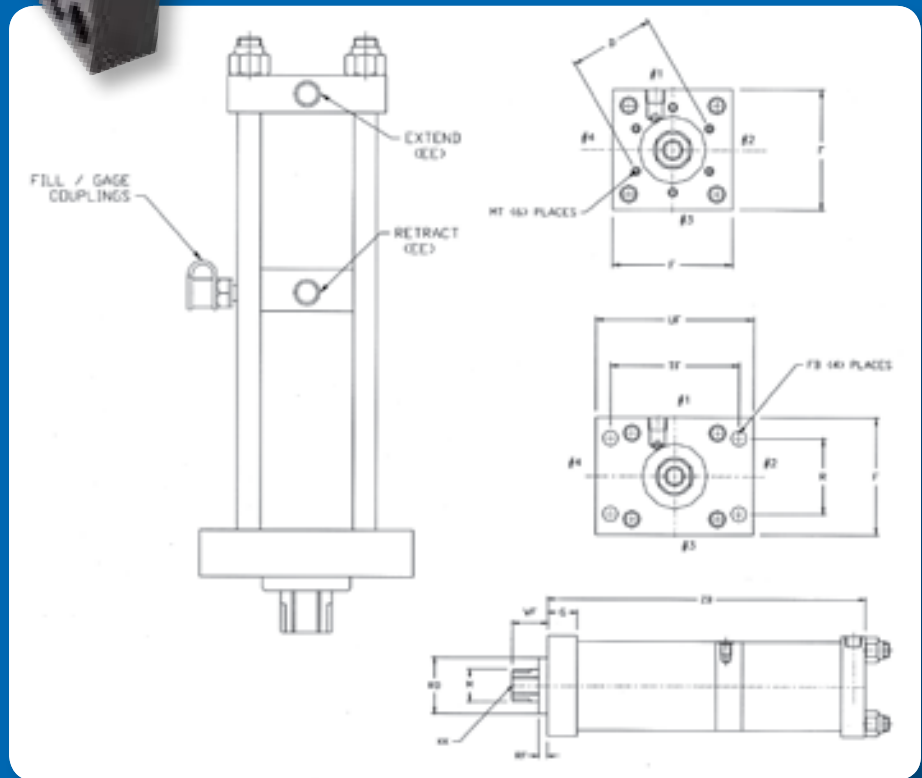




### Standard Features:

- Power-stroke only operation
- High cycle rates
- Linear output force
- Operates in any position
- Hydra-Pneumatic Power Stroke Only Operation
- High Cycle Rates – up to 300 CPM
- Available in 1-20 Ton Size Range
- Total Air/Oil Separation
- Long Service Life
- Compact
- Simple Single Air Valve Control
- Force/Distance Sensor and Monitoring Options
- 3 Year warranty



