



PLI-Planetengetriebe

- Übersetzungen von $i = 3$ bis $i = 308$
- Abtriebsmoment bis 120 Nm
- passend für folgende Motorenflansche
- Ratio from $i = 3$ up to $i = 308$
- Output Torque up to 120 Nm
- for following Motorflange

2-Phasen-Schrittmotoren Flansch: □42mm □56.4mm □82.6mm □86mm
 2-Phase-Stepp Motors Flange: □42mm □56.4mm □82.6mm □86mm

5-Phasen-Schrittmotoren Flansch von: □60mm □86mm
 5-Phase-Stepp Motors Flange: □60mm □86mm

Baugröße / Size		PLI40	PLI50	PLI60	PLI80	i	$i^{(1)}$	$z^{(2)}$					
Abtriebs- Drehmoment T2N	[Nm]	3.0	4.0	8.0	20	(3.70)	3	1					
		3.0	4.0	8.0	20	(4.28)	4						
		3.0	4.0	8.0	20	(5.18)	5						
		3.0	4.0	8.0	20	(6.75)	7						
		Nominal Output Torque T2N	[Nm]	7.5	12	25	60	(13.73)	14	2			
				7.5	12	25	60	(15.88)	16				
				7.5	12	25	60	(18.36)	18				
				7.5	12	25	60	(19.20)	19				
				7.5	12	25	60	(22.20)	22				
				7.5	12	25	60	(25.01)	25				
				7.5	12	25	60	(26.85)	27				
				7.5	12	25	60	(28.93)	29				
				7.5	12	25	60	(34.97)	35				
				7.5	12	25	60	(45.56)	46				
				Nominal Output Torque T2N	[Nm]	15	25	50	120		(50.89)	51	3
						15	25	50	120		(58.85)	59	
		15	25			50	120	(68.06)	68				
		15	25			50	120	(71.16)	71				
		15	25			50	120	(78.71)	79				
		15	25			50	120	(92.70)	93				
15	25	50	120			(95.17)	95						
15	25	50	120			(99.50)	100						
15	25	50	120			(107.20)	107						
15	25	50	120			(115.07)	115						
15	25	50	120			(123.97)	124						
15	25	50	120			(129.62)	130						
15	25	50	120			(139.13)	139						
15	25	50	120			(149.90)	150						
15	25	50	120			(168.84)	169						
15	25	50	120			(181.24)	181						
15	25	50	120	(195.26)	195								
15	25	50	120	(236.09)	236								
15	25	50	120	(307.54)	308								

