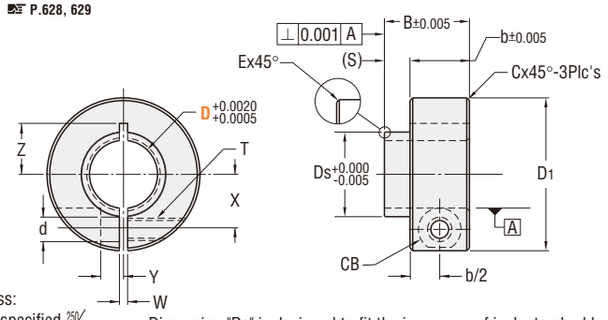
# Shaft Collars –Clamp, Bearing Fixing–

The Clamp Shaft Collar shown below can be clamped around the shaft and be used as the shoulder for the inner ring of a rotary bearing. All of the collar flanges are designed to properly fit the inner race of the standard inch bearing. Available in 1045 carbon steel and 304 stainless steel.

## Bearing Fixing

| Material | Surface Treatment | Included Hardware & Material | Type |
|---|---|---|---|
| 1045 Steel | Black Oxide | Steel S.H.C.S. (1 Piece) | U-SCSBN |
| | Electroless Nickel Plating | Stainless Steel S.H.C.S. (1 Piece) | U-PSCSBN |
| 304 Stainless Steel | - | | U-SSCSBN |

Material Characteristics P.628, 629




**General Tolerance**
Unless otherwise specified use the table below.

| From | To | Tolerance |
|---|---|---|
| 0.000 | 5.000 | ±0.01 |
| 5.001 | 16.000 | ±0.02 |
| 16.001 | 60.000 | ±0.05 |

Thread or hole location tolerance: ±0.005" non-cumulative.

Surface Roughness: Unless otherwise specified 250

Dimension "Ds" is designed to fit the inner race of inch standard bearings.

| Type | Part No. D Callout | D Nominal | D Actual | $ Unit Price (Qty. 1~9) U-SCSBN | U-PSCSBN | U-SSCSBN |
|---|---|---|---|---|---|---|
| U-SCSBN U-PSCSBN U-SSCSBN | 0.13 | 1/8 | 0.1250 | 5.20 | 6.20 | 10.00 |
| | 0.19 | 3/16 | 0.1875 | 6.00 | 6.80 | 11.20 |
| | 0.25 | 1/4 | 0.2500 | 6.40 | 7.20 | 12.00 |
| | 0.38 | 3/8 | 0.3750 | 7.80 | 9.40 | 13.40 |
| | 0.50 | 1/2 | 0.5000 | 8.00 | 9.60 | 13.40 |
| | 0.63 | 5/8 | 0.6250 | 8.80 | 10.40 | 14.60 |
| | 0.75 | 3/4 | 0.7500 | 11.60 | 13.60 | 20.00 |
| | 1.00 | 1" | 1.0000 | 13.60 | 15.60 | 20.40 |
| | 1.25 | 1-1/4 | 1.2500 | 18.00 | 21.00 | 28.40 |
| | 1.50 | 1-1/2 | 1.5000 | 24.00 | 26.00 | 34.00 |

