	20	20	220	120

Spare Parts

Designation	Screw	Wrench	Wrench	Wrench Handle
DFBE 120	DS 40F120A	DTDW-15P	-	-
DFBE 160	DS 50F160A	-	TBLD T20-W6	SW6-T
DFBE 200	DS 60F200A	-	BLD T25/M7	SW6-T

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Recommended Conditions

ISO	Material	Hardness	Axial DOC (mm)	WOC (mm)	Speed (m/min)	Grades	Feed/Edge (mm/tooth)		
							D12	D16	D20
P	Low Carbon Steel Alloy Steel	85-180	0.015D-0.020D	0.015D-0.020D	180-260	DP5320	0.18-0.24	0.24-0.32	0.30-0.40
	High Carbon Steel Alloy Steel	180-280	0.015D-0.020D	0.015D-0.020D	150-230	DP5320	0.18-0.24	0.24-0.32	0.30-0.40
	Prehardened Steel for Mold & Die Tool Steel	400-480	0.015D-0.020D	0.015D-0.020D	180-300	DP5320	0.18-0.24	0.24-0.32	0.30-0.40
M	Stainless Steel	135-200	0.015D-0.020D	0.015D-0.020D	100-250	DP5320	0.12-0.18	0.16-0.24	0.20-0.30
K	Cast Iron	150-240	0.015D-0.020D	0.015D-0.020D	90-350	DP5320	0.18-0.24	0.24-0.32	0.30-0.40
H	High Hardened	480-630	0.015D-0.020D	0.015D-0.020D	100-250	DP5320	0.12-0.18	0.16-0.24	0.20-0.30

