



High Performance Reamers MR 01, MR 02, MR 03 Standard Programme

Flexible application

Alternative to solid carbide tools from \varnothing 20 mm

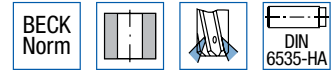
Variable models and cutting materials

Also as expandable and finely adjustable variants



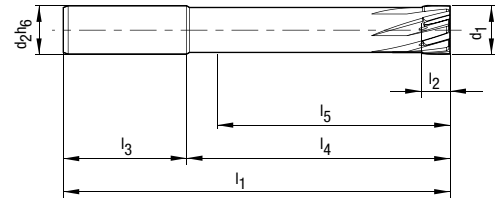
MR 01 | 041610, 041611, 041612, 041613

Preferred series fixed design, with brazed blades, for through bore, internal coolant supply



Design

Diameter: 8.00 – 40.00 mm
 Cutting direction: Right-hand cutting
 Flute direction: Left-hand fluted
 Number of cutting edges: 4 – 8
 Geometry: HPC Geometry
 Dimensions: Works standard



Product code	Cutting material	Coating	P ₁	P ₂	P ₃	M ₁	M ₂	K ₁	K ₂	K ₃	N ₁	N ₂	N ₃	N ₄	N ₅	S	H
041610	Carbide	Uncoated	☐	☐	☐			☐	☐	☐	■	☐	☐	■			
041611	Carbide	BSP	■	■	■	★	★	■	■	■						★	★
041612	Cermet	Uncoated	■	■	☐				■	☐							
041613	Cermet	Coated	■	■	■			■	■	■							

Dimensions								041610		041611		041612		041613	
d ₁	d ₂ h ₆	l ₁	l ₂	l ₃	l ₄	l ₅	z	Order No.	Stock	Order No.	Stock	Order No.	Stock	Order No.	Stock
8.00	12	120	8	45	75	70	4	30480651	○	30480686	○	30480723	○	30480761	○
8.50	12	120	8	45	75	70	4	30480652	○	30480687	○	30480724	○	30480762	○
9.00	12	120	8	45	75	70	4	30480653	○	30480688	○	30480725	○	30480763	○
9.50	12	120	8	45	75	70	4	30480654	○	30480689	○	30480726	○	30480764	○
10.00	12	120	8	45	75	70	6	30480655	○	30480690	○	30480727	○	30480765	○
10.50	12	120	8	45	75	70	6	30480656	○	30480691	○	30480728	○	30480766	○
11.00	12	120	8	45	75	70	6	30480657	○	30480692	○	30480729	○	30480767	○
11.50	12	120	8	45	75	70	6	30480658	○	30480693	○	30480730	○	30480768	○
12.00	16	140	8	48	92	87	6	30480659	○	30480694	○	30480731	○	30480769	○
12.50	16	140	8	48	92	87	6	30480660	○	30480695	○	30480732	○	30480770	○
13.00	16	140	8	48	92	87	6	30480661	○	30480696	○	30480733	○	30480771	○
14.00	16	140	8	48	92	87	6	30479663	○	30480697	○	30480734	○	30480772	○
15.00	16	140	8	48	92	87	6	30480662	○	30480698	○	30480735	○	30480773	○
16.00	16	140	8	48	92	87	6	30480663	○	30480699	○	30480736	○	30480774	○
17.00	16	140	8	48	92	87	6	30480664	○	30480700	○	30480737	○	30480775	○
18.00	20	160	12	50	110	105	6	30480665	○	30480701	○	30480738	○	30480776	○
19.00	20	160	12	50	110	105	6	30480666	○	30480702	○	30480739	○	30480777	○
20.00	20	160	12	50	110	105	6	30480667	○	30480703	○	30480740	○	30480778	○
21.00	20	160	12	50	110	105	6	30480668	○	30480704	○	30480741	○	30480779	○
22.00	20	160	12	50	110	105	6	30400729	○	30480705	○	30480742	○	30480780	○
23.00	20	180	12	50	130	125	6	30480669	○	30480706	○	30480743	○	30480781	○
24.00	20	180	12	50	130	125	6	30480670	○	30480707	○	30480744	○	30480782	○
25.00	20	180	12	50	130	125	6	30480671	○	30480708	○	30480745	○	30480783	○
26.00	20	180	12	50	130	125	6	30480672	○	30480709	○	30480746	○	30480784	○
27.00	20	180	12	50	130	125	6	30400730	○	30480710	○	30480747	○	30480785	○
28.00	25	200	12	56	144	139	6	30480673	○	30480711	○	30480748	○	30480786	○
29.00	25	200	12	56	144	139	6	30480674	○	30480712	○	30480749	○	30480787	○
30.00	25	200	12	56	144	139	8	30480675	○	30480713	○	30480750	○	30480788	○
31.00	25	200	12	56	144	139	8	30480676	○	30480714	○	30480751	○	30480789	○
32.00	25	200	12	56	144	139	8	30480677	○	30477650	○	30480752	○	30480790	○
33.00	25	200	12	56	144	139	8	30480678	○	30480715	○	30480753	○	30480791	○
34.00	25	200	12	56	144	139	8	30480679	○	30480716	○	30480754	○	30480792	○
35.00	25	200	12	56	144	139	8	30480680	○	30480717	○	30480755	○	30480793	○
36.00	25	200	12	56	144	139	8	30480681	○	30480718	○	30480756	○	30480794	○
37.00	25	200	12	56	144	139	8	30480682	○	30480719	○	30480757	○	30480795	○
38.00	25	200	12	56	144	139	8	30480683	○	30480720	○	30480758	○	30480796	○
39.00	25	200	12	56	144	139	8	30480684	○	30480721	○	30480759	○	30480797	○
40.00	25	200	12	56	144	139	8	30480685	○	30480722	○	30480760	○	30480798	○

All dimensions in mm.