(1) = Übersetzungen gerundet (1) = Ratios Rounded

(2) = Anzahl der Getriebestufen (2) = Number of Stages



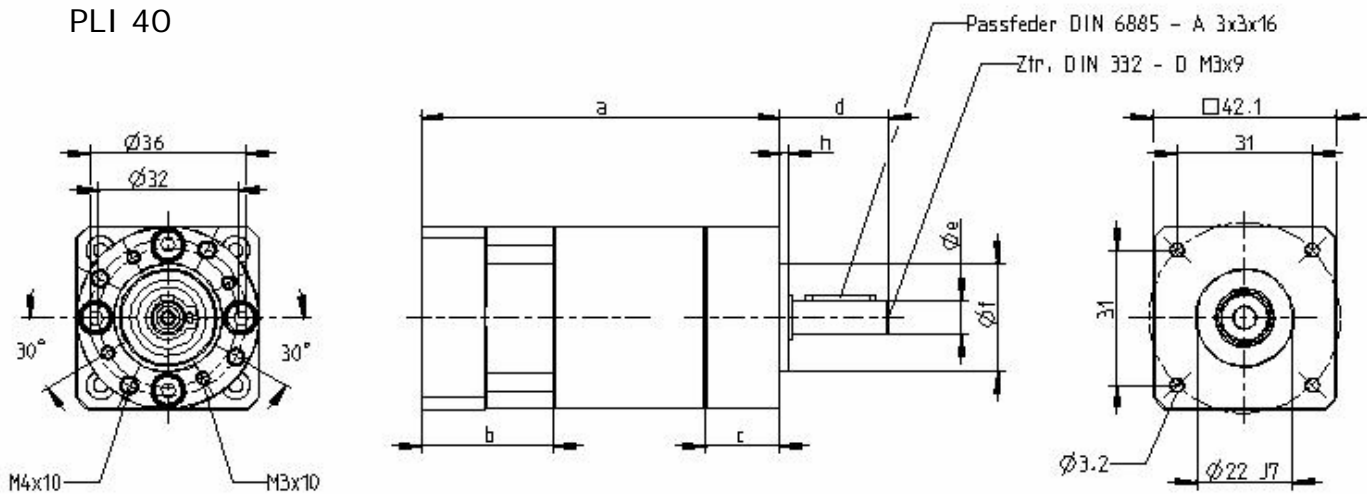
Baugröße / Size		PLI40	PLI50	PLI60	PLI80	i	i ⁽¹⁾	Z ⁽²⁾			
Trägheitsmoment		4.68	18.35	37	165	(3.70)	3	1			
		3.80	15.36	29	134	(4.28)	4				
		3.08	12.33	23	109	(5.18)	5				
		2.35	11.32	17	91	(6.75)	7				
		Moment of inertia	[gcm ²]	4.41	17.11	35	155	(13.73)	14	2	
				3.59	14.41	28	127	(15.88)	16		
				3.58	14.36	28	129	(18.36)	18		
				2.93	11.66	22	100	(19.20)	19		
				2.92	11.63	22	105	(22.20)	22		
				2.26	9.50	17	125	(25.01)	25		
				2.91	11.91	22	105	(26.85)	27		
				2.25	9.48	17	88	(28.93)	29		
2.25	9.47			17	89	(34.97)	35				
2.25	9.47			17	89	(45.56)	46				
				3.59	17.11	35	154	(50.89)	51		3
				3.58	14.41	28	126	(58.85)	59		
		2.93	14.36	28	127	(68.06)	68				
		3.58	11.66	21	104	(71.16)	71				
		2.26	14.36	28	127	(78.71)	79				
		2.92	11.61	16	88	(92.70)	93				
		2.91	14.36	22	104	(95.17)	95				
		2.25	11.61	22	105	(99.50)	100				
		2.91	9.48	17	88	(107.20)	107				
		2.25	11.61	22	105	(115.07)	115				
		2.25	9.48	17	88	(123.97)	124				
		2.91	9.47	17	88	(129.62)	130				
2.25	11.61	22	102	(139.13)	139						
2.25	9.47	17	88	(149.90)	150						
2.25	9.47	17	89	(168.84)	169						
2.25	9.47	17	88	(181.24)	181						
2.25	9.47	17	89	(195.26)	195						
2.25	9.47	17	89	(236.09)	236						
2.25	9.47	17	89	(307.54)	308						

Baugröße / Size		PLI40	PLI50	PLI60	PLI80	
Wirkungsgrad / efficiency with		0.80	0.80	0.80	0.80	1-stufig / 1-stage
		0.75	0.75	0.75	0.75	2-stufig / 2-stage
		0.70	0.70	0.70	0.70	3-stufig / 3-stage
Gewicht / weight	[kg]	0.4	0.7	0.8	1.8	1-stufig / 1-stage
		0.5	0.9	1.2	2.5	2-stufig / 2-stage
		0.6	1.1	1.6	3.2	3-stufig / 3-stage
max. Radialkraft / max. radial load	[N]	160	200	240	400	1-stufig / 1-stage
max. Axialkraft / max. axial load	[N]	50	60	50	80	
max. Radialkraft / max. radial load	[N]	230	320	360	600	2-stufig / 2-stage
max. Axialkraft / max. axial load	[N]	80	100	70	120	
max. Radialkraft / max. radial load	[N]	300	450	520	1000	3-stufig / 3-stage
max. Axialkraft / max. axial load	[N]	110	150	120	200	
Verdrehspiel / backlash	[deg]	0.80°	0.70°	1.0°	1.0°	1-stufig / 1-stage
		0.85°	0.75°	1.5°	1.5°	2-stufig / 2-stage
		0.90°	0.80°	2.0°	2.0°	3-stufig / 3-stage
Eingangsdrehzahl / initial speed		3000 min ⁻¹				
Betriebstemp. / operating temp.	[°C]	-30 bis +140 / -30 up to +140				
Schmierung / lubrication		Lebensdauer-Fettschmierung / life time grease lubrication				

