



PLG/ PLG-140 SERIES



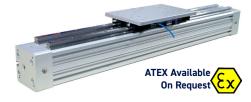
GUIDED RODLESS PNEUMATIC CYLINDER-(Formerly PL-AMT /HSR /LGW)

As Origa OSP-PS & Powerslide (Available with Brake & Shock Absorber)

Design	Rodless cylinder, double acting, direct load transmission
Strokes	
ø 25-63 mm	100–5700mm, in increments of 1mm (longer strokes on request)
ø 16 mm	100-3300mm, in increments of 1mm
Air connection	(M5, G 1/8", G 1/4", G 3/8")
Mounting	free
Forces + moments	see Forces and moments
Support Forces	see Deflection Diagram
Temperatures	(-10°C bis +80°C) other temperatures on request
Materials	
Barrel	High-strength anodized aluminum
Guide	Steel/ Stainless steel
End caps	High-strength anodized aluminum
Piston axle	High-strength anodized aluminum
Seals	Oilproof synthetic material (V < 1m/s (NBR)(V > = 1m/s (VITON)
Sealing bands	Stainless steel
Piston caps	Wear proof synthetic material
Sliding parts	Wear proof synthetic material
Pressure range	0.5-8.0 bar
Medium	compressed air, filtered max. 50µm

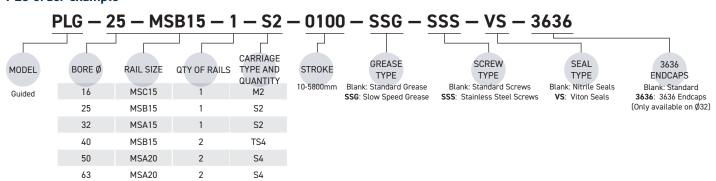


PLG-140 Braked Guided

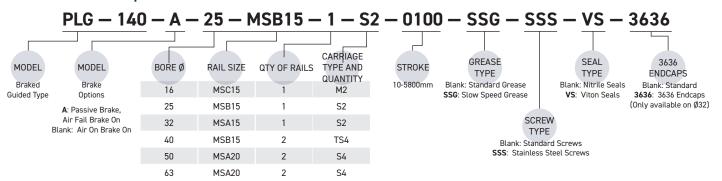


- · High loading characteristics
- · High static loading in all directions
- · Quiet and smooth running
- · Robust bearing housing
- · Easy access to grease nipple
- · Hardened and grinded guiderail
- Low friction bearing
- · Easy interchangeability

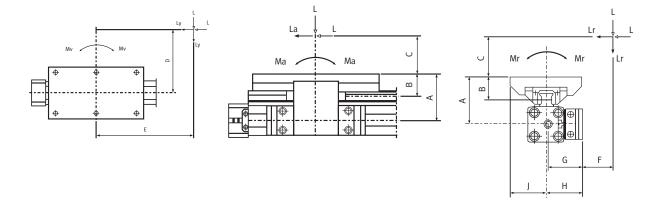
PLG order example



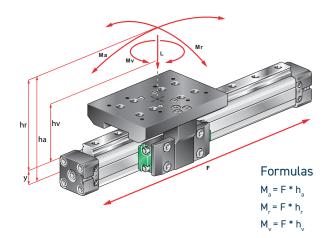
PLG-140 order example



PLG/ PLG-140 SERIES Forces and Moments



Characteristics	16	25	32	40	50	63	
effect force (6 bar) (N)	110	250	420	640	1000	1550	
cushioning (mm)	15	21	26	32	32	40	
A (mm)	35.0	53.0	64.0	69	90	102	
B (mm)	19.0	26.0	29.7	29.7	40	38.5	
C/D/E/F (mm)	Dimensions according design						
G (mm)	30.3	38.0	55.0	54.5	65	75	
H (mm)	31.5	40.0	57.5	57.5	68.5	85	
J (mm)	31.5	40.0	57.5	57.5	65	85	
Load forces max L (N)	500	1500	3000	3000	4000	4000	
Moment forces maxLa.Lr.Lv (N)	500	1500	3000	3000	4000	4000	
Axial moments max Ma (Nm)	8	40	58	58	200	200	
Radial moments max Mr (Nm)	4	15	23	23	70	70	
torsion moments max Mv (Nm)	8	40	58	58	200	200	



