

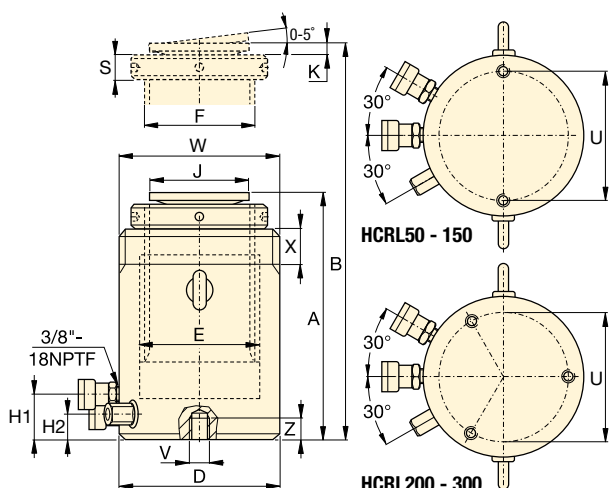
# HCRL-Series, Double-Acting Lock Nut Cylinders

**ENERPAC** 

▼ HCRL2006, HCRL506



- Hydraulically controlled fast retraction
- Lock nut provides mechanical load holding for a safe work environment
- Designed to withstand up to 10% side-load of maximum capacity
- Integrated tilt saddle allows up to 5 degrees of misalignment
- Hardened surface resists side-loading and cyclic wear
- Weather protected, inside and out
- Replaceable bearings enclose the plunger external and internally for support
- Certified lifting eyes, base mounting holes and collar thread as standard
- Stop-ring to prevent plunger blow-out
- Low friction lock nut, to spin easily, save time and effort.



**SELECTION CHART 50 - 300 TON HCRL-MODELS**

For full product features see pages 44-45.

| Cylinder Capacity * | Stroke * | Model Number | Maximum Cylinder Capacity at 700 bar ton (kN) | Cylinder Effective Area (cm <sup>2</sup> ) | Oil Capacity (cm <sup>3</sup> ) |         |
|---------------------|----------|--------------|-----------------------------------------------|--------------------------------------------|---------------------------------|---------|
|                     |          |              |                                               |                                            | Advance                         | Retract |
| 50                  | 150      | HCRL506      | 49 (479)                                      | 68,4                                       | 1025                            | 86      |
|                     | 200      | HCRL508      |                                               |                                            | 1367                            | 115     |
|                     | 250      | HCRL5010     |                                               |                                            | 1709                            | 143     |
|                     | 300      | HCRL5012     |                                               |                                            | 2051                            | 172     |
| 100                 | 150      | HCRL1006     | 101 (990)                                     | 141,4                                      | 2121                            | 236     |
|                     | 200      | HCRL1008     |                                               |                                            | 2827                            | 314     |
|                     | 250      | HCRL10010    |                                               |                                            | 3534                            | 393     |
|                     | 300      | HCRL10012    |                                               |                                            | 4241                            | 471     |
| 150                 | 150      | HCRL1506     | 153 (1501)                                    | 214,4                                      | 3216                            | 236     |
|                     | 200      | HCRL1508     |                                               |                                            | 4288                            | 314     |
|                     | 250      | HCRL15010    |                                               |                                            | 5360                            | 393     |
|                     | 300      | HCRL15012    |                                               |                                            | 6432                            | 471     |
| 200                 | 150      | HCRL2006     | 204 (2001)                                    | 285,9                                      | 4288                            | 530     |
|                     | 200      | HCRL2008     |                                               |                                            | 5718                            | 707     |
|                     | 250      | HCRL20010    |                                               |                                            | 7147                            | 884     |
|                     | 300      | HCRL20012    |                                               |                                            | 8577                            | 1060    |
| 250                 | 150      | HCRL2506     | 251 (2463)                                    | 351,9                                      | 5278                            | 530     |
|                     | 200      | HCRL2508     |                                               |                                            | 7037                            | 707     |
|                     | 250      | HCRL25010    |                                               |                                            | 8796                            | 884     |
|                     | 300      | HCRL25012    |                                               |                                            | 10.556                          | 1060    |
| 300                 | 150      | HCRL3006     | 303 (2969)                                    | 424,1                                      | 6362                            | 530     |
|                     | 200      | HCRL3008     |                                               |                                            | 8482                            | 707     |
|                     | 250      | HCRL30010    |                                               |                                            | 10.603                          | 884     |
|                     | 300      | HCRL30012    |                                               |                                            | 12.723                          | 1060    |

