

Clean Room Hand HLCC Series

Thin Design & Long Stroke via Linear Guide

Key Features

■ Thin body with long stroke

Thin body, high torque, and double-piston type

■ Linear guide improved durability

Long guide pitch of the linear guide improves rigidity

■ A wide variety of models available for numerous areas of application

6 sizes and 11 strokes available

■ Through hole on the front for easy mounting



HLCC-16AS

Clean packaging is not available

How To Order

Standard ----- **HLCC-16AS**

Option ----- **HLCC - 16AS - ET3LS2** ----- HLCC-16AS with 2 of ET3 non-contact reed switches

| Size | | Sensor, Quantity | | | |
|--------|--|------------------|--------------------|--------|----------------|
| Symbol | | Symbol | Name | Symbol | Name |
| 16AS | | ET3 | Non-Contact 3-Lead | E24L | Contact 2-Lead |
| 20AS | | ET3L | Non-Contact 3-Lead | E25 | Contact 2-Lead |
| 25AS | | ET2 | Non-Contact 2-Lead | E25L | Contact 2-Lead |
| 30AS | | ET2L | Non-Contact 2-Lead | S1 | 1 Sensor |
| | | E24 | Contact 2-Lead | S2 | 2 Sensors |

*Available only for 30AS

For sensor detail ▶277P

Clean Room & Special Type

Specification

| Model | HLCC-16AS | HLCC-20AS | HLCC-25AS | HLCC-30AS |
|---|---|-----------|-----------|-----------|
| Working Pressure | Pneumatic: 0.2 to 0.7MPa | | | |
| Lubrication | Not Required or Turbine Oil Class 1 (ISOVG32) | | | |
| Ambient Temperature (°C) | 5 to 60 | | | |
| Total Jaw Stroke (mm) | 40 | 50 | 60 | 70 |
| Cylinder Diameter (mm) | dia.16×2 | dia.20×2 | dia.25×2 | dia.30×2 |
| Internal Volume [Reciprocation] (cm ³ /time) | 16.1 | 31.4 | 58.9 | 99.0 |
| Repeatability (mm) | ±0.01 | | | |
| Weight (kg) | 0.71 | 1.03 | 1.62 | 2.74 |
| Option | Open & Close Confirmation Sensor | | | |

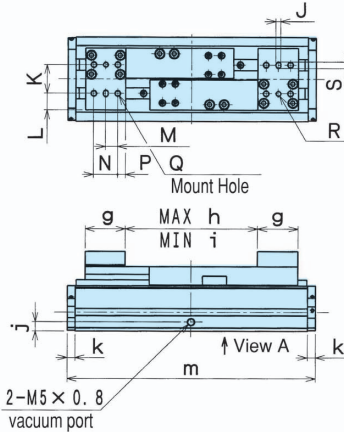
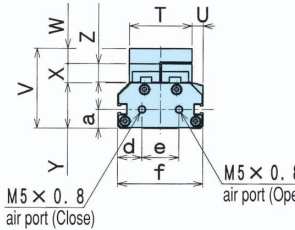
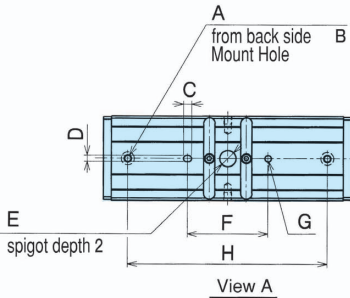
HLCC-16AS/20AS/25AS/30AS

For CAD data, please go to **▶518P**

Layout Drawing

HLCC-16AS to 30AS (Optimal Grip Force 80N to 550N)

HLCC-□□AS Standard



Body Material Aluminum
 Guide Material SUS 440C Equivalent
 Bolt Material SCM (Unichrome Plating)
 Grease Fluorine Grease

Please contact us if you use the product under special environment

| Model | A | B | C | D | E | F | G | H | J | K | L | M |
|-----------|--------------|-------------------------------|---|--|---------------------------------------|----|--|-----|---|----|------|------|
| HLCC-16AS | 2-M5 through | dia.8 counterbore depth 4.4 | 5 | 4 ^{+0.03} ₀ depth 4 | dia.10 ^{+0.036} ₀ | 50 | dia.4 ^{+0.03} ₀ depth 4 | 86 | 3 ^{+0.02} ₀ depth 4 | 18 | 10.5 | 7.5 |
| HLCC-20AS | 2-M6 through | dia.9.5 counterbore depth 5.4 | 5 | 4 ^{+0.03} ₀ depth 4 | dia.12 ^{+0.043} ₀ | 60 | dia.4 ^{+0.03} ₀ depth 4 | 102 | 3 ^{+0.02} ₀ depth 4 | 19 | 12.5 | 10 |
| HLCC-25AS | 2-M8 through | dia.11 counterbore depth 6.5 | 6 | 5 ^{+0.03} ₀ depth 5 | dia.15 ^{+0.043} ₀ | 80 | dia.5 ^{+0.03} ₀ depth 5 | 122 | 4 ^{+0.03} ₀ depth 4 | 24 | 14 | 14.5 |
| HLCC-30AS | 2-M8 through | dia.11 counterbore depth 6.5 | 7 | 6 ^{+0.036} ₀ depth 6 | dia.18 ^{+0.052} ₀ | 90 | dia.6 ^{+0.036} ₀ depth 6 | 144 | 4 ^{+0.03} ₀ depth 4 | 28 | 18 | 15 |

| Model | N | P | Q | R | S | T | U | V | W | X | Y | Z | a | b | e | f |
|-----------|----|---|-----------------|---|---|----|------|------|------|------|------|------|----|------|----|----|
| HLCC-16AS | 15 | 5 | 2×4-M4 depth 9 | dia.3 ^{+0.02} ₀ depth 4 | 4 | 39 | 7 | 50 | 9.5 | 12 | 28.5 | 11.5 | 12 | 15 | 23 | 53 |
| HLCC-20AS | 20 | 5 | 2×4-M4 depth 9 | dia.3 ^{+0.02} ₀ depth 4 | 4 | 44 | 9 | 54 | 9.5 | 12 | 32.5 | 11.5 | 14 | 17 | 28 | 62 |
| HLCC-25AS | 29 | 5 | 2×4-M5 depth 11 | dia.4 ^{+0.03} ₀ depth 4 | 5 | 52 | 10.5 | 63.5 | 11.5 | 14.5 | 37.5 | 14 | 15 | 19 | 35 | 73 |
| HLCC-30AS | 30 | 8 | 2×4-M6 depth 13 | dia.4 ^{+0.03} ₀ depth 4 | 5 | 64 | 11 | 73.5 | 14.5 | 16.5 | 42.5 | 16 | 17 | 21.5 | 43 | 86 |

| Model | g | h | i | j | k | m |
|-----------|----|----|---|-----|---|-----|
| HLCC-16AS | 25 | 42 | 2 | 5.5 | 5 | 116 |
| HLCC-20AS | 30 | 52 | 2 | 6.5 | 5 | 132 |
| HLCC-25AS | 39 | 62 | 2 | 7 | 5 | 152 |
| HLCC-30AS | 47 | 72 | 2 | 6 | 5 | 174 |