- 1. The above mentioned moments (Ma max, Mr max, Mv max) are related to the guide rail centre. The load force (L) is the summary of all single forces related to the common centre of the mass. The centre of the mass can be placed inside or outside the surface area of the carriage.
- 2. Normally the carriage would experience a dynamic load, which has to be considered with the calculation of needed piston force (F) and capacity of the ballguided system. Use the following calculation formula:

$$\frac{M_a}{M_{a \max}} + \frac{M_r}{M_{r \max}} + \frac{M_v}{M_{v \max}} + \frac{L}{L_{\max}} \le 1$$





PLG SERIES



GUIDED RODLESS PNEUMATIC CYLINDER-(Formerly PL-AMT /HSR /LGW)

As Origa OSP-PS & Powerslide (Available with Brake & Shock Absorber)



Bore Ø / Stroke	Ø16	Ø25	Ø32	Ø40	Ø50	Ø63
100 mm	£463.32	£487.71	£594.44	£750.09	£1,032.99	£1,219.55
200 mm	£499.92	£526.23	£641.92	£799.65	£1,093.92	£1,290.56
300 mm	£536.52	£564.75	£689.40	£849.21	£1,154.86	£1,361.56
400 mm	£573.11	£603.28	£736.88	£898.76	£1,215.80	£1,432.57
500 mm	£609.71	£641.80	£784.35	£948.32	£1,276.74	£1,503.57
600 mm	£646.31	£680.32	£831.83	£997.88	£1,337.67	£1,574.57
700 mm	£682.90	£718.84	£879.31	£1,047.44	£1,398.61	£1,645.58
800 mm	£719.50	£757.37	£926.78	£1,096.99	£1,459.55	£1,716.58
900 mm	£756.09	£795.89	£974.26	£1,146.55	£1,520.49	£1,787.59
1000 mm	£792.69	£834.41	£1,021.74	£1,196.11	£1,581.42	£1,858.59
1100 mm	£829.29	£872.93	£1,069.22	£1,245.67	£1,642.36	£1,929.60
1200 mm	£865.88	£911.46	£1,116.69	£1,295.22	£1,703.30	£2,000.60
1300 mm	£902.48	£949.98	£1,164.17	£1,344.78	£1,764.23	£2,071.61
1400 mm	£939.08	£988.50	£1,211.65	£1,394.34	£1,825.17	£2,142.61
1500 mm	£975.67	£1,027.02	£1,259.13	£1,443.90	£1,886.11	£2,213.61
1600 mm	£1,012.27	£1,065.55	£1,306.60	£1,493.45	£1,947.05	£2,284.62
1700 mm	£1,048.86	£1,104.07	£1,354.08	£1,543.01	£2,007.98	£2,355.62
1800 mm	£1,085.46	£1,142.59	£1,401.56	£1,592.57	£2,068.92	£2,426.63
1900 mm	£1,122.06	£1,181.11	£1,449.03	£1,642.12	£2,129.86	£2,497.63
2000 mm	£1,158.65	£1,219.64	£1,496.51	£1,691.68	£2,190.80	£2,568.64
Additional 100mm	£33.73	£39.63	£48.59	£50.67	£63.16	£73.23
Passive Brake Unit (Air Off = Brake On)		£460.95	£460.95	£460.95	£536.55	£536.55
Pair Shock Absorbers & Mounting Brackets	£297.00	£318.60	£365.04	£365.04	£502.20	£502.20
3636 Endcaps (Pair Fitted PL00 / PLF 32)			£151.20			
	24-1	24-2	24-3	24-4	24-5	24-6
End Supports (Pair)	£34.56	£41.04	£51.84	£51.84	£62.64	£62.64
Mid Section Support	25-1	25-2	25-3	25-4	25-5	25-6
Adjustable Clamp Support	£32.62 25-1-3	£36.94 25-2-3	£34.26 25-3-3	£51.84	£51.84	£51.84
	20-1-3	25-2-3	25-3-3			
(Preferred Stock)	£58.61	£68.97	£73.57			
Slow Speed Grease (SSG)	£7.30	£8.83	£10.08	£11.47	£12.46	£14.09
Stainless Screws (SSS)	£19.80	£25.36	£27.59	£29.81	£32.04	£33.15
Viton Seals (VS)	£35.00	£50.83	£54.76	£75.64	£98.98	£114.58
RCAL-3M Reed Switch	£16	6.93				
RCAL-EQD	£16	6.93				
RCI-3M Reed Switch				£18	09	
RCI-EQD				£20		
		2.17		£ZU	.43	
RNA-3M Inductive Switch		3.16				
RNA-EQD		2.72				
RPA-3M Inductive Switch	£23	3.55				
RPA-EQD	£39	9.42				
RNI-3M Inductive Switch				£31	.41	
RNI-EQD				£30		
RPI-3M Inductive Switch				£31		
RPI-QD				£31		
			C47		.00	
M83RPVC-5M (QR Lead)	1181	115.	£17	7.63		
Switch Clamp	HPL	HPL				
(Use With RCAL / NA / PA)	£4.22	£4.22				
Switch Clamp		DC1				
Use With RCI / RNI / RPI) 25ø Only		£4.31				

