

EMP13 *Kr: 90°*

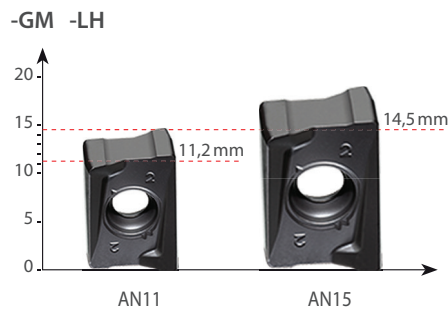
New square shoulder mill generation

- Specially developed cutting edges for high-quality 90° square shoulder milling.
- Extra thick inserts for better stability.
- Positive, smooth cutting geometry for reduced cutting forces.
- Polished, high-precision geometry for aluminum alloys, steel and cast iron.

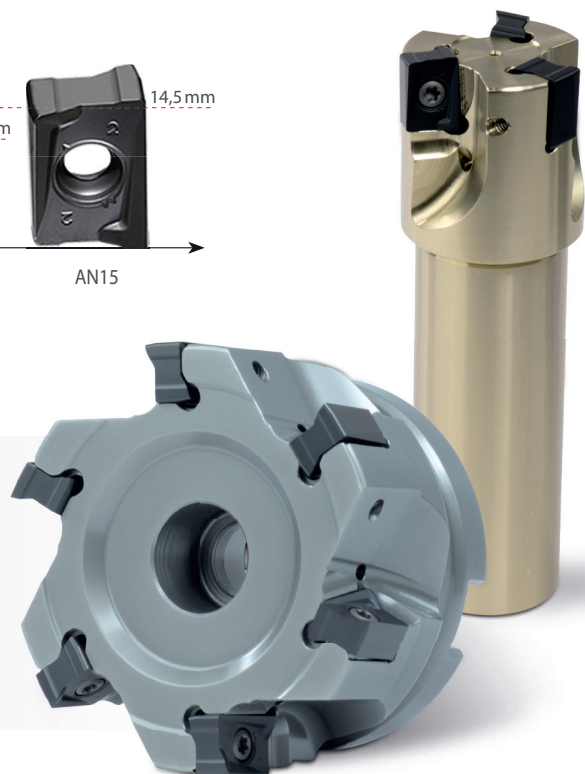
Insert grades

YBC302 CVD P15–P35	YBM253 CVD P20–P40 M10–M30	YB9320 PVD P10–P30 M20–M30	YBG205 PVD P10–P30 M20–M30
YBD152 CVD K05–K25	YBD252 CVD K15–K35	YD101 – N05–N25	

Chip breakers

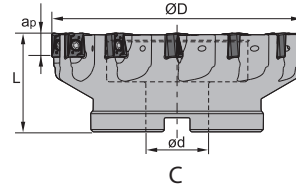
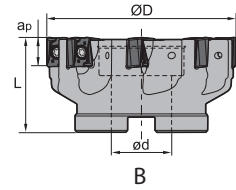
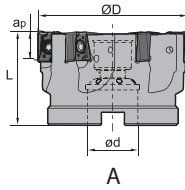
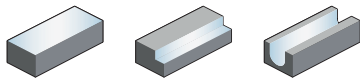


Chip breaker -LH for aluminium



Square shoulder milling

EMP13 Kr: 90°



Article	*	Stock	Dimensions [mm]				Teeth	Coupling	kg	Inserts
			ØD	ød	L	ap max				
EMP13-040-A16-AN11-04C	*	○	40	16	40	11.2	4	A	0.45	ANGX1105
EMP13-050-A22-AN11-06		●	50	22	40	11.2	6	A	0.3	
EMP13-063-A22-AN11-06	*	○	63	22	40	11.2	6	A	0.49	
EMP13-063-A22-AN11-07		●	63	22	40	11.2	7	A	0.49	
EMP13-080-A27-AN11-07	*	○	80	27	50	11.2	7	A	1.18	
EMP13-080-A27-AN11-09		●	80	27	50	11.2	9	A	1.18	
EMP13-100-B32-AN11-12		●	100	32	50	11.2	12	B	1.46	
EMP13-100-B32-AN11-12C	*	○	100	32	50	11.2	12	B	1.46	
EMP13-125-B40-AN11-14		●	125	40	63	11.2	14	B	2.92	
EMP13-125-B40-AN11-14C	*	○	125	40	63	11.2	14	B	2.92	
EMP13-160-C40-AN11-16		●	160	40	63	11.2	16	C	4.3	
EMP13-050-A22-AN15-04		●	50	22	40	14.5	4	A	0.26	
EMP13-063-A22-AN15-05		●	63	22	40	14.5	5	A	0.53	
EMP13-080-A27-AN15-06		●	80	27	50	14.5	6	A	1.23	
EMP13-100-B32-AN15-08		●	100	32	50	14.5	8	B	1.52	
EMP13-100-B32-AN15-08C	*	○	100	32	50	14.5	8	B	1.52	
EMP13-125-B40-AN15-10		●	125	40	63	14.5	10	B	3.05	
EMP13-125-B40-AN15-10C	*	○	125	40	63	14.5	10	B	3.05	
EMP13-160-C40-AN15-12		●	160	40	63	14.5	12	C	4.46	
EMP13-200-C60-AN15-16		○	200	60	63	14.5	16	C	6.26	

● Ex stock ○ On demand

* With internal cooling



System code > B26


Grade selection > B24

Technical info > B463




Cutting data > B224

Spare parts

Insert		ANGX1105 40-160	ANGX1506 50-200
ØD			
	Screw (insert)	I60M3*9 (1.8 Nm)	I60M4*12 (3.4 Nm)
	Wrench (insert)	WT09IS	WT15IS

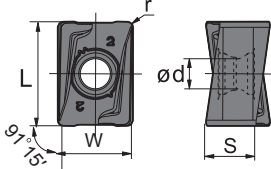


Milling inserts

-  Ideal machining conditions
-  Normal machining conditions
-  Unfavourable machining conditions

ANGX	L	S	d
11 05	11.85	5.7	3.5
15 06	15.43	7.3	4.4

AN** milling insert			HC ¹ (CVD)					HC ¹ (PVD)					HT	HC ²	HW	
ISO	W	r	P	M	K	N	S	H	P	M	K	N	S	H		
						●	●	●	●	●	●	●	●	●	●	●
			○	○	○	○	○	○	○	○	○	○	○	○		



● Ex stock ○ On demand

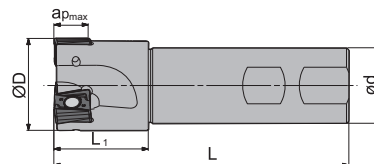
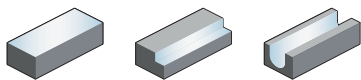
HC¹ Coated carbide
 HT Uncoated cermet
 HC² Coated cermet
 HW Uncoated carbide



A
Turning
 B
Milling
 C
Drilling
 D
Technical Information
 E
Index

Square shoulder milling

EMP13 Kr: 90°



Weldon shank

Article	*	Stock	Dimensions [mm]					Teeth	kg	Inserts
			ØD	ød	L ₁	L	a _{p max}			
EMP13-025-XP25-AN11-02	●		25	25	32	100	11.2	2	0.31	ANGX1105
EMP13-032-XP32-AN11-03	●		32	32	40	115	11.2	3	0.61	
EMP13-040-XP32-AN11-04	●		40	32	40	125	11.2	4	0.75	
EMP13-032-XP32-AN15-02	●		32	32	40	125	11.2	2	0.66	ANGX1506
EMP13-040-XP32-AN15-03	●		40	32	40	125	11.2	3	0.76	

● Ex stock ○ On demand

* With internal cooling

Spare parts

	Insert	ANGX1105	ANGX1506	
	ØD	25-40	25-40	
	Screw (insert)	I60M3*9 (1.8 Nm)	I60M4*12 (3.4 Nm)	
	Wrench (insert)	WT09IS	WT15IS	

System code > B26

Grade selection > B24

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Milling inserts

- Ideal machining conditions
- ⊗ Normal machining conditions
- ⊗ Unfavourable machining conditions

ANGX	L	S	d
11 05	11.85	5.7	3.5
15 06	15.43	7.3	4.4

AN** milling insert			HC ¹ (CVD)						HC ¹ (PVD)						HT	HC ²	HW							
			P	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	●	●	●						
			M	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	●	●	●					
			K								⊗	⊗	⊗	⊗	⊗	⊗			⊗					
			N								⊗								⊗	⊗				
			S								⊗	⊗												
			H																					
ISO	W	r	YBC302	YBC301	YBC401	YBM253	YBM251	YBM351	YBD152	YBD252	YBG101	YBG102	YB9320	YBG205	YBG202	YBG212	YBG302	YBG152	YBG252	YNG151	YNG151C	YD101	YD201	
	ANGX110504PNR-GM	8.4	0.4				●		●				●	●										
	ANGX110508PNR-GM	8.4	0.8	●			●		●	●			●	●										
	ANGX150608PNR-GM	11	0.8	○			●		●	●			●	●										
	ANGX150616PNR-GM	11	1.6				●		●					●										
	ANGX150620PNR-GM	11	2						●	●				●										
	ANGX110504PNR-LH	8.4	0.4																				●	
	ANGX150608PNR-LH	11	0.8																				●	

