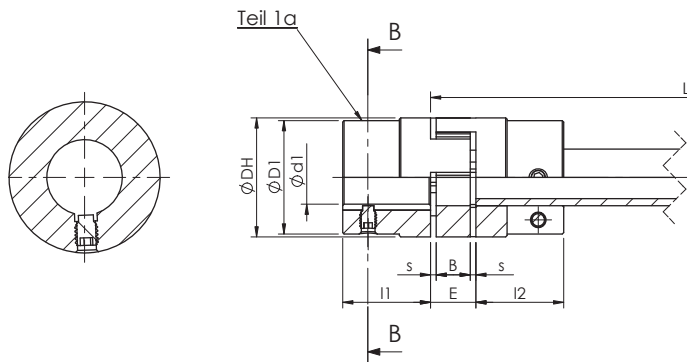


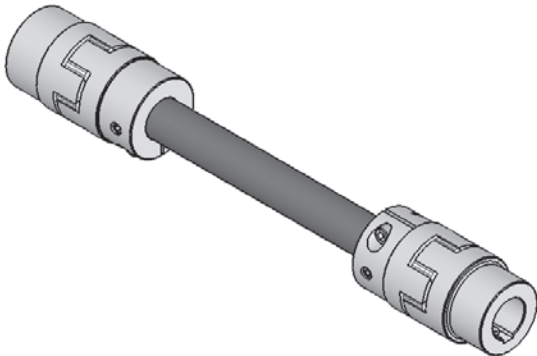
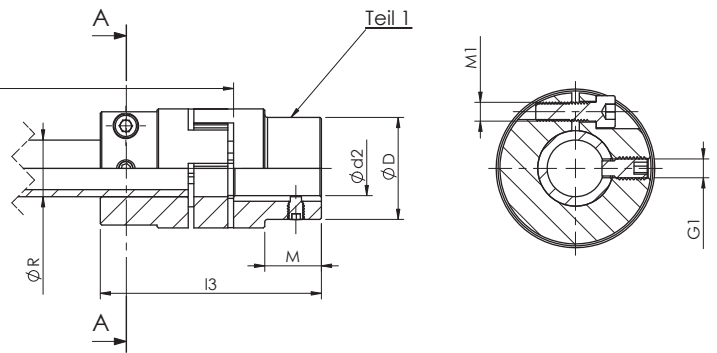
# Universal joint shaft ZR

The ZR universal joint shaft is particularly torsionally flexible and serves to bridge large shaft distances at rotary speeds of up to 1500 rpm. Thanks to the double arrangement of the toothed rings, large radial displacements are possible with good damping characteristics. The ZR universal joint shaft can be mounted radially without shifting the gearbox or the motor.

Selection B-B



Selection A-A

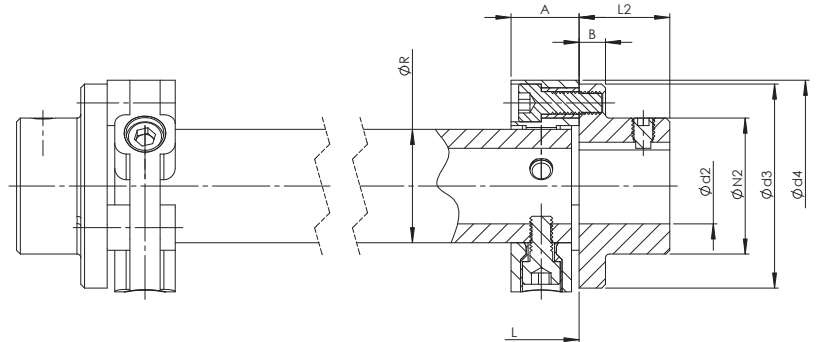
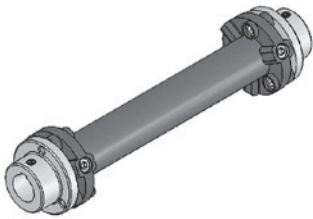


