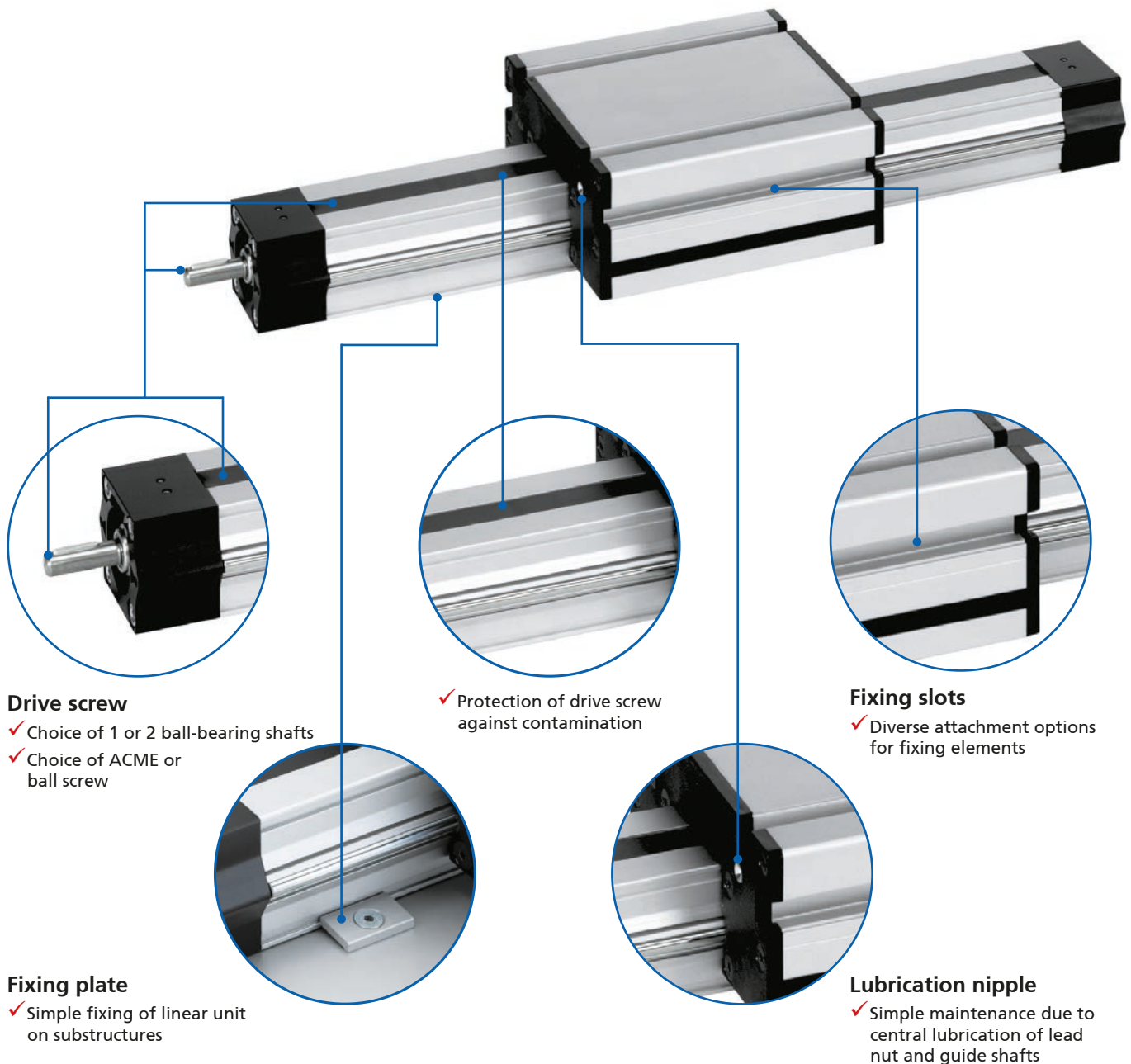


Profile guide/actuator - PL/PLS II

Motor-driven or manual adjustment of medium to heavy loads – easy for the PLS profile linear unit



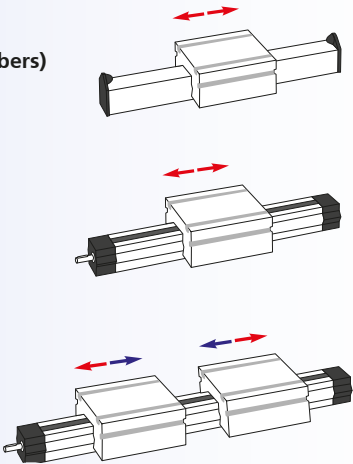
Features:

- Choice of ACME screw or ball screw drive
- Cover strip protects screw against contamination
- Adjustable roller guide
- External lubrication

Options:

- Longer stroke lengths
- Second free-running carriage
- Extended carriage

PL/PLS II – Table of contents

Properties/Technical data		■ General information/operating conditions ... 248 ■ Load data..... 249
Versions (Dimensions, order numbers)		■ Guide 250 - 251 ■ Right or lefthand thread 252 - 253 ■ Right and lefthand thread 254 - 255
Accessories	Fixing ■ Fixing plate..... 256 ■ Fixing element..... 256 ■ Slot stone -N-..... 257 Drive ■ Handwheel 257 ■ Motor adaptor/coupling 262 ■ Angular gear 258 - 259 Position determination ■ Positioning indicator..... 264 ■ Limit switch 265 - 267	

General information/operating conditions

Design	Profile linear unit with extruded carriage/guide profile
Guide	Adjustable roller guide
Installation position	Any position
Lead accuracy	± 0.1 mm/300 mm travel
Self-locking	Yes, for threaded screw*, no, for ball screw drive
Duty cycle	ACME: S3 30% Basic 1h / Ball screw: S3 100%
Ambient temperature	0°C to +60°C

*see Glossary under item Self-locking

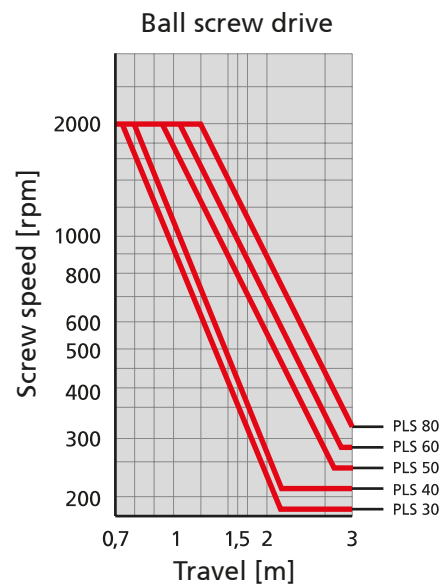
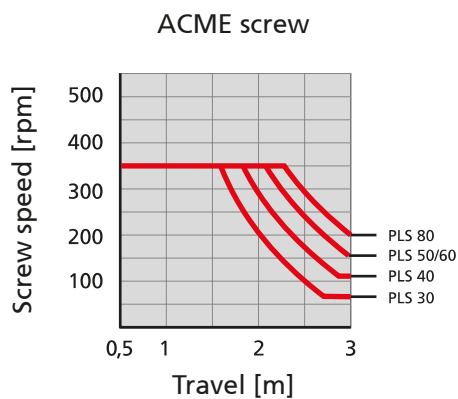
Screw lead

ACME screw [mm]	
Type	Screw lead
PLS 30	3
PLS 40	4
PLS 50	4
PLS 60	4
PLS 80	5

Ball screw drive [mm]	
Type	Screw lead
PLS 30	3
PLS 40	4
PLS 50	5
PLS 60	5
PLS 80	5
PLS 80	10

$$\text{Required screw speed } n \text{ [rpm]} = \frac{\text{speed [m/min]} \times 1000}{\text{screw lead [mm]}}$$