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PLI 40

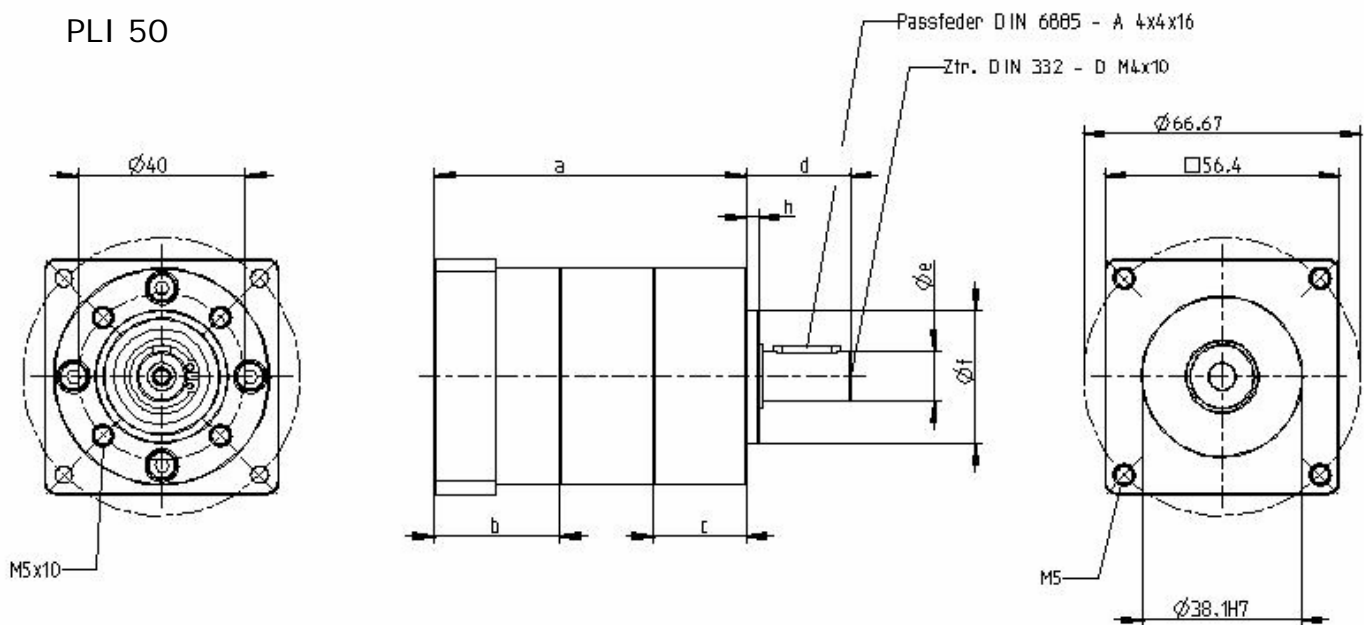


$a = 69.5 \text{ mm}$ (1 stufig / 1 stage)
 $a = 82.5 \text{ mm}$ (2 stufig / 2 stage)
 $a = 95.5 \text{ mm}$ (3 stufig / 3 stage)

$b = 30.5 \text{ mm}$
 $c = 17.1 \text{ mm}$
 $d = 25.0 \text{ mm}$

$e = 8 \text{ h } 7$
 $f = 25 \text{ h } 9$
 $h = 2 \text{ mm}$

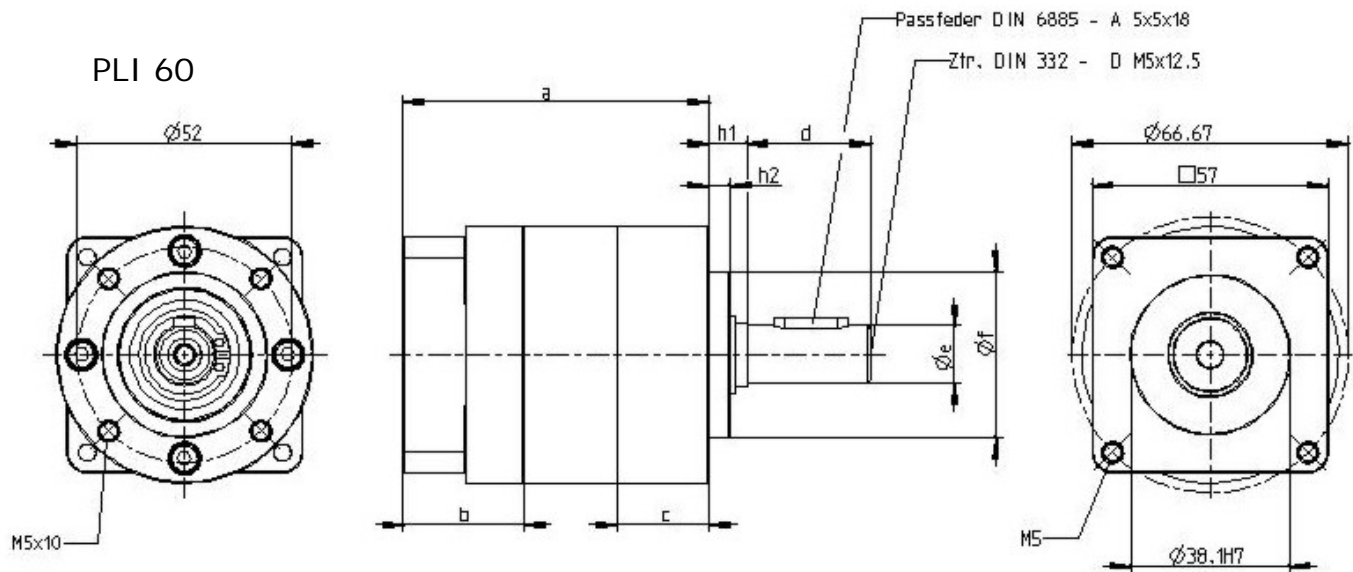
PLI 50



$a = 75.5 \text{ mm}$ (1 stufig / 1 stage)
 $a = 89.5 \text{ mm}$ (2 stufig / 2 stage)
 $a = 103.6 \text{ mm}$ (3 stufig / 3 stage)

