

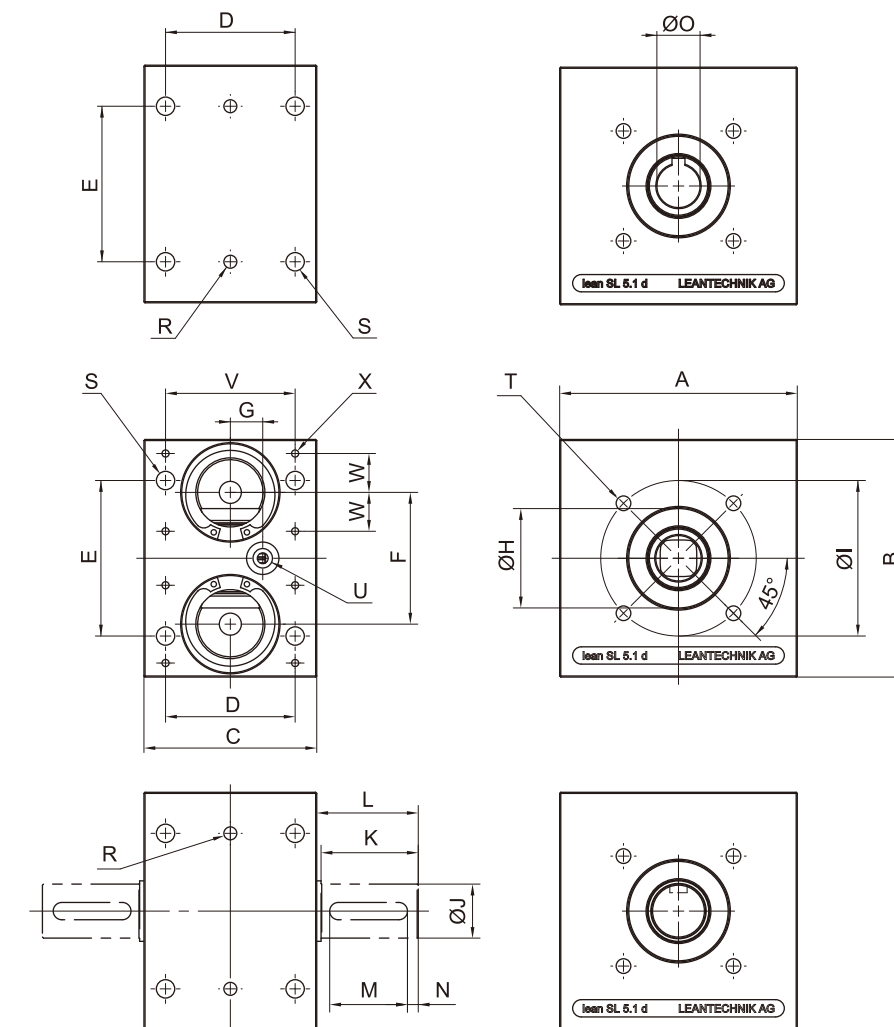
Ext. Dimensions [mm]

Description	Symbol	Unit	SL U1	SL U2	SL U3
	A	mm	80	110	180
	B	mm	80	110	180
	C	mm	70	80	130
	D	mm	55	60	105
	E	mm	50	72	120
	F	mm	59	85.5	139.5
	G	mm	26	30	55
Locating Flange	H	mm	Ø 26 K6 Depth 3	Ø 47 K6 Depth 4	Ø 72 K6 Depth 4
	I	mm	Ø 48	Ø 72	Ø 110
Key DIN 6885 P9	J	mm	Ø 14 h7	Ø 25 h7	Ø 42 h7
	K	mm	30	45	60
	L	mm	32	47	62
	M	mm	25	36	50
	N	mm	2	5	5
Key DIN 6885 P9	O	mm	Ø 10 h7	Ø 20 h7	Ø 35 h7
	P	mm	Ø 6 h7 Depth 10	Ø 6 h7 Depth 10	Ø 6 h7 Depth 10
	R	mm	Ø 6 h7 Depth 5	Ø 6 h7 Depth 3	Ø 6 h7 Depth 5
	S	mm	M 8 Depth 16 Ø 6.8 Through Hole	M 10 Depth 20 Ø 8.5 Through Hole	M 12 Depth 27 Ø 10.2 Through Hole
	T	mm	M 6 Depth 12	M 8 Depth 12	M 10 Depth 20
Lube Hole	U	mm	M 10 x 1.0 Depth 10	M 10 x 1.0 Depth 10	M 10 x 1.0 Depth 10
	V	mm	52	60	100
	W	mm	15	18	35
Gear Rack Protection	X	mm	M 4 Depth 6	M 4 Depth 8	M 4 Depth 8
Weight	PW	kg	1.00	2.35	9.70
	ZA1	kg	1.11	2.70	11.55
	ZA2	kg	1.15	2.87	12.21
	PFN	kg	1.03	2.32	9.91