Size	Manufacturing bore $\text{ØdH7}^{2)}$		$\text{Ø DH}$	$\text{Ø D}$	$\text{Ø D1}$	$\text{ØdH}$	l1	l2	M	s	b	E	l3	$\text{ØR}$	G1	dp	
	min $\text{Ød2}$	max $\text{Ød2}$															min $\text{Ød1}$
ZR 14	-	-	4	14	30	-	30	10.5	11	-	1.5	10	13	35	14x2	M4	2.5
ZR 19	6	19	19	24	40	32	41	18	25	20	2	12	16	66	20x3	M6	4
ZR 24	8	24	24	28	55	40	55	27	30	24	2	14	18	78	30x4	M8	5.5
ZR 28	10	28	28	38	65	48	65	30	35	28	2.5	15	20	90	35x4	M10	7
ZR 38	12	38	38	45	80	66	77	38	45	37	3	18	24	114	40x4	M12	8.5
ZR 42	28	42	42	55	95	75	94	46	50	40	3	20	26	126	45x4	M12	8.5
ZR 48	28	48	48	60	105	85	102	51	56	45	3.5	21	28	140	50x4	M16	12

# Universal joint shaft GX

Torsionally rigid universal joint shafts are used to connect several worm gear screw jacks. The shafts attenuate noise, vibrations and impacts and compensate for axial, radial and angular errors. They offer exceptional torsional rigidity, high temperature and oil resistance and are particularly suitable where long lengths and/or high speeds are required. Elastic universal joint shafts are maintenance-free; the central section can be removed radially (to the side) without axial displacement of the connected units.

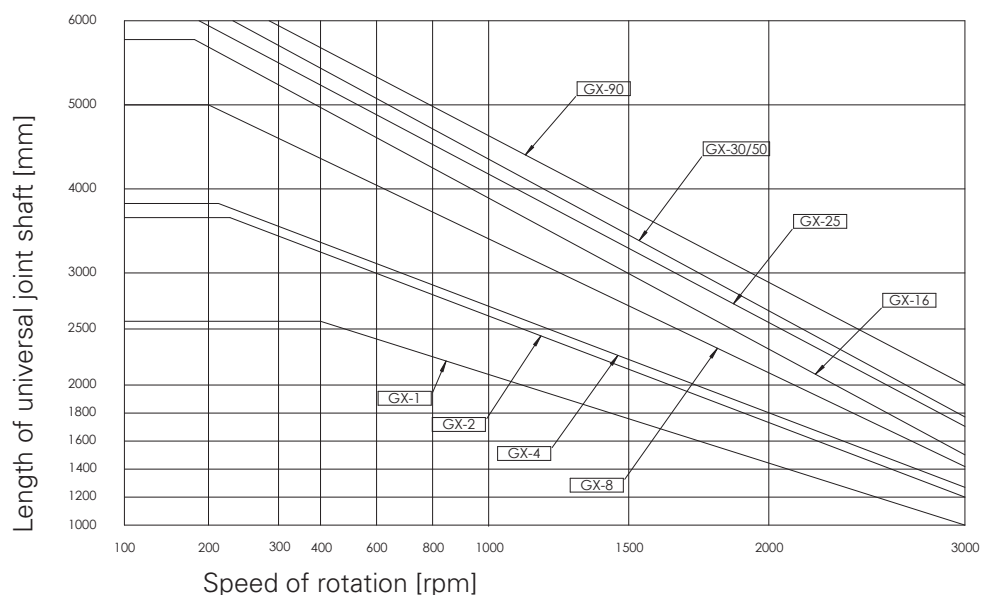
They are supplied as a length of tube (dimension L to be specified by customer) fitted with coupling assemblies at both ends. Pedestal bearings are generally not required, except for very long connections. For optimum alignment of the screw jacks, we recommend the use of universal joint shafts with clamping sets



Size	A	B	C	Ø d <sub>3</sub>	Pilot hole d	Manufacturing bore ØdH7 2) D max <sup>(2)</sup>	E	F	L <sub>2</sub>	Ø N <sub>2</sub>	Ø R	T	T <sub>k</sub> / M
GX - 1	24	7	5	56	8	25	22	2	24	36	30	1.5	Ø44/2xM6
GX - 2	24	8	5	85	12	38	20	4	28	55	40	1.5	Ø68/2xM8
GX - 4	28	8	5	100	15	45	24	4	30	65	45	1.5	Ø80/3xM8
GX - 8	32	10	5	120	18	55	28	4	42	80	60	1.5	Ø100/3xM10
GX - 16	42	12	5	150	20	70	36	6	50	100	70	1.5	Ø125/3xM12
GX - 25	46	14	5	170	20	85	40	6	55	115	85	1.5	Ø140/3xM14
GX - 30	58	16	5	200	25	100	50	8	66	140	100	1.5	Ø165/3xM16
GX - 50	58	16	5	200	25	100	50	8	66	140	100	1.5	Ø165/3xM16
GX - 90	70	19	5	260	30	110	62	8	80	160	125	2	Ø215/3xM20

