

MISUMI C-VALUE Oldham Couplings

Clamping / Set Screw

Similar products page P.1115

Features: The price is lowered with the product quality and performance kept equivalent to that of the existing products. CPOC or CPO can be replaced with this type of product.



Clamping

GCOC (Standard Bore)

GCOCCLK (Keywayed Bore d1)

GCOCRK (Keywayed Bore d2)

GCOCWK (Keywayed Bore d1, d2)

Recommended Tolerance of Shaft Diameter: h7
 Operating Temperature: -20°C ~ 80°C
 Each of the lateral, angular, and axial misalignments values shown above is the allowable value which is applicable only when lateral, angular or axial misalignment is generated individually. Therefore, when multiple misalignments are occurring simultaneously, the allowable maximum value of each will be reduced to 1/2.
 For the selection criteria, see P.1093.
 Tolerances for d1 and d2 are values before slit machining.

Set Screw

GCO (Standard Bore)

GCOLK (Keywayed Bore d1)

GCORK (Keywayed Bore d2)

GCOWK (Keywayed Bore d1, d2)

| Standard Bore | Keywayed Bore | | | Material | | S | Included Screw | | |
|---------------|---------------|---------------|---------------------|----------------|------------|---------------|---------------------------|------------|---------------------|
| | d1 (One Side) | d2 (One Side) | d1, d2 (Both Sides) | Hub | Spacer | Hub | Type | M Material | S Surface Treatment |
| GCOC | GCOCCLK | GCOCRK | GCOCWK | Aluminum | Polyacetal | Clear Anodize | Hex Socket Head Cap Screw | SCM435 | Black Oxide |
| GCO | GCOLK | GCORK | GCOWK | Aluminum Alloy | Polyacetal | | Set Screw | SCM435 | Black Oxide |

| Part Number | Type | D | d1, d2 Selection (d1≤d2) | | | | | | | ds | L | ℓ | t | F | A | Clamp Screw, Set Screw | |
|---|------|---|---|------|------|------|----|------|------|----|------|-----|-----|-----|----|------------------------|------------------------|
| | | | Keywayed Bore Type is selectable for diameter 6 or larger | | | | | | | | | | | | | M | Tightening Torque(N·m) |
| Clamping GCOC GCOCCLK GCOCRK GCOCWK | 16 | | 5 | 6 | | | | | 7 | 29 | 12.5 | 4 | 3 | 5 | | M2.5 | 1 |
| | 20 | | 6 | 6.35 | 8 | | | | 9 | 33 | 14 | 5 | 3 | 6.5 | | | |
| | 25 | | 6.35 | 8 | 10 | | | | 11 | 39 | 16.5 | 6 | 3.8 | 9 | | M3 | 1.5 |
| | 32 | | 8 | 10 | 11 | 12 | 14 | | 14.5 | 45 | 19 | 7 | 4.5 | 11 | | M4 | 2.5 |
| Set Screw GCO GCOLK GCORL GCOWK | 16 | 3 | 4 | 5 | 6 | 6.35 | | | 7 | 18 | 7 | 4 | 3.5 | | | M3 | 0.7 |
| | 20 | | 4 | 5 | 6 | 6.35 | 8 | | 9 | 23 | 9 | 5 | 4.5 | | | M4 | 1.7 |
| | 25 | | 5 | 6 | 6.35 | 8 | 10 | | 11 | 28 | 11 | 6 | 5.5 | | | M5 | 4 |
| | 32 | | 8 | 10 | 12 | 14 | | 14.5 | 33 | 13 | 7 | 6.5 | | | M6 | 7 | |

Keyway Dimension

| Shaft Bore Dia. d1, d2 | b | | t | | Key Nominal Dim. b×t |
|------------------------|----------------|-----------|----------------|-----------|----------------------|
| | Reference Dia. | Tolerance | Reference Dia. | Tolerance | |
| 6, 6.35 | 2 | ±0.0125 | 1.0 | | 2x2 |
| 8, 10 | 3 | | 1.4 | +0.1 | 3x3 |
| 11, 12 | 4 | | 1.8 | 0 | 4x4 |
| 14 | 5 | ±0.0150 | 2.3 | | 5x5 |

Characteristic Values

| Part Number | Allowable Torque (N·m) | Angular Misalignment (°) | Lateral Misalignment (mm) | Max. Rotational Speed (rpm) | Moment of Inertia (kg·m ²) | Mass (g) |
|---|------------------------|--------------------------|---------------------------|-----------------------------|--|----------|
| Clamping GCOC GCOCCLK GCOCRK GCOCWK | 16 | 0.7 | 1 | 10000 | 4.4x10 ⁻⁷ | 11 |
| | 20 | 1.2 | 1.5 | | 1.2x10 ⁻⁶ | 20 |
| | 25 | 2 | 2 | | 3.3x10 ⁻⁶ | 37 |
| | 32 | 4.5 | 2.5 | | 1.4x10 ⁻⁶ | 70 |
| Set Screw GCO GCOLK GCORL GCOWK | 16 | 0.7 | 1 | 10000 | 2.2x10 ⁻⁷ | 6 |
| | 20 | 1.2 | 1.5 | | 6.9x10 ⁻⁷ | 13 |
| | 25 | 2 | 2 | | 2.1x10 ⁻⁶ | 23 |
| | 32 | 4.5 | 2.5 | | 6.5x10 ⁻⁶ | 45 |

Ordering Example: Part Number **GCOC20** - Shaft Bore Dia. d1 **6** - Shaft Bore Dia. d2 **6**

| D | GCOC | GCOCCLK GCOCRK | GCOCWK | GCO | GCOLK GCORL | GCOWK |
|----|------|-------------------|--------|-----|----------------|-------|
| 16 | | - | - | | - | - |
| 20 | | | | | | |
| 25 | | | | | | |
| 32 | | | | | | |

Spacer

GCOS

Material: Polyacetal

| Part Number | D1 | T | ds | W | G | Unit Price |
|-------------|----|------|----|------|------|------------|
| GCOS | 16 | 15.6 | 12 | 7 | 8 | 4.5 |
| | 20 | 19.6 | 15 | 9 | 10 | 5.5 |
| | 25 | 24.6 | 18 | 11 | 12 | 6.7 |
| | 32 | 31.6 | 21 | 14.5 | 15.3 | 7.5 |

Ordering Example: Part Number **GCOS20**