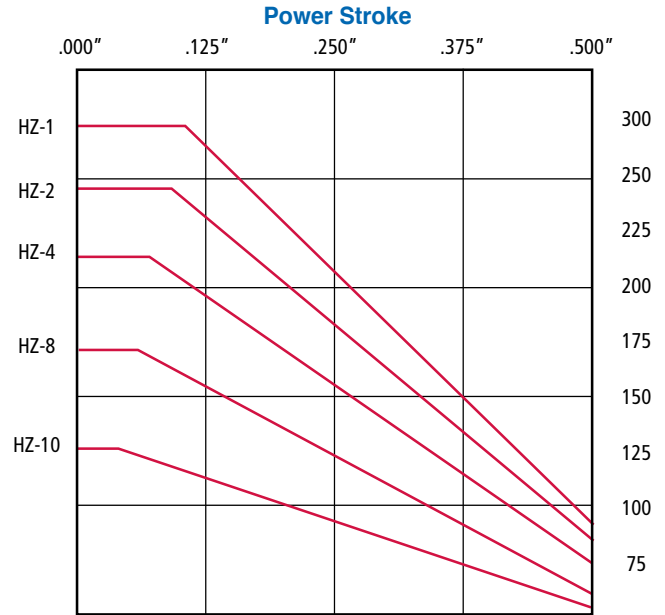
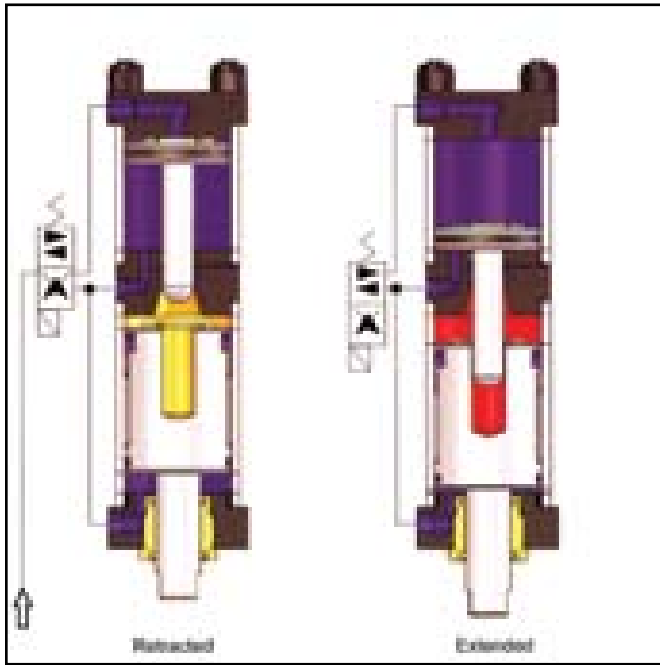
Piercing, riveting, notching, clamping, marking, coining, and assembly applications where short-stroke, high speed, high force operation is desirable.

Operation: the full stroke of the cylinder is power-stroke. Internal oil reservoir provides sufficient capacity for 3 million cycles (at 75% of full stroke) before refilling is required. Complete air-oil separation ensures long seal life and operation in any position. Units include oil refilling and high pressure gage couplings and installation/service manual.

Controls: (1) 2 or 3-position, 4-way pneumatic directional control valve. An air regulator may also be added to control the output force.

Installation: The HZ series drive unit can be installed in any orientation with (4) SHCS. Side loading of the rod is not recommended, use of a flexible coupling between drive unit and fixed tooling is recommended.

Accessories: non-rotating rod, pressure switches, integral linear transducer and load cell sensors.



Cycle speed for HZ Series HyperCyl drive unit at 75% effective force @ 80 PSI air pressure.  
 Note: Actual CPM rates may vary depending upon air valve flow and tooling weights.