Critical screw speed



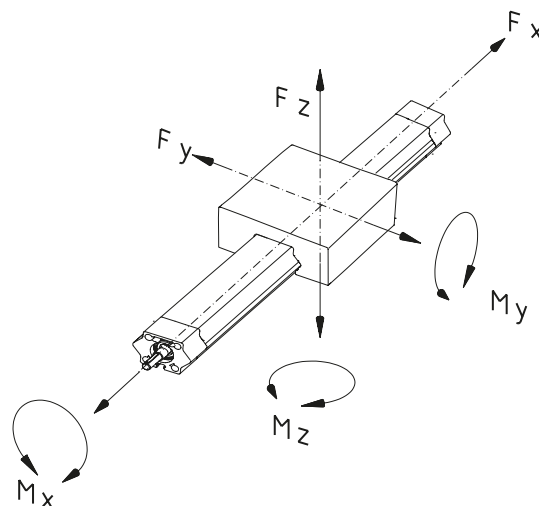
No-load torque

Type	ACME screw [Nm]	Ball screw drive [Nm]
PLS 30	0.10	0.10
PLS 40	0.20	0.15
PLS 50	0.25	0.20
PLS 60	0.30	0.25
PLS 80	0.40	0.35

Load data*

- F Force [N]
M Moment [Nm]
I Geometric moment of inertia [cm⁴]

* With reference to carriage (static values, guide element resting on full surface)

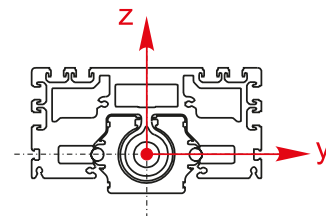


Type	F _x	F _y	F _z	M _x	M _y	M _z
PLS 30	340	790	790	14	20	22
PLS 40	1675	1020	1020	23	33	33
PLS 50	1900	1020	1020	28	49	49
PLS 60	2400	2550	2550	99	143	143
PLS 80	3050	2550	2550	124	168	169

Geometric moment of inertia

[cm⁴]

Type	I _y	I _z
PLS 30	4.30	6.36
PLS 40	14.36	19.85
PLS 50	35.45	44.27
PLS 60	77.28	111.53
PLS 80	201.86	280.73



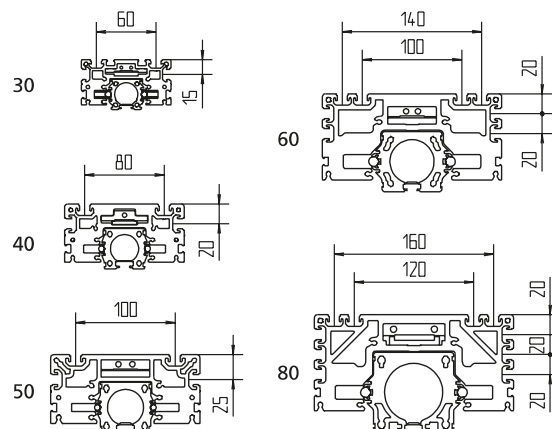
PL – Versions

Order instructions:

- Longer travel lengths on request
- Second or extended carriage available on request

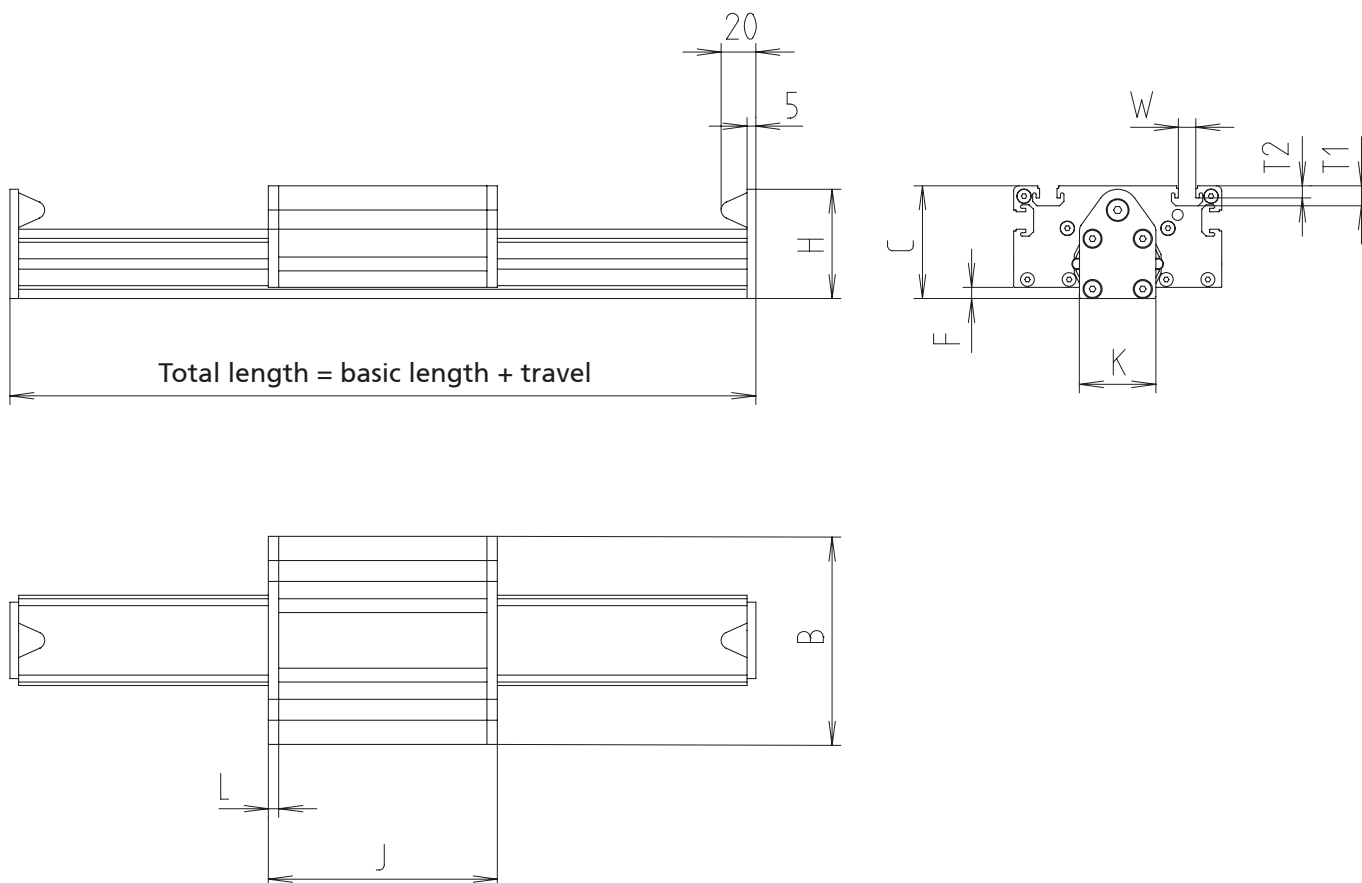
Version

■ Guide



Code No.	Type	Basic length	B	C	F	H	J	K
MMA3030AA	PL-II 30	142	90	50	4.5	50	102	34
MMA4040AA	PL-II 40	172	120	65	6.5	63	132	44
MMA5050AA	PL-II 50	202	150	78	9.0	74	162	54
MMA6060AA	PL-II 60	232	180	98	11.5	84	192	72
MMA8080AA	PL-II 80	252	200	118	21.5	104	212	92

— — — — Total length = basic length + travel [mm]



[mm]

L	T1	T2	W	Max. travel	Mass [kg]	
					Basic length	per 100 mm travel
6	8.5	4.5	10.1	5860	1.0	0.16
6	11.5	7	10.1	5830	1.9	0.28
6	11.5	7	10.1	5800	3.5	0.41
6	11.5	7	10.1	5770	5.9	0.60
6	11.5	7	10.1	5750	7.9	0.90

