

XIB

Indexable Ball-Nose



Application

1. Copy Milling on Curved Surfaces
2. Profiling / Semi Finishing & Finishing in Die&Mould Application

Product features & benefits

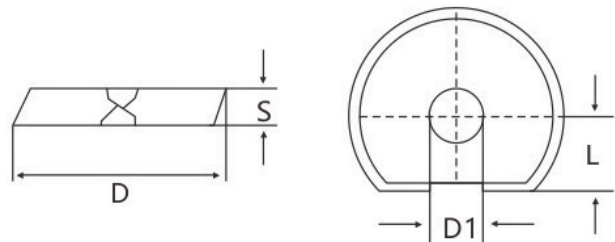
1. Two Grades covering all materials (Soft as well as Hard)
2. High Accuracy Insert Positioning and High Rigidity Clamping
3. Significant reduction in Tooling Cost for semi finish and finishing applications

Grade Details

D: Versatile Substrate with TiAlN coating gives good tool life. Suitable for roughing and semi finishing for all materials, especially steels and cast iron upto HrC 30.

DH: Ultra Fine Grain Substrate with TiSi base coating gives higher toughness and better edge strength. Suitable for roughing semi finishing and Finishing for all materials including stainless steel and hard materials upto HrC 55.

Insert Specification



Part No.	D	D1	L	S	D	DH
XIB - 080	8	3	4	2		●
XIB - 100	10	4	5	2.5		●
XIB - 120	12	5	6	2.5		●
XIB - 160	16	5	6	3	●	●
XIB - 200	20	5	6	3	●	●
XIB - 250	25	6	9	4	●	●
XIB - 300	30	8	10	5		
XIB - 320	32	8	10	5		

Ordering Code XIB - 080 - D | XIB - 080 - DH

Cutter Body Specification

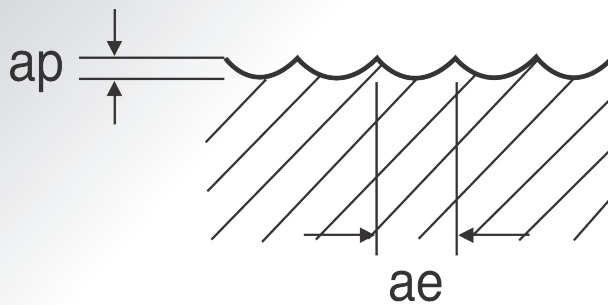
Item Description	D	d	L1	L	Insert	Insert Screw	Wrench	Stock-able
XIBHC12-4R-100L-1T-080	8	12	25	100	XIB-080	M3W7-080	T8B	
XIBHC12-4R-130L-1T-080	8	12	25	130	XIB-080	M3W7-080	T8B	●
XIBHC12-4R-160L-1T-080	8	12	30	160	XIB-080	M3W7-080	T8B	
XIBHC10-5R-100L-1T-100	10	10	30	100	XIB-100	M4W9-100	T15B	
XIBHC12-5R-130L-1T-100	10	12	30	130	XIB-100	M4W9-100	T15B	●
XIBHC12-5R-160L-1T-100	10	12	35	160	XIB-100	M4W9-100	T15B	
XIBHC12-6R-130L-1T-120	12	12	30	130	XIB-120	M5W9-120	T20B	●
XIBHC12-6R-160L-1T-120	12	12	30	160	XIB-120	M5W9-120	T20B	●
XIBHC16-6R-160L-1T-120	12	16	30	160	XIB-120	M5W9-120	T20B	
XIBHC16-8R-120L-1T-160	16	16	30	120	XIB-160	M5W13-160	T20B	●
XIBHC16-8R-160L-1T-160	16	16	30	160	XIB-160	M5W13-160	T20B	●
XIBHC16-8R-180L-1T-160	16	16	35	180	XIB-160	M5W13-160	T20B	
XIBHC16-8R-200L-17-160	16	16	45	200	XIB-160	M5W13-160	T20B	●
XIBHC20-10R-160L-17-200	20	20	30	160	XIB-200	M5W17-200	T20B	
XIBHC20-10R-200L-1T-200	20	20	35	200	XIB-200	M5W17-200	T20B	
XIBHC25-10R-160L-1T-200	20	25	30	160	XIB-200	M5W17-200	T20B	●
XIBHC25-10R-200L-1T-200	20	25	60	200	XIB-200	M5W17-200	T20B	●
XIBHC25-10R-250L-1T-200	20	25	50	250	XIB-200	M5W17-200	T20B	
XIBHC25-12.5R-160L-1T-250	25	25	35	160	XIB-250	M6W12-250	T30M	●
XIBHC25-12.5R-200L-1T-250	25	25	40	200	XIB-250	M6W12-250	T30M	●
XIBHC25-12.5R-250L-1T-250	25	25	60	250	XIB-250	M6W12-250	T30M	
XIBHC32-12.5R-200L-1T-250	25	32	50	200	XIB-250	M6W12-250	T30M	
XIBHC32-12.5R-250L-1T-250	25	32	85	250	XIB-250	M6W12-250	T30M	
XIBHC32-16R-200L-1T-250	32	32	55	200	XIB-320	M080W250-16R	T30M	
XIBHC32-16R-250L-1T-250	32	32	70	250	XIB-320	M080W250-16R	T30M	
XIBHC32-16R-300L-1T-250	32	32	80	300	XIB-320	M080W250-16R	T30M	

Carbide shanks with moduler heads available on request



Parameters

WORK MATERIAL		NON-ALLOYED STEEL SALLOY STEEL SCAST IRON		ALLOY STEELS HEAT RESISTANT STEELS		DIE TOOL STEELS PRE-HARDENED		HARDENED STEELS	
HARDNESS	HB	~280		280-380		380-480		480-740	
	HRc	~30		30-40		40-50		50-65	
STRENGTH	N/mm2	~1000		1000-1250		1250-1500		~1500	
XIB Types		D		DH		DH		DH	
CUTTING CONDITION		Vc	Fz	Vc	Fz	Vc	Fz	Vc	Fz
Roughing Finishing		(m/min)	(mm/t)	(m/min)	(mm/t)	(m/min)	(mm/t)	(m/min)	(mm/t)
8		160-320	0.20-0.20	80-220	0.20-0.20	60-200	0.15-0.20	50-180	0.10-0.20
10		160-360	0.20-0.20	80-220	0.20-0.20	60-200	0.15-0.20	50-180	0.10-0.20
12		160-380	0.20-0.20	80-220	0.20-0.20	60-200	0.15-0.20	50-180	0.10-0.20
16		160-480	0.25-0.30	80-200	0.25-0.30	60-180	0.20-0.30	50-150	0.15-0.30
20		160-580	0.25-0.40	80-200	0.25-0.40	60-180	0.20-0.40	50-150	0.15-0.40
25		160-600	0.25-0.50	80-180	0.25-0.50	60-160	0.20-0.50	50-120	0.15-0.50
32		160-700	0.25-0.60	80-180	0.25-0.60	60-160	0.20-0.60	50-120	0.15-0.60



ae : Roughing - $0.1 \times D$
 Finishing - Under $\varnothing 12$: 0.25mm
 $\varnothing 12$ - $\varnothing 17$: 0.30mm
 From $\varnothing 20$: 0.40mm
 ap : Roughing - Under $\varnothing 16$: $0.025 \times D$
 From $\varnothing 16$: $0.05 \times D$
 Finishing - 0.1mm

Authorised Dealer