

HRC-GRH ELASTIC COUPLINGS

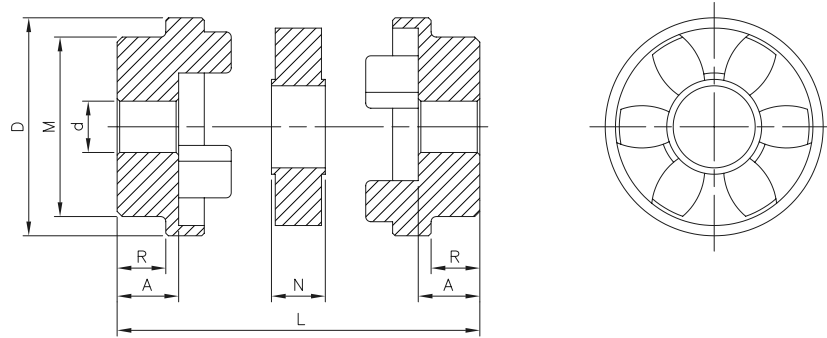


DRIVE  
SOLUTIONS

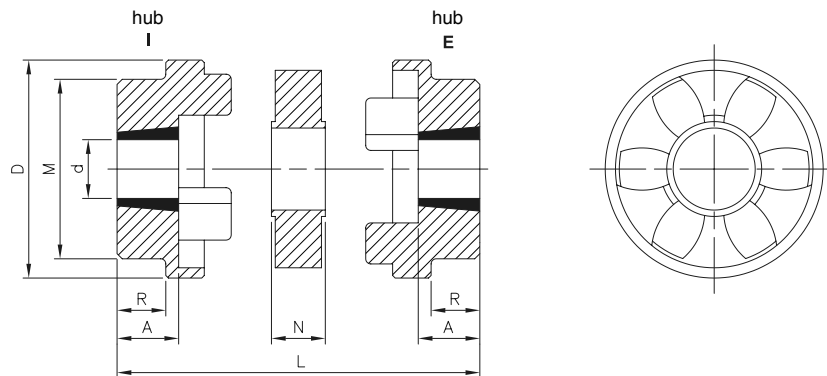
HRC-GRH



## HRC-GRH Dimensions



Size	Code	prebore (d) [mm]	Max bore [mm]	M [mm]	D [mm]	N [mm]	R [mm]	A [mm]	L [mm]	kg	Material
70	GRH070	10	32	60	69	18,0	20,0	23,5	65,0	0,60	cast iron GG25
90	GRH090	10	42	70	85	22,5	26,0	30,0	82,5	1,07	cast iron GG25
110	GRH110	10	55	100	112	29,0	37,0	45,0	119,0	3,05	cast iron GG25
130	GRH130	20	60	105	130	35,0	39,0	47,5	130,0	4,45	cast iron GG25
150	GRH150	20	70	115	150	40,0	46,0	56,0	152,0	6,10	cast iron GG25
180	GRH180	28	80	125	180	46,0	58,0	70,0	186,0	9,20	cast iron GG25
230	GRH230	45	100	155	225	58,0	77,0	90,0	238,0	17,75	cast iron GG25
280	GRH280	55	115	206	275	72,0	90,0	105,5	283,0	35,75	cast iron GG25



### For taper bush

Size	Hub BI code	Hub BE code	SER-SIT® taper bush	Bore diameter		M [mm]	D [mm]	N [mm]	R [mm]	A [mm]	L [mm]	kg	Material
				Min. [mm]	Max. [mm]								
70	GRHBI070	GRHBE70	1008	11	25	60	69	18,0	20,0	23,5	65,0	0,44	cast iron GG25
90	GRHBI090	GRHBE90	1108	11	28	70	85	22,5	19,5	23,5	69,5	0,72	cast iron GG25
110	GRHBI110	GRHBE110	1610	12	42	100	112	29,0	18,5	26,5	82,0	1,60	cast iron GG25
130	GRHBI130	GRHBE130	1610	12	42	105	130	35,0	18,0	26,5	88,0	2,27	cast iron GG25
150	GRHBI150	GRHBE150	2012	15	50	115	150	40,0	23,5	33,5	107,0	3,30	cast iron GG25
180	GRHBI180	GRHBE180	2517	19	65	125	180	46,0	34,5	46,5	139,0	5,37	cast iron GG25
230	GRHBI230	GRHBE230	3020	25	75	155	225	58,0	39,5	52,5	163,0	9,53	cast iron GG25
280	GRHBI280	GRHBE280	3525	35	90	206	275	72,0	51,0	66,5	205,0	20,50	cast iron GG25

### Spider

Size	Code	kg
70	ARH070	0,016
90	ARH090	0,050
110	ARH110	0,080
130	ARH130	0,150
150	ARH150	0,220
180	ARH180	0,380
230	ARH230	0,800
280	ARH280	1,530



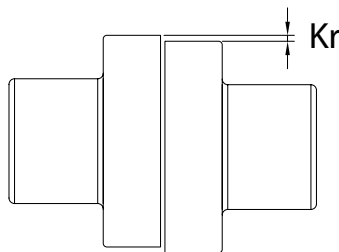
# Technical characteristics and misalignments

General purpose - HRC-GRH

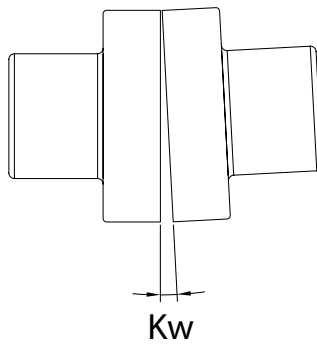
Size	Max speed [rpm]	Torque* [Nm]		Torsion spring rigidity [Nm/°]	Moments of inertia [kgm <sup>2</sup> ]	Max. shaft misalignment**		
		T <sub>KN</sub>	T <sub>Kmax</sub>			Radial ΔK <sub>r</sub> [mm]	Angular ΔK <sub>w</sub> [°]	Axial ΔK <sub>a</sub> [mm]
70	8100	31	72	-	0,00085	0,3	1	+0,2
90	6500	80	180	-	0,00115	0,3	1	+0,5
110	5200	160	360	65	0,00400	0,3	1	+0,6
130	4100	315	720	130	0,00780	0,4	1	+0,8
150	3600	600	1500	175	0,01810	0,4	1	+0,9
180	3000	950	2350	229	0,04340	0,4	1	+1,1
230	2600	2000	5000	587	0,12068	0,5	1	+1,3
280	2200	3150	7200	1025	0,44653	0,5	1	+1,7

\* Valid for shaft fit with keyway

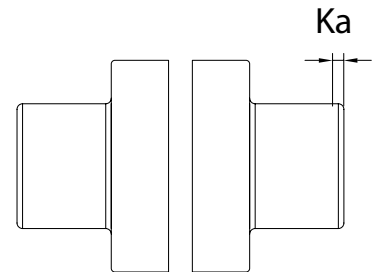
\*\* Values valid for n = 600 rpm and considered individually.  
 For speeds above 600 rpm there is a reduction in the offset and displacement values.  
 ≤ 0,8 601 - 1000 rpm  
 ≤ 0,65 1001 - 1500 rpm  
 ≤ 0,50 1501 - 3000 rpm



Radial misalignment



Angular misalignment



Axial misalignment

**Solid hub** **GRH 180**

Hub HRC-GRH

Size

**Hub for taper bushing** **GRH BE 180**

Hub HRC-GRH

Taper bushing type  
 BE: mounting bushing from outside  
 BI: mounting bushing from inside

Size

**Spider** **ARH 180**

Elastic spider for HRC-GRH coupling

Size

