

Reamers

HRM

ハンドリーマ (百分台)
Hand Reamers (0.01steps)



Endmills

Drills

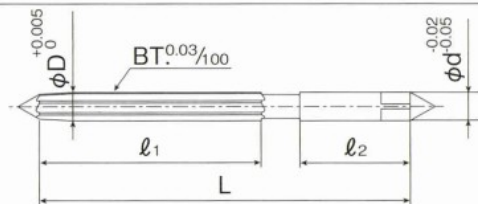


- 鋳鉄、鉄鋼一般の穴仕上げ加工
For hole finishing of cast iron and steels
- MCO材(コバルト高速度鋼)を使用
Uses MCO material (Cobalt high-speed steel)

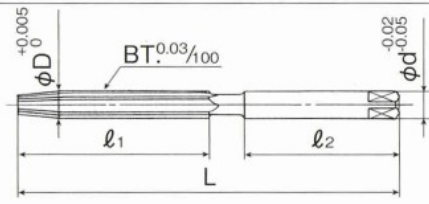
Countersinks/
Counterbores

Slitting Saws/
Cut-off tools

Cutters



食付き角 1° 1°Chamfer
※図はφ3.0未満の形状です。 Figure is shape of less than φ3.0



食付き角 1° 1°Chamfer
※図はφ3.0以上の形状です。 Figure is shape of φ3.0 or more

品番 Product No.	寸法 Size						標準価格 Standard price ¥
	刃径 D	シャンク径 d	刃長 l1	シャンク長 l2	全長 L	刃数 NT	
HRM100	1.00	2.0	20	15	40	4	5,600
HRM101~109	1.01~1.09	2.0	20	15	40	4	5,600
HRM111~119	1.11~1.19	2.0	20	15	40	4	5,600
HRM121~129	1.21~1.29	2.0	25	15	45	4	5,600
HRM131~139	1.31~1.39	2.0	25	15	45	4	5,600
HRM141~149	1.41~1.49	2.0	25	15	45	4	5,600
HRM151~159	1.51~1.59	3.0	25	19	50	4	5,300
HRM161~169	1.61~1.69	3.0	25	19	50	4	5,300
HRM171~179	1.71~1.79	3.0	25	19	50	4	5,300
HRM181~189	1.81~1.89	3.0	30	19	55	4	5,300
HRM191~199	1.91~1.99	3.0	30	19	55	4	5,300
HRM200	2.00	3.0	30	23	60	4	4,800
HRM201~209	2.01~2.09	3.0	30	23	60	4	4,800
HRM211~219	2.11~2.19	3.0	30	23	60	4	4,800
HRM221~229	2.21~2.29	3.0	30	23	60	4	4,800
HRM231~239	2.31~2.39	3.0	30	23	60	4	4,800
HRM241~249	2.41~2.49	3.0	30	23	60	4	4,800
HRM251~259	2.51~2.59	3.0	35	23	65	4	4,500
HRM261~269	2.61~2.69	3.0	35	23	65	4	4,500
HRM271~279	2.71~2.79	3.0	35	23	65	4	4,500
HRM281~289	2.81~2.89	3.0	35	23	65	4	4,500
HRM291~299	2.91~2.99	3.0	35	23	65	4	4,500
HRM300	3.00	3.0	40	23	72	6	4,000
HRM301~309	3.01~3.09	3.0	40	23	72	6	4,000
HRM311~319	3.11~3.19	3.0	40	23	72	6	4,000
HRM321~329	3.21~3.29	3.0	40	23	72	6	4,000
HRM331~339	3.31~3.39	3.0	40	23	72	6	4,000
HRM341~349	3.41~3.49	3.5	40	26	75	6	4,000
HRM351~359	3.51~3.59	3.5	40	26	75	6	4,000
HRM361~369	3.61~3.69	3.5	40	26	75	6	4,000

