ALUMINUM LIGHTWEIGHT CYLINDERS | OEM CROSS-REFERENCE: ENERPAC RARH SERIES EQUIVALENT

# HDCHA Series Lightweight Aluminum Double-Acting Hollow Cylinders

Double-acting hydraulic-return lightweight aluminum hollow plunger cylinders rated for 700 Bar (10,000 PSI), engineered for powered retraction, post-tensioning, and heavy cable pulling across 30 to 150 Ton capacities.



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**CAPACITY RANGE**
**30 - 150 Metric Ton (Advance) / 19 - 76 Metric Ton (Retract)**

**CENTER HOLE DIAMETER**
**34 - 79 mm Hollow Core**

**STROKE RANGE**
**50 - 250 mm**

**MAX WORKING PRESSURE**
**700 Bar (10,000 PSI)**

**ACTING & RETURN TYPE**
**Double-Acting, Hydraulic Powered Advance & Retraction**

**CYLINDER MATERIAL**
**High-Strength Hard-Coat Anodized Aluminum Alloy**

| Model | Rated Capacity [Ton] | Stroke [mm] | Push Force (Advance) [kN] | Pull Force (Retract) [kN] | Adv. Eff. Area [cm2] | Ret. Eff. Area [cm2] | Adv. Oil Cap [cm3] | Ret. Oil Cap [cm3] | Closed Height (A) [mm] | Extended Height (B) [mm] | Outside Diam. (D) [mm] | Bore Diam. (E) [mm] | Plunger Diam. (F) [mm] | Base to Advance Port (H) [mm] | Top to Return Port (I) [mm] | Saddle Diam. (J) [mm] | Saddle Protrusion (K) [mm] | Plunger Internal Thread (O) | Thread Length (P) [mm] | Center Hole Diam. (Y) [mm] | Weight [Kg] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HDCHA-302 | 30 | 50 | 359 | 187 | 51.2 | 26.7 | 256 | 134 | 209 | 259 | 135 | 95 | 75 | 22 | 64 | 63 | 10 | 1-13/16"-16UN | 23 | 34 | 8.9 |
| HDCHA-306 | 30 | 150 | 359 | 187 | 51.2 | 26.7 | 769 | 401 | 309 | 459 | 135 | 95 | 75 | 22 | 64 | 63 | 10 | 1-13/16"-16UN | 23 | 34 | 11.9 |
| HDCHA-3010 | 30 | 250 | 359 | 187 | 51.2 | 26.7 | 1281 | 668 | 409 | 659 | 135 | 95 | 75 | 22 | 64 | 63 | 10 | 1-13/16"-16UN | 23 | 34 | 14.9 |
| HDCHA-602 | 60 | 50 | 595 | 264 | 84.9 | 37.7 | 425 | 189 | 246 | 296 | 180 | 130 | 110 | 48 | 83 | 92 | 13 | 2-3/4"-16UN | 20 | 54 | 16.8 |
| HDCHA-606 | 60 | 150 | 595 | 264 | 84.9 | 37.7 | 1274 | 566 | 346 | 496 | 180 | 130 | 110 | 48 | 83 | 92 | 13 | 2-3/4"-16UN | 20 | 54 | 22.2 |
| HDCHA-6010 | 60 | 250 | 595 | 264 | 84.9 | 37.7 | 2124 | 943 | 446 | 696 | 180 | 130 | 110 | 48 | 83 | 92 | 13 | 2-3/4"-16UN | 20 | 54 | 27.6 |
| HDCHA-1002 | 100 | 50 | 1001 | 568 | 142.9 | 81.1 | 715 | 405 | 254 | 304 | 235 | 165 | 130 | 61 | 78 | 126 | 13.5 | 4"-16UN | 27 | 79 | 28.9 |
| HDCHA-1006 | 100 | 150 | 1001 | 568 | 142.9 | 81.1 | 2144 | 1216 | 354 | 504 | 235 | 165 | 130 | 61 | 78 | 126 | 13.5 | 4"-16UN | 27 | 79 | 38.3 |
| HDCHA-10010 | 100 | 250 | 1001 | 568 | 142.9 | 81.1 | 3574 | 2027 | 454 | 704 | 235 | 165 | 130 | 61 | 78 | 126 | 13.5 | 4"-16UN | 27 | 79 | 47.7 |
| HDCHA-1502 | 150 | 50 | 1489 | 748 | 212.6 | 106.8 | 1063 | 534 | 264 | 314 | 280 | 190 | 150 | 61 | 83 | 127 | 18.8 | 4-1/4"-12UN | 40 | 79 | 42.4 |
| HDCHA-1506 | 150 | 150 | 1489 | 748 | 212.6 | 106.8 | 3190 | 1602 | 364 | 514 | 280 | 190 | 150 | 61 | 83 | 127 | 18.8 | 4-1/4"-12UN | 40 | 79 | 56.2 |
| HDCHA-15010 | 150 | 250 | 1489 | 748 | 212.6 | 106.8 | 5316 | 2670 | 464 | 714 | 280 | 190 | 150 | 61 | 83 | 127 | 18.8 | 4-1/4"-12UN | 40 | 79 | 70.0 |