For machining values see end of catalogue.

Information on special designs and other coatings on request.

● These products are available ex stock.

○ These products are available from semi-finished stock on short notice.

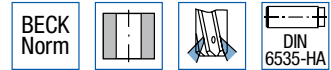
■ Outstanding material suitability.

☐ Limited material suitability.

★ Suitability only with special blade geometry and coating.

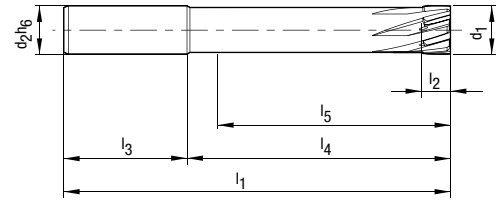
MR 02 | 041710, 041711, 041712, 041713

Preferred series expandable design, with brazed blades, for through bore, internal coolant supply



Design

Diameter: 8.00 – 40.00 mm
 Cutting direction: Right-hand cutting
 Flute direction: Left-hand fluted
 Number of cutting edges: 4 – 8
 Geometry: HPC Geometry
 Dimensions: Works standard



Product code	Cutting material	Coating	P ₁	P ₂	P ₃	M ₁	M ₂	K ₁	K ₂	K ₃	N ₁	N ₂	N ₃	N ₄	N ₅	S	H
041710	Carbide	Uncoated	☐	☐	☐			☐	☐	☐	■	☐	☐	■			
041711	Carbide	BSP	■	■	■	★	★	■	■	■						★	★
041712	Cermet	Uncoated	■	■	☐				■	☐							
041713	Cermet	Coated	■	■	■			■	■	■							

Dimensions								041710		041711		041712		041713	
d ₁	d ₂ h6	l ₁	l ₂	l ₃	l ₄	l ₅	z	Order No.	Stock	Order No.	Stock	Order No.	Stock	Order No.	Stock
8.00	12	120	8	45	75	70	4	30481120	○	30481158	○	30481196	○	30481234	○
8.50	12	120	8	45	75	70	4	30481121	○	30481159	○	30481197	○	30481235	○
9.00	12	120	8	45	75	70	4	30481122	○	30481160	○	30481198	○	30481236	○
9.50	12	120	8	45	75	70	4	30481123	○	30481161	○	30481199	○	30481237	○
10.00	12	120	8	45	75	70	6	30481124	○	30481162	○	30481200	○	30481238	○
10.50	12	120	8	45	75	70	6	30481125	○	30481163	○	30481201	○	30481239	○
11.00	12	120	8	45	75	70	6	30481126	○	30481164	○	30481202	○	30481240	○
11.50	12	120	8	45	75	70	6	30481127	○	30481165	○	30481203	○	30481241	○
12.00	16	140	8	48	92	87	6	30481128	○	30481166	○	30481204	○	30481242	○
12.50	16	140	8	48	92	87	6	30481129	○	30481167	○	30481205	○	30481243	○
13.00	16	140	8	48	92	87	6	30481130	○	30481168	○	30481206	○	30481244	○
14.00	16	140	8	48	92	87	6	30481131	○	30481169	○	30481207	○	30481245	○
15.00	16	140	8	48	92	87	6	30481132	○	30481170	○	30481208	○	30481246	○
16.00	16	140	8	48	92	87	6	30481133	○	30481171	○	30481209	○	30481247	○
17.00	16	140	8	48	92	87	6	30481134	○	30481172	○	30481210	○	30481248	○
18.00	20	160	12	50	110	105	6	30481135	○	30481173	○	30481211	○	30481249	○
19.00	20	160	12	50	110	105	6	30481136	○	30481174	○	30481212	○	30481250	○
20.00	20	160	12	50	110	105	6	30481137	○	30481175	○	30481213	○	30488593	○
21.00	20	160	12	50	110	105	6	30481138	○	30481176	○	30481214	○	30481252	○
22.00	20	160	12	50	110	105	6	30481139	○	30481177	○	30481215	○	30481253	○
23.00	20	180	12	50	130	125	6	30481140	○	30481178	○	30481216	○	30481254	○
24.00	20	180	12	50	130	125	6	30481141	○	30481179	○	30481217	○	30481255	○
25.00	20	180	12	50	130	125	6	30481142	○	30481180	○	30481218	○	30481256	○
26.00	20	180	12	50	130	125	6	30481143	○	30481181	○	30481219	○	30481257	○
27.00	20	180	12	50	130	125	6	30481144	○	30481182	○	30481220	○	30481258	○
28.00	25	200	12	56	144	139	6	30481145	○	30481183	○	30481221	○	30481259	○
29.00	25	200	12	56	144	139	6	30481146	○	30481184	○	30481222	○	30481260	○
30.00	25	200	12	56	144	139	8	30481147	○	30481185	○	30481223	○	30481261	○
31.00	25	200	12	56	144	139	8	30481148	○	30481186	○	30481224	○	30481262	○
32.00	25	200	12	56	144	139	8	30481149	○	30481187	○	30481225	○	30481263	○
33.00	25	200	12	56	144	139	8	30481150	○	30481188	○	30481226	○	30481264	○
34.00	25	200	12	56	144	139	8	30481151	○	30481189	○	30481227	○	30481265	○
35.00	25	200	12	56	144	139	8	30481152	○	30481190	○	30481228	○	30481266	○
36.00	25	200	12	56	144	139	8	30481153	○	30481191	○	30481229	○	30481267	○
37.00	25	200	12	56	144	139	8	30481154	○	30481192	○	30481230	○	30481268	○
38.00	25	200	12	56	144	139	8	30481155	○	30481193	○	30481231	○	30481269	○
39.00	25	200	12	56	144	139	8	30481156	○	30481194	○	30481232	○	30481270	○
40.00	25	200	12	56	144	139	8	30481157	○	30481195	○	30481233	○	30481271	○

All dimensions in mm.