● Ex stock ○ On demand

HC¹ Coated carbide
 HT Uncoated cermet
 HC² Coated cermet
 HW Uncoated carbide

A

Turning

B

Milling

C

Drilling

D

Technical Information

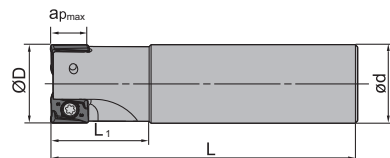
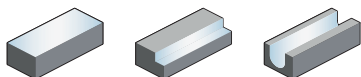
E

Index



Square shoulder milling

EMP13 Kr: 90°



Straight shank

Article	* Stock	Dimensions [mm]							Teeth	kg	Inserts
		ØD	e	ød	L ₁	L	a _{p max}				
EMP13-025-G25-AN11-02	●	25	11.2	25	32	100	11.2	2	0.31	ANGX1105	
EMP13-032-G32-AN11-03	●	32	11.2	32	40	115	11.2	3	0.61		
EMP13-040-G32-AN11-04	●	40	11.2	32	40	125	11.2	4	0.75		
EMP13-032-G32-AN15-02	●	32	14.5	32	40	125	14.5	2	0.66	ANGX1506	
EMP13-040-G32-AN15-03	●	40	14.5	32	40	125	14.5	3	0.76		

● Ex stock ○ On demand

* With internal cooling

Spare parts		ANGX1105	ANGX1506	
Insert	ØD	25-40	25-40	
Screw (insert)		I60M3*9 (1.8 Nm)	I60M4*12 (3.4 Nm)	
Wrench (insert)		WT09IS	WT15IS	

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Milling inserts

- Ideal machining conditions
- ⊗ Normal machining conditions
- ⊗ Unfavourable machining conditions

ANGX	L	S	d
11 05	11.85	5.7	3.5
15 06	15.43	7.3	4.4

AN** milling insert			HC ¹ (CVD)						HC ¹ (PVD)						HT	HC ²	HW							
			P	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	●	●	●						
			M	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	●	●	●					
			K								⊗	⊗	⊗	⊗	⊗	⊗			⊗					
			N								⊗	⊗	⊗	⊗	⊗	⊗			⊗					
			S								⊗	⊗	⊗	⊗	⊗	⊗								
			H																					
ISO	W	r	YBC302	YBC301	YBC401	YBM253	YBM251	YBM351	YBD152	YBD252	YBG101	YBG102	YB9320	YBG205	YBG202	YBG212	YBG302	YBG152	YBG252	YNG151	YNG151C	YD101	YD201	
	ANGX110504PNR-GM	8.4	0.4				●		●				●	●										
	ANGX110508PNR-GM	8.4	0.8	●			●		●	●			●	●										
	ANGX150608PNR-GM	11	0.8	○			●		●	●			●	●										
	ANGX150616PNR-GM	11	1.6				●		●					●										
	ANGX150620PNR-GM	11	2						●	●				●										
	ANGX110504PNR-LH	8.4	0.4																				●	
	ANGX150608PNR-LH	11	0.8																				●	

● Ex stock ○ On demand

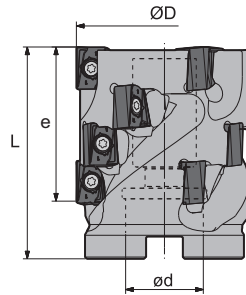
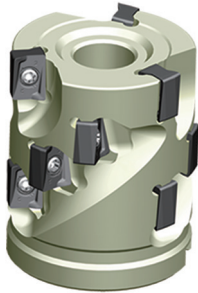
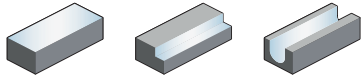
HC¹ Coated carbide
 HT Uncoated cermet
 HC² Coated cermet
 HW Uncoated carbide

A Turning
B Milling
C Drilling
D Technical Information
E Index



Square shoulder milling

EMP13 Kr: 90°



Article	*	Stock	Dimensions [mm]				Teeth	No. of inserts	kg	Inserts
			ØD	e	ød	L				
EMP13-050x43-A22-AN11-03	●		50	43	22	60	3	12	0.52	ANGX1105
EMP13-063x64-A27-AN11-04	○		63	64	27	80	4	24	1.15	
EMP13-063x53-A27-AN15-03	○		63	53	27	75	3	12	1.14	ANGX1506
EMP13-080x53-A32-AN15-04	●		80	53	32	75	4	16	1.82	

● Ex stock ○ On demand

* With internal cooling

Spare parts

	Insert ØD	ANGX1105 50-63	ANGX1506 63-80	
Screw (insert)		I60M3*9 (1.8 Nm)	I60M4*12 (3.4 Nm)	
Wrench (insert)		WT09IS	WT15IS	

System code > B26

Grade selection > B24

Technical info > B463

Cutting data > B224

A

Turning

B

Milling

C

Drilling




D

Technical Information

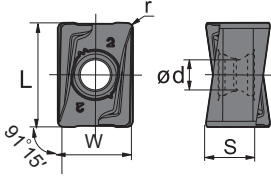








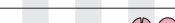
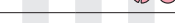






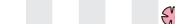






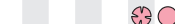



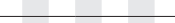

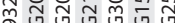
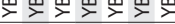



























E

Index

Milling inserts

-  Ideal machining conditions
-  Normal machining conditions
-  Unfavourable machining conditions

ANGX	L	S	d
11 05	11.85	5.7	3.5
15 06	15.43	7.3	4.4

AN** milling insert			HC ¹ (CVD)						HC ¹ (PVD)						HT	HC ²	HW							
	P																							
	M																							
	K																							
	N																							
	S																							
	H																							
ISO	W	r	YBC302	YBC301	YBC401	YBM253	YBM251	YBM351	YBD152	YBD252	YBG101	YBG102	YB9320	YBG205	YBG202	YBG212	YBG302	YBG152	YBG252	YNG151	YNG151C	YD101	YD201	
	ANGX110504PNR-GM	8.4	0.4				●		●				●	●										
	ANGX110508PNR-GM	8.4	0.8	●			●		●				●	●										
	ANGX150608PNR-GM	11	0.8	○			●		●	●			●	●										
	ANGX150616PNR-GM	11	1.6				●		●					●										
	ANGX150620PNR-GM	11	2						●	●				●										
	ANGX110504PNR-LH	8.4	0.4																				●	
	ANGX150608PNR-LH	11	0.8																				●	

● Ex stock ○ On demand

HC¹ Coated carbide
 HT Uncoated cermet
 HC² Coated cermet
 HW Uncoated carbide

A

Turning

B

Milling

C

Drilling

D

Technical Information

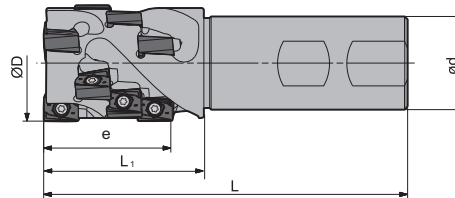
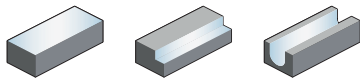
E

Index



Square shoulder milling

EMP13 Kr: 90°



Weldon shank

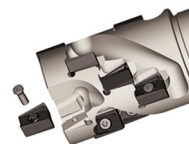
Article	*	Stock	Dimensions [mm]					Teeth	No. of inserts	kg	Inserts
			ØD	e	ød	L ₁	L				
EMP13-032x43-XP32-AN11-02		○	32	43	32	48	115	2	8	0.61	ANGX1105
EMP13-040x43-XP32-AN11-03		○	40	43	32	55	125	3	12	0.79	
EMP13-040x40-XP32-AN15-02		○	40	40	32	55	115	2	6	0.79	ANGX1506
EMP13-050x53-XP40-AN15-02		○	50	53	40	70	145	2	8	1.53	

● Ex stock ○ On demand

* With internal cooling

Spare parts

	Insert ØD	ANGX1105 32-40	ANGX1506 40-50
Screw (insert)		I60M3*9 (1.8 Nm)	I60M4*12 (3.4 Nm)
Wrench (insert)		WT09IS	WT15IS



System code > B26

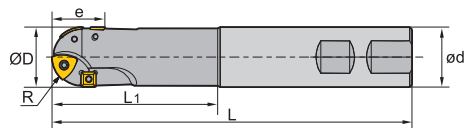
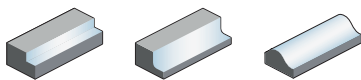
Grade selection > B24

Technical info > B463

Cutting data > B224

Profile milling

BMR01



Weldon shank

Article	* Stock	Dimensions [mm]							Teeth		kg	Inserts
		R	ØD	e	ød	L ₁	L	ZDET	SPMT			
BMR01-020-XP20-S	○	10	20	20	20	50	125	2	2	0.3	ZDET08T2 & SPMT0603	
BMR01-020-XP20-M	○	10	20	20	20	75	150	2	2	0.3		
BMR01-020-XP20-L	○	10	20	20	20	100	200	2	2	0.4		
BMR01-025-XP25-S	○	12.5	25	23	25	70	150	2	2	0.5	ZDET1103 & SPMT0603	
BMR01-025-XP25-M	○	12.5	25	23	25	95	175	2	2	0.6		
BMR01-025-XP25-L	○	12.5	25	23	25	100	200	2	2	0.7		
BMR01-032-XP32-S	○	16	32	31	32	85	175	2	2	0.9	ZDET13T2 & SDMT0903	
BMR01-032-XP32-M	○	16	32	31	32	100	200	2	2	1.1		
BMR01-032-XP32-L	○	16	32	31	32	150	250	2	2	1.4		
BMR01-040-XP40-S	○	20	40	41	40	85	175	3	2	1.4	ZPNT2204 & SPMT1204	
BMR01-040-XP40-M	○	20	40	41	40	100	200	3	2	1.7		
BMR01-040-XP40-L	○	20	40	41	40	150	250	3	2	2.1		
BMR01-050-XP40-S	○	25	50	45	40	100	200	3	2	1.8		
BMR01-050-XP40-M	○	25	50	45	40	100	300	3	2	2.8		
BMR01-063-XP40-S	○	31.5	63	52	40	100	200	4	2	3		
BMR01-063-XP40-M	○	31.5	63	52	40	100	300	4	2	3.5		

