



HTLA-2

High pressure (7 to 35MPa)
Upper flange type

Specification

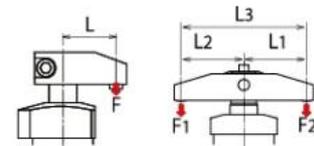
| Model | | HTLA0401-2 | HTLA0601-2 | HTLA0801-2 | HTLA1001-2 | HTLA1601-2 | HTLA2001-2 | HTLA2501-2 | HTLA4001-2 | |
|---------------------------------------|---------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|----|
| Cylinder capacity (at 35MPa) | (KN) | 3.52 | 5.09 | 6.93 | 9.82 | 14.6 | 21.47 | 28.7 | 43.3 | |
| Clamping force | When the oil pressure is 35MPa | (KN) | 2.5 | 3.8 | 5 | 7.1 | 11.5 | 17.9 | 24 | 36 |
| | Clamping arm length (L _H) | (mm) | 35 | 40 | 40 | 45 | 50 | 60 | 70 | 85 |
| Main rod diameter | (mm) | 14 | 16 | 18 | 22 | 25 | 30 | 35.5 | 45 | |
| Bore of cylinder | (mm) | 18 | 21 | 24 | 29 | 34 | 41 | 48 | 60 | |
| Cylinder area (clamping) | (cm ²) | 1 | 1.4 | 1.9 | 2.75 | 4 | 6 | 8 | 12 | |
| Full stroke | (mm) | 14 | 15 | 18 | 19.5 | 24 | 26.5 | 32 | 35.5 | |
| Rotation stroke | (mm) | 6 | 7 | 8 | 9.5 | 11 | 13.5 | 16 | 19.5 | |
| Clamping stroke | (mm) | 8 | 8 | 10 | 10 | 13 | 13 | 16 | 16 | |
| Rotation angle accuracy | | 90°±3° | | | | | | | | |
| Clamping position repetition accuracy | | ±0.5° | | | | | | | | |
| Maximum operating pressure | (Mpa) | 35.0 | | | | | | | | |
| Minimum operating pressure | (Mpa) | 7.0 | | | | | | | | |
| Withstand pressure | (Mpa) | 40.0 | | | | | | | | |
| Operating temperature | °C | 0~70 | | | | | | | | |

Precautions

※1. In the clamping force calculation formula, F, F1 and F2: clamping force (KN) P: supplied oil pressure (MPa), L, L1 and L2: distance from the center of the piston to the clamping point (mm). L3:(mm).

※2. It indicates the minimum pressure at which the clamp operates under no-load conditions.

1. For details on the capacity and weight of the clamp, please refer to the external dimension drawing.



Model Representation

HTLA ① - ② ③ (Example: HTLA0801-2CR)

① Dimension (refer to specification sheet) ② Rotation direction during clamping

③ Optional

| | | | |
|-------------|--|-------------------------------|--|
| HTLA | 0401 0601 0801 1001 1601 2001 | <p>CR: right CL: left</p> | No model: Standard P: Double pressure arm type Q: Extended stroke type Y: Special swing clamp type (Y30:30°/Y45:45°/Y60:60°) |
|-------------|--|-------------------------------|--|

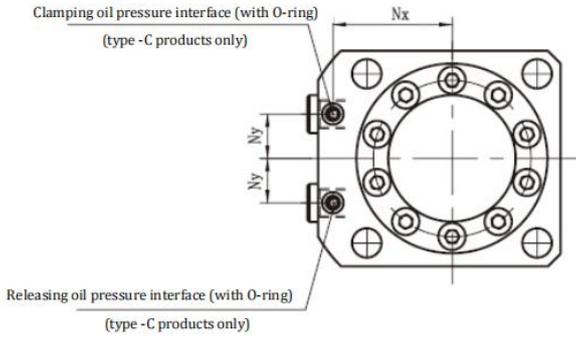
Overall dimension and installation part processing dimension table

