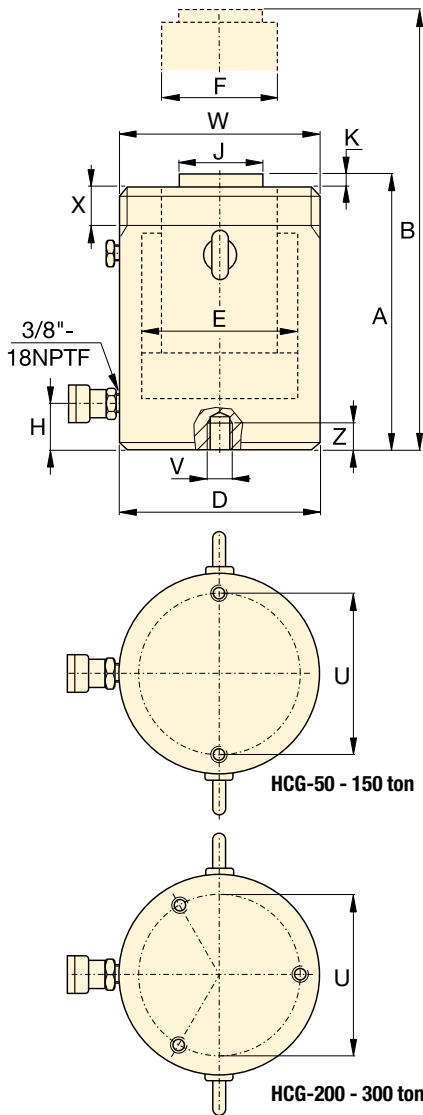




HCG-Series, Single-Acting, Gravity Return Cylinders

- Hardened surface resists side loading and cyclic wear
- Designed to withstand 10% side load of maximum capacity ¹⁾
- Stop ring to prevent plunger blow-out
- Weather protected, inside and out
- Upper and lower replaceable bearings enclose the cylinder plunger for support throughout the stroke
- Certified lifting eyes, base mounting holes and collar threads.
- Standard collar thread up to 250 ton models. Collar thread is optional on 300 ton models and higher.

SELECTION CHART 50 - 300 TON HCG-MODELS

For 400 - 1000 ton models, see pages 56-57.

For full product features see pages 50-51.

Cylinder Capacity	Stroke	Model Number	Maximum Cylinder Capacity at 700 bar ton (kN)	Cylinder Effective Area	Oil Capacity	Collapsed Height
ton	(mm)			(cm ²)	(cm ³)	A (mm)
50	50	HCG502	56 (550)	78,5	393	183
	100	HCG504			785	233
	150	HCG506 ¹⁾			1178	283
	200	HCG508			1571	346
	250	HCG5010			1963	396
	300	HCG5012 ¹⁾			2356	446
100	50	HCG1002	102 (1002)	143,1	716	202
	100	HCG1004			1431	252
	150	HCG1006			2147	302
	200	HCG1008			2863	379
	250	HCG10010			3578	429
	300	HCG10012			4294	479
150	50	HCG1502	153 (1497)	213,8	1069	220
	100	HCG1504			2138	270
	150	HCG1506			3207	320
	200	HCG1508			4276	397
	250	HCG15010			5346	447
	300	HCG15012			6415	497
200	50	HCG2002	202 (1985)	283,5	1418	231
	100	HCG2004			2835	281
	150	HCG2006			4253	331
	200	HCG2008			5671	408
	250	HCG20010			7088	458
	300	HCG20012			8506	508
250	50	HCG2502	259 (2541)	363,1	1815	241
	100	HCG2504			3631	291
	150	HCG2506			5446	341
	200	HCG2508			7261	431
	250	HCG25010			9076	481
	300	HCG25012			10.892	531
300	50	HCG3002	310 (3036)	433,7	2169	296
	100	HCG3004			4337	346
	150	HCG3006			6506	396
	200	HCG3008			8675	446
	250	HCG30010			10.843	496
	300	HCG30012			13.012	546

Collar Thread * (mm)

Model / Capacity ton	Thread Size	Thread Length
	W	X
HCG50	M130 x 2	30
HCG100	M175 x 3	46
HCG150	M215 x 3	55
HCG200	M250 x 3	63
HCG250	M280 x 3	64
HCG300 *	M305 x 3	73

* Standard collar thread up to 250 ton models. Collar thread is optional on 300 ton models and higher. For collar thread on cylinder add suffix "E002" to model number. **Example: HCG3006E002**
The collar thread length is designed for the full rated cylinder capacity.