● Ex stock ○ On demand

* With internal cooling




System code > B26

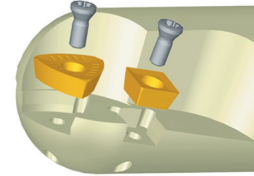
Grade selection > B24

Technical info > B463

Cutting data > B224

Spare parts

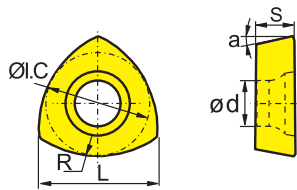
	Insert	ZDET08T2 & SPMT0603	ZDET1103 & SPMT0603	ZDET13T2 & SDMT0903	ZPNT2204 & SPMT1204
	ØD	20	25	32	40-63
	Screw (insert)	I43M2.5*5.7 (1.0 Nm)	I43M2.5*5.7 (1.0 Nm)	I43M4*8 (3.4 Nm)	I43M5*11 (6.7 Nm)
	Wrench (insert)	WT07IP	WT07IP		
	Wrench (insert)			WT15IS	WT20IS






ZDET	L	I.C	S	d
08 T2	8.4	6.75	2.78	2.8
11 03	10.6	8.5	3.18	2.8
13 T3	13.2	10.5	3.97	4.4
22 04	16.1	12.7	4.76	5.56

- Ideal machining conditions
- ⊗ Normal machining conditions
- ⊗ Unfavourable machining conditions

Milling inserts



ZD** milling insert		HC ¹ (CVD)						HC ¹ (PVD)				HT	HC ²	HW									
	P	M	K	N	S	H																	
ISO	R	YBC302	YBC301	YBC401	YBM253	YBM251	YBM351	YBD152	YBD252	YBG101	YBG102	YB9320	YBG205	YBG202	YBG212	YBG302	YBG152	YBG252	YNG151	YNG151C	YD101	YD201	
	ZDET13T3CYR16-PM	16			○								○										
	ZDET08T2CYR10	10			○																		
	ZDET1103CYR12.5	12.5			○																		
	ZDET13T3CYR16	16			○																		
	ZPNT2204CY(R20)	20			○																		
	ZPNT2204CY(R25)	25			●																		
	ZPNT2204CY(R31)	31.5			○																		

● Ex stock ○ On demand

HC¹ Coated carbide
 HT Uncoated cermet
 HC² Coated cermet
 HW Uncoated carbide

A

Turning

B

Milling

C

Drilling

D

Technical Information

E

Index

- Ideal machining conditions
- ⊗ Normal machining conditions
- ⊗ Unfavourable machining conditions

SPMT	L	I.C	S	d
06 03	6.35	6.35	3.18	2.8
12 04	12.7	12.7	4.76	5.5

Milling inserts

SP** milling insert			HC ¹ (CVD)						HC ¹ (PVD)					HT	HC ²	HW								
	P	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗										
	M	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗										
	K																⊗							
	N																⊗							
	S			⊗	⊗																			
	H																							
	ISO	r	YBC302	YBC301	YBC401	YBM253	YBM251	YBM351	YBD152	YBD252	YBG101	YBG102	YB9320	YBG205	YBG202	YBG212	YBG302	YBG152	YBG252	YNG151		YNG151C	YD101	YD201
	SPMT060304-KT		○																					
	SPMT060304	0.4				●											○							
	SPMT120408	0.8	○	●	○	●	○										○							

● Ex stock ○ On demand

HC¹ Coated carbide
 HT Uncoated cermet
 HC² Coated cermet
 HW Uncoated carbide

- Ideal machining conditions
- ⊗ Normal machining conditions
- ⊗ Unfavourable machining conditions

SDMT	L	I.C	S	d
09 03	9.525	9.525	3.18	4.4

Milling inserts

SD** milling insert			HC ¹ (CVD)						HC ¹ (PVD)					HT	HC ²	HW								
	P	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗										
	M	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗										
	K																⊗							
	N																⊗							
	S			⊗	⊗																			
	H																							
	ISO	r	YBC302	YBC301	YBC401	YBM253	YBM251	YBM351	YBD152	YBD252	YBG101	YBG102	YB9320	YBG205	YBG202	YBG212	YBG302	YBG152	YBG252	YNG151		YNG151C	YD101	YD201
	SDMT090308	0.8				●	○																	

● Ex stock ○ On demand

HC¹ Coated carbide
 HT Uncoated cermet
 HC² Coated cermet
 HW Uncoated carbide

System code > B26

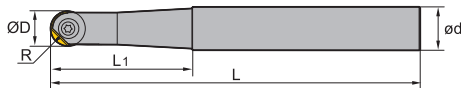
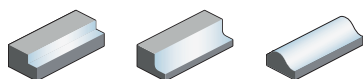
Grade selection > B24

Technical info > B463

Cutting data > B224

Profile milling

BMR02



Article	*	Stock	Dimensions [mm]					kg	Inserts
			R	ØD	ød	L ₁	L		
BMR02-012-G16-S	●		6	12	16	40	110	0.1	ROHX1203
BMR02-012-G16-M	●		6	12	16	50	130	0.2	
BMR02-012-G16-L	●		6	12	16	50	160	0.2	
BMR02-016-G20-S	●		8	16	20	45	140	0.3	ROHX1604
BMR02-016-G20-M	●		8	16	20	65	170	0.3	
BMR02-016-G20-L	●		8	16	20	65	200	0.4	
BMR02-020-G25-S	●		10	20	25	60	160	0.5	ROHX2005
BMR02-020-G25-M	●		10	20	25	80	200	0.6	
BMR02-020-G25-L	●		10	20	25	80	240	0.8	

● Ex stock ○ On demand

*With internal cooling

Spare parts		ROHX1203	ROHX1604	ROHX2005	
Insert	ØD	12	16	20	
Screw (insert)		I70M4*10TT (3.4 Nm)	I70M5*12TT (6.7 Nm)	I70M5*16TT (6.7 Nm)	
Wrench (insert)		WT15IS	WT20IS	WT20IS	

System code > B26

Grade selection > B24

Technical info > B463

Cutting data > B224

A

Turning

B

Milling

C

Drilling

D

Technical Information

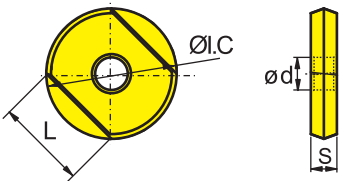

E

Index

- Ideal machining conditions
- Normal machining conditions
- Unfavourable machining conditions

ROHX	L	I.C	S	d
12 03	8.5	12	3	4
16 04	11.3	16	4	5
20 05	14.1	20	5	5

Milling inserts

RO** positive insert		HC ¹ (CVD)						HC ¹ (PVD)					HT	HC ²	HW						
	P	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
	M	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
	K							●								●					
	N							●							●	●					
	S		●	●				●	●	●	●										
	H																				
ISO		YBC302	YBC301	YBC401	YBM253	YBM251	YBM351	YBD152	YBD252	YBG101	YBG102	YBG205	YBG202	YBG212	YBG302	YBG152	YBG252	YNG151	YNG151C	YD101	YD201
	ROHX1203									○											
	ROHX1604											●				●					
	ROHX2005											●				●					

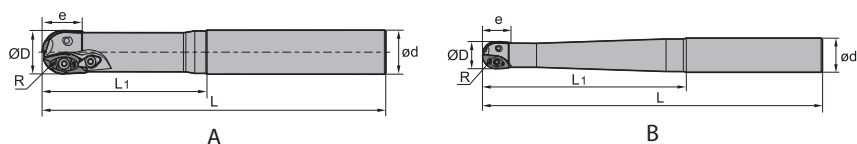
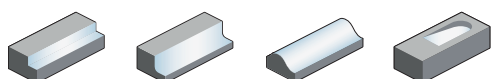
● Ex stock ○ On demand

HC¹ Coated carbide
 HT Uncoated cermet
 HC² Coated cermet
 HW Uncoated carbide



Profile milling

BMR03



Straight shank

Article	* Stock	Dimensions [mm]							Teeth	Coupling	kg	Inserts
		R	ØD	e	ød	L ₁	L					
BMR03-016-G20-S	●	8	16	16	20	70	150	2	B	0.3	XPHT16	
BMR03-016-G20-M	●	8	16	16	20	80	180	2	B	0.4		
BMR03-020-G25-S	●	10	20	20	25	80	180	2	B	0.5	XPHT20	
BMR03-020-G25-M	●	10	20	20	25	100	200	2	B	0.6		
BMR03-020-G25-L	●	10	20	20	25	150	250	2	B	0.7		
BMR03-020-G25-XL	○	10	20	20	25	110	300	2	B	1		
BMR03-025-G25-S	●	12.5	25	25	25	80	180	2	B	0.6	XPHT25	
BMR03-025-G25-M	●	12.5	25	25	25	100	200	2	B	0.7		
BMR03-025-G25-L	○	12.5	25	25	25	110	250	2	B	0.8		
BMR03-025-G25-XL	○	12.5	25	25	25	120	300	2	B	1		
BMR03-030-G32-S	○	15	30	30	32	120	200	2	A	1	XPHT30	
BMR03-030-G32-M	●	15	30	30	32	150	250	2	A	1.3		
BMR03-030-G32-L	○	15	30	30	32	200	300	2	A	1.6		
BMR03-032-G32-S	●	16	32	32	32	120	200	2	A	1.1	XPHT32	
BMR03-032-G32-M	●	16	32	32	32	150	250	2	A	1.4		
BMR03-032-G32-L	●	16	32	32	32	200	300	2	A	1.6		
BMR03-032-G32-XL	○	16	32	32	32	200	350	2	A	2		
BMR03-040-G40-S	○	20	40	40	40	120	200	2	A	1.6	XPHT40	
BMR03-040-G40-M	○	20	40	40	40	150	250	2	A	2		
BMR03-040-G40-L	●	20	40	40	40	200	300	2	A	2.5		