## Universal joint shaft diagram as a function of length and speed

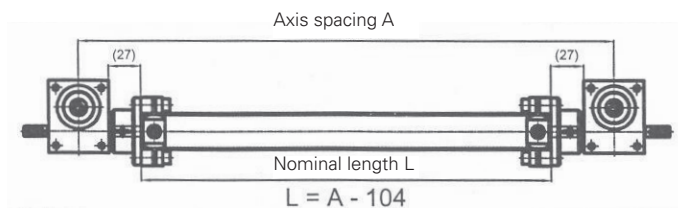
permissible speed = speed of rotation \* 0,8



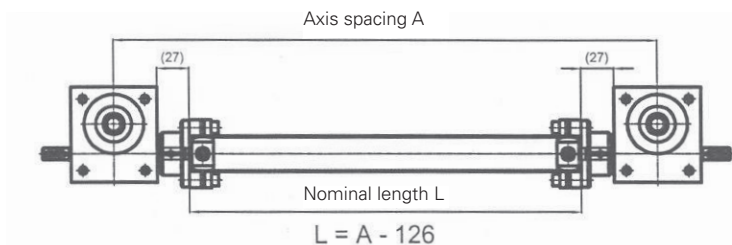
# Universal joint shaft GX

Length of the universal joint shaft for screw jacks M with feather key groove

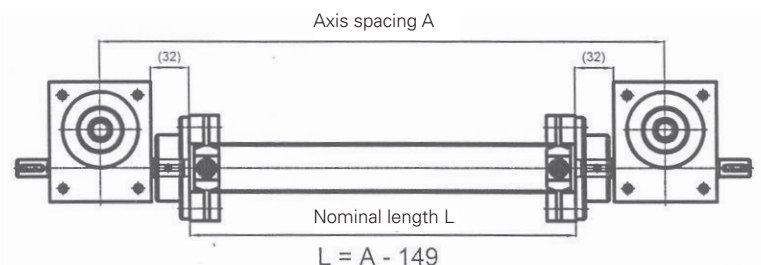
**M 0**



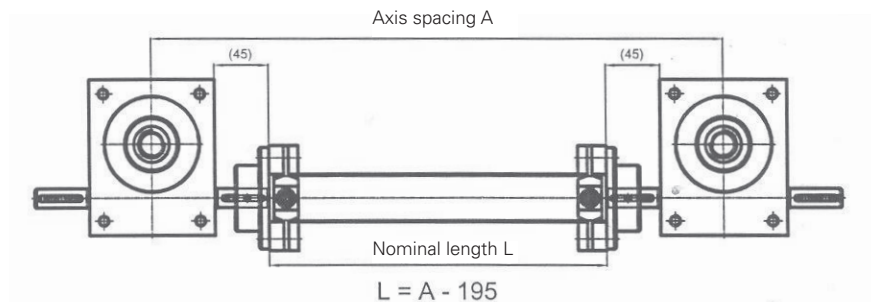
**M 1**



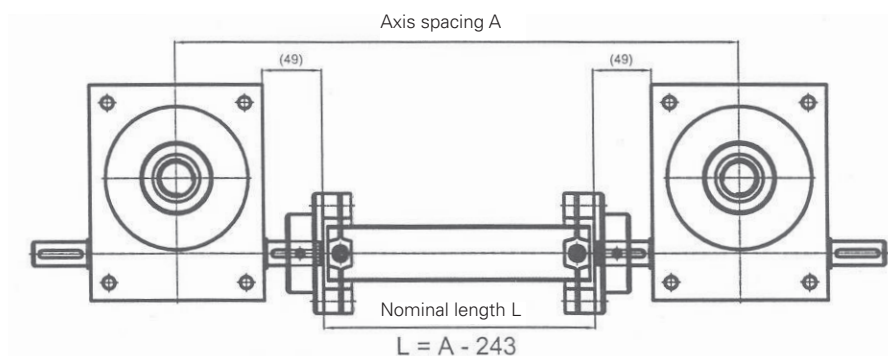
**M 2**



**M 3**



**M 4**



**M 5**