| Model | HTLA0401-2 | HTLA0601-2 | HTLA0801-2 | HTLA1001-2 | HTLA1601-2 | HTLA2001-2 |
|--------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Full stroke | 14 | 15 | 18 | 19.5 | 24 | 26.5 |
| Rotation stroke (90°) | 6 | 7 | 8 | 9.5 | 11 | 13.5 |
| Clamping stroke | 8 | 8 | 10 | 10 | 13 | 13 |
| HA | 97.55 | 105.1 | 119.1 | 134.55 | 159.55 | 180.1 |
| HB | 44 | 48 | 50.5 | 59.5 | 62 | 76.5 |
| HC | 45 | 52 | 54 | 65 | 68 | 83 |
| HD | 28.5 | 33 | 36 | 43 | 46 | 56 |
| HE | 62.5 | 66 | 74 | 83 | 99.5 | 111.5 |
| HF | 38.5 | 41 | 49 | 55 | 69.5 | 74.5 |
| Fu | 59 | 64 | 70 | 79.5 | 90 | 105.5 |
| G | 24 | 25 | 25 | 28 | 30 | 37 |
| H | 28.5 | 30 | 31.5 | 36.5 | 38 | 46.5 |
| J | 15.5 | 18 | 19 | 23 | 24 | 30 |
| K | 40.1 | 45.1 | 48.1 | 57.1 | 60.1 | 73.6 |
| L | 57 | 60 | 63 | 73 | 76 | 93 |
| M | 10 | 10 | 10 | 10 | 10 | 13 |
| Nx | 13.5 | 15 | 16 | 18 | 20 | 22 |
| Ny | 16 | 17.5 | 18.5 | 22 | 22 | 28 |
| P | 3 | 3 | 3 | 3 | 3 | 5 |
| Q | 9 | 11 | 11 | 14 | 14 | 17.5 |
| R | 5.5 | 6.8 | 6.8 | 9 | 9 | 11 |
| S | 14.5 | 14 | 14 | 14.5 | 16 | 19.5 |
| T | 16 | 17 | 20 | 21.5 | 26 | 28.5 |
| U | 14f7 | 16f7 | 18f7 | 22f7 | 25f7 | 30f7 |
| V | 19 | 22 | 25 | 30 | 34 | 40 |
| W | 25.5 | 28 | 32.5 | 36.5 | 43 | 148.5 |
| X | 9.5 | 11 | 12.5 | 15 | 17 | 20 |
| Y | 12.5 | 14 | 16 | 19.5 | 22 | 26 |
| Z | 27 | 28.5 | 30 | 33 | 35 | 44 |
| AA | 3 ^{+0.014} ₀ | 4 ^{+0.018} ₀ | 4 ^{+0.018} ₀ | 4 ^{+0.018} ₀ | 4 ^{+0.018} ₀ | 6 ^{+0.018} ₀ |
| AB | 4 | 4 | 5 | 7 | 8.5 | 9 |
| AC | 3.5 | 4.5 | 4.5 | 4.5 | 5 | 6.5 |
| CA | M5X0.8 | M6 | M6 | M8 | M8 | M10 |
| JA | 3 | 3 | 3 | 3 | 3 | 3.5 |
| JB | 14 | 14 | 14 | 14 | 14 | 19 |
| 倒角 | 3 | (Φ60) | (Φ63) | (Φ73) | (Φ76) | (Φ93) |
| Oil supply port for clamping | Type -B/-RP RP1/8 | RP1/8 | RP1/8 | RP1/8 | RP1/8 | RP1/4 |
| O-seal ring | Type -C 4.8×1.9 | 4.8×1.9 | 4.8×1.9 | 4.8×1.9 | 4.8×1.9 | 6.8×1.9 |
| Platen orientation pin | (attached) Φ 3×6 (B type) | Φ 4×8 (B type) | Φ 4×8 (B type) | Φ 4×8 (B type) | Φ 4×8 (B type) | Φ 6×12 (B type) |
| Clamp capacity cm ³ | During clamping | 1.4 | 2.2 | 3.6 | 5.5 | 10.0 |
| | During release | 3.6 | 5.2 | 8.1 | 12.9 | 35.0 |
| Weight ※ 6 | kg | 0.4 | 0.6 | 0.8 | 1.3 | 2.9 |

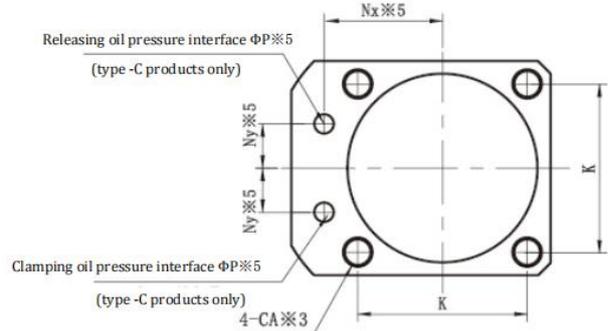
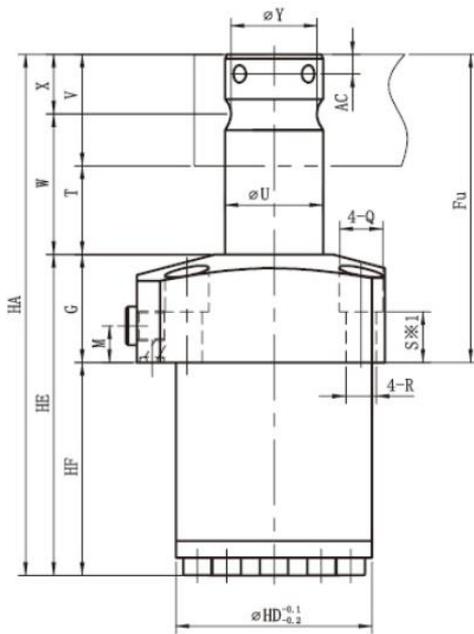
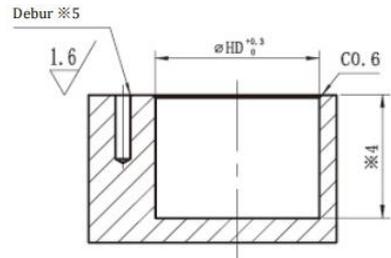
Precautions ※ 6. Weight refers to the weight of the clamp body excluding the weight of the rotating platen.

