

Precision Worm Gear Sets - Right Hand (Worm Gears and Worm Shafts)

Pressure angle: 20°.

Material: Worm gears with cast iron hub made from grey cast iron GG20 and toothed ring made from special worm-gear bronze (G-CuSn12Ni).

Worm shafts made from steel C45 hardened. Shaft ends soft. Tooth flanks ground.

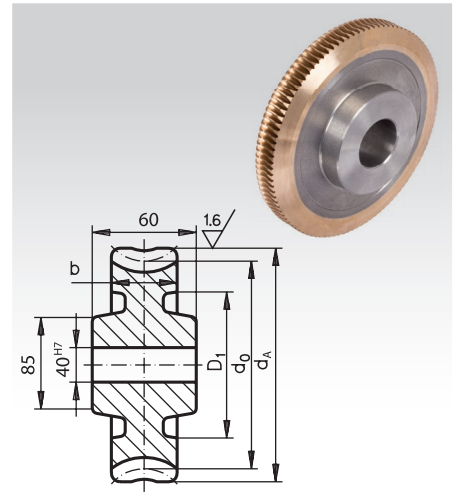
Worm Gears, Centre Distance in Casing $a = 100 \text{ mm} \pm 0.03$

Ordering Details: e.g.: Product No. 332 014 01, Prec.-Worm Gear, $a = 100$, $i = 14.5$

Product No.	Trans- mission	Module	Number of teeth	d_A mm	d_0 mm	D_1 mm	b mm	Md_2 at 1500min^{-1} Nm	η^*	Weight kg
332 014 01	14,5	5	29	165	150	-	38	485	0,87	5,95
332 026 01	26	3,15	52	176	166,5	115	26	430	0,84	5,15
332 029 01	29	5	29	165	150	-	38	550	0,75	5,8
332 039 01	39	4	39	172	160	-	32	470	0,76	5,7
332 062 01	62	2,5	62	165	157,5	112	28	510	0,66	4,9
332 082 01	82	2	82	170,5	164,5	118	26	450	0,62	4,7
332 107 01	107	1,6	107	177	172	128	26**	300	0,59	4,5

* The figures stated for the efficiency are only reference values, as besides the lead angle, mounting, lubrication, speed and assembly also have an influence on the efficiency.

** Width of the main body: 26 mm, tapered, to be paired with Tooth Width 20 mm.

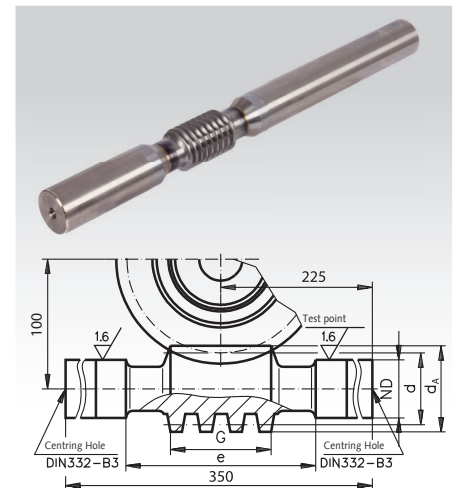


Worm Shafts, Centre Distance in Casing $a = 100 \text{ mm} \pm 0.03$

Ordering Details: e.g.: Product No. 332 014 02, Pr.-Worm Shaft, $a = 100$, $i = 14.5$

Product No.	Trans- mission	Module	Number of Threads	d_A mm	d mm	ND mm	G mm	e mm	η^*	Weight kg
332 014 02	14,5	5	2	60	50	40,5	70	110	0,87	3,85
332 026 02	26	3,15	2	39,8	33,5	40,5	58	110	0,84	3,05
332 029 02	29	5	1	60	50	40,5	70	110	0,75	3,86
332 039 02	39	4	1	48	40	40,5	64	110	0,76	3,3
332 062 02	62	2,5	1	47,5	42,5	40,5	50	90	0,66	3,5
332 082 02	82	2	1	39,5	35,5	40,5	46	90	0,62	3,2
332 107 02	107	1,6	1	31,2	28	30,5	42	90	0,59	1,85

* The figures stated for the efficiency are only reference values, as besides the lead angle, mounting, lubrication, speed and assembly also have an influence on the efficiency.



Self-locking capacity

The self-locking capacity is influenced by the lead angle, the surface structure of the flanks, the sliding speed, the lubricant and the heating.

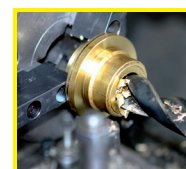
For worm gears with centre distance $a=100\text{mm}$ and 125mm :

Up to ratio 39:1 not self-locking.

From ratio 62:1 Static self-locking.

Shocks or vibration can override the self-locking capacity. Apart from that, various factors in connection with lubrication, gliding speed and load can create such favourable operating conditions that the self-locking capacity is negatively influenced.

For this reason we cannot grant any guarantee regarding the self-locking capacity.



**Reworking within
24h-service possible.
Custom made parts
on request.**