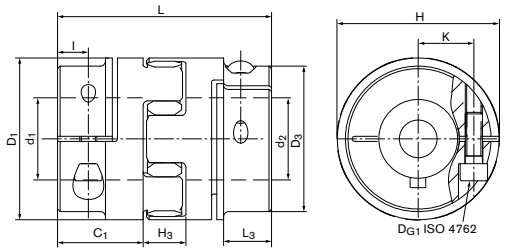
Backlash-free Servo-Insert Couplings

GERWAH® GWE 5104

Dimensions



Keyway according DIN 6885-1 optionally

Dimensions

d_1, d_{2min} = Min. bore diameter without keyway
d_1, d_{2max} = Max. bore diameter without keyway
d_{1k}, d_{2kmin} = Min. bore diameter with keyway acc. to DIN 6885-1
d_{1k}, d_{2kmax} = Max. bore diameter with keyway acc. to DIN 6885-1

C_1 = Guided length in hub boring
D_1 = Outer diameter hub
D_3 = Outer diameter hub
H = Clearance diameter
H_3 = Length of damping part

l = Distance between center screw hole and hub end
K = Distance shaft axis - clamping screw axis
L = Total length
L_3 = Section length of hub

Size	$d_1; d_2$ min-max Without keyway	$d_{1k}; d_{2k}$ min-max With keyway	C_1	D_1	D_3	H	H_3	l	K	L	L_3
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
14	5 - 16	5 - 16	11	30	---	32,2	13	5	11	35	---
19	6 - 20	6 - 20	25	40	---	46	16	12	14,5	66	---
24	10 - 32	10 - 32	30	55	---	57	18	10,5	20	78	---
28	10 - 38	10 - 38	35	65	---	71	20	11,5	24,5	90	---
38	12 - 48	12 - 48	45	80	---	83	24	15,5	30	114	---
42	14 - 54	14 - 54	50	95	85	95	26	18	32,5	126	28
48	15 - 60	15 - 60	56	105	95	106	28	21	37	140	32
55	35 - 74	35 - 74	65	120	---	120	30	26	45	160	---
65	35 - 80	35 - 80	75	135	---	135	35	28	50	185	---
75	30 - 95	30 - 95	85	160	---	160	40	36	60	210	---

Transmission of the couplings transmissible torque T can not longer be guaranteed for certain with borings < d_{min}. Types with borings < d_{min}, however, can be supplied.

Moment of inertia and weight (mass) are calculated with reference to the largest bore size.

To continue see next page

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Technische Daten

T = Transmissible torque at given T_A
H_{es} = Hardness of the elastomeric spider
n_{max} = Max. rotation speed
J = Total moment of inertia
Gw = Weight
D_{G1} = Thread diameter
T_{A1} = Tightened torque of clamping screw (G1)

Size	T	H_{es}	n_{max}	J	Gw	D_{G1}	T_{A1}
	Nm		1/min	10^{-3} Kgm²	kg	mm	Nm
14	12,5	98 SH A	13000	0,006	0,042	1 x M3	2
19	17	98 SH A	10000	0,036	0,158	1 x M6	11
24	60	98 SH A	7000	0,15	0,304	1 x M6	15
28	160	98 SH A	6000	0,33	0,505	1 x M8	32
38	325	98 SH A	5000	0,96	0,934	1 x M8	38
42	450	98 SH A	4000	4,92	3,8	1 x M10	84
48	525	98 SH A	3600	8,26	4,9	1 x M12	145
55	685	98 SH A	3150	19,15	10,2	1 x M12	145
65	940	95 SH A	2800	30,72	13,7	1 x M12	145
75	1920	95 SH A	2350	66,68	21,34	1 x M16	295

Transmissible torque T [Nm]

Size	Ø5	Ø6	Ø8	Ø10	Ø12	Ø14	Ø16	Ø20	Ø25	Ø30	Ø35	Ø40	Ø45	Ø50	Ø55	Ø60	Ø65	Ø70	Ø80	Ø90	Ø95
14	4,8	6,0	7,7	9,4	11	12,5	12,5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	---	16	17	17	17	17	17	17	---	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	37	43	50	56	60	60	60	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	61	72	83	94	114	138	160	160	---	---	---	---	---	---	---	---	---	---
38	---	---	---	---	87	100	113	138	168	197	225	251	277	---	---	---	---	---	---	---	---
42	---	---	---	---	---	174	197	242	296	348	398	450	450	---	---	---	---	---	---	---	---
48	---	---	---	---	---	---	276	343	424	502	525	525	525	525	525	---	---	---	---	---	---
55	---	---	---	---	---	---	---	---	---	---	630	685	685	685	685	685	685	685	---	---	---
65	---	---	---	---	---	---	---	---	---	---	634	714	791	866	940	940	940	940	940	---	---
75	---	---	---	---	---	---	---	---	---	---	998	1125	1250	1370	1489	1604	1718	1830	1920	1920	1920

Ordering example: GWE 5104

Series/Size	Bore diameter d_1	Bore diameter d_2	Further details
GWE 5104-42	20	25	*

* Keyway

Subject to technical changes.