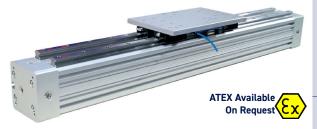
Air Preparation

Pilot & Mechanical Valves Pneumatic Cylinders

PLG-140 SERIES



GUIDED AND BRAKED RODLESS PNEUMATIC CYLINDER (Active)

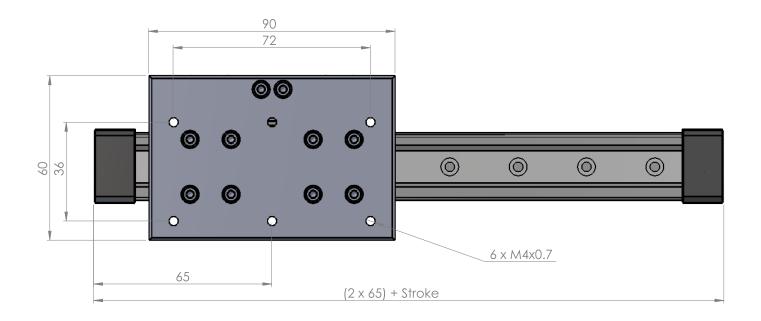


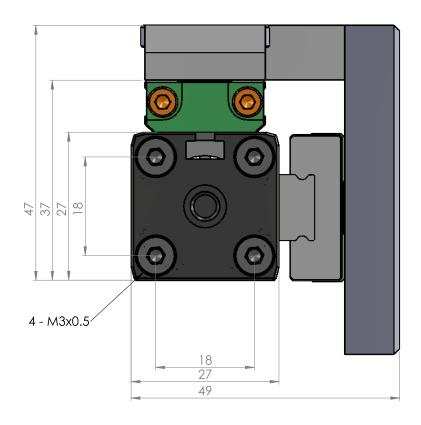
Bore Ø / Stroke	Ø25	Ø32	Ø40	Ø50	Ø63
100 mm	£827.60	£923.88	£1,423.01	£1,814.25	£2,194.14
200 mm	£865.00	£969.98	£1,471.13	£1,873.41	£2,263.08
300 mm	£902.40	£1,016.07	£1,519.24	£1,932.57	£2,332.01
400 mm	£939.80	£1,062.17	£1,567.36	£1,991.73	£2,400.95
500 mm	£977.20	£1,108.26	£1,561.47	£2,050.90	£2,469.89
600 mm	£1,014.60	£1,154.36	£1,609.58	£2,110.06	£2,538.82
700 mm	£1,052.00	£1,200.45	£1,657.70	£2,169.22	£2,607.76
800 mm	£1,089.40	£1,246.54	£1,705.81	£2,228.38	£2,676.70
900 mm	£1,126.80	£1,292.64	£1,753.93	£2,287.55	£2,745.63
1000 mm	£1,164.20	£1,338.73	£1,802.04	£2,346.71	£2,814.57
1100 mm	£1,201.60	£1,384.83	£1,850.15	£2.405.87	£2,883.51
1200 mm	£1,239.00	£1,430.92	£1,898.27	£2,465.03	£2,952.44
1300 mm	£1,276.40	£1,477.02	£1,946.38	£2,524.20	£3,021.38
1400 mm	£1,278.40 £1,313.80	£1,523.11	£1,746.50	£2,583.36	£3,090.32
1500 mm		£1,569.21		£2,642.52	
1600 mm	£1,351.20		£2,042.61	£2,701.68	£3,159.25
	£1,388.60	£1,615.30	£2,090.72		£3,228.19
1700 mm	£1,426.00	£1,661.39	£2,138.84	£2,760.85	£3,297.12
1800 mm	£1,463.40	£1,707.49	£2,186.95	£2,820.01	£3,366.06
1900 mm	£1,500.80	£1,753.58	£2,235.07	£2,879.17	£3,435.00
2000 mm	£1,538.20	£1,799.68	£2,283.18	£2,938.33	£3,503.93
Additional 100mm	£40.40	£50.67	£52.79	£63.25	£74.65
3636 Endcaps		£151.20			
(Pair Fitted PL00 / PLF 32)		2.01.20			
air Shock Absorbers & Mounting	£318.60	£365.04	£365.04	£502.20	£502.20
Brackets					
nd Supports (Pair)	24-2	24-3	24-4	24-5	24-6
	£41.04	£51.84	£51.84	£62.64	£62.64
Mid Section Support	25-2	25-3	25-4	25-5	25-6
	C2/ 0/	C2/ 2/	CE1.0/	CE1.0/	CE1.0/
	£36.94	£34.26	£51.84	£51.84	£51.84
Adjustable Clamp Support	25-2-3	25-3-3			
(Preferred Stock)	£68.97	£73.57			
	£8.83	£10.08	£11.47	£12.46	£14.09
Stainless Screws (SS)	£16.46	£19.80	£19.80	£20.91	£23.14
Viton Seals (VS)	£81.44	£97.82	£107.37	£121.46	£145.69
RCAL-3M Reed Switch	£16.93				
RCAL-EQD	£16.93				
RCI-3M Reed Switch			£18	3.09	
RCI-EQD			£20	0.45	
RNA-3M Inductive Switch	£33.16				
RNA-EQD	£22.72				
RPA-3M Inductive Switch	£23.55				
RPA-EQD	£39.42				
RNI-3M Inductive Switch	20.172		£31	1.41	
RNI-EQD				0.51	
RPI-3M Inductive Switch			£31		
RPI-QD				1.86	
			£17.63	1.00	
M83RPVC-5M (QR Lead)	HPL		L17.03		
Switch Clamp (Use With RCAL / NA / PA)	HPL £4.22				
Switch Clamp	DC1				
Jse With RCI / RNI / RPI) 25ø Only	£4.31				
JOE THEIR INCH / INTI / INFI) ZOW UNITY	L4.31				