● Ex stock ○ On demand

* With internal cooling

A

Turning

B

Milling

C

Drilling

D

Technical Information

E

Index

System code > B26

Grade selection > B24

Technical info > B463

Cutting data > B224



Spare parts

Insert	XPHT16	XPHT20	XPHT25	XPHT30	XPHT32	XPHT40
ØD	16	20	25	30	32	40
Clamp						CBH5R1
Clamp				WD-208	WD-208	
Screw (clamp)				I60M5*13 (6.7 Nm)	I60M5*13 (6.7 Nm)	I43M6*16 (9.1 Nm)
Screw (insert)	I60M2.5*6.5 (1.0 Nm)		I60M4*10 (3.4 Nm)	I60M5*13 (6.7 Nm)	I60M5*13 (6.7 Nm)	I43M6*16 (9.1 Nm)
Screw (insert)		I60M3.5*08TT (2.7 Nm)				
Wrench (clamp)				WT20IT	WT20IT	WT25IT
Wrench (insert)		WT10IP				
Wrench (insert)				WT20IT	WT20IT	WT25IT
Wrench (insert)	WT07P					
Wrench (insert)			WT15S			



XPHT	L	S	d
16	16	3.18	3.1
20	20	3.97	4
25	25	4.76	4.7
30	30	6.35	5.8
32	32	6.35	5.8
40	40	7.94	6.8

- Ideal machining conditions
- Normal machining conditions
- Unfavourable machining conditions

Milling inserts

XP** milling insert		HC ¹ (CVD)						HC ¹ (PVD)				HT	HC ²	HW											
		P	M	K	N	S	H																		
	ISO	R	α	YBC302	YBC301	YBC401	YBM253	YBM251	YBM351	YBD152	YBD252	YBG101	YBG102	YB9320	YBG205	YBG202	YBG212	YBG302	YBG152	YBG252	YNG151	YNG151C	YD101	YD201	
	XPHT16R0803-GM	8	9																						
	XPHT20R10T3-GM	10	9																						
	XPHT25R1204-GM	12.5	9																						
	XPHT30R1506-GM	15	11																						
	XPHT32R1606-GM	16	9																						
	XPHT40R2007-GM	20	9																						

● Ex stock ○ On demand

HC¹ Coated carbide
 HT Uncoated cermet
 HC² Coated cermet
 HW Uncoated carbide

System code > B26

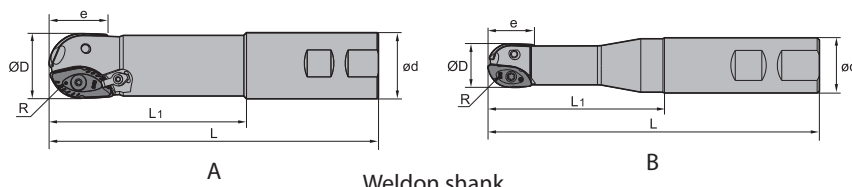
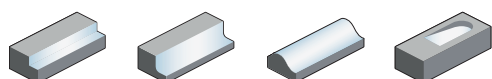
Grade selection > B24

Technical info > B463

Cutting data > B224

Profile milling

BMR03



Weldon shank

Article	* Stock	Dimensions [mm]							Teeth	Coupling	kg	Inserts
		R	ØD	e	ød	L ₁	L					
BMR03-016-XP20-M	●	8	16	16	20	60	111	2	B	0.2	XPHT16	
BMR03-020-XP25-M	●	10	20	20	25	70	127	2	B	0.3	XPHT20	
BMR03-020-XP25-L	●	10	20	20	25	80	150	2	B	0.4	XPHT25	
BMR03-025-XP25-M	●	12.5	25	25	25	80	137	2	B	0.4	XPHT25	
BMR03-025-XP25-L	●	12.5	25	25	25	100	200	2	B	0.6	XPHT30	
BMR03-030-XP32-M	●	15	30	30	32	100	161	2	A	0.8	XPHT30	
BMR03-030-XP32-L	●	15	30	30	32	150	250	2	A	1.3	XPHT32	
BMR03-032-XP32-M	●	16	32	32	32	100	161	2	A	0.8	XPHT32	
BMR03-032-XP32-L	○	16	32	32	32	120	250	2	A	1.3	XPHT40	
BMR03-040-XP40-M	○	20	40	40	40	100	175	2	A	1.3	XPHT40	
BMR03-040-XP40-L	●	20	40	40	40	120	250	2	A	2	XPHT50	
BMR03-050-XP50-M	○	25	50	50	50	100	200	2	A	2.5	XPHT50	
BMR03-050-XP50-L	○	25	50	50	50	150	250	2	A	3.1		

● Ex stock ○ On demand

* With internal cooling

A

Turning

B

Milling

C

Drilling

D

Technical Information

E

Index

System code > B26

Grade selection > B24

Technical info > B463

Cutting data > B224



Spare parts

Insert	XPHT16	XPHT20	XPHT25	XPHT30	XPHT32	XPHT40	XPHT50
ØD	16	20	25	30	32	40	50
Clamp						CBH5R1	CBH5R1
Clamp				WD-208	WD-208		
Screw (clamp)				I60M5*13 (6.7 Nm)	I60M5*13 (6.7 Nm)	I43M6*16 (9.1 Nm)	I43M6*16 (9.1 Nm)
Screw (insert)	I60M2.5*6.5 (1.0 Nm)		I60M4*10 (3.4 Nm)	I60M5*13 (6.7 Nm)	I60M5*13 (6.7 Nm)	I43M6*16 (9.1 Nm)	I43M8*21 (16.2 Nm)
Screw (insert)		I60M3.5*08TT (2.7 Nm)					
Wrench (clamp)				WT20IT	WT20IT	WT25IT	WT25IT
Wrench (insert)		WT10IP					
Wrench (insert)				WT20IT	WT20IT	WT25IT	WT30IT
Wrench (insert)	WT07P						
Wrench (insert)			WT15S				



A

Turning

B

Milling

C

Drilling

D

Technical Information

E

Index

XPHT	L	S	d
16	16	3.18	3.1
20	20	3.97	4
25	25	4.76	4.7
30	30	6.35	5.8
32	32	6.35	5.8
40	40	7.94	6.8
50	50	7.94	9.2

- Ideal machining conditions
- Normal machining conditions
- Unfavourable machining conditions

Milling inserts

XP** milling insert				HC ¹ (CVD)				HC ¹ (PVD)				HT	HC ²	HW											
		P	M	K	N	S	H																		
	ISO	R	α	YBC302	YBC301	YBC401	YBM253	YBM251	YBM351	YBD152	YBD252	YBG101	YBG102	YB9320	YBG205	YBG202	YBG212	YBG302	YBG152	YBG252	YNG151	YNG151C	YD101	YD201	
	XPHT16R0803-GM	8	9																						
	XPHT20R10T3-GM	10	9																						
	XPHT25R1204-GM	12.5	9																						
	XPHT30R1506-GM	15	11																						
	XPHT32R1606-GM	16	9																						
	XPHT40R2007-GM	20	9																						
XPHT50R2507-GM	25	9																							

● Ex stock ○ On demand

HC¹ Coated carbide
HT Uncoated cermet
HC² Coated cermet
HW Uncoated carbide

System code > B26

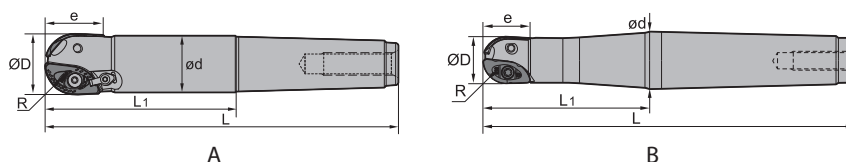
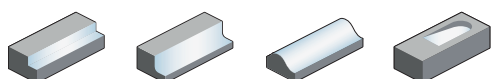
Grade selection > B24

Technical info > B463

Cutting data > B224

Profile milling

BMR03



Morse taper shank

Article	* Stock	Dimensions [mm]							Teeth	Coupling	kg	Inserts
		R	ØD	e	ød	L ₁	L					
BMR03-020-MT3-M	○	10	20	20	18.7	70	156	2	B	0.4	XPHT20	
BMR03-020-MT3-L	○	10	20	20	18.7	100	186	2	B	0.4		
BMR03-025-MT3-M	○	12.5	25	25	23.5	70	156	2	B	0.4	XPHT25	
BMR03-025-MT3-L	○	12.5	25	25	23.5	100	186	2	B	0.4		
BMR03-030-MT4-M	○	15	30	30	28.2	70	189	2	A	0.8	XPHT30	
BMR03-030-MT4-L	○	15	30	30	28.2	120	229	2	A	1		
BMR03-032-MT4-M	○	16	32	32	29.2	70	179	2	A	0.9	XPHT32	
BMR03-032-MT4-L	●	16	32	32	29.2	100	209	2	A	0.9		
BMR03-040-MT5-L	○	20	40	40	36.9	90	226	2	A	1.8	XPHT40	
BMR03-050-MT5-M	●	25	50	50	46.8	100	236	2	A	2.2		
BMR03-050-MT5-L	○	25	50	50	46.8	150	286	2	A	2.9	XPHT50	