For machining values see end of catalogue.

Information on special designs and other coatings on request.

● These products are available ex stock.

○ These products are available from semi-finished stock on short notice.

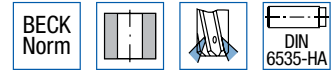
■ Outstanding material suitability.

☐ Limited material suitability.

★ Suitability only with special blade geometry and coating.

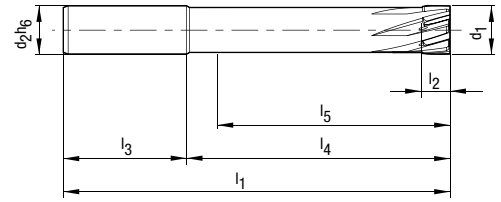
MR 03 | 041810, 041811, 041812, 041813

Preferred series finely adjustable design, with brazed blades, for through bore, internal coolant supply



Design

Diameter: 8.00 – 40.00 mm
 Cutting direction: Right-hand cutting
 Flute direction: Left-hand fluted
 Number of cutting edges: 4 – 8
 Geometry: HPC Geometry
 Dimensions: Works standard



Product code	Cutting material	Coating	P ₁	P ₂	P ₃	M ₁	M ₂	K ₁	K ₂	K ₃	N ₁	N ₂	N ₃	N ₄	N ₅	S	H
041810	Carbide	Uncoated	☐	☐	☐			☐	☐	☐	■	☐	☐	■			
041811	Carbide	BSP	■	■	■	★	★	■	■	■						★	★
041812	Cermet	Uncoated	■	■	☐				■	☐							
041813	Cermet	Coated	■	■	■			■	■	■							

Dimensions								041810		041811		041812		041813	
d ₁	d ₂ h ₆	l ₁	l ₂	l ₃	l ₄	l ₅	z	Order No.	Stock	Order No.	Stock	Order No.	Stock	Order No.	Stock
8.00	12	120	8	45	75	70	4	30481579	○	30481618	○	30481656	○	30481694	○
8.50	12	120	8	45	75	70	4	30481580	○	30481619	○	30481657	○	30481695	○
9.00	12	120	8	45	75	70	4	30481581	○	30481620	○	30481658	○	30481696	○
9.50	12	120	8	45	75	70	4	30481582	○	30481621	○	30481659	○	30481697	○
10.00	12	120	8	45	75	70	6	30481583	○	30481622	○	30481660	○	30481698	○
10.50	12	120	8	45	75	70	6	30481584	○	30481623	○	30481661	○	30481699	○
11.00	12	120	8	45	75	70	6	30481585	○	30481624	○	30481662	○	30481700	○
11.50	12	120	8	45	75	70	6	30481586	○	30481625	○	30481663	○	30481701	○
12.00	16	140	8	48	92	87	6	30481587	○	30481626	○	30481664	○	30481702	○
12.50	16	140	8	48	92	87	6	30481588	○	30481627	○	30481665	○	30481703	○
13.00	16	140	8	48	92	87	6	30481589	○	30481628	○	30481666	○	30481704	○
14.00	16	140	8	48	92	87	6	30481590	○	30481629	○	30481667	○	30481705	○
15.00	16	140	8	48	92	87	6	30481591	○	30481630	○	30481668	○	30481706	○
16.00	16	140	8	48	92	87	6	30481592	○	30481631	○	30481669	○	30481707	○
17.00	16	140	8	48	92	87	6	30481593	○	30481632	○	30481670	○	30481708	○
18.00	20	160	12	50	110	105	6	30481594	○	30481633	○	30481671	○	30481709	○
19.00	20	160	12	50	110	105	6	30481595	○	30481634	○	30481672	○	30481710	○
20.00	20	160	12	50	110	105	6	30481596	○	30481635	○	30481673	○	30481711	○
21.00	20	160	12	50	110	105	6	30481597	○	30481636	○	30481674	○	30481712	○
22.00	20	160	12	50	110	105	6	30481598	○	30481637	○	30481675	○	30481713	○
23.00	20	180	12	50	130	125	6	30481600	○	30481638	○	30481676	○	30481714	○
24.00	20	180	12	50	130	125	6	30481601	○	30481639	○	30481677	○	30481715	○
25.00	20	180	12	50	130	125	6	30481602	○	30481640	○	30481678	○	30481716	○
26.00	20	180	12	50	130	125	6	30481603	○	30481641	○	30481679	○	30481717	○
27.00	20	180	12	50	130	125	6	30481604	○	30481642	○	30481680	○	30481718	○
28.00	25	200	12	56	144	139	6	30481605	○	30481643	○	30481681	○	30481719	○
29.00	25	200	12	56	144	139	6	30481606	○	30481644	○	30481682	○	30481720	○
30.00	25	200	12	56	144	139	8	30481607	○	30481645	○	30481683	○	30481721	○
31.00	25	200	12	56	144	139	8	30481608	○	30481646	○	30481684	○	30481722	○
32.00	25	200	12	56	144	139	8	30481609	○	30481647	○	30481685	○	30481723	○
33.00	25	200	12	56	144	139	8	30481610	○	30481648	○	30481686	○	30481724	○
34.00	25	200	12	56	144	139	8	30481611	○	30481649	○	30481687	○	30481725	○
35.00	25	200	12	56	144	139	8	30481612	○	30481650	○	30481688	○	30481726	○
36.00	25	200	12	56	144	139	8	30481613	○	30481651	○	30481689	○	30481727	○
37.00	25	200	12	56	144	139	8	30481614	○	30481652	○	30481690	○	30481728	○
38.00	25	200	12	56	144	139	8	30481615	○	30481653	○	30481691	○	30481729	○
39.00	25	200	12	56	144	139	8	30481616	○	30481654	○	30481692	○	30481730	○
40.00	25	200	12	56	144	139	8	30481617	○	30481655	○	30481693	○	30481731	○