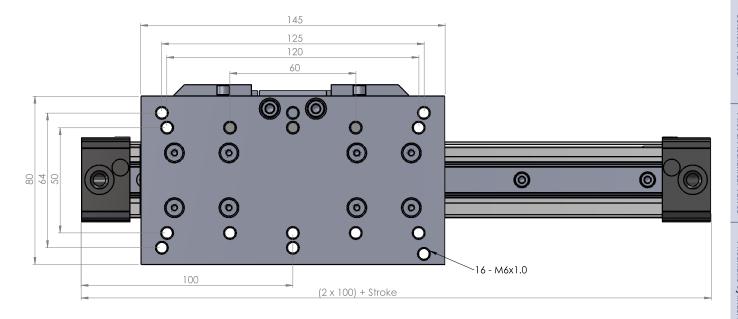
PLG/ PLG-140 16 Bore Dimensions

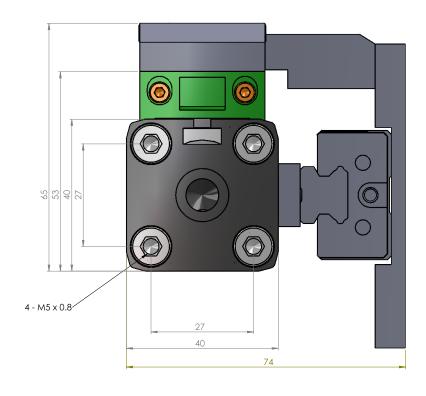






PLG/ PLG-140 25 Bore Dimensions

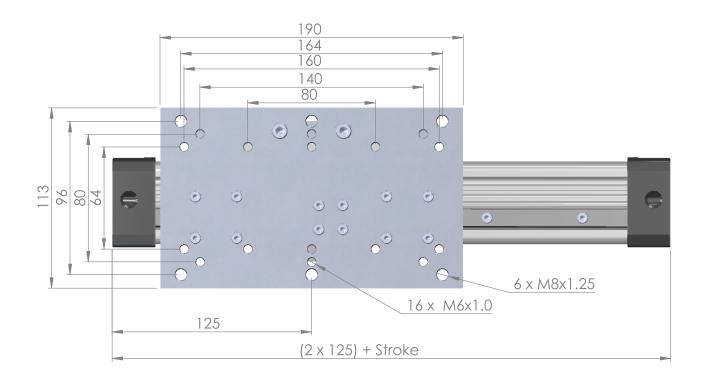


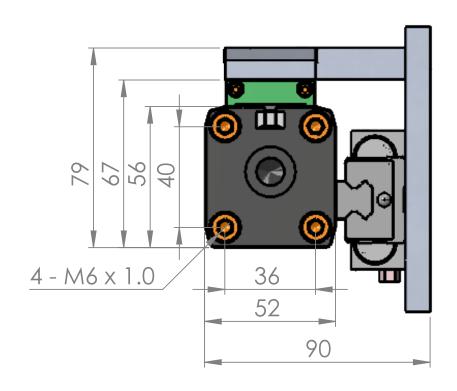






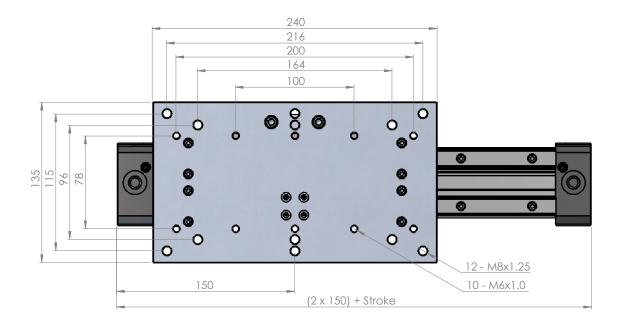