| Model No.   | Output force Per PSI (lbs) | Retract force Per PSI (lbs) | Model Code: HZ-Series, 1, 2, 4, 8, 10 – Maximum Output (tons), .25, .50 –Stroke** UH or FH Mounting Style. |         |      |       |      |       |       |          |       |         |       |       |       |      |        |
|-------------|----------------------------|-----------------------------|--|---------|------|-------|------|-------|-------|----------|-------|---------|-------|-------|-------|------|--------|
|             |                            |                             | D  | EE      | F    | FB    | G    | UF    | TF    | KK       | M     | MT      | R     | RD    | RF    | WF   | ZB     |
| HZ-1-.25**  | 22.34                      | 2.35                        | 2.19   | 1/8"NPT | 2.50 | 0.440 | 1.25 | 4.25  | 3.438 | 3/4-16   | 1.00  | 1/4-20  | 1.630 | 1.749 | 0.375 | 1.50 | 12.121 |
| HZ-1-.50**  | 22.34                      | 2.35                        | 2.19   | 1/8"NPT | 2.50 | 0.440 | 1.25 | 4.25  | 3.438 | 3/4-16   | 1.00  | 1/4-20  | 1.630 | 1.749 | 0.375 | 1.50 | 13.899 |
| HZ-2-.25**  | 54.54                      | 4.11                        | 2.25   | 1/4"NPT | 3.00 | 0.440 | 1.25 | 5.125 | 4.125 | 3/4-16   | 1.00  | 5/16-18 | 2.050 | 1.749 | 0.375 | 1.50 | 13.119 |
| HZ-2-.50**  | 54.54                      | 4.11                        | 2.25   | 1/4"NPT | 3.00 | 0.440 | 1.25 | 5.125 | 4.125 | 3/4-16   | 1.00  | 5/16-18 | 2.050 | 1.749 | 0.375 | 1.50 | 17.987 |
| HZ-4-.25**  | 87.62                      | 6.81                        | 3.00   | 3/8"NPT | 4.25 | 0.562 | 1.25 | 5.75  | 4.688 | 3/4-16   | 1.375 | 5/16-18 | 2.750 | 2.374 | 0.375 | 1.50 | 13.768 |
| HZ-4-.50**  | 87.62                      | 6.81                        | 3.00   | 3/8"NPT | 4.25 | 0.562 | 1.25 | 5.75  | 4.688 | 3/4-16   | 1.375 | 5/16-18 | 2.750 | 2.374 | 0.375 | 1.50 | 18.045 |
| HZ-8-.25**  | 158.86                     | 10.81                       | 4  | 3/8"NPT | 5.00 | 0.656 | 1.25 | 6.25  | 5.314 | 3/4-16   | 1.375 | 1/2-13  | 3.320 | 2.374 | 0.375 | 1.50 | 15.557 |
| HZ-8-.50**  | 158.86                     | 10.81                       | 4  | 3/8"NPT | 5.00 | 0.656 | 1.25 | 6.25  | 5.314 | 3/4-16   | 1.375 | 1/2-13  | 3.320 | 2.374 | 0.375 | 1.50 | 21.271 |
| HZ-10-.25** | 259.63                     | 16.49                       | 4.25   | 1/2"NPT | 6.50 | 0.812 | 1.25 | 8.00  | 6.625 | 1 1/2-12 | 2.00  | 1/2-13  | 4.100 | 2.999 | 0.375 | 1.75 | 17.088 |
| HZ-10-.50** | 259.63                     | 16.49                       | 4.25   | 1/2"NPT | 6.50 | 0.812 | 1.25 | 8.00  | 6.625 | 1 1/2-12 | 2.00  | 1/2-13  | 4.100 | 2.999 | 0.375 | 1.75 | 23.450 |
| HZ-15-.25** | 259.63                     | 16.49                       | 4.25   | 1/2"NPT | 6.50 | 0.812 | 1.25 | 8.00  | 6.625 | 1 1/2-12 | 2.00  | 1/2-13  | 4.100 | 2.999 | 0.375 | 1.75 | 18.438 |
| HZ-15-.50** | 259.63                     | 16.49                       | 4.25   | 1/2"NPT | 6.50 | 0.812 | 1.25 | 8.00  | 6.625 | 1 1/2-12 | 2.00  | 1/2-13  | 4.100 | 2.999 | 0.375 | 1.75 | 26.233 |
| HZ-20-.25** | 259.63                     | 16.49                       | 4.25   | 1/2"NPT | 6.50 | 0.812 | 1.25 | 8.00  | 6.625 | 1 1/2-12 | 2.00  | 1/2-13  | 4.100 | 2.999 | 0.375 | 1.75 | 20.359 |
| HZ-20-.50** | 259.63                     | 16.49                       | 4.25   | 1/2"NPT | 6.50 | 0.812 | 1.25 | 8.00  | 6.625 | 1 1/2-12 | 2.00  | 1/2-13  | 4.100 | 2.999 | 0.375 | 1.75 | 29.987 |

\*Typical cylinder break-away pressure is 35 PSI.  
 (1) Complete cylinder cycle @ 60 PSI.  
 Multiply value by cycles per minute for total SCFM usage.  
 \*\* UH of FH mounting configuration is standard.

**NOTE: The above specifications are theoretical forces. Frictional loads and lack of proper air supply may affect cylinder performance. Please multiply application force requirements by 1.25-1.50 to ensure adequate force is available.**