Technical Information

SUMMARY OF TC-GRADES FOR COLD ROLLING

Grade	ISO	%	%	%	%	Structure	Density	Hardness
	(DIN)	wc	Co	Ni	Other carbides		g/cm ³	HV30
TC-Structur	e - very fine							
H05	K05 - K10	94,0	6,0	-	-	very fine	14,90	1775
HF7	K05 - K10	92,7	7,0	-	0,3	very fine	14,79	1675
HF10	K20 - K30	89,5	10,0	-	0,5	very fine	14,46	1555
HF13	K30 - K40	86,4	13,0	-	0,6	very fine	14,16	1455
TC-Structur	e - fine and medium							
H10	G10/K10 - K20	93,8	6,0	-	0,2	fine	14,96	1575
GJ6	G10/K20	94,0	6,0	-	-	medium	14,96	1405
GJ9	G15/K30	91,0	9,0	-	-	medium	14,61	1275
GJ11	G20/K40	88,8	11,2	-	-	medium	14,43	1200
GJ15	G30	85,0	15,0	-	-	medium	14,03	1095
TC-Structur	e - medium/coarse and coarse							
GH13	B40	87,0	13,0	-	-	coarse	14,23	1100
GH20	G40	80,0	20,0	-	-	medium/coarse	13,55	940
GH25	G50	75,0	25,0	-	-	medium/coarse	13,10	825
TC with inci	eased chemical resistance - structure - fi	ne and medi	um					
N8	-	90,9	-	8,0	1,1	fine	14,65	1370
MJ11	-	88,9	6,2	3,8	1,1	medium	14,40	1200



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Tools for cold rolling

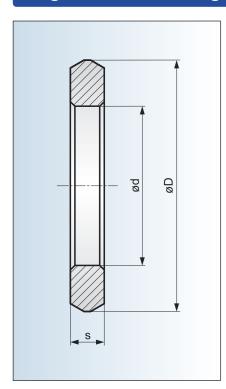


Standard dimensions
Special products according to customer request
TC-grade variants

TOOLS FOR WIRE AND TUBE COLD ROLLING



Rings for Wire Cold Rolling





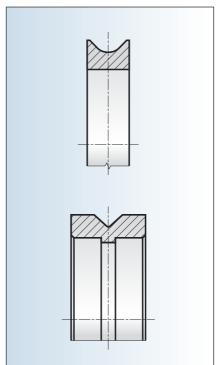
STANDARD DIMENSIONS OF ROLLING RINGS:

ØD	Variar	nts ⊘d	Variants s		
[mm]	[mm] [mm]		[mm]	[mm]	
75	55	-	15	-	
90	65	-	15	-	
100	65	-	15	20	
110	82	-	15	20	
125	82	-	15	20	
140	82	90	15	20	
150	90	110	15	20	
190	90	110	15	20	

Technical Information

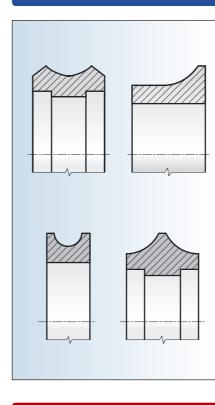
- Rolling rings are usually delivered with ground dimensions Ød and s.
- Periphery shape of rings according to customer specification.
- Possible to supply completely ground rings, with smooth round slot only, design of slot according to customer specification.
- Standard TC-grades are GJ15 or GH13, alternative TC-grade according to agreement (see summary of TC-grades).
- Other dimensions of rings according to customer request.
- Maximum external diameter (ØD) 250 mm.

Guide Rings and Rolls





Rings and Rolls for Tube Rolling and Special Rings for Wire Rolling





Technical Information

- This assortment of products are delivered according to customer request only, made as:
 - ground dimensions, usually internal diameter and faces
 - sintered with allowance for grinding
- Possible to supply some types of these products completely ground, according to customer specification.
- Maximum external diameter (ØD) 250 mm.
- Standard TC-grades are GJ11 and GJ15, alternative TC-grade according to agreement.

 Possibility of using TC-grade with increased chemical resistance (see summary of TC-grades).