Overall dimension

C: plate connection type (with RP thread plug)
 ※ This figure shows the release state of HTLA-2CL.

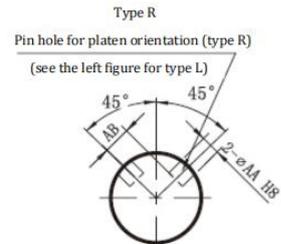
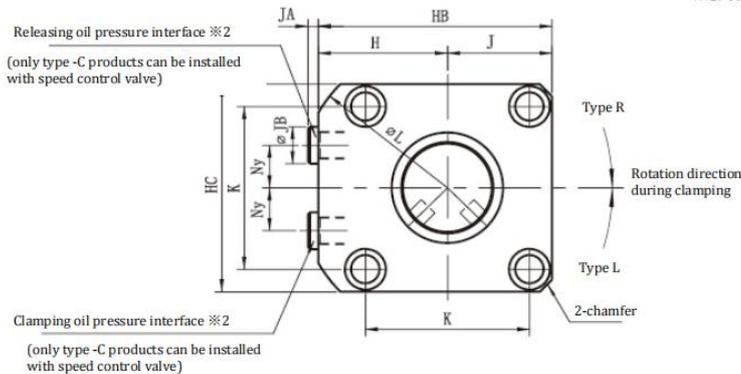


Installation hole processing drawing



Precautions

- ※3. Please refer to the S dimension and determine the CA thread depth of the installation bolt according to the installation height.
- ※4. Please refer to the HF dimension and determine the depth of the main body installation hole ΦHD according to the installation height.
- ※5. This process indicates -C: plate connection type.



Precautions

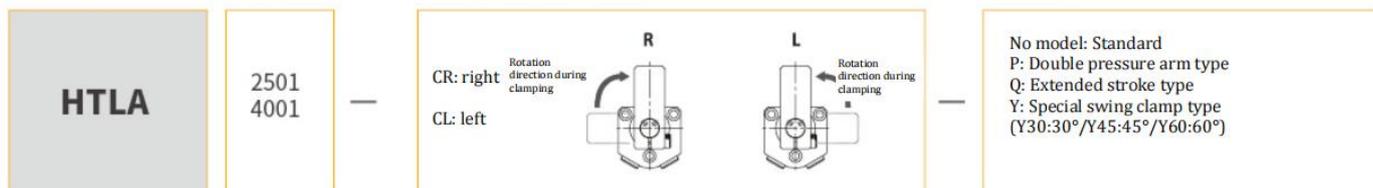
- ※1. This product does not include the installation thread. The user is required to provide the equipment according to the installation height and the S dimension.
- ※2. This product does not include a speed control valve.

Model Representation

HTLA ① - ② ③ (Example: HTLA2501-2CR, HTLA4001-2CL)

① Dimension (refer to specification sheet) ② Rotation direction during clamping

③ Optional



Overall dimension and installation part processing dimension table

| Model | | HTLA2501-2 | HTLA4001-2 |
|------------------------------|-----------------|-----------------|-----------------|
| Full stroke | | 32 | 35.5 |
| Rotation stroke (90 °) | | 16 | 19.5 |
| Clamping stroke | | 16 | 16 |
| HA | | 211.1 | 241.1 |
| HB | | 92 | 114 |
| HC | | 80 | 102 |
| HD | | 63 | 90 |
| HE | | 131 | 148.5 |
| HF | | 91 | 98.5 |
| Fu | | 120 | 142.5 |
| G | | 40 | 50 |
| H | | 52 | 63 |
| J | | 40 | 51 |
| K | | 60.1 | 80.1 |
| L | | 118 | 146 |
| M | | 15 | 17 |
| Nx | | 45 | 56 |
| Ny | | 16 | 21 |
| P | | 5 | 5 |
| Q | | 17.5 | 20 |
| R | | 11 | 14 |
| S | | 22.5 | 27.5 |
| T | | 34 | 37.5 |
| U | | 35.5 f7 | 45 f7 |
| V | | 46 | 55 |
| W | | 57 | 65 |
| X | | 23 | 27.5 |
| Y | | 31 | 39.5 |
| AA | | 6 | 8 |
| AB | | 11.75 | 14.5 |
| AC | | 6.5 | 9 |
| CA | | M10 | M12 |
| JA | | 3.5 | 3.5 |
| JB | | 19 | 19 |
| Chamfer | | C6 | C6 |
| Oil supply port for clamping | Type -B/-RP | RP1/4 | RP1/4 |
| O-seal ring | Type -C | 6.8×1.9 | 6.8×1.9 |
| Platen orientation pin | (attached) | Φ 6×12 (B type) | Φ 8×16 (B type) |
| Clamp capacity cm3 | During clamping | 26.2 | 43.9 |
| | During release | 57.9 | 100.4 |
| Weight※6 | kg | 4.3 | 9.2 |

Precautions ※ 6. Weight refers to the weight of the clamp body excluding the weight of the rotating platen

