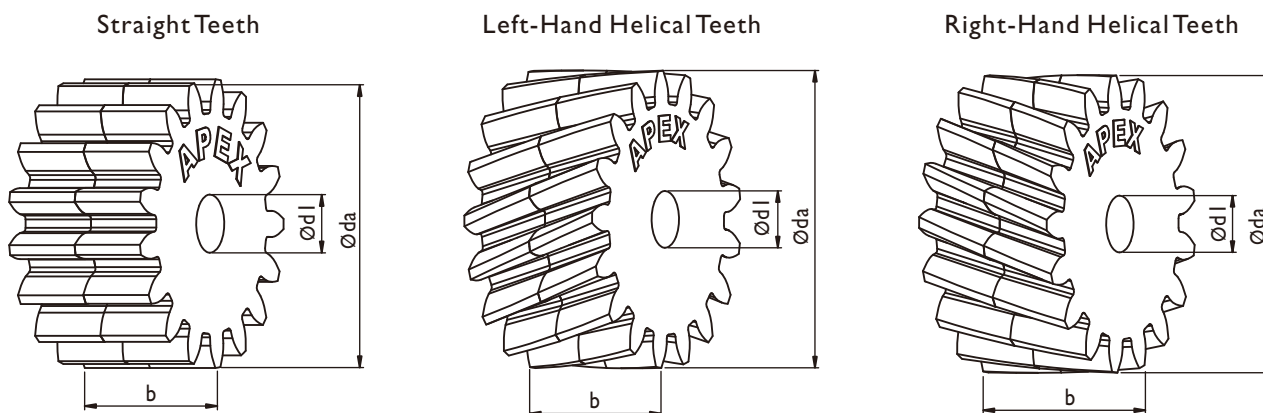


PU Lubrication Pinion

Effective Lubrication can be achieved through the use of APEX Lubrication System especially for Rack and Pinion. For uniform distribution of lubricant over rack surface, it's recommend to use a driving Pinion to allow evenly greasing.



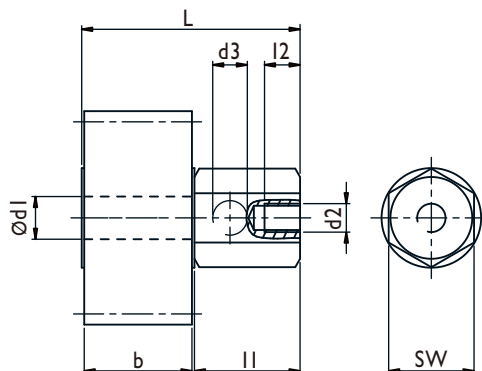
Module No.	Z ⁽¹⁾	Application	da ⁽²⁾	dF ⁽³⁾	dI	b	Order Code	Central Height a
1	36	Straight Teeth	38	36	12	15	PU-01-36S	$a = \frac{d + dF}{2} \text{ (4)}$ $A = h_0 + \frac{dF}{2} \text{ (5)}$
		Rack (Left-Hand Helical)	40.2	38.2			PU-01-36L	
		Pinion (Right-Hand Helical)	40.2	38.2			PU-01-36R	
1.5	24	Straight Teeth	39	36	12	20	PU-1J-24S	
		Rack (Left-Hand Helical)	41.2	38.2			PU-1J-24L	
		Pinion (Right-Hand Helical)	41.2	38.2			PU-1J-24R	
2	17	Straight Teeth	38	34	12	25	PU-02-17S	
		Rack (Left-Hand Helical)	40.1	36.1			PU-02-17L	
		Pinion (Right-Hand Helical)	40.1	36.1			PU-02-17R	
2.5	17	Straight Teeth	47.5	42.5	12	25	PU-2J-17S	
		Rack (Left-Hand Helical)	50.1	45.1			PU-2J-17L	
		Pinion (Right-Hand Helical)	50.1	45.1			PU-2J-17R	
3	17	Straight Teeth	57	51	12	30	PU-03-17S	
		Rack (Left-Hand Helical)	60.1	54.1			PU-03-17L	
		Pinion (Right-Hand Helical)	60.1	54.1			PU-03-17R	
4	17	Straight Teeth	76	68	12	40	PU-04-17S	
		Rack (Left-Hand Helical)	80.2	72.2			PU-04-17L	
		Pinion (Right-Hand Helical)	80.2	72.2			PU-04-17R	
5	17	Straight Teeth	95	85	20	50	PU-05-17S	
		Rack (Left-Hand Helical)	100.2	90.2			PU-05-17L	
		Pinion (Right-Hand Helical)	100.2	90.2			PU-05-17R	
6	17	Straight Teeth	114	102	20	60	PU-06-17S	
		Rack (Left-Hand Helical)	120.2	108.2			PU-06-17L	
		Pinion (Right-Hand Helical)	120.2	108.2			PU-06-17R	
8	17	Straight Teeth	152	136	20	80	PU-08-17S	
		Rack (Left-Hand Helical)	160.3	144.3			PU-08-17L	
		Pinion (Right-Hand Helical)	160.3	144.3			PU-08-17R	
10	17	Straight Teeth	190	170	20	100	PU-10-17S	
		Rack (Left-Hand Helical)	200.4	180.4			PU-10-17L	
		Pinion (Right-Hand Helical)	200.4	180.4			PU-10-17R	
12	14	Straight Teeth	192	168	25	120	PU-12-14S	
		Rack (Left-Hand Helical)	202.3	178.3			PU-12-14L	
		Pinion (Right-Hand Helical)	202.3	178.3			PU-12-14R	
1.591 (Pt 5)	24	Straight Teeth	41.4	38.2	12	20	PU-1K-24S	
3.183 (Pt 10)	17	Straight Teeth	60.5	54.1	12	30	PU-3B-17S	
4.244 (Pt 13.33)	17	Straight Teeth	80.6	72.1	12	40	PU-4D-17S	