● Ex stock ○ On demand

* With internal cooling

A

Turning

B

Milling

C

Drilling

D

Technical Information

E

Index

System code > B26

Grade selection > B24

Technical info > B463

Cutting data > B224



A

Turning

B

Milling

C

Drilling

D

Technical Information

E

Index

Spare parts

Insert	ØD	XPHT20	XPHT25	XPHT30	XPHT32	XPHT40	XPHT50
		20	25	30	32	40	50
	Clamp					CBH5R1	CBH5R1
	Clamp			WD-208	WD-208		
	Screw (clamp)			I60M5*13 (6.7 Nm)	I60M5*13 (6.7 Nm)	I43M6*16 (9.1 Nm)	I43M6*16 (9.1 Nm)
	Screw (insert)		I60M4*10 (3.4 Nm)	I60M5*13 (6.7 Nm)	I60M5*13 (6.7 Nm)	I43M6*16 (9.1 Nm)	I43M8*21 (16.2 Nm)
	Screw (insert)	I60M3.5*08TT (2.7 Nm)					
	Wrench (clamp)			WT20IT	WT20IT	WT25IT	WT25IT
	Wrench (insert)	WT10IP					
	Wrench (insert)			WT20IT	WT20IT	WT25IT	WT30IT
	Wrench (insert)		WT15S				



XPHT	L	S	d
20	20	3.97	4
25	25	4.76	4.7
30	30	6.35	5.8
32	32	6.35	5.8
40	40	7.94	6.8
50	50	7.94	9.2

- Ideal machining conditions
- Normal machining conditions
- Unfavourable machining conditions

Milling inserts

XP** milling insert		HC ¹ (CVD)							HC ¹ (PVD)			HT	HC ²	HW												
		P	M	K	N	S	H																			
	ISO	R	α	YBC302	YBC301	YBC401	YBM253	YBM251	YBM351	YBD152	YBD252	YBG101	YBG102	YBG320	YBG205	YBG202	YBG212	YBG302	YBG152	YBG252	YNG151	YNG151C	YD101	YD201		
	XPHT20R10T3-GM	10	9																							
	XPHT25R1204-GM	12.5	9																							
	XPHT30R1506-GM	15	11																							
	XPHT32R1606-GM	16	9																							
	XPHT40R2007-GM	20	9																							
	XPHT50R2507-GM	25	9																							

● Ex stock ○ On demand

 HC¹ Coated carbide
 HT Uncoated cermet
 HC² Coated cermet
 HW Uncoated carbide

System code > B26

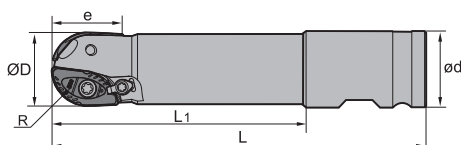
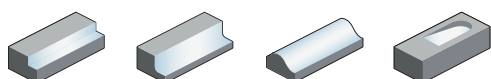
Grade selection > B24

Technical info > B463

Cutting data > B224

Profile milling

BMR03



Compound shank

Article	* Stock	Dimensions [mm]							Teeth	kg	Inserts
		R	ØD	e	ød	L ₁	L				
BMR03-040-XPX-M	○	20	40	40	50.8	170	250	2	1.3	XPHT40	
BMR03-040-XPX-L	○	20	40	40	50.8	220	300	2	3.1		
BMR03-040-XPX-XL	○	20	40	40	50.8	270	350	2	3.5		
BMR03-050-XPX-M	○	25	50	50	50.8	170	250	2	3.1	XPHT50	
BMR03-050-XPX-L	○	25	50	50	50.8	200	300	2	3.8		
BMR03-050-XPX-XL	○	25	50	50	50.8	270	350	2	4.4		

● Ex stock ○ On demand

* With internal cooling

Spare parts			
	Insert	XPHT40	XPHT50
	ØD	40	50
	Clamp	CBH5R1	CBH5R1
	Screw (clamp)	I43M6*16 (9.1 Nm)	I43M6*16 (9.1 Nm)
	Screw (insert)	I43M6*16 (9.1 Nm)	I43M8*21 (16.2 Nm)
	Wrench (clamp)	WT25IT	WT25IT
	Wrench (insert)	WT25IT	WT30IT



System code > B26

Grade selection > B24

Technical info > B463

Cutting data > B224

A

Turning

B

Milling

C

Drilling

D

Technical Information

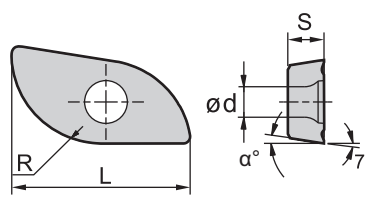


E

Index

- Ideal machining conditions
- ● Normal machining conditions
- ● Unfavourable machining conditions

XPHT	L	S	d
40	40	7.94	6.8
50	50	7.94	9.2

Milling inserts

XP** milling insert		HC ¹ (CVD)								HC ¹ (PVD)					HT	HC ²	HW						
	P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●							
	M	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●							
	K										●				●	●	●						
	N										●					●	●						
	S		●	●							●	●	●										
	H																						
ISO	R	α	YBC302	YBC301	YBC401	YBM253	YBM251	YBM351	YBD152	YBD252	YBG101	YBG102	YBG320	YBG205	YBG202	YBG212	YBG302	YBG152	YBG252	YNG151	YNG151C	YD101	YD201
	20	9															●						
	25	9															●						

● Ex stock ○ On demand

HC¹ Coated carbide
 HT Uncoated cermet
 HC² Coated cermet
 HW Uncoated carbide

System code > B26

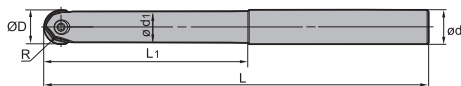
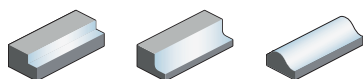
Grade selection > B24

Technical info > B463

Cutting data > B224

Profile milling

BMR04



Straight shank

Article	*	Stock	Dimensions [mm]						kg	Inserts
			R	ØD	ød	Ød1	L ₁	L		
BMR04-012-G12-M	●	●	6	12	12	11	35	125	0.1	ZOHX12
BMR04-012-G12-L	●	●	6	12	12	11	45	150	0.1	
BMR04-016-G16-M	●	●	8	16	16	14	40	150	0.2	ZOHX16
BMR04-016-G16-L	●	●	8	16	16	14	55	180	0.3	
BMR04-020-G20-M	●	●	10	20	20	18	65	180	0.4	ZOHX20
BMR04-020-G20-L	●	●	10	20	20	18	100	250	0.6	
BMR04-025-G25-M	●	●	12.5	25	25	23	70	200	0.7	ZOHX25
BMR04-025-G25-L	●	●	12.5	25	25	23	100	250	0.9	
BMR04-030-G32-M	●	●	15	30	32	27	80	250	1.2	ZOHX30
BMR04-030-G32-L	●	●	15	30	32	27	110	300	1.5	
BMR04-032-G32-M	●	●	16	32	32	29	80	250	1.4	ZOHX32
BMR04-032-G32-L	●	●	16	32	32	29	110	300	1.7	

● Ex stock ○ On demand

* With internal cooling

Spare parts

	Insert ØD	ZOHX12 12	ZOHX16 16	ZOHX20 20	ZOHX25 25	ZOHX30 30	ZOHX32 32
	Screw (insert)	I70M4*10TT (3.4 Nm)	I70M5*12TT (6.7 Nm)	I70M5*16TT (6.7 Nm)	I70M6*20TT (9.1 Nm)	I70M8*25TT (16.2 Nm)	I70M8*25TT (16.2 Nm)
	Wrench (insert)	WT15IP	WT20IP	WT20IP	WT20IP		
	Wrench (insert)					WT30IT	WT30IT



System code > B26

Grade selection > B24

Technical info > B463

Cutting data > B224



A

Turning

B

Milling

C

Drilling

D

Technical Information

E

Index

A

Turning

B

Milling

C

Drilling

D

Technical Information

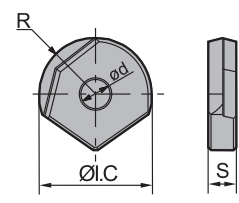


E

Index

ZOHX	I.C	S	d
12	12	1.5	4
16	16	4	5
20	20	5	5
25	25	6	6
30	30	7	8
32	32	7	8

- Ideal machining conditions
- ⊗ Normal machining conditions
- ⊗ Unfavourable machining conditions

Milling inserts

ZO** milling insert		HC ¹ (CVD)						HC ¹ (PVD)				HT	HC ²	HW									
ISO		P	M	K	N	S	H																
		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗										
		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗										
					⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗		⊗								
						⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗		⊗								
				⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗										
	R	YBC302	YBC301	YBC401	YBM253	YBM251	YBM351	YBD152	YBD252	YBG101	YBG102	YB9320	YBG205	YBG202	YBG212	YBG302	YBG152	YBG252	YNG151	YNG151C	YD101	YD201	
	ZOHX1203-GF	6																					
	ZOHX1604-GF	8																					
	ZOHX2005-GF	10																					
	ZOHX2506-GF	12.5																					
	ZOHX3007-GF	15																					
	ZOHX3207-GF	16																					
	ZOHX1203-GM	6																					
	ZOHX1604-GM	8																					
	ZOHX2005-GM	10																					
	ZOHX2506-GM	12.5																					
	ZOHX3007-GM	15																					
	ZOHX3207-GM	16																					