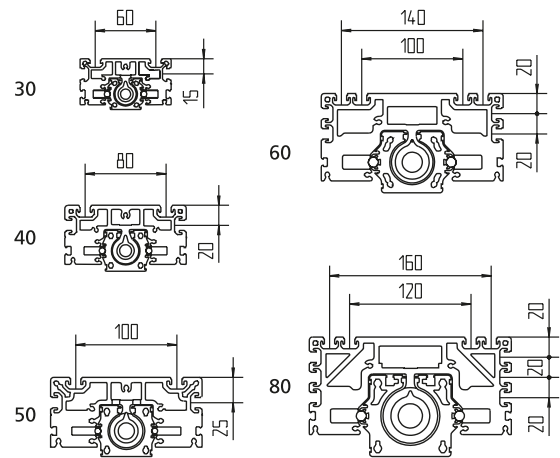
PLS – Versions

Order instructions:

- Longer travel lengths on request
- Second free-running carriage available on request
- Extended carriage available on request

Version

■ Right or lefthand thread



Code No.	Type	Spindle	Basic length	B	C	D1	D2	F	G	H	J
PLS with ACME screw											
FX _ 3030 _ A	PLS 30	12 x 3	162	90	50	22 ^{J6}	6	4.5	M5	15	102
FX _ 4040 _ A	PLS 40	16 x 4	204	120	65	30 ^{J6}	8	6.5	M5	20	132
FX _ 5050 _ A	PLS 50	20 x 4	238	150	78	35 ^{J6}	10	9	M5	25	162
FX _ 6060 _ A	PLS 60	20 x 4	276	180	98	35 ^{J6}	12	11.5	M5	30	192
FX _ 8080 _ A	PLS 80	24 x 5	308	200	118	50 ^{H7}	14	21.5	M5	40	212
PLS with ball screw drive											
FY A 3030 _ A	PLS 30	10 x 3	162	90	50	22 ^{J6}	6	4.5	M5	15	102
FY A 4040 _ A	PLS 40	12 x 4	204	120	65	30 ^{J6}	8	6.5	M5	20	132
FY A 5050 _ A	PLS 50	16 x 5	238	150	78	35 ^{J6}	10	9	M5	25	162
FY A 6060 _ A	PLS 60	20 x 5	276	180	98	35 ^{J6}	12	11.5	M5	30	192
FY A 8080 _ H	PLS 80	25 x 5	308	200	118	50 ^{H7}	14	21.5	M5	40	212
FY A 8080 _ A	PLS 80	25 x 10	308	200	118	50 ^{H7}	14	21.5	M5	40	212

— — — Total length = basic length + travel [mm]

Drive shafts:

T = 1 drive shaft
U = 2 drive shafts

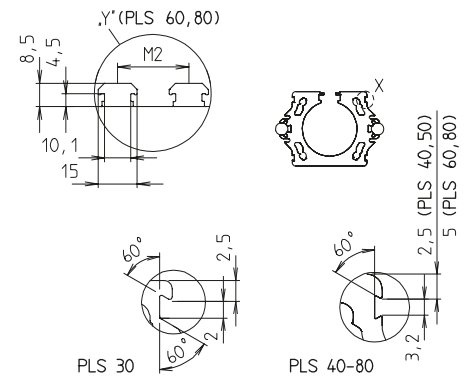
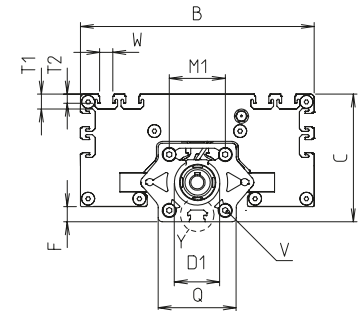
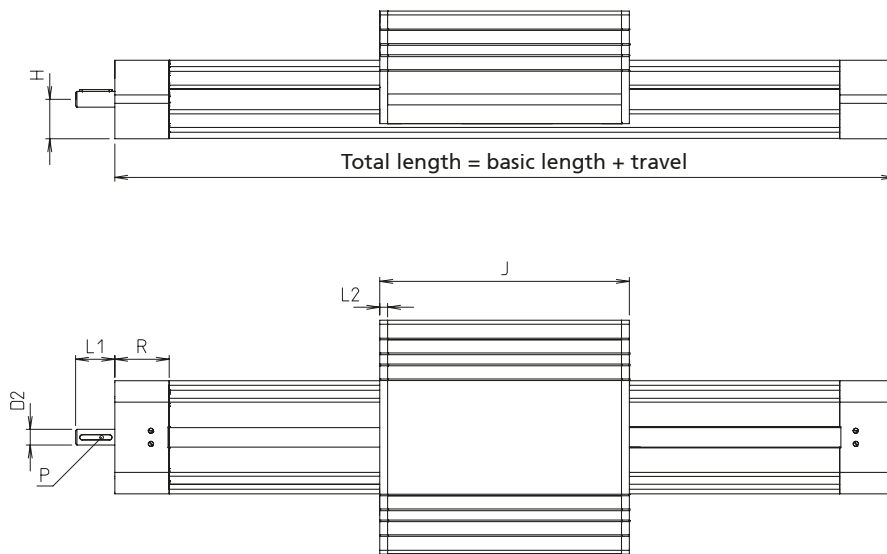
Version:

A = righthand thread
H = lefthand thread



PLS – Versions

RK ROSE+KRIEGER



[mm]

L1	L2	M1	M2	P	Q	R	T1	T2	V	W	Max. travel	Mass [kg]	
												Basic length	per 100 mm travel
25	6	21	–	2 x 2 x 20	30	30	8.5	4.5	M4	10.1	830	1.12	0.27
28	6	29	–	2 x 2 x 20	40	36	11.5	7	M5	10.1	1439	2.20	0.44
30	6	38	–	3 x 3 x 20	50	37	11.5	7	M6	10.1	1889	4.51	0.64
30	6	43	0	4 x 4 x 25	60	42	11.5	7	M6	10.1	2079	6.34	0.95
38	6	64	20	5 x 5 x 32	80	48	11.5	7	M6	10.1	2509	9.91	1.25
25	6	21	–	2 x 2 x 20	30	30	8.5	4.5	M4	10.1	757	1.09	0.26
28	6	29	–	2 x 2 x 20	40	36	11.5	7	M5	10.1	799	2.12	0.40
30	6	38	–	3 x 3 x 20	50	37	11.5	7	M6	10.1	926	4.50	0.60
30	6	43	0	4 x 4 x 25	60	42	11.5	7	M6	10.1	1022	6.18	0.90
38	6	64	20	5 x 5 x 32	80	48	11.5	7	M6	10.1	1120	9.59	1.19
38	6	64	20	5 x 5 x 32	80	48	11.5	7	M8	10.1	1120	9.59	1.19

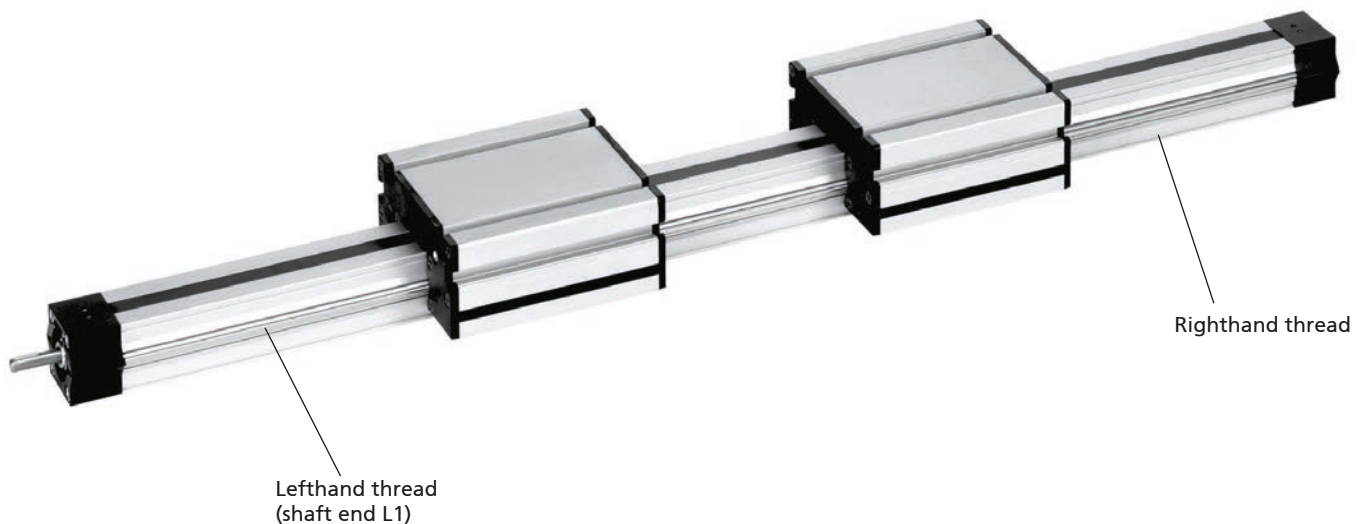
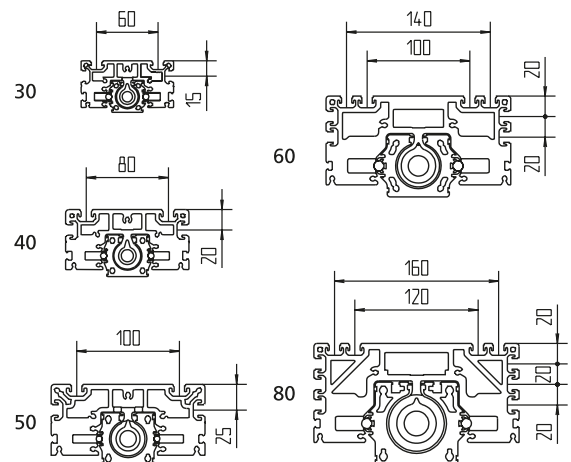
PLS – Versions