All dimensions in mm.

For machining values see end of catalogue.

Information on special designs and other coatings on request.

● These products are available ex stock.

○ These products are available from semi-finished stock on short notice.

■ Outstanding material suitability.

☐ Limited material suitability.

★ Suitability only with special blade geometry and coating.

MR 01, 02, 03 - Configurable | 04161x, 04171x, 04181x

Configurable series, fixed, expandable, finely adjustable design,
with brazed blades, for through bore, internal coolant supply



MR 01, MR 02, MR 03

Product code	Cutting material	Coating	P ₁	P ₂	P ₃	M ₁	M ₂	K ₁	K ₂	K ₃	N ₁	N ₂	N ₃	N ₄	N ₅	S	H
041610	Carbide	Uncoated	☐	☐	☐			☐	☐	☐	■	☐	☐	■			
041611	Carbide	BSP	■	■	■	★	★	■	■	■						★	★
041612	Cermet	Uncoated	■	■	☐				■	☐							
041613	Cermet	Coated	■	■	■			■	■	■							
041710	Carbide	Uncoated	☐	☐	☐			☐	☐	☐	■	☐	☐	■			
041711	Carbide	BSP	■	■	■	★	★	■	■	■						★	★
041712	Cermet	Uncoated	■	■	☐				■	☐							
041713	Cermet	Coated	■	■	■			■	■	■							
041810	Carbide	Uncoated	☐	☐	☐			☐	☐	☐	■	☐	☐	■			
041811	Carbide	BSP	■	■	■	★	★	■	■	■						★	★
041812	Cermet	Uncoated	■	■	☐				■	☐							
041813	Cermet	Coated	■	■	■			■	■	■							

Dimensions								
d ₁	d ₂ h6	l ₁	l ₂	l ₃	l ₄	l ₅	z	Stock
7.700 - 8.200	12	120	8	45	75	70	4	○
8.201 - 8.700	12	120	8	45	75	70	4	○
8.701 - 9.200	12	120	8	45	75	70	4	○
9.201 - 9.700	12	120	8	45	75	70	4	○
9.701 - 10.200	12	120	8	45	75	70	6	○
10.201 - 10.700	12	120	8	45	75	70	6	○
10.701 - 11.200	12	120	8	45	75	70	6	○
11.201 - 11.700	12	120	8	45	75	70	6	○
11.701 - 12.200	16	140	8	48	92	87	6	○
12.201 - 12.700	16	140	8	48	92	87	6	○
12.701 - 13.200	16	140	8	48	92	87	6	○
13.201 - 14.200	16	140	8	48	92	87	6	○
14.201 - 15.200	16	140	8	48	92	87	6	○
15.201 - 16.200	16	140	8	48	92	87	6	○
16.201 - 17.200	16	140	8	48	92	87	6	○
17.201 - 18.200	20	160	12	50	110	105	6	○
18.201 - 19.200	20	160	12	50	110	105	6	○
19.201 - 20.200	20	160	12	50	110	105	6	○
20.201 - 21.200	20	160	12	50	110	105	6	○
21.201 - 22.200	20	160	12	50	110	105	6	○
22.201 - 23.200	20	180	12	50	130	125	6	○
23.201 - 24.200	20	180	12	50	130	125	6	○
24.201 - 25.200	20	180	12	50	130	125	6	○
25.201 - 26.200	20	180	12	50	130	125	6	○
26.201 - 27.200	20	180	12	50	130	125	6	○
27.201 - 28.200	25	200	12	56	144	139	6	○
28.201 - 29.200	25	200	12	56	144	139	6	○
29.201 - 30.200	25	200	12	56	144	139	8	○
30.201 - 31.200	25	200	12	56	144	139	8	○
31.201 - 32.200	25	200	12	56	144	139	8	○
32.201 - 33.200	25	200	12	56	144	139	8	○
33.201 - 34.200	25	200	12	56	144	139	8	○
34.201 - 35.200	25	200	12	56	144	139	8	○
35.201 - 36.200	25	200	12	56	144	139	8	○
36.201 - 37.200	25	200	12	56	144	139	8	○
37.201 - 38.200	25	200	12	56	144	139	8	○
38.201 - 39.200	25	200	12	56	144	139	8	○
39.201 - 40.200	25	200	12	56	144	139	8	○

All dimensions in mm.

For machining values see end of catalogue.