● Ex stock ○ On demand

HC¹ Coated carbide
 HT Uncoated cermet
 HC² Coated cermet
 HW Uncoated carbide

System code > B26

Grade selection > B24

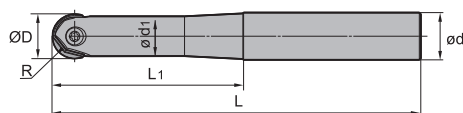
Technical info > B463

Cutting data > B224



Profile milling

BMR04



Straight shank

Article	*	Stock	Dimensions [mm]						kg	Inserts
			R	ØD	ød	Ød1	L ₁	L		
BMR04-012-G16-M	●	●	6	12	16	11	50	125	0.2	ZOHX12
BMR04-012-G16-L	●	●	6	12	16	11	70	150	0.2	
BMR04-016-G20-M	●	●	8	16	20	14	60	150	0.3	ZOHX16
BMR04-016-G20-L	●	●	8	16	20	14	80	180	0.3	
BMR04-020-G25-M	●	●	10	20	25	18	75	180	0.6	ZOHX20
BMR04-020-G25-L	●	●	10	20	25	18	95	200	0.6	
BMR04-025-G32-M	●	●	12.5	25	32	23	90	200	1	ZOHX25
BMR04-025-G32-L	●	●	12.5	25	32	23	110	250	1.3	
BMR04-030-G40-M	●	●	15	30	40	27	110	250	2	ZOHX30
BMR04-030-G40-L	●	●	15	30	40	27	125	300	2.4	
BMR04-032-G40-M	●	●	16	32	40	29	110	250	2	ZOHX32
BMR04-032-G40-L	●	●	16	32	40	29	125	300	2.4	

● Ex stock ○ On demand

* With internal cooling

Spare parts

	Insert ØD	ZOHX12 12	ZOHX16 16	ZOHX20 20	ZOHX25 25	ZOHX30 30	ZOHX32 32
	Screw (insert)	I70M4*10TT (3.4 Nm)	I70M5*12TT (6.7 Nm)	I70M5*16TT (6.7 Nm)	I70M6*20TT (9.1 Nm)	I70M8*25TT (16.2 Nm)	I70M8*25TT (16.2 Nm)
	Wrench (insert)	WT15IP	WT20IP	WT20IP	WT20IP		
	Wrench (insert)					WT30IT	WT30IT



System code > B26

Grade selection > B24

Technical info > B463

Cutting data > B224

A

Turning

B

Milling

C

Drilling

D

Technical Information

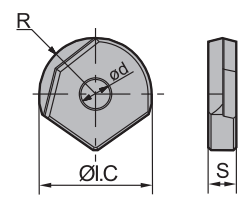


E

Index

ZOHX	I.C	S	d
12	12	1.5	4
16	16	4	5
20	20	5	5
25	25	6	6
30	30	7	8
32	32	7	8

- Ideal machining conditions
- ⊗ Normal machining conditions
- ⊗ Unfavourable machining conditions

Milling inserts

ZO** milling insert		HC ¹ (CVD)							HC ¹ (PVD)				HT	HC ²	HW								
ISO		P	M	K	N	S	H																
		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗									
		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗									
								⊗	⊗							⊗							
								⊗								⊗							
				⊗	⊗				⊗	⊗	⊗	⊗											
	R	YBC302	YBC301	YBC401	YBM253	YBM251	YBM351	YBD152	YBD252	YBG101	YBG102	YB9320	YBG205	YBG202	YBG212	YBG302	YBG152	YBG252	YNG151	YNG151C	YD101	YD201	
	ZOHX1203-GF	6																					
	ZOHX1604-GF	8																					
	ZOHX2005-GF	10																					
	ZOHX2506-GF	12.5																○					
	ZOHX3007-GF	15																●					
	ZOHX3207-GF	16																●					
	ZOHX1203-GM	6																					
	ZOHX1604-GM	8																					
	ZOHX2005-GM	10																					
	ZOHX2506-GM	12.5																○					
	ZOHX3007-GM	15																●					
	ZOHX3207-GM	16																●					

● Ex stock ○ On demand

HC¹ Coated carbide
 HT Uncoated cermet
 HC² Coated cermet
 HW Uncoated carbide

System code > B26

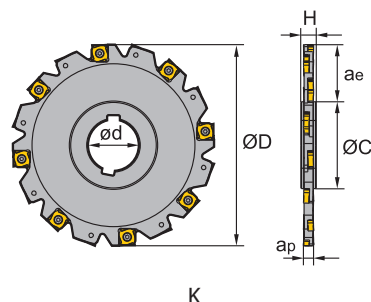
Grade selection > B24

Technical info > B463

Cutting data > B224



Slot milling



Article	* Stock	Dimensions [mm]							Coupling	kg	Inserts
		ØD	ød	øc	H	ap	ae max				
SMP01-100x4-K27-SN12-10	○	100	27	45	12	4	25	K	0.2	XSEQ1202	
SMP01-125x4-K40-SN12-12	○	125	40	56	12	4	32	K	0.3		
SMP01-160x4-K40-SN12-16	●	160	40	67	12	4	44	K	0.5		
SMP01-100x5-K27-SN12-10	○	100	27	45	12	5	25	K	0.2		
SMP01-125x5-K40-SN12-12	○	125	40	56	12	5	32	K	0.3	XSEQ1203	
SMP01-160x5-K40-SN12-16	○	160	40	67	12	5	44	K	0.6		
SMP01-100x7-K27-SN12-10	○	100	27	45	12	7	25	K	0.3		
SMP01-125x7-K40-SN12-12	○	125	40	56	12	7	32	K	0.4		
SMP01-160x7-K40-SN12-16	○	160	40	67	12	7	44	K	0.8	XSEQ1204	
SMP01-200x7-K50-SN12-18	○	200	50	71	12	7	62	K	1.2		
SMP01-250x7-K50-SN12-24	○	250	50	71	12	7	87	K	1.9		
SMP01-100x6-K27-SN12-10	○	100	27	45	12	6	25	K	0.3		
SMP01-125x6-K40-SN12-12	○	125	40	56	12	6	32	K	0.4	XSEQ12T3	
SMP01-160x6-K40-SN12-16	○	160	40	67	12	6	44	K	0.7		
SMP01-200x6-K50-SN12-18	○	200	50	71	12	6	62	K	1.1		
SMP01-250x6-K50-SN12-24	○	250	50	71	12	6	87	K	1.7		
SMP01-100x8-K27-SN12-10	○	100	27	45	12	8	25	K	0.3	XSEQ12T4	
SMP01-125x8-K40-SN12-12	○	125	40	56	12	8	32	K	0.5		
SMP01-160x8-K40-SN12-16	○	160	40	67	12	8	44	K	0.9		
SMP01-200x8-K50-SN12-18	○	200	50	71	12	8	62	K	1.4		
SMP01-250x8-K50-SN12-24	○	250	50	71	12	8	87	K	2.2		

● Ex stock ○ On demand

* With internal cooling

System code > B26

Grade selection > B24

Technical info > B463


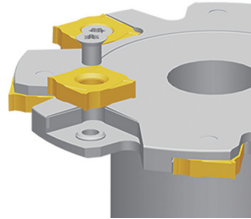

Cutting data > B224



Indexable milling Slot milling

A

Turning

Spare parts						
Insert	XSEQ1202	XSEQ1203	XSEQ1204	XSEQ12T3	XSEQ12T4	
ØD	63-160	63-160	63-250	63-250	63-250	
 Screw (insert)	I91M4*3.2X (3.4 Nm)	I91M4*3.2X (3.4 Nm)	I91M4*6.1X (3.4 Nm)	I91M4*5.1X (3.4 Nm)	I91M4*7.1X (3.4 Nm)	
 Wrench (insert)	WT08IP	WT08IP	WT08IP	WT08IP	WT08IP	

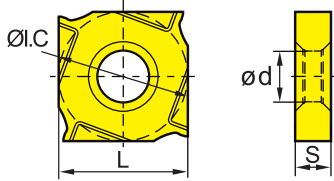













B

Milling

XSEQ	L	I.C	S	d
12 02	12.7	12.7	2.3	5
12 03	12.7	12.7	3	5
12 T3	12.7	12.7	3.5	5
12 04	12.7	12.7	4	5
12 T4	12.7	12.7	4.5	5

- Ideal machining conditions
- ⊗ Normal machining conditions
- ⊗ Unfavourable machining conditions

Milling inserts

XS** milling insert	HC ¹ (CVD)						HC ¹ (PVD)				HT	HC ²	HW	
	P	M	K	N	S	H								
														
ISO														
														
XSEQ1202														
XSEQ1203	○		●											
XSEQ1204														
XSEQ12T3		●												○
XSEQ12T4														

● Ex stock ○ On demand

HC¹ Coated carbide
 HT Uncoated cermet
 HC² Coated cermet
 HW Uncoated carbide

C

Drilling

D

Technical Information

E

Index

System code > B26

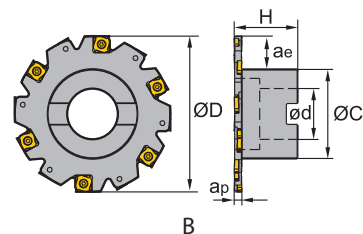
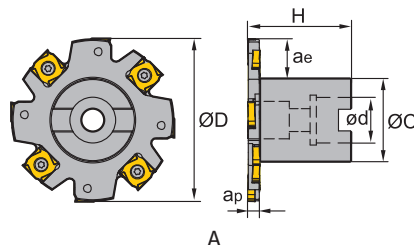
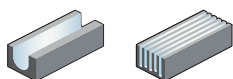
Grade selection > B24