Base Mounting Holes (mm)

Model / Capacity ton	Bolt Circle	Thread Size	Minimum Thread Depth	Number of Holes	Angle from Coupler
	U	V	Z		
HCG50	105	M12 x 1,75	22	2	90°
HCG100	150	M12 x 1,75	22	2	90°
HCG150	185	M12 x 1,75	22	2	90°
HCG200	215	M12 x 1,75	22	3	60°
HCG250	245	M12 x 1,75	22	3	60°
HCG300	260	M16 x 2	25	3	60°

¹⁾ HCG506 and HCG5012: 7% side load of maximum capacity.

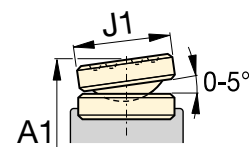
Single-Acting, High-Tonnage Cylinders

Capacity:
50 - 300 ton

Stroke:
50 - 300 mm

Maximum Operating Pressure:
700 bar

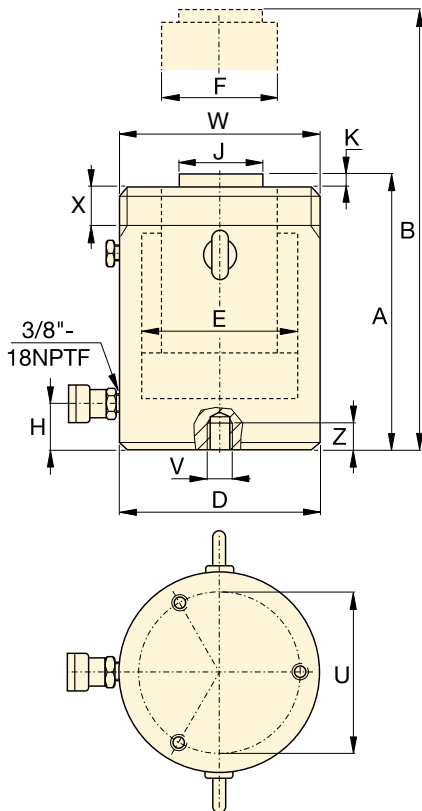
HCG Series



CATS-Series Tilt Saddle

Extended Height	Outside Diameter	Cylinder Bore Diameter	Plunger Diameter	Base to Advance Port	Standard Saddle Diameter	Saddle Protrusion from Plunger	Model Number	Saddle Weight (kg)	Optional Tilt Saddle		
									Saddle Diameter J1 (mm)	Collapsed Height A1 (mm)	Saddle Model Number
233	130	100	70	38	50	3	HCG502	17	71	197	CATS50
333							HCG504	20		247	
433							HCG506 ¹⁾	24		297	
546							HCG508	29		360	
646							HCG5010	32		410	
746							HCG5012 ¹⁾	36		460	
252	175	135	95	38	75	3	HCG1002	33	71	212	CATS101
352							HCG1004	40		262	
452							HCG1006	46		312	
579							HCG1008	58		389	
679							HCG10010	65		439	
779							HCG10012	71		489	
270	215	165	120	41	94	3	HCG1502	56	97	239	CATS150
370							HCG1504	66		289	
470							HCG1506	76		339	
597							HCG1508	94		416	
697							HCG15010	104		466	
797							HCG15012	115		516	
281	250	190	140	47	113	3	HCG2002	81	126	249	CATS200
381							HCG2004	95		299	
481							HCG2006	109		349	
608							HCG2008	136		426	
708							HCG20010	150		476	
808							HCG20012	164		526	
291	280	215	170	53	140	4	HCG2502	107	175	280	CATS300
391							HCG2504	125		330	
491							HCG2506	144		380	
631							HCG2508	182		470	
731							HCG25010	201		520	
831							HCG25012	219		570	
346	305	235	200	58	140	4	HCG3002	158	175	335	CATS300
446							HCG3004	182		385	
546							HCG3006	206		435	
646							HCG3008	230		485	
746							HCG30010	254		535	
846							HCG30012	278		585	

²⁾ A1 = Collapsed height including CATS-Series tilt saddle.



HCG-Series, Single-Acting, Gravity Return Cylinders

- Hardened surface resists side loading and cyclic wear
- Designed to withstand 10% side load of maximum capacity
- Stop ring to prevent plunger blow-out
- Weather protected, inside and out
- Upper and lower replaceable bearings enclose the cylinder plunger for support throughout the stroke
- Certified lifting eyes, base mounting holes
- Optional collar threads on 300 ton models and higher capacities.

SELECTION CHART 400 - 1000 TON HCG-MODELS

For 50 - 300 ton models, see pages 54-55.

For full product features see pages 50-51.