Information on special designs and other coatings on request.

● These products are available ex stock.

○ These products are available from semi-finished stock on short notice.

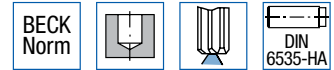
■ Outstanding material suitability.

☐ Limited material suitability.

★ Suitability only with special blade geometry and coating.

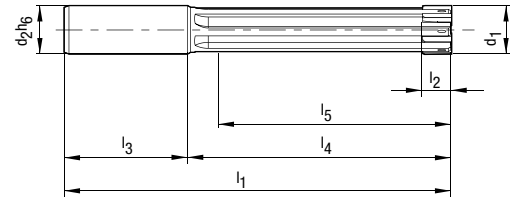
MR 01 | 041650, 041651, 041652, 041653

Preferred series fixed design, with brazed blades, for blind bore, internal coolant supply



Design

Diameter: 8.00 – 40.00 mm
 Cutting direction: Right-hand cutting
 Flute direction: Straight fluted
 Number of cutting edges: 4 – 8
 Geometry: HPC Geometry
 Dimensions: Works standard



Product code	Cutting material	Coating	P ₁	P ₂	P ₃	M ₁	M ₂	K ₁	K ₂	K ₃	N ₁	N ₂	N ₃	N ₄	N ₅	S	H
041650	Carbide	Uncoated	☐	☐	☐			☐	☐	☐	■	☐	☐	■			
041651	Carbide	BSP	■	■	■	★	★	■	■	■						★	★
041652	Cermet	Uncoated	■	■	☐				■	☐							
041653	Cermet	Coated	■	■	■			■	■	■							

Dimensions								041650		041651		041652		041653	
d ₁	d ₂ h6	l ₁	l ₂	l ₃	l ₄	l ₅	z	Order No.	Stock	Order No.	Stock	Order No.	Stock	Order No.	Stock
8.00	12	120	8	45	75	64	4	30480799	○	30480837	○	30480875	○	30480913	○
8.50	12	120	8	45	75	64	4	30480800	○	30480838	○	30480876	○	30480914	○
9.00	12	120	8	45	75	64	4	30480801	○	30480839	○	30480877	○	30480915	○
9.50	12	120	8	45	75	65	4	30480802	○	30480840	○	30480878	○	30480916	○
10.00	12	120	8	45	75	65	6	30480803	○	30480841	○	30480879	○	30480917	○
10.50	12	120	8	45	75	65	6	30480804	○	30480842	○	30480880	○	30480918	○
11.00	12	120	8	45	75	65	6	30480805	○	30480843	○	30480881	○	30480919	○
11.50	12	120	8	45	75	65	6	30480806	○	30480844	○	30480882	○	30480920	○
12.00	16	140	8	48	92	80	6	30480807	○	30480845	○	30480883	○	30480921	○
12.50	16	140	8	48	92	80	6	30480808	○	30480846	○	30480884	○	30480922	○
13.00	16	140	8	48	92	80	6	30480809	○	30480847	○	30480885	○	30480923	○
14.00	16	140	8	48	92	80	6	30480810	○	30480848	○	30480886	○	30480924	○
15.00	16	140	8	48	92	80	6	30480811	○	30480849	○	30480887	○	30480925	○
16.00	16	140	8	48	92	80	6	30480812	○	30480850	○	30480888	○	30480926	○
17.00	16	140	8	48	92	80	6	30480813	○	30480851	○	30480889	○	30480927	○
18.00	20	160	12	50	110	98	6	30480814	○	30480852	○	30480890	○	30480928	○
19.00	20	160	12	50	110	99	6	30480815	○	30480853	○	30480891	○	30480929	○
20.00	20	160	12	50	110	100	6	30480816	○	30480854	○	30480892	○	30480930	○
21.00	20	160	12	50	110	100	6	30480817	○	30480855	○	30480893	○	30480931	○
22.00	20	160	12	50	110	100	6	30480818	○	30480856	○	30480894	○	30480932	○
23.00	20	180	12	50	130	120	6	30480819	○	30480857	○	30480895	○	30480933	○
24.00	20	180	12	50	130	120	6	30480820	○	30480858	○	30480896	○	30480934	○
25.00	20	180	12	50	130	120	6	30480821	○	30480859	○	30480897	○	30480935	○
26.00	20	180	12	50	130	120	6	30480822	○	30480860	○	30480898	○	30480936	○
27.00	20	180	12	50	130	120	6	30480823	○	30480861	○	30480899	○	30480937	○
28.00	25	200	12	56	144	130	6	30480824	○	30480862	○	30480900	○	30480938	○
29.00	25	200	12	56	144	130	6	30480825	○	30480863	○	30480901	○	30480939	○
30.00	25	200	12	56	144	130	8	30480826	○	30480864	○	30480902	○	30480940	○
31.00	25	200	12	56	144	130	8	30480827	○	30480865	○	30480903	○	30480941	○
32.00	25	200	12	56	144	130	8	30480828	○	30480866	○	30480904	○	30480942	○
33.00	25	200	12	56	144	130	8	30480829	○	30480867	○	30480905	○	30480943	○
34.00	25	200	12	56	144	130	8	30480830	○	30480868	○	30480906	○	30480944	○
35.00	25	200	12	56	144	130	8	30480831	○	30480869	○	30480907	○	30480945	○
36.00	25	200	12	56	144	130	8	30480832	○	30480870	○	30480908	○	30480946	○
37.00	25	200	12	56	144	130	8	30480833	○	30480871	○	30480909	○	30480947	○
38.00	25	200	12	56	144	130	8	30480834	○	30480872	○	30480910	○	30480948	○
39.00	25	200	12	56	144	130	8	30480835	○	30480873	○	30480911	○	30480949	○
40.00	25	200	12	56	144	130	8	30480836	○	30480874	○	30480912	○	30480950	○

All dimensions in mm.