**Order Example**

| Part No. | |
|---|---|
| Type | D |
| U-SCSBN | 0.75 |

**Technical Information**

| D | D1 | B | b | (S) | Ds | E | T (Thread) Size | T (Thread) Major Dia. | d | CB | W | X | Y | Z | C | Compatible Bearings |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.13 | 0.500 | 0.344 | 0.250 | 0.094 | 0.208 | 0.005 | #4-40 | 0.112 | 0.118 | 0.188 | 0.040 | 0.154 | 0.069 | 0.141 | 0.020 | R2A |
| 0.19 | 0.625 | 0.417 | 0.313 | 0.104 | 0.281 | 0.005 | #4-40 | 0.112 | 0.125 | 0.219 | 0.040 | 0.202 | 0.089 | 0.172 | 0.020 | R3 |
| 0.25 | 0.688 | 0.438 | 0.313 | 0.125 | 0.375 | 0.005 | #4-40 | 0.112 | 0.125 | 0.219 | 0.040 | 0.234 | 0.100 | 0.219 | 0.020 | R4 |
| 0.38 | 0.875 | 0.531 | 0.375 | 0.156 | 0.500 | 0.005 | #6-32 | 0.138 | 0.154 | 0.281 | 0.060 | 0.313 | 0.141 | 0.290 | 0.020 | R6 |
| 0.50 | 1.125 | 0.626 | 0.438 | 0.188 | 0.625 | 0.005 | #8-32 | 0.164 | 0.180 | 0.312 | 0.060 | 0.406 | 0.141 | 0.375 | 0.020 | R8 |
| 0.63 | 1.313 | 0.659 | 0.438 | 0.221 | 0.875 | 0.005 | #10-32 | 0.190 | 0.206 | 0.375 | 0.060 | 0.484 | 0.203 | 0.453 | 0.020 | R10 |
| 0.75 | 1.500 | 0.750 | 0.500 | 0.250 | 1.000 | 0.010 | #10-32 | 0.190 | 0.206 | 0.375 | 0.060 | 0.563 | 0.203 | 0.525 | 0.020 | R12 |
| 1.00 | 1.750 | 0.781 | 0.500 | 0.281 | 1.313 | 0.010 | 1/4-28 | 0.250 | 0.265 | 0.438 | 0.080 | 0.678 | 0.281 | 0.672 | 0.040 | R16 |
| 1.25 | 2.063 | 0.796 | 0.500 | 0.296 | 1.562 | 0.010 | 1/4-28 | 0.250 | 0.265 | 0.438 | 0.080 | 0.828 | 0.313 | 0.750 | 0.040 | R20 |
| 1.50 | 2.375 | 0.907 | 0.563 | 0.344 | 1.875 | 0.010 | 1/4-28 | 0.250 | 0.265 | 0.438 | 0.080 | 0.968 | 0.344 | 0.875 | 0.040 | R24 |

**Days to Ship** 1 Day

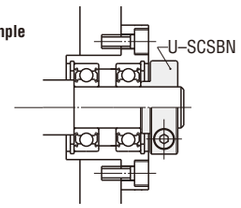
**Price**

**Quantity Discount Rate**

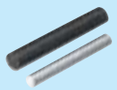
| Quantity | 1~9 | 10~29 | 30~49 | 50~ |
|---|---|---|---|---|
| Rate | — | 2% | 3% | 5% |

For larger quantity orders "Days to Ship" may differ from published catalog term. P.29

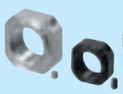
**Example**




**Related Components**


Rotary Shafts P.205

Bearings with Housings P.251

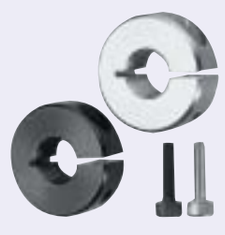

Bearing Locknuts P.275



# Shaft Collars –Clamp, Threaded I.D.–

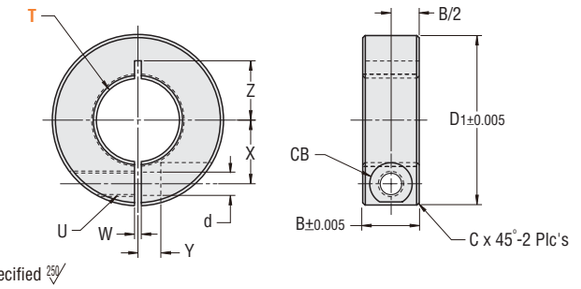
These Shaft Collars can be clamped around a threaded portion of a shaft. Available in carbon steel and stainless steel. Choose from fine thread and coarse thread styles.

## Threaded I.D.



| Material | Surface Treatment | Included Hardware & Material | Type Fine Thread | Type Coarse Thread |
|---|---|---|---|---|
| 1045 Steel | Black Oxide | Steel S.H.C.S. (1 Piece) | U-SCSN | U-SCSNN |
| | Electroless Nickel Plating | Stainless Steel S.H.C.S. (1 Piece) | U-PSCSN | U-PSCSNN |
| 304 Stainless Steel | - | | U-SSCSN | U-SSCSNN |

Material Characteristics P.628, 629




**General Tolerance**
Unless otherwise specified use the table below.

| From | To | Tolerance |
|---|---|---|
| 0.000 | 5.000 | ±0.01 |
| 5.001 | 16.000 | ±0.02 |
| 16.001 | 60.000 | ±0.05 |

Thread or hole location tolerance: ±0.005" non-cumulative.

