HDCH Series Double-Acting Hollow Plunger Cylinders

Double-acting hydraulic-return hollow plunger cylinders rated for 700 Bar (10,000 PSI), engineered for high-tonnage tensioning, cable pulling, structural load testing, and bidirectional pushing across 30 to 150 Ton capacities.



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RATED CAPACITY	STROKE RANGE	RETRACTION MECHANISM
30 - 150 METRIC TONS	38 - 258 MM (1.5 - 10.15 IN)	DOUBLE-ACTING, HYDRAULIC RETURN
CENTER BORE DIAMETER	**CYLINDER CONSTRUCTION**	**MAX WORKING PRESSURE**
Ø 33.3 - 79.2 MM (FULL-LENGTH PASS-THROUGH)	HIGH-STRENGTH ALLOY STEEL WITH HARD CHROME PLUNGER	700 BAR (10,000 PSI)

Model	Capacity @10,000 PSI (700 bar) [Metric Ton]	Stroke [mm]	Max. Capacity (Ton)		Effective Area (cm²)		Oil Capacity (cm³)		Closed Height (A) [mm]	Extended Height (B) [mm]	Collar Thread (C)	Collar Thread Length (X) [mm]	Outside Diam. (D) [mm]	Piston Diam. (F) [mm]	Piston Inner Thread (O)	Thread Length (P) [mm]	Base Mounting Hole			Center Hole Diam. (Y) [mm]	Weight [Kg]
			Push [Ton]	Pull [Ton]	Push [cm2]	Pull [cm2]	Push [cm3]	Pull [cm3]									Bolt Circle (U) [mm]	Thread (V)	Thread Depth (Z) [mm]		
HDCH-307	30	178	33	22	47.7	32.4	849	577	330	508	4.1/2" - 12 UN	42	114	65	1 13/16" -16	22	92	3/8" - 16 UNC	15.5	33.3	21
HDCH-3010	30	258	33	22	47.7	32.4	1231	836	431	689	4.1/2" - 12 UN	42	114	65	1 13/16" -16	22	92	3/8" - 16 UNC	15.5	33.3	27
HDCH-603	60	89	60	39	87.4	56.2	778	481	246	335	6.1/4" - 12 UNC	48	159	92	2 3/4"-16	19	130	1/2" - 13 UNC	14	53.8	28
HDCH-606	60	166	60	39	87.4	56.2	1451	891	323	489	6.1/4" - 12 UNC	48	159	92	2 3/4"-16	19	130	1/2" - 13 UNC	14	53.8	35
HDCH-6010	60	257	60	39	87.4	56.2	2246	1388	438	695	6.1/4" - 12 UNC	48	159	92	2 3/4"-16	25	130	1/2" - 13 UNC	14	53.8	45
HDCH-1001	95	38	93	60	135.2	87.1	514	331	165	203	-	-	212	127	4"-16	25	178	5/8" - 11 UNC	19	79.2	33
HDCH-1003	95	76	93	60	135.2	87.1	1027	662	254	330	8.3/8" - 12 UN	60	212	127	4"-16	25	178	5/8" - 11 UNC	19	79.2	61
HDCH-1006	95	153	93	60	135.2	87.1	2069	1333	342	495	8.3/8" - 12 UN	60	212	127	4"-16	25	178	5/8" - 11 UNC	19	79.2	79
HDCH-10010	95	257	93	60	135.2	87.1	3475	2239	460	717	8.3/8" - 12 UN	60	212	127	4"-16	25	178	5/8" - 11 UNC	19	79.2	107
HDCH-1508	150	203	136	70	196.8	102	3995	2074	349	552	-	-	247	152.5	4 1/4"-12	25	-	-	-	79.2	111

HDCH Series Double-Acting Hollow Plunger Cylinders - Optional Hollow Threaded Saddles

Saddle Model	Compatible Cylinders	Saddle Outer Diam. (A) [in]	Internal Thread (B)	Protrusion (C) [in]	External Plunger Thread (D)
SH-3015	HDCH-307, HDCH-3010	2.48	1-1/4" - 7 UN	0.35	1-13/16" - 16 UN
SH-5016	HDCH-603, HDCH-606, HDCH-6010	3.58	1-5/8" - 5-1/2" UN	0.47	2-3/4" - 16 UN
SH-10016	HDCH-1001, HDCH-1003, HDCH-1006, HDCH-10010	4.96	2-1/2" - 8 UN	0.51	4" - 16 UN

Engineering Note: All dimensions in inches unless otherwise noted.