Order instructions:

- Please specify total travel when placing an order
- Longer travel lengths on request
- Extended carriage available on request

Version

■ Right and lefthand thread

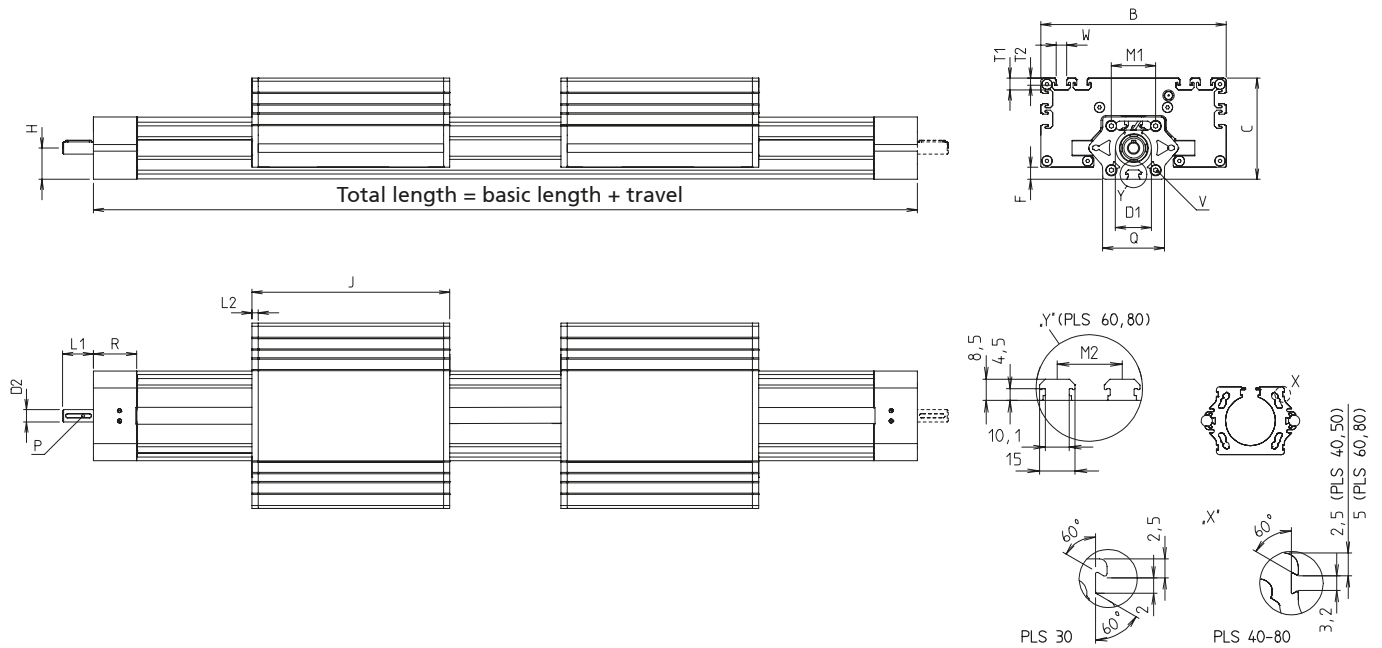


Code No.	Type	Spindle	Basic length	B	C	D1	D2	F	G	H	J
PLS with ACME screw											
FXC 3030 _ A	PLS 30	12 x 3	264	90	50	22J6	6	4.5	M5	15	102
FXC 4040 _ A	PLS 40	16 x 4	336	120	65	30J6	8	6.5	M5	20	132
FXC 5050 _ A	PLS 50	20 x 4	400	150	78	35J6	10	9	M5	25	162
FXC 6060 _ A	PLS 60	20 x 4	468	180	98	35J6	12	11.5	M5	30	192
FXC 8080 _ A	PLS 80	24 x 5	520	200	118	50H7	14	21.5	M5	40	212

--- Total length = basic length + travel [mm]

Version:

- S = 1 drive shaft at lefthand thread end
- T = 1 drive shaft at righthand thread end
- U = 2 drive shafts



[mm]

L1	L2	M1	M2	P	Q	R	T1	T2	V	W	Max. travel	Mass [kg]	
												Basic length	per 100 mm travel
25	6	21	–	2 x 2 x 20	30	30	8.5	4.5	M4	10.1	728	1.95	0.27
28	6	29	–	2 x 2 x 20	40	36	11.5	7	M5	10.1	2868	4.08	0.44
30	6	38	–	3 x 3 x 20	50	37	11.5	7	M6	10.1	2838	7.75	0.64
30	6	43	0	4 x 4 x 25	60	42	11.5	7	M6	10.1	2772	10.99	0.95
38	6	64	20	5 x 5 x 32	80	48	11.5	7	M6	10.1	2704	16.66	1.25

PLS – Fixing/Drive

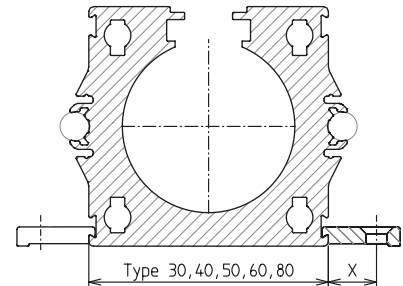
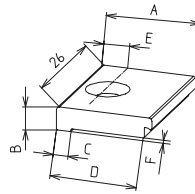
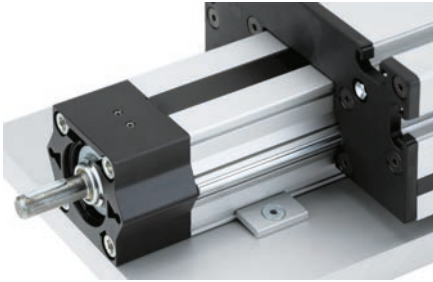
Order instruction fixing plate:

- Purchase only in lot sizes and a multiple of that, see product table below

- Plate for fixing the linear unit to a substructure
- The fixing plates can also be retrofitted and moved axially

Scope of delivery: without screws

Fixing plate



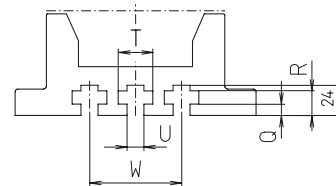
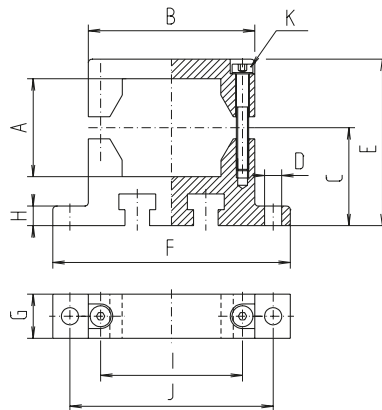
[mm]