(1) No. of Teeth (2) Tip Diameter (3) Pitch Diameter (4) Central Distance between PU Pinion and Pinion (d = Pinion Pitch Diameter)

(5) Central Distance between PU Pinion and Rack Bottom (h₀ = Height between Rack's pitch line to bottom)

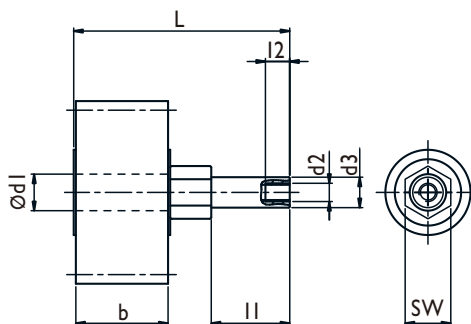
Tightening Shaft for PU Pinion

Tightening Shaft (Right-Angle)



Module No.	L	l1	l2	b	d1	d2	Hole d3	SW	Order Code
1	46.4	30	10	15	12	M8	G 1/8"	24	AUX-01-1
1.5	51.4	30	10	20	12	M8	G 1/8"	24	AUX-1J-1
2	56.4	30	10	25	12	M8	G 1/8"	24	AUX-02-1
2.5	56.4	30	10	25	12	M8	G 1/8"	24	
3	61.4	30	10	30	12	M8	G 1/8"	24	AUX-03-1
4	71.4	30	10	40	12	M8	G 1/8"	24	AUX-04-1
5	81.4	30	10	50	20	M8	G 1/8"	24	AUX-05-1
6	91.4	30	10	60	20	M8	G 1/8"	24	AUX-06-1
8	111.4	30	10	80	20	M8	G 1/8"	24	AUX-08-1
10	131.4	30	10	100	20	M8	G 1/8"	24	AUX-10-1
12	152	30	10	120	25	M8	G 1/8"	30	AUX-12-1
1.591 (Pt 5)	51.4	30	10	20	12	M8	G 1/8"	24	AUX-1J-1
3.183 (Pt 10)	61.4	30	10	30	12	M8	G 1/8"	24	AUX-03-1
4.244 (Pt 13.33)	71.4	30	10	40	12	M8	G 1/8"	24	AUX-04-1

Tightening Shaft (In-Line)



Module No.	L	l1	l2	b	d1	Hole d2	d3	SW	Order Code
1	56	30	12	15	12	M6	M10	17	AUX-01-2
1.5	61	30	12	20	12	M6	M10	17	AUX-1J-2
2	66	30	12	25	12	M6	M10	17	AUX-02-2
2.5	66	30	12	25	12	M6	M10	17	
3	71	30	12	30	12	M6	M10	17	AUX-03-2
4	81	30	12	40	12	M6	M10	17	AUX-04-2
5	116	49	12	50	20	G 1/8"	M16	24	AUX-05-2
6	126	49	12	60	20	G 1/8"	M16	24	AUX-06-2
8	146	49	12	80	20	G 1/8"	M16	24	AUX-08-2
10	166	49	12	100	20	G 1/8"	M16	24	AUX-10-2
12	186.6	49	12	120	25	G 1/8"	M16	30	AUX-12-2
1.591 (Pt 5)	61	30	12	20	12	M6	M10	17	AUX-1J-2
3.183 (Pt 10)	71	30	12	30	12	M6	M10	17	AUX-03-2
4.244 (Pt 13.33)	81	30	12	40	12	M6	M10	17	AUX-04-2