i-Xmill END MILLS

XMB110A SERIES
XMB120C SERIES
XMB260T SERIES

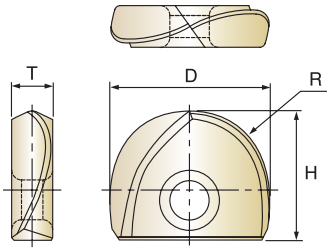
i-Xmill BALL INSERTS

i-Xmill WECHSELPLATTE mit RUNDER STIRN
i-Xmill - Plaquette hémisphérique
i-Xmill Placca emisferica

- ▶Exchangeable Ball End Mill for economic use
- ▶Three Types of Inserts are available
  - For General Purpose (~HRc50)
  - For Hardened Material (HRc40~HRc65)
  - For Graphite
- ▶Special Geometry and Coating for Excellent Performance

- ▶ Kopierfräser mit Wechselplatte für wirtschaftlichen Einsatz.
- ▶ Drei Typen von Schneideinsätzen lieferbar
  - Für allgemeinen Einsatz (HRc50)
  - Für gehärtete Materialien (HRc40~HRc65)
  - Für graphit
- ▶ Spezielle Geometrie und Beschichtung für höchste Leistu





cutting conditions : p.C60

Recommended ToolHolder — Plain Shank; POWER MILLING CHUCK; ER COLLET CHUCK

Unit : mm

EDP No. AlTiN	EDP No. XC-Coating	EDP No. Z-Coating	Radius of Ball Nose	Mill Diameter	Height	Thickness
General Purpose	Pre-Hardened Steels	High Hardened Steels	R	D	H	T
XMB110A080	**XMB120C080**	**XMB260T080**	R4.0	**8.0**	8.0	2.4
XMB110A100	**XMB120C100**	**XMB260T100**	R5.0	**10.0**	9.5	2.7
XMB110A110	**XMB120C110**	**XMB260T110**	R5.5	**11.0**	10.0	2.7
XMB110A120	**XMB120C120**	**XMB260T120**	R6.0	**12.0**	11.0	3.2
XMB110A130	**XMB120C130**	**XMB260T130**	R6.5	**13.0**	11.5	3.2
XMB110A160	**XMB120C160**	**XMB260T160**	R8.0	**16.0**	13.0	4.2
XMB110A170	**XMB120C170**	**XMB260T170**	R8.5	**17.0**	13.5	4.2
XMB110A200	**XMB120C200**	**XMB260T200**	R10.0	**20.0**	16.0	5.2
XMB110A210	**XMB120C210**	**XMB260T210**	R10.5	**21.0**	16.5	5.2
XMB110A250	**XMB120C250**	**XMB260T250**	R12.5	**25.0**	19.5	6.2
XMB110A260	**XMB120C260**	**XMB260T260**	R13.0	**26.0**	20.0	6.2
XMB110A300	**XMB120C300**	**XMB260T300**	R15.0	**30.0**	23.5	7.2
XMB110A320	**XMB120C320**	**XMB260T320**	R16.0	**32.0**	24.5	7.2
XMB110A330	**XMB120C330**	**XMB260T330**	R16.5	**33.0**	25.0	7.2

▶ The ball radius tolerance is ±0.01mm and the set-up accuracy is ±0.02mm.

◎ : Excellent ○ : Good

ISO	P											M			K					
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
XMB110A	◎	◎	◎	◎	◎	◎	◎	◎												
XMB120C									◎	○	◎				◎	◎	◎	◎	◎	◎
XMB260T																				

ISO	N										S							H			
Material Description	Aluminum-wrought alloy		Aluminum-cast, alloyed			Copper and Copper Alloys (Bronze / Brass)			Non Metallic Materials		Heat Resistant Super Alloys					Titanium Alloys		Hardened steel		Chilled Cast Iron	Hardened Cast Iron
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
HRc											15	30	25	38	34			55	60	42	55
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400	550
XMB110A																					
XMB120C																		○			
XMB260T																		◎	◎	○	◎

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