Technical info > B463

Cutting data > B224

Slot milling

SMP01 Kr: 90°



Article	* Stock	Dimensions [mm]							Teeth	Coupling	kg	Inserts
		ØD	ød	Øc	H	ap	ae,max					
SMP01-063x4-A22-SN12-06	○	63	22	32	40	4	14	6	A	0.2	XSEQ1202	
SMP01-080x4-A22-SN12-08	○	80	22	40	40	4	18	8	A	0.4		
SMP01-100x4-A27-SN12-10	○	100	27	48	50	4	23	10	A	0.6		
SMP01-063x5-A22-SN12-06	○	63	22	32	40	5	14	6	A	0.2	XSEQ1203	
SMP01-080x5-A22-SN12-08	○	80	22	40	40	5	18	8	A	0.4		
SMP01-100x5-A27-SN12-10	○	100	27	48	50	5	23	10	A	0.7		
SMP01-063x7-A22-SN12-06	○	63	22	32	40	7	14	6	A	0.2	XSEQ1204	
SMP01-080x7-A22-SN12-08	○	80	22	40	40	7	18	8	A	0.5		
SMP01-100x7-A27-SN12-10	○	100	27	48	50	7	23	10	A	0.7		
SMP01-125x7-B40-SN12-12	○	125	40	72	50	7	23	12	B	1.1	XSEQ1204	
SMP01-160x7-B40-SN12-16	○	160	40	70	60	7	41	16	B	1.4		
SMP01-063x6-A22-SN12-06	○	63	22	32	40	6	14	6	A	0.2		
SMP01-080x6-A22-SN12-08	○	80	22	40	40	6	18	8	A	0.5	XSEQ12T3	
SMP01-100x6-A27-SN12-10	○	100	27	48	50	6	23	10	A	0.7		
SMP01-125x6-B40-SN12-12	○	125	40	72	50	6	23	12	B	1		
SMP01-160x6-B40-SN12-16	○	160	40	70	60	6	41	16	B	1.3	XSEQ12T4	
SMP01-063x8-A22-SN12-06	○	63	22	32	40	8	14	6	A	0.2		
SMP01-080x8-A22-SN12-08	○	80	22	40	40	8	18	8	A	0.5		
SMP01-100x8-A27-SN12-10	○	100	27	48	50	8	23	10	A	0.8	XSEQ12T4	
SMP01-125x8-B40-SN12-12	○	125	40	72	50	8	23	12	B	1.1		
SMP01-160x8-B40-SN12-16	○	160	40	70	60	8	41	16	B	1.5		

● Ex stock ○ On demand

* With internal cooling

System code > B26

Grade selection > B24


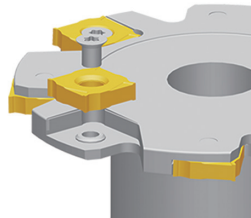

Technical info > B463

Cutting data > B224



A




Turning

Spare parts						
Insert	XSEQ1202	XSEQ1203	XSEQ1204	XSEQ12T3	XSEQ12T4	
ØD	63-160	63-160	63-250	63-250	63-250	
 Screw (insert)	I91M4*3.2X (3.4 Nm)	I91M4*3.2X (3.4 Nm)	I91M4*6.1X (3.4 Nm)	I91M4*5.1X (3.4 Nm)	I91M4*7.1X (3.4 Nm)	
 Wrench (insert)	WT08IP	WT08IP	WT08IP	WT08IP	WT08IP	

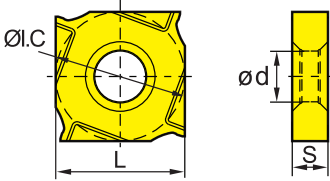













B

Milling

XSEQ	L	I.C	S	d
12 02	12.7	12.7	2.3	5
12 03	12.7	12.7	3	5
12 T3	12.7	12.7	3.5	5
12 04	12.7	12.7	4	5
12 T4	12.7	12.7	4.5	5

-  Ideal machining conditions
-  Normal machining conditions
-  Unfavourable machining conditions

Milling inserts

XS** milling insert	HC ¹ (CVD)						HC ¹ (PVD)				HT	HC ²	HW
	P	M	K	N	S	H							
													
ISO													
	XSEQ1202												
	XSEQ12T3	●											○
	XSEQ1203	○	●										
	XSEQ1204												
	XSEQ12T4												

● Ex stock ○ On demand

HC¹ Coated carbide
 HT Uncoated cermet
 HC² Coated cermet
 HW Uncoated carbide

C

Drilling

D

Technical Information

E

Index

System code > B26

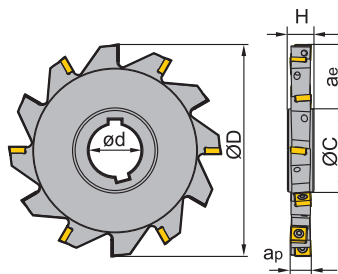
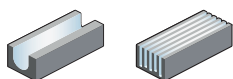
Grade selection > B24

Technical info > B463

Cutting data > B224

Slot milling

SMP03 Kr: 90°



K

Article	* Stock	Dimensions [mm]							Teeth	Coupling	kg	Inserts
		ØD	Ød	Øc	H	ap	ae,max					
SMP03-080x8-K27-MP06-10	○	80	27	44	12	8	17.6	10	K	0.2	MPHT0603	
SMP03-100x8-K32-MP06-14	○	100	32	49	12	8	25.1	14	K	0.3		
SMP03-100x10-K32-MP06-14	○	100	32	49	14	10	25.1	14	K	0.4		
SMP03-125x10-K40-MP06-16	○	125	40	57	14	10	33.6	16	K	0.6	MPHT0803	
SMP03-125x12-K40-MP08-12	○	125	40	58.3	16	12	32.6	12	K	0.7		
SMP03-160x12-K40-MP08-14	○	160	40	64.3	16	12	31.5	14	K	1.3		
SMP03-160x16-K40-MP12-12	○	160	40	64.6	20	16	47.6	12	K	1.6	MPHT1204	
SMP03-160x18-K40-MP12-12	○	160	40	65.3	24	18	47.3	12	K	1.9		
SMP03-160x20-K40-MP12-12	○	160	40	65.3	26	20	47.3	12	K	2.1		
SMP03-200x16-K50-MP12-14	○	200	50	74.6	20	16	62.6	14	K	2.5		
SMP03-200x18-K50-MP12-14	○	200	50	75.3	24	18	62.3	14	K	2.9		
SMP03-200x20-K50-MP12-14	○	200	50	75.3	26	20	62.3	14	K	3.3		

● Ex stock ○ On demand

* With internal cooling

Spare parts					
	Insert	MPHT0603	MPHT0803	MPHT1204	
	ØD	80-125	125-160	160-200	
	Screw (insert)	I60M2.5*6.5 (1.0 Nm)	I60M3*7 (1.8 Nm)	I60M5*13 (6.7 Nm)	
	Wrench (insert)	WT07IP	WT09IP		
	Wrench (insert)			WT20IS	

A

Turning

B

Milling

C

Drilling

D

Technical Information

E

Index

- Ideal machining conditions
- Normal machining conditions
- Unfavourable machining conditions

MPHT	L	I.C	S	d
06 03	6.35	6.35	3.18	2.8
08 03	8.3	8.3	3.18	3.4
12 04	12.7	12.7	4.76	5.56

Milling inserts

MP** milling insert		HC ¹ (CVD)						HC ¹ (PVD)					HT	HC ²	HW								
	P	●	●	●	●	●	●	●	●	●	●	●	●	●	●								
	M	●	●	●	●	●	●	●	●	●	●	●	●	●	●								
	K							●								●							
	N							●							●	●							
	S		●	●				●	●	●	●												
	H																						
ISO	r	YBC302	YBC301	YBC401	YBM253	YBM251	YBM351	YBD152	YBD252	YBG101	YBG102	YB9320	YBG205	YBG202	YBG212	YBG302	YBG152	YBG252	YNG151		YNG151C	YD101	YD201
	MPHT060304-DM	0.4	●			●										●							
	MPHT080305-DM	0.5	●			●										●							
	MPHT120408-DM	0.8	●			○		●								●							

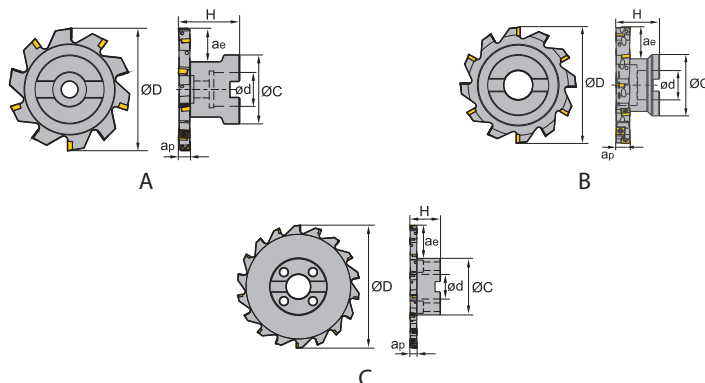
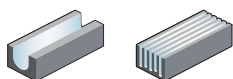
● Ex stock ○ On demand

