

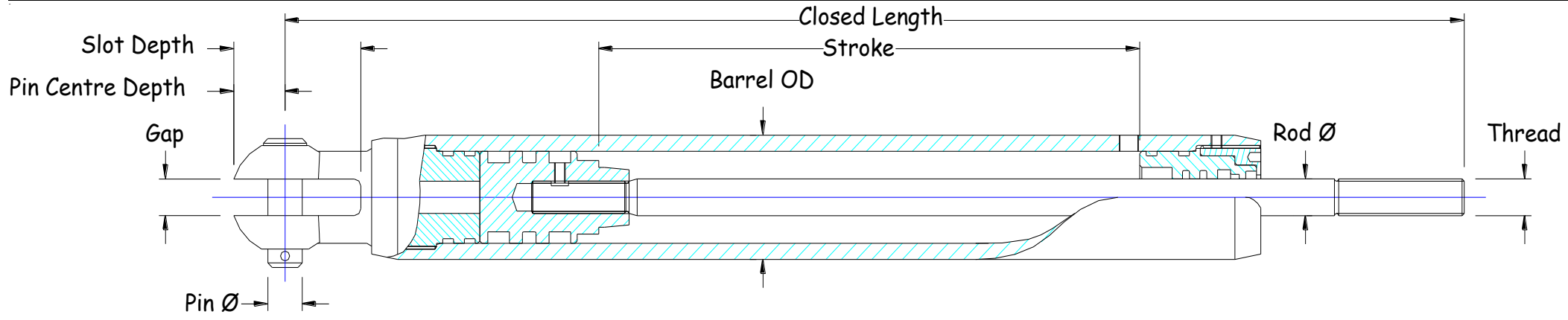
## EMPH Engineering Solutions Backstay/Tension Cylinder Range:

Cylinder Size	Model	Rod Ø (mm)	Maximum Pull (*) (kg)	Minimum Breaking Strength (kg)	Standard Stroke (mm)	Closed Length (#) (mm)	Extended Length (#) (mm)	Gap & Pin Ø (mm)	Pin Centre Depth (mm)	Slot Depth (mm)	Aluminium Barrel OD 6082 T6 (mm)	316L Stainless Steel Barrel OD (mm)	Piston Rod Thread (UNF)	Weight (kg)
-6	HPC350SD-6	12	1490	2980	225	489	714	11,1	22	45	41	48	7/16"-20	1,4
-6	HPC350LO-6	12	1490	2980	350	614	964	11,1	22	45	41	48	7/16"-20	1,7
-6	HPC350XL-6	12	1490	2980	500	764	1264	11,1	22	45	41	48	7/16"-20	2,0
-10	HPC350SD-10	14	2880	5760	225	514	739	12,7	22	57	51	60	1/2"-20	1,7
-10	HPC350LO-10	14	2880	5760	350	639	989	12,7	22	57	51	60	1/2"-20	2,1
-10	HPC350XL-10	14	2880	5760	500	789	1289	12,7	22	57	51	60	1/2"-20	3,2
-12	HPC350SD-12	16	3760	7520	250	576	826	15,9	25	60	56	65	5/8"-18	2,8
-12	HPC350LO-12	16	3760	7520	350	676	1026	15,9	25	60	56	65	5/8"-18	3,2
-12	HPC350XL-12	16	3760	7520	600	926	1526	15,9	25	60	56	65	5/8"-18	4,1
-17	HPC350SD-17	16	4950	9900	250	583	833	15,9	28	63	63	73	5/8"-18	3,6
-17	HPC350LO-17	16	4950	9900	375	708	1083	15,9	28	63	63	73	5/8"-18	4,1
-17	HPC350XL-17	16	4950	9900	775	1108	1883	15,9	28	63	63	73	5/8"-18	6,0
-22	HPC350SD-22	20	6450	12900	250	622	872	19,1	33,5	72	72	84	3/4"-16	5,3
-22	HPC350LO-22	20	6450	12900	375	747	1122	19,1	33,5	72	72	84	3/4"-16	6,1
-22	HPC350XL-22	20	6450	12900	900	1272	2172	19,1	33,5	72	72	84	3/4"-16	9,5
-30	HPC350SD-30	22	10480	20960	275	702	977	22,2	38	84	90	105	7/8"-14	8,8
-30	HPC350LO-30	22	10480	20960	425	852	1277	22,2	38	84	90	105	7/8"-14	10,3
-30	HPC350XL-30	22	10480	20960	1025	1452	2477	22,2	38	84	90	105	7/8"-14	16,0
-40	HPC350SD-40	25	16180	32360	300	758	1058	25,4	41	92	111	128	1"-12	11,0
-40	HPC350LO-40	25	16180	32360	450	908	1358	25,4	41	92	111	128	1"-12	12,9
-40	HPC350XL-40	25	16180	32360	1150	1608	2758	25,4	41	92	111	128	1"-12	21,1
-48	HPC350SD-48	28	18040	36080	300	770	1070	28,6	48	105	118	136	1 1/8"-12	16,8
-48	HPC350LO-48	28	18040	36080	450	920	1370	28,6	48	105	118	136	1 1/8"-12	19,6
-60	HPC350SD-60	32	19820	39640	350	850	1200	31,8	53	116	124	144	1 1/4"-12	21,0
-60	HPC350LO-60	32	19820	39640	525	1025	1550	31,8	53	116	124	144	1 1/4"-12	24,8

- \* At maximum relief valve setting: 350 bar
- # Length from centre of cylinder clevis pin to end of cylinder rod using standard stroke
- ✕ Details on larger sized cylinders upon request

SD	Standard	S	Stainless Steel
LO	Long	AS	Anodized Silver
XL	Extra Long	AB	Anodized Black
CM	Custom Design		

<u>Example:</u>	<u>HPC350CM-30S</u>	<u>HPC350LO-12AB</u>
	HPC350	HPC350
	CM	LO
	-30	-12
	S	AB
	Series Code	Series Code
	Custom Design	Stroke of 350mm
	Cylinder Size	Cylinder Size
	Stainless Steel	Anodized Black



Achieve the epitome of lightweight precision and durability with EMPH Engineering Solutions' standard cylinder offerings. Engineered for minimal weight and wind resistance, our cylinders are exemplars of reliability and longevity. The cylinder rods, constructed from marine-grade Duplex 2205, ensure optimal performance in maritime environments. Complementing this, the tubes, lower clevis, and caps are expertly crafted from black hard-coated aluminum, striking the perfect balance between strength and weight efficiency. Enhanced cylinder bore polishing guarantees extended seal life, underscoring our commitment to enduring excellence.

EMPH Engineering Solutions cylinders stand as the global benchmark for performance, reflecting our unwavering dedication to superior engineering. Our array of offerings includes Standard, Long, Flattening Reef, and Custom versions, allowing you to select the precise solution for your requirements. For projects necessitating the utmost corrosion resistance, we present Stainless Steel cylinders featuring 316 stainless construction throughout. As a testament to our commitment to customization, Titanium components are also available, offering the pinnacle of lightweight strength. Experience the pinnacle of engineering through EMPH's cylinder solutions, where each detail signifies our pursuit of perfection.