For machining values see end of catalogue.

Information on special designs and other coatings on request.

● These products are available ex stock.

○ These products are available from semi-finished stock on short notice.

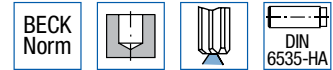
■ Outstanding material suitability.

☐ Limited material suitability.

★ Suitability only with special blade geometry and coating.

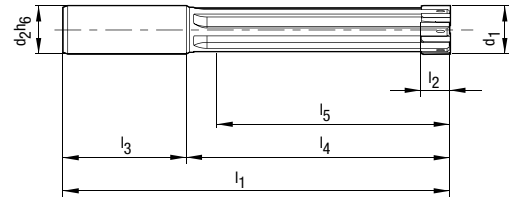
MR 02 | 041750, 041751, 041752, 041753

Preferred series expandable design, with brazed blades, for blind bore, internal coolant supply



Design

Diameter: 8.00 – 40.00 mm
 Cutting direction: Right-hand cutting
 Flute direction: Straight fluted
 Number of cutting edges: 4 – 8
 Geometry: HPC Geometry
 Dimensions: Works standard



Product code	Cutting material	Coating	P ₁	P ₂	P ₃	M ₁	M ₂	K ₁	K ₂	K ₃	N ₁	N ₂	N ₃	N ₄	N ₅	S	H
041750	Carbide	Uncoated	☐	☐	☐			☐	☐	☐	■	☐	☐	■			
041751	Carbide	BSP	■	■	■	★	★	■	■	■						★	★
041752	Cermet	Uncoated	■	■	☐				■	☐							
041753	Cermet	Coated	■	■	■			■	■	■							

Dimensions								041750		041751		041752		041753	
d ₁	d ₂ h6	l ₁	l ₂	l ₃	l ₄	l ₅	z	Order No.	Stock	Order No.	Stock	Order No.	Stock	Order No.	Stock
8.00	12	120	8	45	75	64	4	30481272	○	30481310	○	30481349	○	30481387	○
8.50	12	120	8	45	75	64	4	30481273	○	30481311	○	30481350	○	30481388	○
9.00	12	120	8	45	75	64	4	30481274	○	30481312	○	30481351	○	30481389	○
9.50	12	120	8	45	75	65	4	30481275	○	30481313	○	30481352	○	30481390	○
10.00	12	120	8	45	75	65	6	30481276	○	30481314	○	30481353	○	30481391	○
10.50	12	120	8	45	75	65	6	30481277	○	30481315	○	30481354	○	30481392	○
11.00	12	120	8	45	75	65	6	30481278	○	30481316	○	30481355	○	30481393	○
11.50	12	120	8	45	75	65	6	30481279	○	30481317	○	30481356	○	30481394	○
12.00	16	140	8	48	92	80	6	30481280	○	30481318	○	30481357	○	30481395	○
12.50	16	140	8	48	92	80	6	30481281	○	30481319	○	30481358	○	30481396	○
13.00	16	140	8	48	92	80	6	30481282	○	30481320	○	30481359	○	30481397	○
14.00	16	140	8	48	92	80	6	30481283	○	30481321	○	30481360	○	30481398	○
15.00	16	140	8	48	92	80	6	30481284	○	30481322	○	30481361	○	30481399	○
16.00	16	140	8	48	92	80	6	30481285	○	30481323	○	30481362	○	30481400	○
17.00	16	140	8	48	92	80	6	30481286	○	30481324	○	30481363	○	30481401	○
18.00	20	160	12	50	110	98	6	30481287	○	30481325	○	30481364	○	30481402	○
19.00	20	160	12	50	110	99	6	30481288	○	30481326	○	30481365	○	30481403	○
20.00	20	160	12	50	110	100	6	30481289	○	30481327	○	30481366	○	30481404	○
21.00	20	160	12	50	110	100	6	30481290	○	30481328	○	30481367	○	30481405	○
22.00	20	160	12	50	110	100	6	30481291	○	30481329	○	30481368	○	30481406	○
23.00	20	180	12	50	130	120	6	30481292	○	30481330	○	30481369	○	30481407	○
24.00	20	180	12	50	130	120	6	30481293	○	30481331	○	30481370	○	30481408	○
25.00	20	180	12	50	130	120	6	30481294	○	30481332	○	30481371	○	30481409	○
26.00	20	180	12	50	130	120	6	30481295	○	30481333	○	30481372	○	30481410	○
27.00	20	180	12	50	130	120	6	30481296	○	30481334	○	30481373	○	30481411	○
28.00	25	200	12	56	144	130	6	30481297	○	30481335	○	30481374	○	30481412	○
29.00	25	200	12	56	144	130	6	30481298	○	30481336	○	30481375	○	30481413	○
30.00	25	200	12	56	144	130	8	30481299	○	30481337	○	30481376	○	30481414	○
31.00	25	200	12	56	144	130	8	30481300	○	30481338	○	30481377	○	30481415	○
32.00	25	200	12	56	144	130	8	30481301	○	30481339	○	30481378	○	30481416	○
33.00	25	200	12	56	144	130	8	30481302	○	30481341	○	30481379	○	30481417	○
34.00	25	200	12	56	144	130	8	30481303	○	30481342	○	30481380	○	30481418	○
35.00	25	200	12	56	144	130	8	30481304	○	30481343	○	30481381	○	30481419	○
36.00	25	200	12	56	144	130	8	30481305	○	30481344	○	30481382	○	30481420	○
37.00	25	200	12	56	144	130	8	30481306	○	30481345	○	30481383	○	30481421	○
38.00	25	200	12	56	144	130	8	30481307	○	30481346	○	30481384	○	30481422	○
39.00	25	200	12	56	144	130	8	30481308	○	30481347	○	30481385	○	30481423	○
40.00	25	200	12	56	144	130	8	30481309	○	30481348	○	30481386	○	30481424	○

