Wescon Industries Inc.
601 Century Plaza Dr, Houston, TX 77073
www.wesconusa.com

# DATASHEET

PART NUMBER

# WES596-6-VEP

## Wescon 596 Microstop - M6x1 - 19.05 mm Cutter Capacity - Vacuum Skirt External Phenolic Foot

HIGH SPEED HEAVY DUTY

WEBSITE

https://www.wesconusa.com/products/WES596-6-VEP




The Wescon 596 Series Microstop is the industry standard microstop countersink cage, the best choice for most work surfaces with straight-in access. Dual ball bearings rated to 10,000 rpm and a heavy duty thrust bearing carry the cutter load, an integrated dust seal keeps chips out of the mechanism, and a solid stop holds depth. Depth adjusts in 0.0005 in (0.013 mm) increments over 0.300 in (7.60 mm) of shaft travel on a 1/4 in shaft. Cutter threads are available in 1/4-28, M6x1 and M8x1. Choose from twelve skirt styles including straight, slotted, 2-leg, 3-leg, flanged, bell and internal or external thread, nylon, steel or phenolic feet, and round, tri-flat (TF), quick change (QC) or long threaded shank (TSL) shafts.

## SPECIFICATIONS

| | |
|---|---|
| **Measurement Type** | Metric |
| **Bearing Rating** | 10,000 rpm |
| **Bearing Type** | Dual Ball Bearings |
| **Heavy Duty Thrust Bearing** | Yes |
| **Incremental Adjustment** | 0.013 mm |
| **Shaft Travel** | 7.60 mm |
| **Dust Seal** | Integrated Dust Seal |
| **Cutter Thread** | M6x1 |
| **Shaft** | Round |
| **Shaft Diameter** | 6.35 mm |
| **Cutter Capacity** | 19.05 mm |
| **Skirt** | Vacuum External Thread |
| **Skirt Description** | 31.75 mm OD 22.01 mm ID 19.05 mm Cutter Capacity |


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| | |
|---|---|
| **Foot** | Phenolic |
| **Solid Stop** | Yes |
| **Material** | Steel |
| **Vacuum Adapter** | Yes |
| **Country of Origin** | USA |

## ADDITIONAL IMAGES AND DRAWINGS




Image 1


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Image 2


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# WES596 Series Microstop




**Part Number**
WES596-X-XX-XX

- Shaft Option
- Foot Style
- Skirt Option*
- Cutter Thread

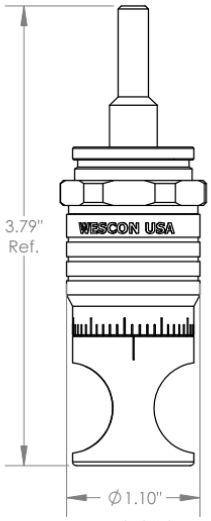
Incremental Adjustment: 0.0005 in
Shaft Travel: 0.300 in
Material: Carbon Steel Body with Hardened Tool Steel Shaft

Bearing Rating: 10,000 rpm
Bearing Type: Dual Ball-Bearings
Dust Seal: Integrated Dust Seal
Heavy Duty Thrust Bearing: Yes
Solid Stop: Yes

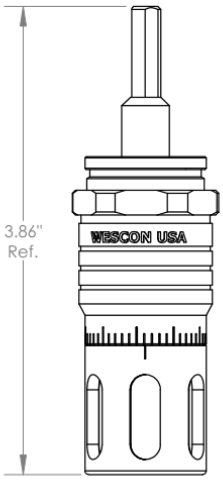
| Code | Cutter Thread |
|---|---|
| (Blank) | 1/4-28 |
| 6 | M6x1 |
| 8 | M8x1 |

| Code | Foot Style |
|---|---|
| N | Nylon |
| S | Steel |
| P | Phenolic |

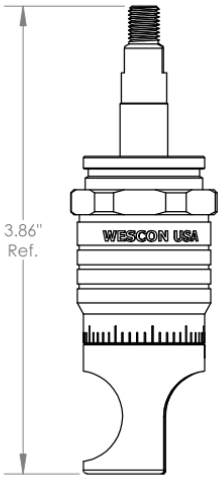
| Code | Shaft Option |
|---|---|
| (Blank) | 1/4" Standard Round |
| QC | Quick Change |
| TF | Tri Flat |
| TSL | 1/4-28 Threaded Shank Long |