PLG/ PLG-140 32 Bore Dimensions

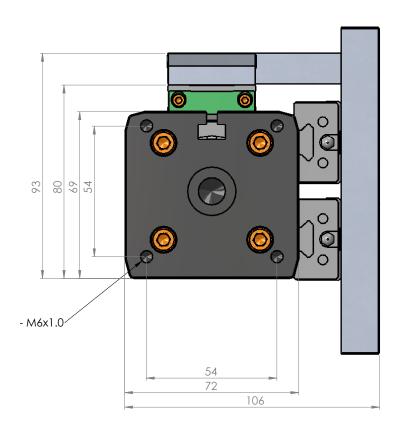






PLG/ PLG-140 40 Bore Dimensions

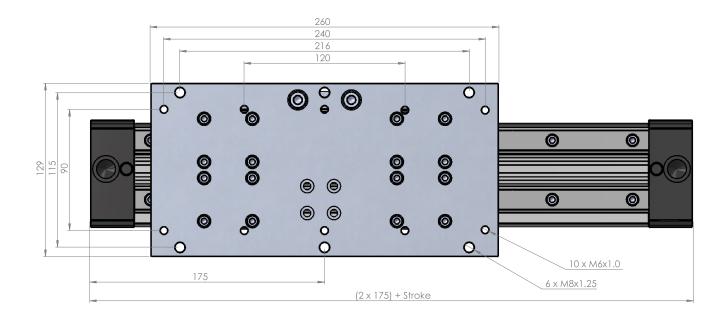


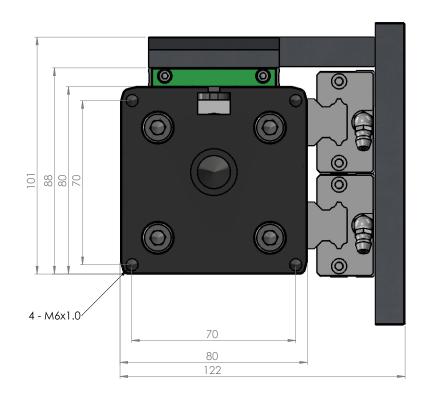






PLG/ PLG-140 50 Bore Dimensions







PLG/ PLG-140 63 Bore Dimensions