品番 Product No.	寸法 Size						標準価格 Standard price ¥
	刃径 D	シャンク径 d	刃長 l1	シャンク長 l2	全長 L	刃数 NT	
HRM371~379	3.71~3.79	3.5	40	26	75	6	4,000
HRM381~389	3.81~3.89	3.5	40	26	75	6	4,000
HRM391~399	3.91~3.99	4.0	40	30	80	6	4,000
HRM400	4.00	4.0	40	30	80	6	4,000
HRM401~409	4.01~4.09	4.0	40	30	80	6	4,000
HRM411~419	4.11~4.19	4.0	40	30	80	6	4,000
HRM421~429	4.21~4.29	4.0	40	30	80	6	4,000
HRM431~439	4.31~4.39	4.0	40	30	80	6	4,000
HRM441~449	4.41~4.49	4.5	45	30	85	6	4,000
HRM451~459	4.51~4.59	4.5	45	30	85	6	4,000
HRM461~469	4.61~4.69	4.5	45	30	85	6	4,000
HRM471~479	4.71~4.79	4.5	45	30	85	6	4,000
HRM481~489	4.81~4.89	4.5	45	30	85	6	4,000
HRM491~499	4.91~4.99	4.5	45	35	90	6	4,000
HRM500	5.00	5.0	45	35	90	6	4,500
HRM501~509	5.01~5.09	5.0	45	35	90	6	4,500
HRM511~519	5.11~5.19	5.0	45	35	90	6	4,500
HRM521~529	5.21~5.29	5.0	45	35	90	6	4,500
HRM531~539	5.31~5.39	5.0	45	35	90	6	4,500
HRM541~549	5.41~5.49	5.0	45	38	95	6	4,500
HRM551~559	5.51~5.59	5.5	45	38	95	6	4,500
HRM561~569	5.61~5.69	5.5	45	38	95	6	4,500
HRM571~579	5.71~5.79	5.5	45	38	95	6	4,500
HRM581~589	5.81~5.89	5.5	45	38	95	6	4,500
HRM591~599	5.91~5.99	5.5	50	38	100	6	4,500
HRM600	6.00	6.0	50	38	100	6	5,000
HRM601~609	6.01~6.09	6.0	50	38	100	6	5,000
HRM611~619	6.11~6.19	6.0	50	38	100	6	5,000
HRM621~629	6.21~6.29	6.0	50	38	100	6	5,000
HRM631~639	6.31~6.39	6.0	50	38	100	6	5,000

■食付き長さ Chamfer length ハンドリーマ (HR)、スパイラル刃ハンドリーマ (SPHR)

外径 Dia. (D)	食付き長さ Chamfer length (mm)
1.0をこえ 1.19以下 1.19 or less exceeding 1.0	4
1.19をこえ 1.79以下 1.79 or less exceeding 1.19	5
1.79をこえ 2.49以下 2.49 or less exceeding 1.79	6
2.49をこえ 2.97以下 2.97 or less exceeding 2.49	7
2.97をこえ 4.0以下 4.0 or less exceeding 2.97	8
4.0をこえ 5.0以下 5.0 or less exceeding 4.0	9
5.0をこえ 6.5以下 6.5 or less exceeding 5.0	10

外径 Dia. (D)	食付き長さ Chamfer length (mm)
6.5をこえ 7.5以下 7.5 or less exceeding 6.5	11
7.5をこえ 8.5以下 8.5 or less exceeding 7.5	12
8.5をこえ 9.5以下 9.5 or less exceeding 8.5	13
9.5をこえ 10.5以下 10.5 or less exceeding 9.5	14
10.5をこえ 12.0以下 12.0 or less exceeding 10.5	15
12.0をこえ 13.0以下 13.0 or less exceeding 12.0	16
13.0をこえ 14.0以下 14.0 or less exceeding 13.0	17

外径 Dia. (D)	食付き長さ Chamfer length (mm)
14.0をこえ 15.0以下 15.0 or less exceeding 14.0	18
15.0をこえ 16.0以下 16.0 or less exceeding 15.0	19
16.0をこえ 17.0以下 17.0 or less exceeding 16.0	20
17.0をこえ 19.0以下 19.0 or less exceeding 17.0	21
19.0をこえ 20.0以下 20.0 or less exceeding 19.0	22
20.0をこえ 22.0以下 22.0 or less exceeding 20.0	24
22.0をこえ 65.0以下 65.0 or less exceeding 22.0	25

