

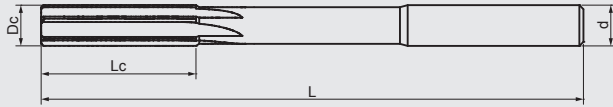
## R300

## Machine Reamers

Designed with left helix and right cutting flutes.

Downward chip evacuation.

Tolerance: Dc  
 +0.004/+0.008: 0.5-3.0  
 +0.005/+0.010: 3.0-6.0  
 +0.006/+0.012: 6.0-10  
 +0.008/+0.015: 10-18  
 +0.009/+0.017: 18-30



**VHM**  
Carbide

**HM**  
Carbide  
Tipped

Uncoated  
Bright



**Steel**  
Cast Iron  
AL, Copper



Application for reaming different steels below  
 48HRC, cast iron...and etc.

**P**  
**H**  
**K**

VHM

**P**  
**H**  
**K**





HM

## Standard Length

Dc H7	Lc mm	L mm	d mm	Z teeth	R300 Bright	R300 Bright
1	6	34	1	4	●	
1.5	8	40	1.5	4	●	
2	11	49	2	4	●	
2.5	14	57	2.5	4	●	
3	15	61	3	4	●	
3.5	18	70	3.5	4	●	
4	19	75	4	4	●	
4.5	21	80	4.5	4	●	
5	23	86	5	6	●	
6	26	93	6	6	●	
7	31	109	7	6	●	
8	33	117	8	6	●	
9	36	125	9	6	●	
10	38	133	10(※10)	6	●	●
11	41	142	10(※11)	6	●	●
12	44	151	10(※12)	6	●	●
13	44	151	10	6		●
14	47	160	12.5	6		●
15	50	162	12.5	6		●
16	52	170	12.5	6		●
18	56	182	14.0	6		●
20	60	195	16.0	6		●

Please refer to page 317 for parameters.

## Cutting Conditions

	R300		R301		R302		R303		R300 R301 R302 R303	
									cutting speed Vc (m/min)	feed per tooth fz(mm)
<b>Carbon Steel Materials</b>										
P	GR1 Carbon Steel	15	0.008xDc	15	0.008xDc	15	0.008xDc	15	0.007xDc	
	GR2 <24HRC Low-alloyed Steel	15	0.008xDc	15	0.008xDc	15	0.008xDc	15	0.007xDc	
	GR3 <30HRC Hi-alloyed Steel	12	0.006xDc	12	0.006xDc	12	0.006xDc	12	0.006xDc	
<b>Hardened Steel Materials</b>										
H	GR4 30-38HRC Hardened Steel	8	0.005xDc	8	0.005xDc	8	0.005xDc	8	0.005xDc	
	GR5 38-48HRC Hardened Steel	5	0.003xDc	5	0.003xDc	5	0.003xDc	5	0.003xDc	
<b>Stainless Steel Materials</b>										
M	GR8-1 Ferritic \ Martensitic	12	0.006xDc	12	0.006xDc	12	0.006xDc	12	0.006xDc	
	GR8-2 Austenitic	12	0.006xDc	12	0.006xDc	12	0.006xDc	12	0.006xDc	
	GR8-3 Austenitic-ferritic	12	0.006xDc	12	0.006xDc	12	0.006xDc	12	0.006xDc	
	GR8-4 Austenitic-ferritic Heat-resistant	8	0.004xDc	8	0.004xDc	8	0.004xDc	8	0.004xDc	
<b>Cast Iron Materials</b>										
K	GR9-1 Grey cast iron	15	0.006xDc	15	0.006xDc	15	0.006xDc	15	0.006xDc	
	GR9-2 Nodular cast iron	15	0.006xDc	15	0.006xDc	15	0.006xDc	15	0.006xDc	
<b>Aluminium Steel Materials</b>										
N	GR10-1 Wrought Aluminium alloys	20	0.006xDc	20	0.006xDc	20	0.006xDc	20	0.006xDc	
	GR10-2 Aluminium cast alloys <10%	20	0.006xDc	20	0.006xDc	20	0.006xDc	20	0.006xDc	
	GR10-3 Aluminium cast alloys >10%	20	0.006xDc	20	0.006xDc	20	0.006xDc	20	0.006xDc	
<b>Copper Steel Materials</b>										
N	GR11-1 Pure Copper	15	0.006xDc	15	0.006xDc	15	0.006xDc	15	0.006xDc	
	GR11-2 Brass	15	0.006xDc	15	0.006xDc	15	0.006xDc	15	0.006xDc	
	GR11-2 Bronze	15	0.006xDc	15	0.006xDc	15	0.006xDc	15	0.006xDc	

All cutting data serve for orientation only and should be adapted individually to the technical conditions on location

1. Please work with good rigidity / high precision facilities and collet chuck.
2. Please choose proper cutting fluid.
3. The cutting data is reference value only. Please adjust it according to your real working conditions.
4. If RPM is lower the reference value, the Feed rate (fz) and RPM should be reduced by the same proportion.
5. If vibration occurs during cutting, please reduce cutting parameter.