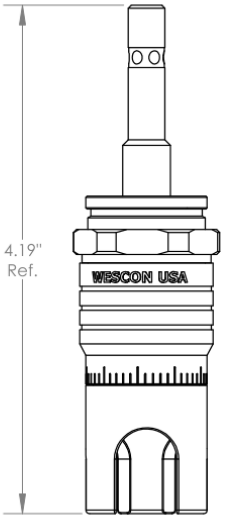

**WES596-S**
Microstop with
Ø1/4" Standard Shaft




**WES596-SL-TF**
Microstop with
Tri-Flat Shaft




**WES596-SCA-TSL**
Microstop with
1/4-28 Threaded Shank Long Shaft




**WES596-S3L-QC**
Microstop with
Quick Change shaft

*For Skirt options see next page and website.

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Part Number **WES596**

Wescon 596 Microstop

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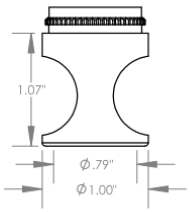
Revision 12 | All dimensions are in Inches | Information in this drawing is provided for reference only

Image 3

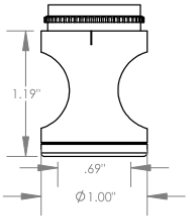


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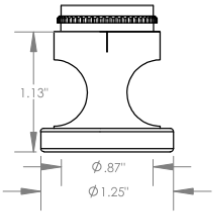
## Skirt Option