Code No.	Type	lot sizes	Version	A	B	C	D	E	F	X
955101	PL / PLS 30, 40, 50	10, 20, 30... pcs	Counterbore for M5 screw, DIN 79911	16,3	4	2,5	15	7	0,5	8
955111	PL / PLS 60, 80	10, 20, 30... pcs	Counterbore for M6 screw, DIN 7984	23,8	7,5	3,5	22,5	12,5	1	10

Fixing element

- Element for clamping the PLS to the guide profile or end element

Material: AlMgSi, clear, anodised
Steel parts zinc plated



[mm]

Code No.	Type	A	B	C	D	E	F	G	H	I	J	K	Q	R	T	U	W
95503	PLS 30	30	56	30	7	51	84	16	6	47	70	M5 x 30	4.5	9	10	6	20
95504	PLS 40	40	68	40	7	68	97	18	8	58	83	M5 x 40	6.5	13	15	10	28
95505	PLS 50	50	85	50	7	85	125	20	10	69	105	M6 x 45	7	14	20	10	30
95506	PLS 60	60	126	69.7	11	115.4	170	24	16	106	148	M10 x 60	8	20	19	12	65
95508	PLS 80	80	126	80	11	136	170	24	16	113	148	M6 x 70	8	20	19	12	65

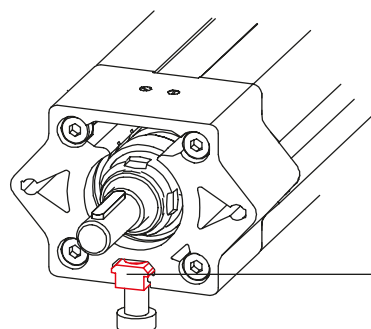
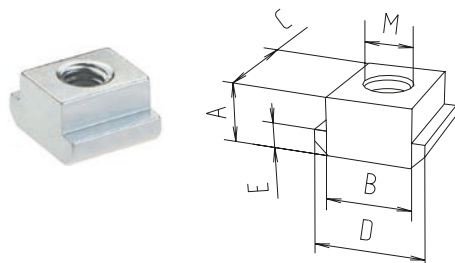
Order instruction square nut:

- Purchase only in lot sizes and a multiple of that, see product table below

- Slot stone for lateral insertion in the carriage
- For further slot stone versions, please refer to the catalogue BLOCAN® profile systems

Material: Steel, zinc plated

Slot stone -N-



* **Note:** Please use flat slot stones 30 for fixing in the end elements (only available for sizes 60 and 80).

Code No.	Type	lot sizes	Version	A	B	C	D	E	M	F [N]
4006201	PLS 30	10, 20, 30... pcs	M5	5	10	13	13	3	M5	4000
4006203	PLS 30	10, 20, 30... pcs	M6	5	10	13	13	3	M6	4000
4006202	PLS 30	10, 20, 30... pcs	M8	5	10	13	13	3	M8	4000
4026207	PLS 40-80*	10, 20, 30... pcs	M5	8	10	13	15	4	M5	4000
4026203	PLS 40-80*	10, 20, 30... pcs	M6	8	10	13	15	4	M6	9000
4026206	PLS 40-80*	10, 20, 30... pcs	M8	8	10	13	15	4	M8	9000

[mm]

Handwheel

- Rotating cylindrical grip
- Fully turned wheel rim
- Hub machined

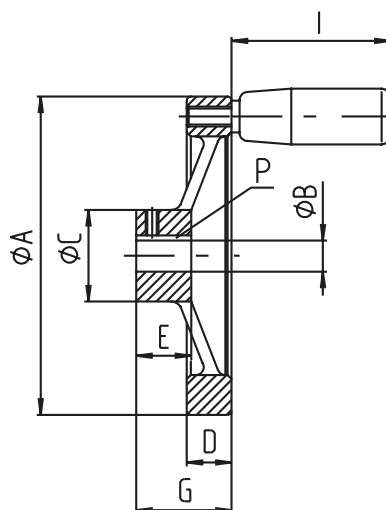
Material: Die-cast aluminium black powder-coating



Diam. 140-200



Diam. 60-100



Code No.	Type	A	B	C	D	E	G	P	I
90901	30	60	6	18	13	16	22	2 x 2	28
90903	40	80	8	23	11	17	35	2 x 2	42
90904	50	100	10	28	14	17	30	3 x 3	52
90905	60	140	12	36	16.5	19	36	4 x 4	66
90918	80	160	14	36	18	20	36	5 x 5	80
90928	80	200	14	43	20	24	44	5 x 5	80

[mm]

Order instruction:

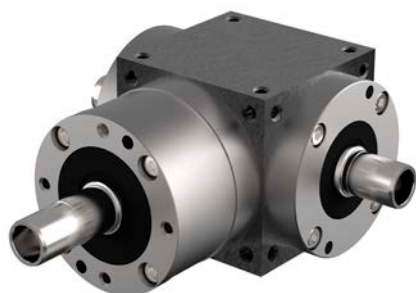
- Reductions 1:1.5, 1:2, 1:3, 1:4 or 1:5 on request

Angular gear

- Fits all on PLS
- Can be retrofitted
- Low torsional backlash
- Low noise level
- Spiral tooththing

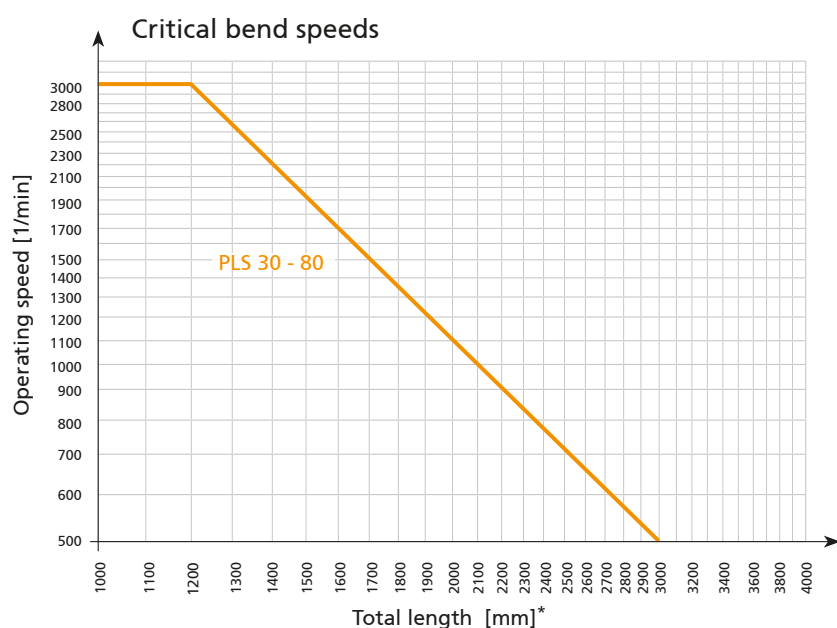
Scope of delivery:

Angular gear 1:1,
Fastenings on PLS and
synchronisation shaft
depending on system



Technical data angular gear

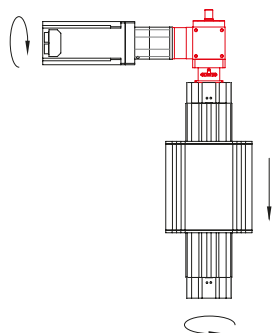
	For PLS 30-80	
Reduction		1:1
Drive speed	min ⁻¹	3000
Torsional backlash at output shaft	arcmin	≤ 9
Efficiency at full load	%	> 98
Running noise at 1500 rpm	db(A)	≤ 70
Weight	Kg	4,5
Surface		Primer RAL 9005 – black matt
Geometric moment of inertia	Kgcm ²	1,79
Idle torque	Nm	0,4



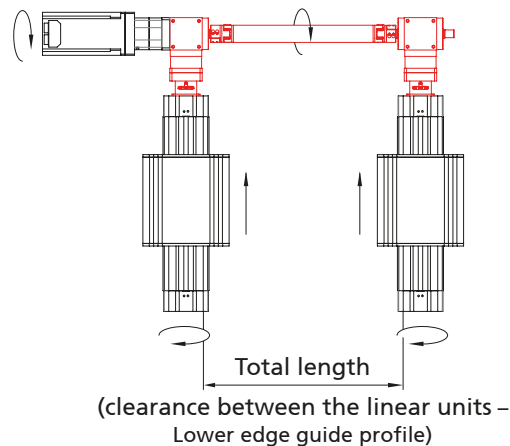
*To calculate the critical bending speed of system 4, use half of the total length.