Surface Roughness: Unless otherwise specified 250

## Fine Thread I.D.

| Type | Part No. T (Thread) Callout | T (Thread) Nominal | T (Thread) Size | $ Unit Price (Qty. 1~9) U-SCSN | U-PSCSN | U-SSCSN |
|---|---|---|---|---|---|---|
| U-SCSN U-PSCSN U-SSCSN | 5 | 1/8 | #5-44 | 3.80 | 4.70 | 6.70 |
| | 10 | 3/16 | #10-32 | 4.20 | 5.30 | 7.30 |
| | 0.25 | 1/4 | 1/4-28 | 4.80 | 5.70 | 8.70 |
| | 0.38 | 3/8 | 3/8-24 | 4.80 | 6.00 | 9.20 |
| | 0.50 | 1/2 | 1/2-20 | 5.20 | 6.00 | 9.20 |
| | 0.63 | 5/8 | 5/8-18 | 5.80 | 7.50 | 10.70 |
| | 0.75 | 3/4 | 3/4-16 | 7.70 | 9.00 | 14.20 |
| | 1.00 | 1" | 1-12 | 8.30 | 9.70 | 15.20 |

## Coarse Thread I.D.

| Type | Part No. T (Thread) Callout | T (Thread) Nominal | T (Thread) Size | $ Unit Price (Qty. 1~9) U-SCSNN | U-PSCSNN | U-SSCSNN |
|---|---|---|---|---|---|---|
| U-SCSNN U-PSCSNN U-SSCSNN | 5 | 1/8 | #5-40 | 3.80 | 4.70 | 6.70 |
| | 10 | 3/16 | #10-24 | 3.80 | 5.30 | 7.30 |
| | 0.25 | 1/4 | 1/4-20 | 4.80 | 5.70 | 8.70 |
| | 0.38 | 3/8 | 3/8-16 | 5.20 | 6.00 | 9.20 |
| | 0.50 | 1/2 | 1/2-13 | 5.20 | 6.00 | 9.20 |
| | 0.63 | 5/8 | 5/8-11 | 5.80 | 7.50 | 10.70 |
| | 0.75 | 3/4 | 3/4-10 | 7.70 | 9.00 | 14.20 |
| | 1.00 | 1" | 1-8 | 8.30 | 9.70 | 15.20 |

**Technical Information for Both: Fine & Coarse I.D.**

| T | D1 | B | U (Thread) Size | U (Thread) Major Dia. | Z | W | X | Y | C | d | CB |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 0.500 | 0.250 | #4-40 | 0.112 | 0.141 | 0.040 | 0.154 | 0.069 | 0.010 | 0.118 | 0.188 |
| 10 | 0.625 | 0.313 | #4-40 | 0.112 | 0.172 | 0.040 | 0.202 | 0.089 | 0.010 | 0.125 | 0.219 |
| 0.25 | 0.688 | 0.313 | #4-40 | 0.112 | 0.219 | 0.040 | 0.234 | 0.100 | 0.010 | 0.125 | 0.219 |
| 0.38 | 0.875 | 0.375 | #6-32 | 0.138 | 0.290 | 0.060 | 0.313 | 0.141 | 0.010 | 0.154 | 0.281 |
| 0.50 | 1.125 | 0.438 | #8-32 | 0.164 | 0.375 | 0.060 | 0.406 | 0.141 | 0.010 | 0.180 | 0.312 |
| 0.63 | 1.313 | 0.438 | #10-32 | 0.190 | 0.438 | 0.060 | 0.484 | 0.203 | 0.010 | 0.206 | 0.375 |
| 0.75 | 1.500 | 0.500 | #10-32 | 0.190 | 0.525 | 0.060 | 0.563 | 0.203 | 0.010 | 0.206 | 0.375 |
| 1.00 | 1.750 | 0.500 | 1/4-28 | 0.250 | 0.650 | 0.080 | 0.678 | 0.281 | 0.020 | 0.265 | 0.438 |

**Order Example**

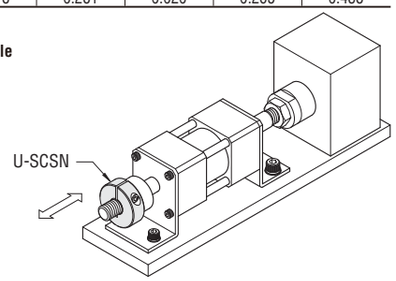
| Part No. | |
|---|---|
| Type | T |
| U-SCSN | 10 |

**Days to Ship** 1 Day

**Price**

**Quantity Discount Rate**

| Quantity | 1~9 | 10~29 | 30~49 | 50~ |
|---|---|---|---|---|
| Rate | — | 2% | 3% | 5% |

For larger quantity orders "Days to Ship" may differ from published catalog term. P.29

**Example**