All dimensions in mm.

For machining values see end of catalogue.

Information on special designs and other coatings on request.

● These products are available ex stock.

○ These products are available from semi-finished stock on short notice.

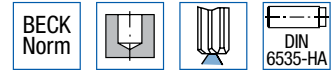
■ Outstanding material suitability.

☐ Limited material suitability.

★ Suitability only with special blade geometry and coating.

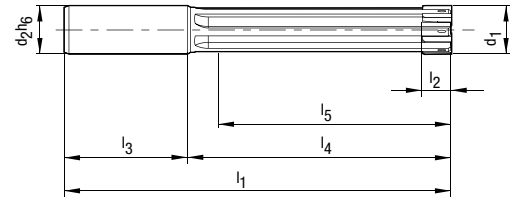
MR 03 | 041850, 041851, 041852, 041853

Preferred series finely adjustable design, with brazed blades, for blind bore, internal coolant supply



Design

Diameter: 8.00 – 40.00 mm
 Cutting direction: Right-hand cutting
 Flute direction: Straight fluted
 Number of cutting edges: 4 – 8
 Geometry: HPC Geometry
 Dimensions: Works standard



Product code	Cutting material	Coating	P ₁	P ₂	P ₃	M ₁	M ₂	K ₁	K ₂	K ₃	N ₁	N ₂	N ₃	N ₄	N ₅	S	H
041850	Carbide	Uncoated	☐	☐	☐			☐	☐	☐	■	☐	☐	■			
041851	Carbide	BSP	■	■	■	★	★	■	■	■						★	★
041852	Cermet	Uncoated	■	■	☐				■	☐							
041853	Cermet	Coated	■	■	■			■	■	■							

Dimensions								041850		041851		041852		041853	
d ₁	d ₂ h6	l ₁	l ₂	l ₃	l ₄	l ₅	z	Order No.	Stock	Order No.	Stock	Order No.	Stock	Order No.	Stock
8.00	12	120	8	45	75	64	4	30481732	○	30481770	○	30481808	○	30481846	○
8.50	12	120	8	45	75	64	4	30481733	○	30481771	○	30481809	○	30481847	○
9.00	12	120	8	45	75	64	4	30481734	○	30481772	○	30481810	○	30481848	○
9.50	12	120	8	45	75	65	4	30481735	○	30481773	○	30481811	○	30481849	○
10.00	12	120	8	45	75	65	6	30481736	○	30481774	○	30481812	○	30481850	○
10.50	12	120	8	45	75	65	6	30481737	○	30481775	○	30481813	○	30481851	○
11.00	12	120	8	45	75	65	6	30481738	○	30481776	○	30481814	○	30481853	○
11.50	12	120	8	45	75	65	6	30481739	○	30481777	○	30481815	○	30481854	○
12.00	16	140	8	48	92	80	6	30481740	○	30481778	○	30481816	○	30481855	○
12.50	16	140	8	48	92	80	6	30481741	○	30481779	○	30481817	○	30481856	○
13.00	16	140	8	48	92	80	6	30481742	○	30481780	○	30481818	○	30481857	○
14.00	16	140	8	48	92	80	6	30481743	○	30481781	○	30481819	○	30481858	○
15.00	16	140	8	48	92	80	6	30481744	○	30481782	○	30481820	○	30481859	○
16.00	16	140	8	48	92	80	6	30481745	○	30481783	○	30481821	○	30481860	○
17.00	16	140	8	48	92	80	6	30481746	○	30481784	○	30481822	○	30481861	○
18.00	20	160	12	50	110	98	6	30481747	○	30481785	○	30481823	○	30481862	○
19.00	20	160	12	50	110	99	6	30481748	○	30481786	○	30481824	○	30481863	○
20.00	20	160	12	50	110	100	6	30481749	○	30481787	○	30481825	○	30481864	○
21.00	20	160	12	50	110	100	6	30481750	○	30481788	○	30481826	○	30481865	○
22.00	20	160	12	50	110	100	6	30481751	○	30481789	○	30481827	○	30481866	○
23.00	20	180	12	50	130	120	6	30481752	○	30481790	○	30481828	○	30481867	○
24.00	20	180	12	50	130	120	6	30481753	○	30481791	○	30481829	○	30481868	○
25.00	20	180	12	50	130	120	6	30481754	○	30481792	○	30481830	○	30481869	○
26.00	20	180	12	50	130	120	6	30481755	○	30481793	○	30481831	○	30481870	○
27.00	20	180	12	50	130	120	6	30481756	○	30481794	○	30481832	○	30481871	○
28.00	25	200	12	56	144	130	6	30481757	○	30481795	○	30481833	○	30481872	○
29.00	25	200	12	56	144	130	6	30481758	○	30481796	○	30481834	○	30481873	○
30.00	25	200	12	56	144	130	8	30481759	○	30481797	○	30481835	○	30481874	○
31.00	25	200	12	56	144	130	8	30481760	○	30481798	○	30481836	○	30481875	○
32.00	25	200	12	56	144	130	8	30481761	○	30481799	○	30481837	○	30481876	○
33.00	25	200	12	56	144	130	8	30481762	○	30481800	○	30481838	○	30481877	○
34.00	25	200	12	56	144	130	8	30481763	○	30481801	○	30481839	○	30481878	○
35.00	25	200	12	56	144	130	8	30481764	○	30481802	○	30481840	○	30481879	○
36.00	25	200	12	56	144	130	8	30481765	○	30481803	○	30481841	○	30481880	○
37.00	25	200	12	56	144	130	8	30481766	○	30481804	○	30481842	○	30481881	○
38.00	25	200	12	56	144	130	8	30481767	○	30481805	○	30481843	○	30481882	○
39.00	25	200	12	56	144	130	8	30481768	○	30481806	○	30481844	○	30481883	○
40.00	25	200	12	56	144	130	8	30481769	○	30481807	○	30481845	○	30481884	○