Angular gear for PLS

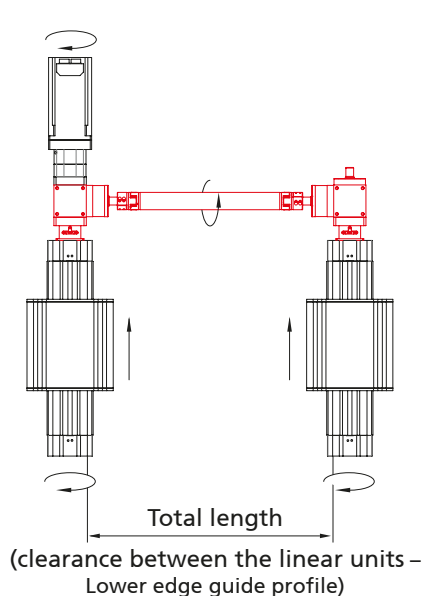
System 1



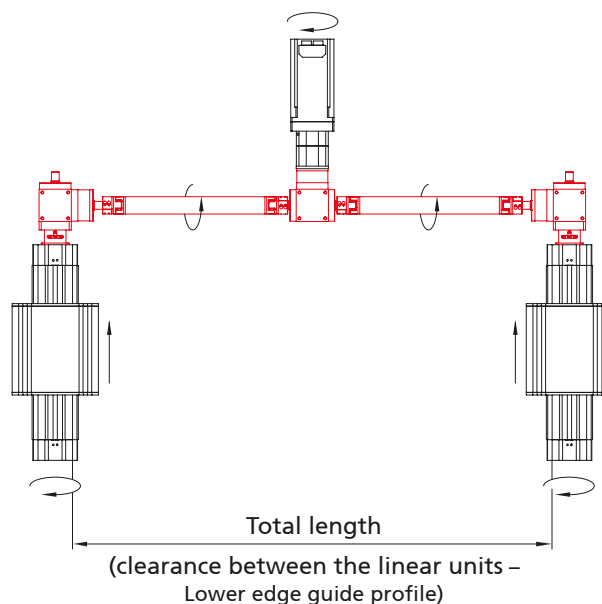
System 2



System 3



System 4



[mm]

Code No.	Type	Basic length (minimum length)	Max. length (clearance)	Weight [kg]	
				Basic length	per 100 mm travel
982_ _ A1A0000	Angular gear system 1	-	-	5,5	-
982_ _ A1B_ _ _ _	Angular gear system 2	229	2984	10,5	0,1
982_ _ A1C_ _ _ _	Angular gear system 3	334	3089	10,5	0,1
982_ _ A1D_ _ _ _	Angular gear system 4	593	6153	10,5	0,1

Total length (mm)

- 20 = PLS 30
- 21 = PLS 40
- 22 = PLS 50
- 23 = PLS 60
- 24 = PLS 80

Note:

Additional information, dimensions, accessories and necessary tools for assembling the angular gears can be found



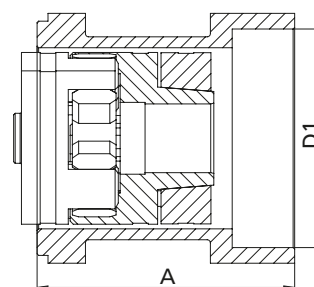
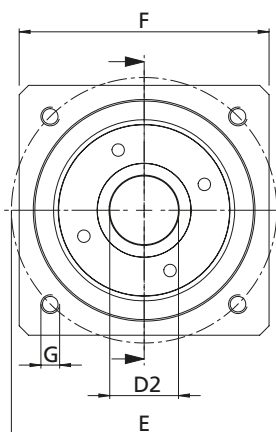
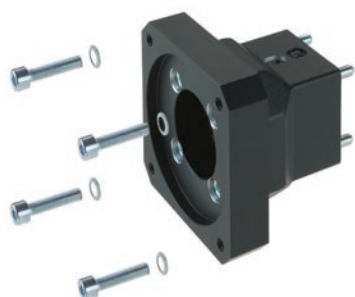
Chapter:

Motors and controls

Selection table motor adaptor/coupling PLS for three phase motors

- Servo- and three phase motors can be easily connected
- Complete motor adapter kits manufactured to your specifications on request

Scope of delivery:
Motor adapter kit, servo coupling with zero backlash and fixation material



Manufacturers	Motor	PLS 30	PLS 40	PLS 50	PLS 60	PLS 80
RK Rose + Krieger	90/120W	94981	949100	949605	949107	94958
		910920 0612	911430 0812	911430 1012	911940 1212	911940 1214
	180/250W	–	949101	94935	949108	94940
		–	911430 0814	911430 1014	911430 1214	911940 1414

Code No. Motor adaptor:
949108

Code No. Coupling with
specification of shaft
diameter
1st end= 12 mm
2st end= 14 mm
911430 1214

Selection table Motor adaptor/PLS coupling for servomotors without gear

Manufacturers	Motor	PLS 30	PLS 40	PLS 50	PLS 60	PLS 80	Motor flange	Motor shaft
RK Rose + Krieger	RK-AC 118	949207	949208	–	–	–	IM B5 56	Ø11x23
		911430 0611	911430 0811					
	RK-AC 240	–	949227	949228	949229	949230	IM B5 56	Ø14x30
			911430 0814	911430 1014	911940 1214	911940 1414		
	RK-AC 470	–	–	–	949241	949242	IM B5 63	Ø19x40
					911940 1219	911940 1419		
Baumüller	DSD2-036	949207	949208	–	–	–	IM B5 56	Ø11x23
		911430 0611	911430 0811					
	DSD2-045	–	949227	949228	949229	949230	IM B5 56	Ø14x30
			911430 0814	911430 1014	911940 1214	911940 1414		
Bosch	MSK050B, MSK050C	–	–	–	949241	949242	IM B5 63	Ø19x40
					911940 1219	911940 1419		
Lenze	MCS06I, MCS06F	949207	949208	–	–	–	IM B5 56	Ø11x23
		911430 0611	911430 0811					
	MCS09D, MCS09F, MCS09H, MCS09L	–	949227	949228	949229	949230	IM B5 56	Ø14x30
			911430 0814	911430 1014	911940 1214	911940 1414		
Lti / Keba	LSP10	–	–	–	949241	949242	IM B5 63	Ø19x40
					911940 1219	911940 1419		
Parker	SMH 60, SMHA 60	949207	949208	–	–	–	IM B5 56	Ø11x23
		911430 0611	911430 0811					
	SMH 82, SMHA 82	–	949227	949228	949229	949230	IM B5 56	Ø14x30
			911430 0814	911430 1014	911940 1214	911940 1414		
	SMH 100, SMHA 100	–	–	–	949241	949242	IM B5 63	Ø19x40
					911940 1219	911940 1419		
SEW	CMP50S, CMP50M, CMP50L	949207	949208	–	–	–	IM B5 56	Ø11x23
		911430 0611	911430 0811					
	CMP63S, CMP63M, CPM63L	–	949227	949228	949229	949230	IM B5 56	Ø14x30
			911430 0814	911430 1014	911940 1214	911940 1414		
Siemens	1FK2105	–	–	–	949241	949242	IM B5 63	Ø19x40
					911940 1219	911940 1419		

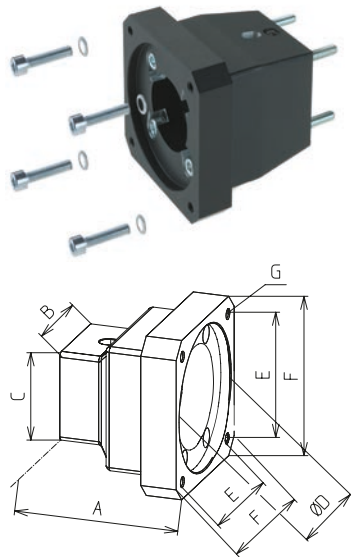
Code No. Motor adaptor:
949241

Code No. Coupling with
specification of shaft
diameter
1st end=12 mm
2nd end=19 mm
911940 1219

For dimensions and order data
for motor adaptor and coupling,
please refer to next page.