Cylinder Capacity	Stroke	Model Number	Maximum Cylinder Capacity at 700 bar ton (kN)	Cylinder Effective Area	Oil Capacity	Collapsed Height
ton	(mm)			(cm ²)	(cm ³)	A (mm)
400	50	HCG4002	409 (4008)	572,6	2863	321
	100	HCG4004			5726	371
	150	HCG4006			8588	421
	200	HCG4008			11.451	471
	250	HCG40010			14.314	521
	300	HCG40012			17.177	571
500	50	HCG5002	522 (5114)	730,6	3653	344
	100	HCG5004			7306	394
	150	HCG5006			10.959	444
	200	HCG5008			14.612	494
	250	HCG50010			18.265	544
	300	HCG50012			21.918	594
600	50	HCG6002	611 (5987)	855,3	4276	352
	100	HCG6004			8553	402
	150	HCG6006			12.829	452
	200	HCG6008			17.106	502
	250	HCG60010			21.382	552
	300	HCG60012			25.659	602
800	50	HCG8002	831 (8149)	1164,2	5821	404
	100	HCG8004			11.642	454
	150	HCG8006			17.462	504
	200	HCG8008			23.283	554
	250	HCG80010			29.104	604
	300	HCG80012			34.925	654
1000	50	HCG10002	1085 (10.644)	1520,5	7603	442
	100	HCG10004			15.205	492
	150	HCG10006			22.808	542
	200	HCG10008			30.411	592
	250	HCG100010			38.013	642
	300	HCG100012			45.616	692

Optional Collar Thread (mm)

Model / Capacity ton	Thread Size	Thread Length	Collar thread is optional on 300 ton models and higher. For collar thread on cylinder add suffix "E002" to model number. Example: HCG4006E002
	W	X	
HCG400	M350 x 3	83	The collar thread length is designed for the full rated cylinder capacity.
HCG500	M400 x 4	90	
HCG600	M430 x 4	100	
HCG800	M505 x 5	122	
HCG1000	M570 x 5	137	

Base Mounting Holes (mm)

Model / Capacity ton	Bolt Circle	Thread Size	Minimum Thread Depth	Number of Holes	Angle from Coupler
	U	V	Z		
HCG400	300	M16 x 2	25	3	60°
HCG500	340	M24 x 3	36	3	60°
HCG600	370	M24 x 3	36	3	60°
HCG800	440	M24 x 3	36	3	60°
HCG1000	500	M24 x 3	36	3	60°

Single-Acting, High-Tonnage Cylinders



▲ Offshore wind turbines levelling: Enerpac's synchronous lifting system was the solution for levelling support cross pieces on 80 wind turbines.

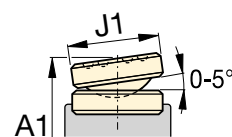
HCG Series



Capacity:
400 - 1000 ton

Stroke:
50 - 300 mm

Maximum Operating Pressure:
700 bar



CATS-Series Tilt Saddle

Extended Height B (mm)	Outside Diameter D (mm)	Cylinder Bore Diameter E (mm)	Plunger Diameter F (mm)	Base to Advance Port H (mm)	Standard Saddle Diameter J (mm)	Saddle Protrusion from Plunger K (mm)	 (kg)	Model Number	Optional Tilt Saddle		
									Saddle Diameter J1 (mm)	Collapsed Height * A1 (mm)	Saddle Model Number
371	350	270	220	74	159	4	227	HCG4002	210	369	CATS400
471							257	HCG4004		419	
571							287	HCG4006		469	
671							317	HCG4008		519	
771							347	HCG40010		569	
871							378	HCG40012		619	
394	400	305	250	79	179	4	319	HCG5002	230	392	CATS500
494							359	HCG5004		442	
594							399	HCG5006		492	
694							439	HCG5008		542	
794							479	HCG50010		592	
894							519	HCG50012		642	
402	430	330	270	85	194	4	378	HCG6002	250	405	CATS600
502							424	HCG6004		455	
602							470	HCG6006		505	
702							516	HCG6008		555	
802							562	HCG60010		605	
902							608	HCG60012		655	
454	505	385	320	100	224	4	606	HCG8002	275	461	CATS800
554							671	HCG8004		511	
654							735	HCG8006		561	
754							800	HCG8008		611	
854							864	HCG80010		661	
954							929	HCG80012		711	
492	570	440	340	114	249	4	840	HCG10002	300	519	CATS1000
592							916	HCG10004		569	
692							992	HCG10006		619	
792							1068	HCG10008		669	
892							1145	HCG100010		719	
992							1221	HCG100012		769	

* A1 = Collapsed height including CATS-Series tilt saddle.