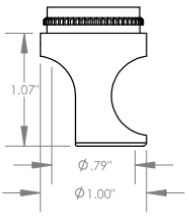

**S**
Straight
Cutter Ø3/4"(Ø19mm)



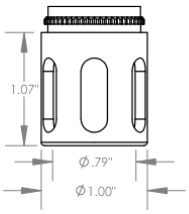

**I**
Internal Thread*
Cutter Ø5/8"(Ø15mm)



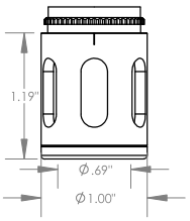

**E**
External Thread*
Cutter Ø3/4"(Ø19mm)



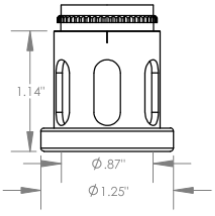

**SCA**
Straight Cutaway
Cutter Ø3/4"(Ø19mm)



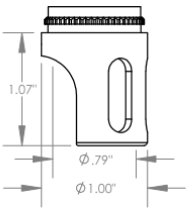

**SL**
Slotted
Cutter Ø3/4"(Ø19mm)



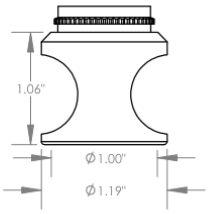

**SI**
Slotted Internal Thread*
Cutter Ø5/8"(Ø15mm)



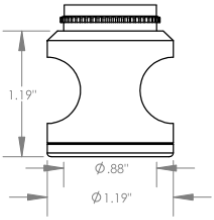

**SE**
Slotted External Thread*
Cutter Ø3/4"(Ø19mm)



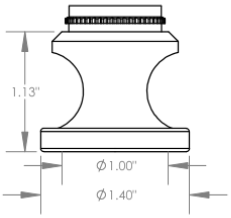

**SSCA**
Slotted Straight Cutaway
Cutter Ø3/4"(Ø19mm)



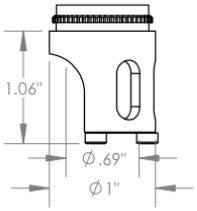

**B**
Bell
Cutter Ø7/8" (Ø22mm)



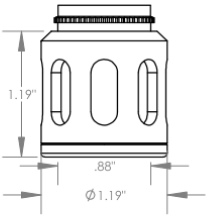

**BI**
Bell Internal Thread*
Cutter Ø3/4"(Ø19mm)



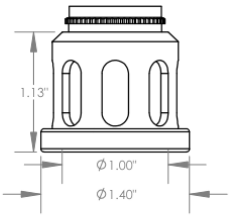

**BE**
Bell External Thread*
Cutter Ø7/8"(Ø22mm)



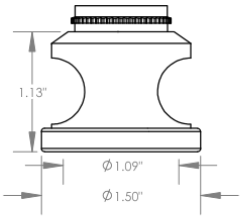

**SSCN**
Slotted Internal Thread Cutaway
with Nylon Foot
Cutter Ø5/8"(Ø15mm)



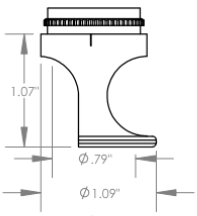

**SBI**
Slotted Bell Internal Thread*
Cutter Ø3/4"(Ø19mm)




**SBE**
Slotted Bell External Thread*
Cutter Ø7/8"(Ø22mm)




**BWE**
Bell Wide External Thread*
Cutter Ø1"(Ø25mm)




**FCA**
Flanged Cutaway
Cutter Ø3/4"(Ø19mm)

*Select foot style from table
Continued In Next Page.

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Part Number **WES596**

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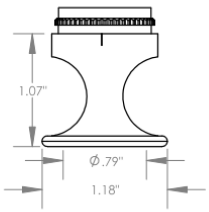
Wescon 596 Microstop

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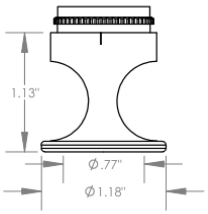
Image 4


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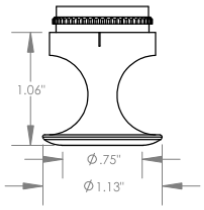
## Skirt Option (Continuation)