Model	SL U1	SL U2	SL U3
lean SL® PW	500 129	500 130	500 131
lean SL® ZA1	500 133	500 134	500 135
lean SL® ZA2	500 137	500 138	500 139
lean SL® PFN	500 141	500 142	500 143

lean SL® double Series


Make sure that the model number refers to the correct pinion shaft version


Ext. Dimensions [mm]


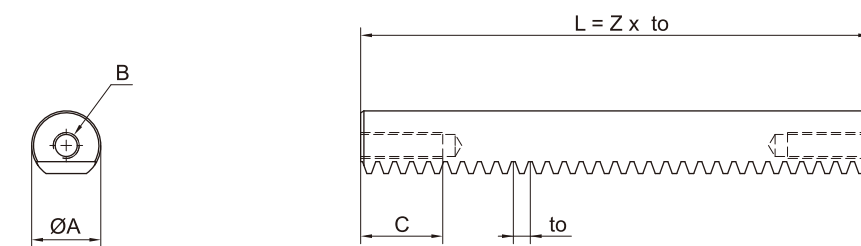
Ext. Dimensions [mm]

Description	Symbol	Unit	SL U1	SL U2	SL U3
	A	mm	80	110	180
	B	mm	80	110	180
	C	mm	70	80	130
	D	mm	55	60	105
	E	mm	50	72	120
	F	mm	38	61	99
	G	mm	20	15	15
Locating Flange	H	mm	Ø 26 K6 Depth 3	Ø 47 K6 Depth 4	Ø 72 K6 Depth 4
	I	mm	Ø 48	Ø 72	Ø 110
Key DIN 6885 P9	J	mm	Ø 14 h7	Ø 25 h7	Ø 42 h7
	K	mm	30	45	60
	L	mm	32	47	62
	M	mm	25	36	50
	N	mm	2	5	5
Key DIN 6885 P9	O	mm	Ø 10 h7	Ø 20 h7	Ø 35 h7
	P	mm	Ø 6 h7 Depth 10	Ø 6 h7 Depth 10	Ø 6 h7 Depth 10
	R	mm	Ø 6 h7 Depth 5	Ø 6 h7 Depth 3	Ø 6 h7 Depth 5
	S	mm	M 8 Depth 16 Ø 6.8 Through Hole	M 10 Depth 20 Ø 8.5 Through Hole	M 12 Depth 27 Ø 10.2 Through Hole
	T	mm	M 6 Depth 12	M 8 Depth 12	M 10 Depth 20
Lube Hole	U	mm	M 10 x 1.0 Depth 10	M 10 x 1.0 Depth 10	M 10 x 1.0 Depth 10
	V	mm	52	60	100
	W	mm	15	18	35
Gear Rack Protection	X	mm	M 4 Depth 6	M 4 Depth 8	M 4 Depth 8
	PW	kg	0.90	2.10	8.29
	ZA1	kg	1.01	2.45	10.14
	ZA2	kg	1.05	2.62	10.80
	PFN	kg	0.93	2.07	8.50

NOTE: In the "double" version, the maximum transmitted torque is the same as for the individual gearbox.

Model	SL U1	SL U2	SL U3
lean SL® double PW	500 145	500 146	500 147
lean SL® double ZA1	500 149	500 150	500 151
lean SL® double ZA2	500 153	500 154	500 155
lean SL® double PFN	500 157	500 158	500 159

lean SL® Gear racks

Ext. Dimensions [mm]


Description	Symbol	Unit	SL U1	SL U2	SL U3
	A	mm	Ø 25 h6	Ø 32 h6	Ø 60 h6
	B	mm	M 10	M 12	M 20
	C	mm	30	35	50
Number of Teeth	Z	mm	as per customer requirements		
Module	m	—	1.0	2.5	2.5
Tooth Pitch	to	mm	3.1416	7.8540	7.8540
Moment of Inertia	lx	mm ⁴	12,054	24,330	352,513
Moment of Inertia	ly	mm ⁴	17,856	44,042	572,284
Polar Moment of Inertia	lp	mm ⁴	29,910	68,372	924,797
Weight	—	kg/m	3.50	5.45	19.10

NOTE: lean SL® series gear racks are supported in sliding bushings.

They are designed to transfer tensile and compressive forces. They cannot bear transverse loads. See the technical data on Page 3.10.02.

The gear rack is symmetrical in construction. When using a gear rack protection, the gear rack length increases accordingly.

Have the theoretical lifespan calculated. Under high loads, or for long service life, we recommend the use of hardened & ground gear racks.

Always add the number of teeth "Z = _ _ _" to the model number.

Model	SL U1	SL U2	SL U3
lean SL® Gear Rack	500 161	500 162	500 163
lean SL® Gear Rack (Hardened & Ground)	500 165	500 166	500 167