リーマ

エンドミル

ドリル

面取り/
座ぐり

メタルソー

カッター

品番 Product No.	寸法 Size						標準価格 Standard price ¥
	刃径 D	シャン径 d	刃長 ℓ ₁	シャン長 ℓ ₂	全長 L	刃数 NT	
HRM641~649	6.41~6.49	6.0	50	38	100	6	5,000
HRM651~659	6.51~6.59	6.5	50	38	100	6	5,000
HRM661~669	6.61~6.69	6.5	50	38	100	6	5,000
HRM671~679	6.71~6.79	6.5	50	38	100	6	5,000
HRM681~689	6.81~6.89	6.5	50	38	100	6	5,000
HRM691~699	6.91~6.99	6.5	55	38	105	6	5,000
HRM700	7.00	7.0	55	38	105	6	5,700
HRM701~709	7.01~7.09	7.0	55	38	105	6	5,700
HRM711~719	7.11~7.19	7.0	55	38	105	6	5,700
HRM721~729	7.21~7.29	7.0	55	38	105	6	5,700
HRM731~739	7.31~7.39	7.0	55	38	105	6	5,700
HRM741~749	7.41~7.49	7.0	55	42	110	6	5,700
HRM751~759	7.51~7.59	7.5	55	42	110	6	5,700
HRM761~769	7.61~7.69	7.5	55	42	110	6	5,700
HRM771~779	7.71~7.79	7.5	55	42	110	6	5,700
HRM781~789	7.81~7.89	7.5	55	42	110	6	5,700
HRM791~799	7.91~7.99	7.5	60	42	115	6	5,700
HRM800	8.00	8.0	60	42	115	6	6,400
HRM801~809	8.01~8.09	8.0	60	42	115	6	6,400
HRM811~819	8.11~8.19	8.0	60	42	115	6	6,400
HRM821~829	8.21~8.29	8.0	60	42	115	6	6,400
HRM831~839	8.31~8.39	8.0	60	42	115	6	6,400
HRM841~849	8.41~8.49	8.0	60	45	120	6	6,400
HRM851~859	8.51~8.59	8.5	60	45	120	6	6,400
HRM861~869	8.61~8.69	8.5	60	45	120	6	6,400
HRM871~879	8.71~8.79	8.5	60	45	120	6	6,400
HRM881~889	8.81~8.89	8.5	60	45	120	6	6,400
HRM891~899	8.91~8.99	8.5	65	45	125	6	6,400
HRM900	9.00	9.0	65	45	125	6	6,900
HRM901~909	9.01~9.09	9.0	65	45	125	6	6,900
HRM911~919	9.11~9.19	9.0	65	45	125	6	6,900
HRM921~929	9.21~9.29	9.0	65	45	125	6	6,900

品番 Product No.	寸法 Size						標準価格 Standard price ¥
	刃径 D	シャン径 d	刃長 ℓ ₁	シャン長 ℓ ₂	全長 L	刃数 NT	
HRM931~939	9.31~9.39	9.0	65	45	125	6	6,900
HRM941~949	9.41~9.49	9.0	65	45	125	6	6,900
HRM951~959	9.51~9.59	9.5	65	45	125	6	6,900
HRM961~969	9.61~9.69	9.5	65	45	125	6	6,900
HRM971~979	9.71~9.79	9.5	65	45	125	6	6,900
HRM981~989	9.81~9.89	9.5	65	45	125	6	6,900
HRM991~999	9.91~9.99	9.5	70	45	130	6	6,900
HRM1000	10.00	10.0	70	45	130	6	7,700
HRM1001~1009	10.01~10.09	10.0	70	45	130	6	7,700

ハンド

マシン

チャッキング

スピードリーマ

ブリッジ

テーパピン

シェル