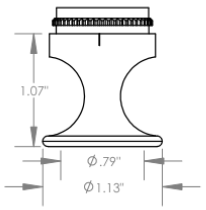

**F**
Flanged
Cutter Ø3/4"(Ø19mm)



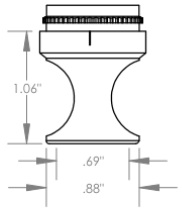

**FH**
Flanged High
Cutter Ø3/4" (Ø19mm)



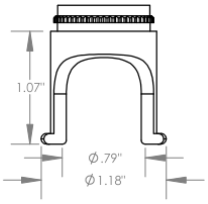

**SF**
Spherical Flanged
Cutter Ø3/4" (Ø19mm)



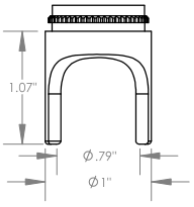

**F-1125**
Flanged 1.125 in OD
Cutter Ø3/4"(Ø19mm)



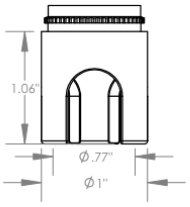

**S-875**
Straight 0.875 in OD
Cutter Ø5/8"(Ø15mm)



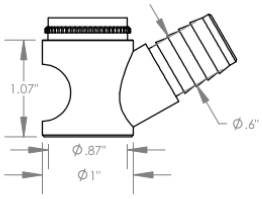

**F2L**
Flanged 2-Leg
Cutter Ø3/4"(Ø19mm)



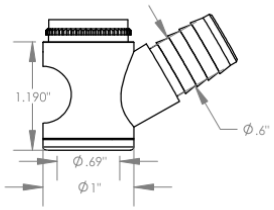

**S2L**
2-Leg
Cutter Ø3/4"(Ø19mm)



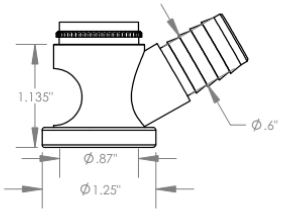

**S3L**
3-Leg
Cutter Ø3/4"(Ø19mm)



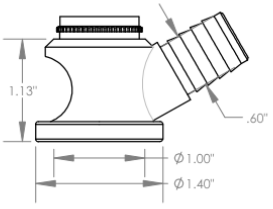

**WVS**
Vaccuum Straight
Cutter Ø3/4"(Ø19mm)



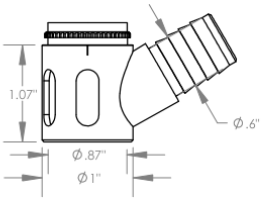

**WVI**
Vaccuum Internal Thread*
Cutter Ø5/8"(Ø15mm)



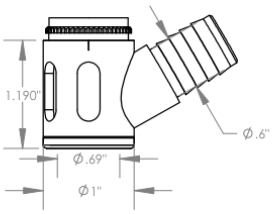

**WVE**
Vaccuum External Thread*
Cutter Ø3/4"(Ø19mm)



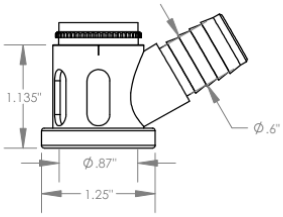

**WBVE**
Bell Vaccuum External Thread*
Cutter Ø3/4"(Ø19mm)



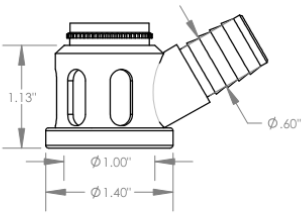

**SVS**
Slotted Vaccuum Straight
Cutter Ø3/4"(Ø19mm)




**SVI**
Slotted Vaccuum Internal Thread*
Cutter Ø5/8"(Ø15mm)




**SVE**
Slotted Vaccuum External Thread*
Cutter Ø3/4"(Ø19mm)




**SBVE**
Slotted Bell Vaccuum External Thread*
Cutter Ø3/4"(Ø19mm)

*Select foot style from table

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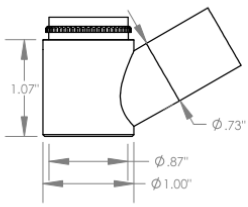
Wescon 596 Microstop

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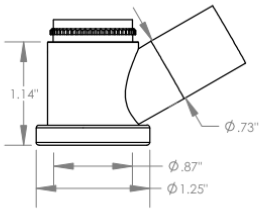
Image 5


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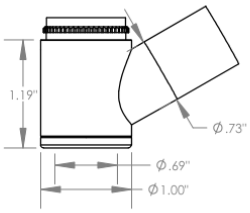
## Skirt Option



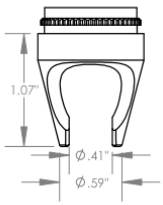

**VS**
Vaccuum Straight
Cutter Ø3/4"(Ø19mm)



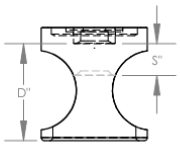

**VE**
Vaccuum External Thread*
Cutter Ø3/4"(Ø19mm)




**VI**
Vaccuum Internal Thread*
Cutter Ø5/8"(Ø15mm)

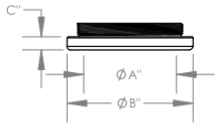



**C**
Close Quarters
Cutter Ø3/8"(Ø10mm)

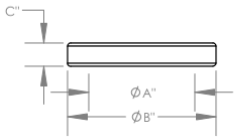



Skirt Inner Dimensions
For all Skirt Styles

| Distance From Shaft Face to Skirt Face | | Stroke Length |
|---|---|---|
| D (Minimum) | D (Maximum) | S |
| 0.750 (19.05mm) | 1.02 (25.90mm) | 0.30 (7.62mm) |




| Foot Style For | ØA (ID) | ØB (OD) | C | Nylon P/N | Steel P/N | Phenolic P/N |
|---|---|---|---|---|---|---|
| Internal Threaded Skirt | 0.69 | 1.00 | 0.13 | 59620-N | 59620-S | 59620-P |
| Bell Internal Threaded Skirt | 0.88 | 1.19 | 0.13 | 59640-N | 59640-S | 59640-P |




| Foot Style For | ØA (ID) | ØB (OD) | C | Nylon P/N | Steel P/N | Phenolic P/N |
|---|---|---|---|---|---|---|
| External Threaded Skirt | 0.87 | 1.25 | 0.22 | 59631-N | 59631-S | 59631-P |
| Bell External Threaded Skirt | 1.00 | 1.40 | 0.22 | 59641-N | 59641-S | 59641-P |
| Bell Wide External Threaded Skirt | 1.09 | 1.50 | 0.22 | 59651-N | 59651-S | 59651-P |

*Select foot style from table

WESCON

Part Number **WES596**

Wescon 596 Microstop

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Revision 13 | All dimensions are in Inches | Information in this drawing is provided for reference only

Image 6



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