All dimensions in mm.

For machining values see end of catalogue.

Information on special designs and other coatings on request.

● These products are available ex stock.

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■ Outstanding material suitability.

☐ Limited material suitability.

★ Suitability only with special blade geometry and coating.

MR 01, 02, 03 - Configurable | 04165x, 04175x, 04185x

Configurable series, fixed, expandable, finely adjustable design,
with brazed blades, for blind bore, internal coolant supply



MR 01, MR 02, MR 03

Product code	Cutting material	Coating	P ₁	P ₂	P ₃	M ₁	M ₂	K ₁	K ₂	K ₃	N ₁	N ₂	N ₃	N ₄	N ₅	S	H
041650	Carbide	Uncoated	☐	☐	☐			☐	☐	☐	■	☐	☐	■			
041651	Carbide	BSP	■	■	■	★	★	■	■	■						★	★
041652	Cermet	Uncoated	■	■	☐				■	☐							
041653	Cermet	Coated	■	■	■			■	■	■							
041750	Carbide	Uncoated	☐	☐	☐			☐	☐	☐	■	☐	☐	■			
041751	Carbide	BSP	■	■	■	★	★	■	■	■						★	★
041752	Cermet	Uncoated	■	■	☐				■	☐							
041753	Cermet	Coated	■	■	■			■	■	■							
041850	Carbide	Uncoated	☐	☐	☐			☐	☐	☐	■	☐	☐	■			
041851	Carbide	BSP	■	■	■	★	★	■	■	■						★	★
041852	Cermet	Uncoated	■	■	☐				■	☐							
041853	Cermet	Coated	■	■	■			■	■	■							

Dimensions								
d ₁	d ₂ h6	l ₁	l ₂	l ₃	l ₄	l ₅	z	Stock
7.700 - 8.200	12	120	8	45	75	64	4	○
8.201 - 8.700	12	120	8	45	75	64	4	○
8.701 - 9.200	12	120	8	45	75	64	4	○
9.201 - 9.700	12	120	8	45	75	65	4	○
9.701 - 10.200	12	120	8	45	75	65	6	○
10.201 - 10.700	12	120	8	45	75	65	6	○
10.701 - 11.200	12	120	8	45	75	65	6	○
11.201 - 11.700	12	120	8	45	75	65	6	○
11.701 - 12.200	16	140	8	48	92	80	6	○
12.201 - 12.700	16	140	8	48	92	80	6	○
12.701 - 13.200	16	140	8	48	92	80	6	○
13.201 - 14.200	16	140	8	48	92	80	6	○
14.201 - 15.200	16	140	8	48	92	80	6	○
15.201 - 16.200	16	140	8	48	92	80	6	○
16.201 - 17.200	16	140	8	48	92	80	6	○
17.201 - 18.200	20	160	12	50	110	98	6	○
18.201 - 19.200	20	160	12	50	110	99	6	○
19.201 - 20.200	20	160	12	50	110	100	6	○
20.201 - 21.200	20	160	12	50	110	100	6	○
21.201 - 22.200	20	160	12	50	110	100	6	○
22.201 - 23.200	20	180	12	50	130	120	6	○
23.201 - 24.200	20	180	12	50	130	120	6	○
24.201 - 25.200	20	180	12	50	130	120	6	○
25.201 - 26.200	20	180	12	50	130	120	6	○
26.201 - 27.200	20	180	12	50	130	120	6	○
27.201 - 28.200	25	200	12	56	144	130	6	○
28.201 - 29.200	25	200	12	56	144	130	6	○
29.201 - 30.200	25	200	12	56	144	130	8	○
30.201 - 31.200	25	200	12	56	144	130	8	○
31.201 - 32.200	25	200	12	56	144	130	8	○
32.201 - 33.200	25	200	12	56	144	130	8	○
33.201 - 34.200	25	200	12	56	144	130	8	○
34.201 - 35.200	25	200	12	56	144	130	8	○
35.201 - 36.200	25	200	12	56	144	130	8	○
36.201 - 37.200	25	200	12	56	144	130	8	○
37.201 - 38.200	25	200	12	56	144	130	8	○
38.201 - 39.200	25	200	12	56	144	130	8	○
39.201 - 40.200	25	200	12	56	144	130	8	○

All dimensions in mm.

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