Note:
For further details
on motor versions,
please refer to the chapter
“Motors and controls”

Motor adaptor



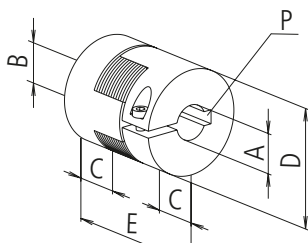
- Simple assembly on linear unit and motor
- Exact fit due to centering shoulders

Material: Aluminium, black anodised

[mm]

Code No.	Type	A	B	C	D	E	F	G
949207	30	63	40	40	60	53	70	M5
94981	30	65	40	40	50	46	80	M5
949208	40	65	50	50	60	53	70	M5
949227	40	73	50	50	80	70,7	90	M6
949100	40	73	50	50	50	46	80	M5
949101	40	73	50	50	80	100	Ø120	Ø6,6
949209	50	66	52	52	60	53	70	M5
949228	50	73	52	52	80	70,7	90	M6
949605	50	73	52	52	50	65	80	M5
94935	50	73	52	52	80	100	Ø120	Ø6,6
949210	60	66	60	60	60	53	70	M5
949229	60	81	60	60	80	70,7	90	M6
949241	60	91	60	60	95	81,3	115	M8
949107	60	85	60	60	50	65	80	M5
949108	60	75	60	60	80	100	Ø120	Ø6,6
949404	80	74	80	80	60	53	70	M5
949230	80	86	80	80	80	70,7	90	M6
949242	80	96	80	80	95	81,3	115	M8
94958	80	86	80	80	50	46	80	M5
94940	80	86	80	80	80	100	Ø120	Ø6,6

Coupling



- Small size
- Shaft connection without backlash
- Maintenance-free
- Easy plug-in assembly

Material: Aluminium

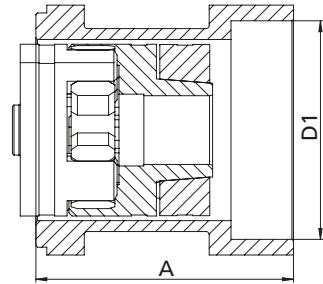
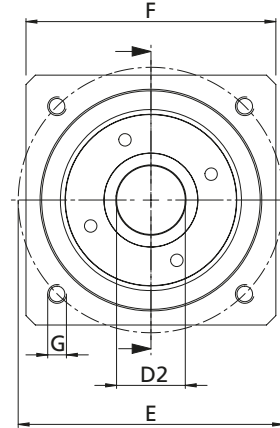
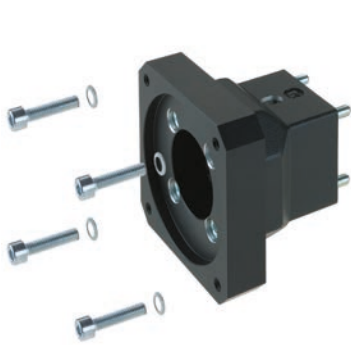
[mm]

Code No.	ØA	ØB	C	ØD	E	P	Torque [Nm]	
							with feather key	without feather key
9109200695	6	9,5	10	20	30	2x2 / –	5	3
9109200612	6	12	10	22	30	2x2 / 3x3	5	3
9114300611	6	11	11	30	35	2x2 / 4x4	12	6
9114300895	8	9,5	11	30	35	2x2 / –	12	6
9114300811	8	11	11	30	35	2x2 / 4x4	12	6
9114300812	8	12	11	30	35	2x2 / 4x4	12	6
9114300814	8	14	11	30	35	2x2 / 5x5	12	6
9114309510	9,5	10	11	30	35	– / 3x3	12	6
9114309512	9,5	12	11	30	35	– / 4x4	12	6
9114301011	10	11	11	30	35	3x3 / 4x4	12	6
9114301012	10	12	11	30	35	3x3 / 4x4	12	6
9114301014	10	14	11	30	35	3x3 / 5x5	12	6
9114301112	11	12	11	30	35	4x4 / 4x4	12	6
9114301114	11	14	11	30	35	4x4 / 5x5	12	6
9114301212	12	12	11	30	35	4x4 / 4x4	12	6
9114301214	12	14	11	30	35	4x4 / 5x5	12	6
9119409514	9,5	14	25	40	65	– / 5x5	17	10
9119401214	12	14	25	40	65	4x4 / 5x5	17	10
9119401219	12	19	25	40	65	4x4 / 6x6	17	10
9119401414	14	14	25	40	65	5x5 / 5x5	17	10
9119401419	14	19	25	40	65	5x5 / 6x6	17	10

Motor adapter kits on angular gear

- Servo motors can be easily connected
- Complete motor adapter kits manufactured to your specifications on request

Scope of delivery:
Motor adapter kit, servo coupling with zero backlash and fixation material



Selection table motor adapter kits for servo motors without gear an angular gear

Manufacturers	Motor	Angular gear system 1 + 4 PLS 30 – 80	Angular gear system 2 + 3 PLS 30 – 80	Motor flange	A	D1	D2	E	F	G	Mass [kg]
RK Rose + Krieger	RK-AC 240	949130	949139	IM B5 56	99/94	Ø 80 ^{H7} 4 deep	Ø14x30	Ø 100	□82	M6 12 deep	0,86
	RK-AC 470	949131	949140	IM B5 63	109/104	Ø 95 ^{H7} 4 deep	Ø19x40	Ø 115	□100	M8 22 deep	1,19/1,2
Baumüller	DSD2-045	949130	949139	IM B5 56	99/94	Ø 80 ^{H7} 4 deep	Ø14x30	Ø 100	□82	M6 12 deep	0,86
Beckhoff	AM8041, AM8042, AM8043	On request	On request	IM B5 56			Ø19x40				
Bosch	MSK040B, MSK040C, MSK043C	On request	On request				Ø14x30				
	MSK050B, MSK050C	949131	949140	IM B5 63	109/104	Ø 95 ^{H7} 4 deep	Ø19x40	Ø 115	□100	M8 22 deep	1,19/1,2
Kollmorgen	AKM2G-41, AKM2G-42, AKM2G-43, AKM2G-44	On request	On request	IM B5 56			Ø19x40				
Lenze	MCS09D, MCS09F, MCS09H, MCS09L	949130	949139	IM B5 56	99/94	Ø 80 ^{H7} 4 deep	Ø14x30	Ø 100	□82	M6 12 deep	0,86
Lti/Keba	LSP10	949131	949140	IM B5 63	109/104	Ø 95 ^{H7} 4 deep	Ø19x40	Ø 115	□100	M8 22 deep	1,19/1,2
Mitsubishi	HG-JR53(4), HG-JR 73(4), HG-JR103(4), HG-JR153(4), HG-JR203(4)	On request	On request	IM B5 56			Ø16x40				
Parker	SMH 82, SMHA 82	949130	949139	IM B5 56	99/94	Ø 80 ^{H7} 4 deep	Ø14x30	Ø 100	□82	M6 12 deep	0,86
	SMH 100, SMHA 100	949131	949140	IM B5 63	109/104	Ø 95 ^{H7} 4 deep	Ø19x40	Ø 115	□100	M8 22 deep	1,19/1,2
SEW	CMP63S, CMP63M, CPM63L	949130	949139	IM B5 56	99/94	Ø 80 ^{H7} 4 deep	Ø14x30	Ø 100	□82	M6 12 deep	0,86
Siemens	1FK7040, 1FK042, 1FK043, 1FK2205	On request	On request	IM B5 56			Ø19x40				
	1FK2105	949131	949140	IM B5 63	109/104	Ø 95 ^{H7} 4 deep	Ø19x40	Ø 115	□100	M8 22 deep	1,19/1,2

