QCTHSA
RETRACTABLE HEAVY DUTY QUARTER-TURN CLAMPS

Supplied With
3 of socket-head cap screws (stainless steel) M3×0.5-10L

QCTHSA0834-20
(Plastic Knob)

QCTHSA0834-20S
(Metal Knob)

Key Point
No interference by retractable shank

Part Number | Body | Shank | Pin | Knob | Spring A | Spring B
---|---|---|---|---|---|---
QCTHSA0834-20 | SUS303 stainless steel | SK3 steel Electroless nickel plated Quenched and tempered | SUS420J2 stainless steel Quenched and tempered | Polyamide (glass-fiber reinforced) Black | Equivalent to SWOSC-V steel | SUS304WPB stainless steel
QCTHSA0834-20S | SC513 stainless steel (Equivalent to SUS304) | | | | |

Part Number | Proper Plate Thickness | Clamping Force (N) | Weight (g) | Proper Locking Receptacle
---|---|---|---|---
QCTHSA0834-20 | 6~20 | 400 | 130 | QCTHS0834-B
QCTHSA0834-20S | | | 160 |

QCTHS-B
LOCKING RECEPTACLE

Supplied With
3 of socket-head cap screws (stainless steel) M3×0.5-10L

QCTHSA34-03-SUS
Body
SUS303 stainless steel

Part Number | Weight (g)
---|---
QCTHSA34-03-SUS | 14
# Technical Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Heatresistant Temperature (℃)</th>
<th>Shear Strength (N)</th>
<th>Tensile Strength (N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>QCTHSA0834-20</td>
<td>130</td>
<td>3000</td>
<td>1600</td>
</tr>
<tr>
<td>QCTHSA0834-20S</td>
<td>180</td>
<td></td>
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</tbody>
</table>

The shank retracts at the unclamping position to enable operations without interference with the base plate.

When the cam groove moves along the ball inside the receptacle, the spring A gets compressed to press down the plate.

# How To Use

1. Ensure that the knob is positioned at the "OFF" mark.
2. Insert the clamp pressing the knob.
3. Turn the knob to the "ON" mark for clamping. The knob clicks when clamped. Turning the knob to the "OFF" position, the shank returns automatically to the unclamping position by the spring.

# Application Example

**Die Changing**

![Image showing the process of die changing with a quarter-turn clamp and locking receptacle.]
**Application Example**

**Guide Changing**

**How To Install**

**For 9mm-thick plate**

- Equally Spaced
- P.C.D.28
- \[\phi 3.4\]
- C1
- 9±0.2
- \[\phi 6.5\]
- Plate

**For 9mm to 20mm-thick plate**

- Equally Spaced
- P.C.D.28
- \[\phi 3.5\]
- C1
- 5.5
- \[\phi 6.5\]
- Plate

**With Spacer**

**For 6mm-thick plate**

- Equally Spaced
- P.C.D.28
- \[\phi 3.4\]
- C1
- 6±0.2
- \[\phi 6.5\]
- Plate

**For 6mm to 9mm-thick plate**

- Equally Spaced
- P.C.D.28
- \[\phi 3.5\]
- C1
- 6±0.2
- \[\phi 6.5\]
- Plate
## Accuracy

### Machining Accuracy

Spacing Tolerance ±0.04

Spacing tolerance on both the subplate and the base plate should be ±0.04.

### Repeatability

Repeatability ±0.1

For higher accurate locating, use locating pins.

## Reference

"How To Install Receptacle" of QCTHS-B LOCKING RECEPTACLE.