\* Up to 2000 ton and additional stroke lengths available on request.

| Collar Thread (mm)   |               |                 |
|----------------------|---------------|-----------------|
| Model / Capacity ton | Thread Size W | Thread Length X |
| HCRL50               | M130 x 2      | 42              |
| HCRL100              | M185 x 2      | 57              |
| HCRL150              | M222 x 3      | 70              |
| HCRL200              | M260 x 3      | 79              |
| HCRL250              | M290 x 3      | 85              |
| HCRL300              | M315 x 3      | 94              |

The collar thread length is designed for the full rated cylinder capacity.

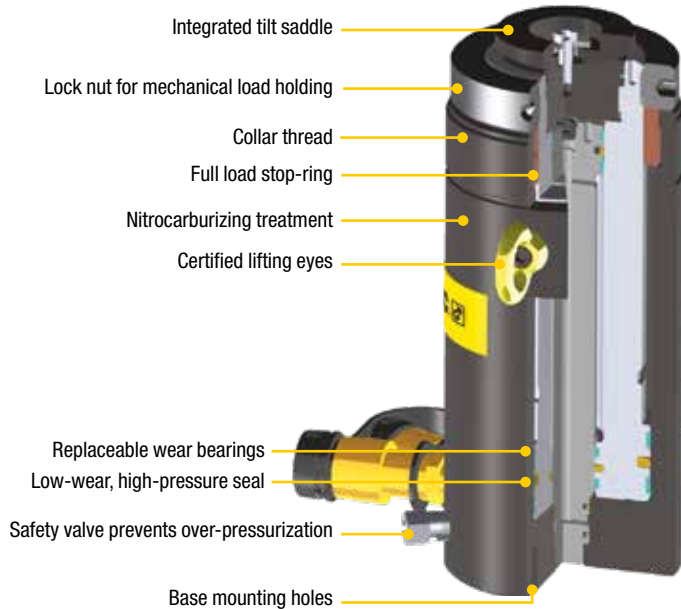
| Base Mounting Holes (mm) |               |               |                        |
|--------------------------|---------------|---------------|------------------------|
| Model / Capacity ton     | Bolt Circle U | Thread Size V | Minimum Thread Depth Z |
| HCRL50                   | 105           | M12 x 1,75    | 22                     |
| HCRL100                  | 150           | M12 x 1,75    | 22                     |
| HCRL150                  | 185           | M12 x 1,75    | 22                     |
| HCRL200                  | 215           | M12 x 1,75    | 22                     |
| HCRL250                  | 245           | M12 x 1,75    | 22                     |
| HCRL300                  | 260           | M16 x 2       | 25                     |

# Double-Acting Lock Nut Cylinders

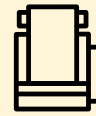


## Higher Capacities, Larger Strokes

The HCRL-Series Cylinders are available up to 2000 ton capacity and additional stroke lengths available on request.



## HCRL Series



Capacity:

**50 - 300 ton**

Stroke:

**150 - 300 mm**

Maximum Operating Pressure:

**700 bar**



## Synchronous Lifting Systems

**EVO-Series** pumps the multi-functional lifting system and multiple lift point capabilities.

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|  | Collapsed Height<br>A<br>(mm) | Extended Height<br>B<br>(mm) | Outside Diameter<br>D<br>(mm) | Cylinder Bore Diameter<br>E<br>(mm) | Plunger Diameter (threaded)<br>F<br>(mm) | Base to Advance Port<br>H1<br>(mm) | Base to Retract Port<br>H2<br>(mm) | Saddle Diameter<br>J<br>(mm) | Saddle Protrusion<br>K<br>(mm) | Lock Nut Height<br>S<br>(mm) | (kg) | Model Number     |
|--|-------------------------------|------------------------------|-------------------------------|-------------------------------------|------------------------------------------|------------------------------------|------------------------------------|------------------------------|--------------------------------|------------------------------|------|------------------|
|  | 310                           | 460                          | 130                           | 100                                 | Tr 90 x 4                                | 41                                 | 27                                 | 77                           | 15                             | 26                           | 30   | <b>HCRL506</b>   |
|  | 377                           | 577                          |                               |                                     |                                          |                                    |                                    |                              |                                |                              | 36   | <b>HCRL508</b>   |
|  | 427                           | 677                          |                               |                                     |                                          |                                    |                                    |                              |                                |                              | 40   | <b>HCRL5010</b>  |
|  | 477                           | 777                          |                               |                                     |                                          |                                    |                                    |                              |                                |                              | 45   | <b>HCRL5012</b>  |
|  | 346                           | 496                          | 185                           | 140                                 | Tr 120 x 6                               | 50                                 | 36                                 | 77                           | 15                             | 36                           | 64   | <b>HCRL1006</b>  |
|  | 421                           | 621                          |                               |                                     |                                          |                                    |                                    |                              |                                |                              | 77   | <b>HCRL1008</b>  |
|  | 471                           | 721                          |                               |                                     |                                          |                                    |                                    |                              |                                |                              | 85   | <b>HCRL10010</b> |
|  | 521                           | 821                          |                               |                                     |                                          |                                    |                                    |                              |                                |                              | 94   | <b>HCRL10012</b> |
|  | 359                           | 509                          | 222                           | 170                                 | Tr 150 x 6                               | 46                                 | 32                                 | 126                          | 13                             | 45                           | 97   | <b>HCRL1506</b>  |
|  | 434                           | 634                          |                               |                                     |                                          |                                    |                                    |                              |                                |                              | 116  | <b>HCRL1508</b>  |
|  | 484                           | 734                          |                               |                                     |                                          |                                    |                                    |                              |                                |                              | 129  | <b>HCRL15010</b> |
|  | 534                           | 834                          |                               |                                     |                                          |                                    |                                    |                              |                                |                              | 142  | <b>HCRL15012</b> |
|  | 399                           | 549                          | 260                           | 200                                 | Tr 170 x 6                               | 71                                 | 49                                 | 126                          | 13                             | 50                           | 145  | <b>HCRL2006</b>  |
|  | 469                           | 669                          |                               |                                     |                                          |                                    |                                    |                              |                                |                              | 168  | <b>HCRL2008</b>  |
|  | 519                           | 769                          |                               |                                     |                                          |                                    |                                    |                              |                                |                              | 184  | <b>HCRL20010</b> |
|  | 569                           | 869                          |                               |                                     |                                          |                                    |                                    |                              |                                |                              | 200  | <b>HCRL20012</b> |
|  | 416                           | 566                          | 290                           | 220                                 | Tr 190 x 6                               | 71                                 | 49                                 | 160                          | 15                             | 55                           | 190  | <b>HCRL2506</b>  |
|  | 491                           | 691                          |                               |                                     |                                          |                                    |                                    |                              |                                |                              | 224  | <b>HCRL2508</b>  |
|  | 541                           | 791                          |                               |                                     |                                          |                                    |                                    |                              |                                |                              | 244  | <b>HCRL25010</b> |
|  | 591                           | 891                          |                               |                                     |                                          |                                    |                                    |                              |                                |                              | 265  | <b>HCRL25012</b> |
|  | 421                           | 571                          | 315                           | 240                                 | Tr 210 x 6                               | 71                                 | 49                                 | 160                          | 15                             | 55                           | 230  | <b>HCRL3006</b>  |
|  | 496                           | 696                          |                               |                                     |                                          |                                    |                                    |                              |                                |                              | 269  | <b>HCRL3008</b>  |
|  | 546                           | 796                          |                               |                                     |                                          |                                    |                                    |                              |                                |                              | 294  | <b>HCRL30010</b> |
|  | 596                           | 896                          |                               |                                     |                                          |                                    |                                    |                              |                                |                              | 319  | <b>HCRL30012</b> |