PLS – Position determination

Positioning indicator

- Permitted ambient temperature +80°C
- Figure height 6 mm
- Reading accuracy ± 0.1 mm

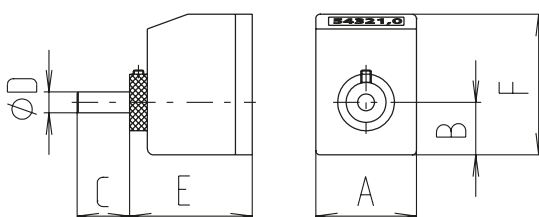
Material: Housing made of polyamide 6
Orange RAL 2004
Steel parts zinc plated

Scope of delivery: Positioning indicator, clamping ring, shaft extension and fastenings

Note: “rising” and “falling” versions refer to the clockwise rotation of the drive shaft.



Installation position:
horizontal



Installation position:
vertical

[mm]

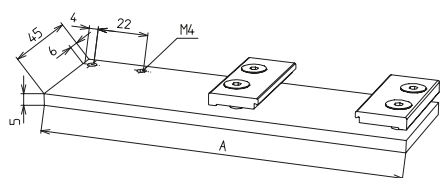
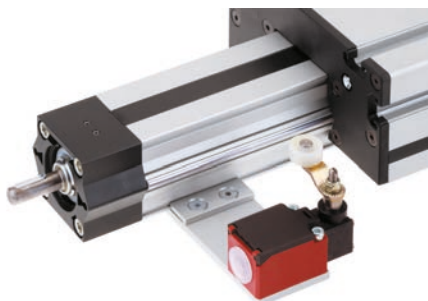
Type	Installation position	Code No.	Version	Code No.	Version*	A	B	C	D	E	F
30	Horizontal	91090	3 mm rising	910151	6 mm rising	48	25	17	6	59	67
30		91093	3 mm falling	910152	6 mm falling	48	25	17	6	59	67
30	Vertical	910110	3 mm rising	910153	6 mm rising	48	25	17	6	59	67
30		910111	3 mm falling	910154	6 mm falling	48	25	17	6	59	67
40	Horizontal	91094	4 mm rising	910155	8 mm rising	48	25	28	8	59	67
40		91095	4 mm falling	910156	8 mm falling	48	25	28	8	59	67
40	Vertical	910112	4 mm rising	910157	8 mm rising	48	25	28	8	59	67
40		910113	4 mm falling	910158	8 mm falling	48	25	28	8	59	67
50	Horizontal	91096	4 mm rising	910159	8 mm rising	48	25	30	10	59	67
50		91097	4 mm falling	910160	8 mm falling	48	25	30	10	59	67
50	Vertical	910114	4 mm rising	910161	8 mm rising	48	25	30	10	59	67
50		910115	4 mm falling	910162	8 mm falling	48	25	30	10	59	67
60	Horizontal	91098	4 mm rising	910163	8 mm rising	48	30	38	12	59	73
60		91099	4 mm falling	910164	8 mm falling	48	30	38	12	59	73
60	Vertical	910116	4 mm rising	910165	8 mm rising	48	30	38	12	59	73
60		910117	4 mm falling	910166	8 mm falling	48	30	38	12	59	73
80	Horizontal	91008	5 mm rising	91082	10 mm rising	48	25	38	14	59	81
80		91018	5 mm falling	91083	10 mm falling	48	25	38	14	59	81
80	Vertical	91028	5 mm rising	91084	10 mm rising	48	25	38	14	59	81
80		91038	5 mm falling	91085	10 mm falling	48	25	38	14	59	81

* Versions with double pitch,
e.g. for mounting on
righthand/left-hand screws

Holder for mechanical limit switch

- Clamping with fixing plates to guide profile
- Simple axial displacement and adjustment of holder is possible

Material: AlMgSi, clear, anodised, zinc plated fastenings

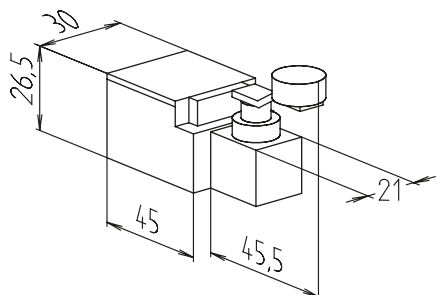


Code No.	Type	Version	A [mm]
92784	PLS (PLZ) 30	Holder with fastenings without limit switch	110
92785	PLS (PLZ) 40		130
92786	PLS (PLZ) 50		150
92787	PLS (PLZ) 60		177
92788	PLS (PLZ) 80		197

Mechanical limit switch

- Limit switch with angle lever
- Compact design

Material: Thermoplastic, fully insulated



Max. voltage	250 V AC
Max. switching current	6 A
Max. starting current	16 A
Operating cycles	Max. 6,000/h
Mechanical lifetime	1 x 10 ⁷ switching cycles
Axis lever adjustment	Engages at 1 360°
Protection class	IP 65
Ambient temperature	-30°C to +80°C

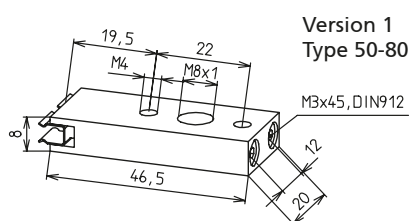
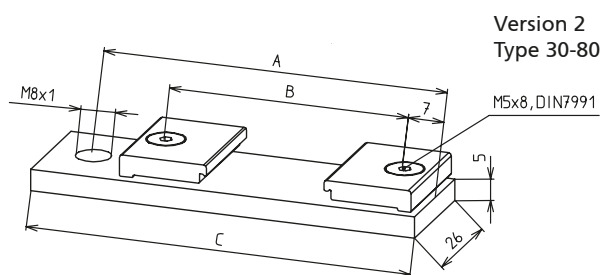
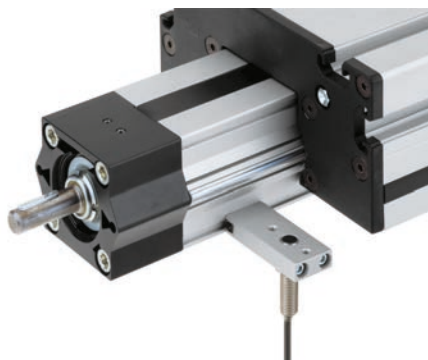
Code No.	Type	Switching function
91905	PLS 30-80	NC/NO

PLS – Position determination

Holder for inductive limit switch

- Clamping on guide profile
- Simple axial displacement and adjustment of holder is possible
- Holder with fastenings without limit switch

Material: AlMgSi, clear, anodised, zinc plated fastenings

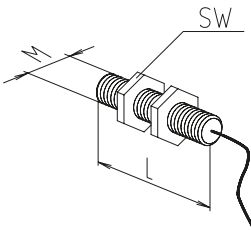


[mm]

Code No.	Type	Version	A	B	C
92990	PLS 30	2	64.5	46	74
92991	PLS 40	2	80	56	90
92992	PLS 50	2	96	66	106
92993	PLS 60	2	80	80	123.5
92994	PLS 80	2	133.5	100	143.5
92986	PLS 50-80	1	–	–	–

Inductive limit switch

- Function indicator (LED)
- Maintenance-free
- Material: Housing: stainless steel



Type	30-80
Voltage	10 - 30 V DC
Max. switching current	150 mA
Operating distance	2 mm for steel
Protection class	IP 67
Ambient temperature	-25°C to +70°C
Cable lengths	2m

Code No.	Type	Switching function	L	M	[mm] Wrench size (SW)
92826	PLS 30-80	Changeover	40	8x1	13