HC¹ Coated carbide
 HT Uncoated cermet
 HC² Coated cermet
 HW Uncoated carbide



Slot milling

SMP03 Kr: 90°



Article	* Stock	Dimensions [mm]							Teeth	Coupling	kg	Inserts
		ØD	ød	Øc	H	ap	ae,max					
SMP03-080x8-A22-MP06-10	○	80	22	45	40	8	21	10	A	0.4	MPHT0603	
SMP03-100x8-B27-MP06-14	○	100	27	55	40	8	24.5	14	B	0.6		
SMP03-100x10-B27-MP06-14	●	100	27	55	40	10	24.5	14	B	0.7		
SMP03-125x10-B32-MP06-16	○	125	32	65	45	10	33.3	16	B	1.1	MPHT0803	
SMP03-125x12-B32-MP08-12	○	125	32	65	45	12	33	12	B	1.4		
SMP03-160x12-B40-MP08-14	○	160	40	80	50	12	44	14	B	1.9		
SMP03-200x12-C40-MP08-18	○	200	40	92	50	12	52	18	C	3.2	MPHT1204	
SMP03-125x16-B32-MP12-10	○	125	32	65	50	16	33	10	B	2.3		
SMP03-160x16-B40-MP12-12	○	160	40	80	60	16	45	12	B	2.3		
SMP03-160x18-B40-MP12-12	○	160	40	80	60	18	45	12	B	2.4	MPHT1204	
SMP03-200x16-C40-MP12-14	○	200	40	92	50	16	52	14	C	3.6		
SMP03-200x18-C40-MP12-14	○	200	40	92	50	18	52	14	C	3.9		
SMP03-200x20-C40-MP12-14	○	200	40	92	50	20	52	14	C	4.2		

● Ex stock ○ On demand

* With internal cooling

Spare parts

	Insert ØD	MPHT0603 80-125	MPHT0803 125-200	MPHT1204 125-200	
	Screw (insert)	I60M2.5*6.5 (1.0 Nm)	I60M3*7 (1.8 Nm)	I60M5*13 (6.7 Nm)	
	Wrench (insert)	WT07IP	WT09IP		
	Wrench (insert)			WT20IS	

A

Turning

B

Milling

C

Drilling

D

Technical Information

E

Index

- Ideal machining conditions
- Normal machining conditions
- Unfavourable machining conditions

MPHT	L	I.C	S	d
06 03	6.35	6.35	3.18	2.8
08 03	8.3	8.3	3.18	3.4
12 04	12.7	12.7	4.76	5.56

Milling inserts

MP** milling insert		HC ¹ (CVD)						HC ¹ (PVD)					HT	HC ²	HW							
	P	●	●	●	●	●	●	●	●	●	●	●	●	●	●							
	M	●	●	●	●	●	●	●	●	●	●	●	●	●	●							
	K							●								●						
	N							●							●	●						
	S		●	●				●	●	●	●											
	H																					
ISO	r	YBC302	YBC301	YBC401	YBM253	YBM251	YBM351	YBD152	YBD252	YBG101	YBG102	YB9320	YBG205	YBG202	YBG212	YBG302	YBG152	YBG252	YNG151	YNG151C	YD101	YD201
	MPHT060304-DM	0.4	●			●										●						
	MPHT080305-DM	0.5	●			●										●						
	MPHT120408-DM	0.8	●			○		●								●						

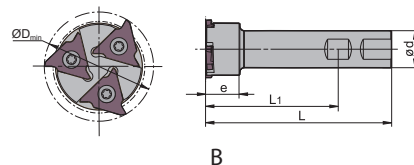
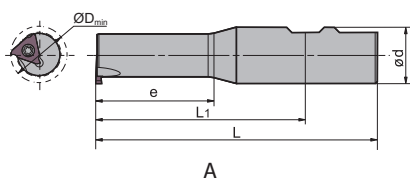
● Ex stock ○ On demand


HC¹ Coated carbide
 HT Uncoated cermet
 HC² Coated cermet
 HW Uncoated carbide



Slot milling

SMP05 Kr: 90° 

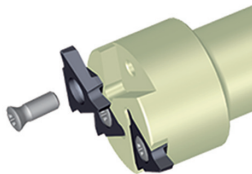




Article	*	Stock	Dimensions [mm]					Teeth	Coupling	Inserts 
			e	ØDmin	ød	L ₁	L			
SMP05-025x3.0-XP25-QC16-01	●		40	25	25	89	125	1	A	QC16L
SMP05-039x3.0-XP25-QC16-03	●		23	39	25	89	125	3	B	
SMP05-044x4.8-XP25-QC22-03	●		23	44	25	89	125	3	B	

● Ex stock ○ On demand

* With internal cooling

Spare parts

		QC16L	QC16L	QC22L	
Insert ØD		25	39	44	
	Screw (insert)	I60M3.5*10 (2.7 Nm)	I60M3.5*10 (2.7 Nm)	I60M5*13 (6.7 Nm)	
	Wrench (insert)	WT15IP	WT15IP	WT20IP	

System code > B26




Grade selection > B24

Technical info > B463

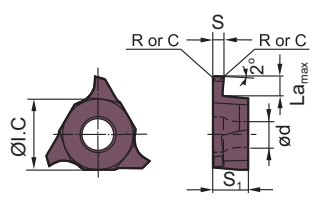
























































































Cutting data > B224

Indexable milling Slot milling

Milling inserts

-  Ideal machining conditions
-  Normal machining conditions
-  Unfavourable machining conditions

QC	I.C	d
16	9.525	4.4
22	12.7	5.5

QC** turning/milling insert				HC ¹ (CVD)						HC ¹ (PVD)					HT	HC ²	HW								
				P																					
				M																					
				K																					
				N																					
				S																					
				H																					
ISO	S±0.025	La _{max}	R/C	YBC302	YBC301	YBC401	YBM253	YBM251	YBM351	YBD152	YBD252	YBG101	YBG102	YB9320	YBG205	YBG202	YBG212	YBG302	YBG152	YBG252	YNG151	YNG151C	YD101	YD201	
QC16L075-R01	0.75	2	0.1												○										
QC16L095-R01	0.95	2	0.1												○										
QC16L100-R01	1	2	0.1												○										
QC16L110-R01	1.1	2	0.1												○	○									
QC16L120-R01	1.2	2	0.1												○										
QC16L125-R02	1.25	2	0.2												●										
QC16L130-R02	1.3	2	0.2												○										
QC16L145-R02	1.45	2	0.2												●										
QC16L150-R02	1.5	2	0.2												○										
QC16L160-R02	1.6	2	0.2												●										
QC16L165-R02	1.65	2	0.2												○										
QC16L170-R02	1.7	2	0.2												○										
QC16L175-R02	1.75	2	0.2												○										
QC16L185-R02	1.85	2.5	0.2												○										
QC16L200-R02	2	2.5	0.2												●										
QC16L210-R02	2.1	2.5	0.2												○										
QC16L210-R05	2.1	2.5	0.5												○										
QC16L220-R02	2.2	2.5	0.2												○										
QC16L250-R02	2.5	2.5	0.2												●										
QC16L300-R02	3	3	0.2												●										

● Ex stock ○ On demand

HC¹ Coated carbide
 HT Uncoated cermet
 HC² Coated cermet
 HW Uncoated carbide




System code > B26

Grade selection > B24

Technical info > B463

Cutting data > B224

Milling inserts

-  Ideal machining conditions
-  Normal machining conditions
-  Unfavourable machining conditions

QC	I.C	d
16	9.525	4.4
22	12.7	5.5

QC** turning/milling insert				HC ¹ (CVD)						HC ¹ (PVD)						HT	HC ²	HW
				P	M	K	N	S	H									
				YBC302						YBC301								
				YBC401						YBM253								
				YBM251						YBM351								
				YBD152						YBD252								
				YBG101						YBG102								
				YB9320						YBG205								
				YBG202						YBG212								
				YBG302						YBG152								
				YBG252						YNG151								
				YNG151C														
				YD101						YD201								
ISO	S±0.025	La _{max}	R/C															
QC22L100-R02	1	2	0.2															
QC22L125-R02	1.25	2	0.2															
QC22L145-R02	1.45	2	0.2															
QC22L150-R02	1.5	3.5	0.2															
QC22L175-R02	1.75	3.5	0.2															
QC22L185-R02	1.85	3.5	0.2															
QC22L200-R02	2	3.5	0.2															
QC22L230-R02	2.3	3.5	0.2															
QC22L250-R03	2.5	4	0.3															
QC22L265-R03	2.65	4	0.3															
QC22L280-R03	2.8	4	0.3															
QC22L300-R03	3	4	0.3															
QC22L320-R03	3.2	4	0.3															
QC22L330-R03	3.3	4	0.3															
QC22L350-R03	3.5	5	0.3															
QC22L400-R04	4	5	0.4															
QC22L430-R04	4.3	5	0.4															
QC22L450-R04	4.5	5	0.4															
QC22L480-R04	4.8	5	0.4															

● Ex stock ○ On demand

HC¹ Coated carbide
 HT Uncoated cermet
 HC² Coated cermet
 HW Uncoated carbide

A

Turning

B

Milling

C

Drilling

D

Technical Information

E

Index



Notes

A

Turning

B

Milling

C

Drilling

D

Technical
Information

E

Index

Notes section containing horizontal dotted lines for writing.