$b = 30.3 \text{ mm}$
 $c = 22.3 \text{ mm}$
 $d = 25.0 \text{ mm}$

$e = 12 \text{ h } 7$
 $f = 32 \text{ h } 8$
 $h = 3 \text{ mm}$

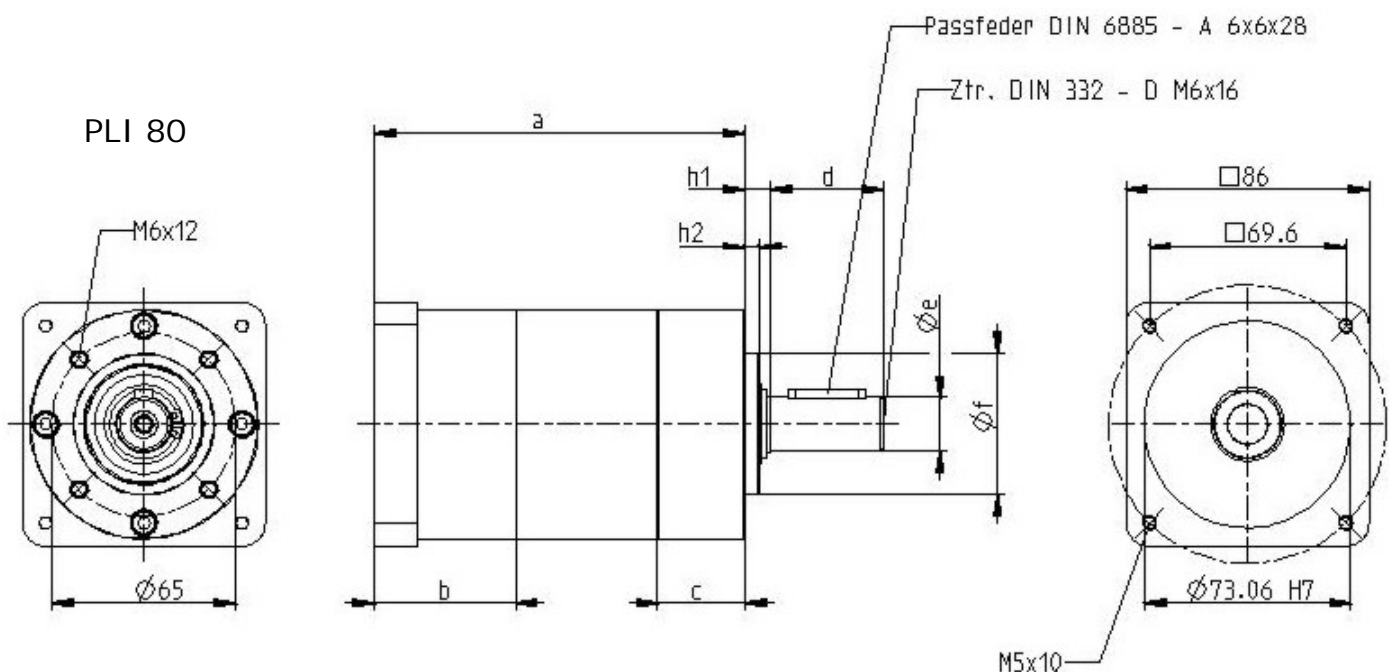


a = 74.2 mm (1 stufig / 1 stage)
 a = 90.0 mm (2 stufig / 2 stage)
 a = 105.9 mm (3 stufig / 3 stage)

b = 29.1 mm
 c = 22.3 mm
 d = 30.0 mm

e = 14 h 7
 f = 40 j 7

h1 = 9 mm
 h2 = 5 mm



a = 109.6 mm (1 stufig / 1 stage)
 a = 131.3 mm (2 stufig / 2 stage)
 a = 152.9 mm (3 stufig / 3 stage)

b = 50.0 mm
 c = 31.0 mm
 d = 40.0 mm

e = 19 h 7
 f = 50 j 7

h1 = 9 mm
 h2 = 5 mm