



Laser Micrometers

In and off-line Laser Measurement
Systems

laserlinc.com/products/laser-micrometers/



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Triple-Axis Measurement Parameters

Model	Triton312	Triton330	Triton331	Triton360
Measurement Range	0.102mm – 11.4mm [0.004" - 0.45"]	0.102mm – 29.2mm [0.004" - 1.15"]	0.254mm – 27.2mm [0.010" - 1.07"]	0.406mm – 52.6mm [0.016" - 2.07"]
Measurement per second (HZ)	1800 [600 per axis] LE= 450 [150 per axis]	900 [300 per axis] LE=225 [75 per axis]	4800 [1600 per axis] 12000 [4000 per axis] (optional)	4800 [1600 per axis] 12,000 [4000 per axis] (optional)
Gate Size	12mm [0.47"]	30mm [1.18"]	30mm [1.18"]	60mm [2.36"]
Approximate Dimensions [H x W x D]	247.7mm x 254mm x 31.8mm / [9.75" x 10" x 1.25"]	247.7mm x 254mm x 31.8mm / [9.75" x 10" x 1.25"]	335.3mm x 393.7mm x 50.8mm / [13.2" x 15.5" x 2"]	541mm x 520.7mm x 50.8mm / [21.3" x 20.5" x 2"]
Approximate Weight	4.17kg [9.2lbs]	4.17kg [9.2lbs]	10kg [22lbs]	18.6kg [41lbs]
Power Requirement	PoE(Power over Ethernet) Alternate: 12VDC @125mA	PoE(Power over ethernet) Alternate: 12vDC @125mA	100-240 VAC 50/60 Hz 50 W MAX	100-240 VAC 50/60 Hz 50 W MAX



Dual-Axis Measurement Parameters

Model	Axion203	Axion222	Axion230	Axion260	Axion2120
Measurement Range	0.04mm – 2mm [0.00158" - 0.079"]	0.076mm – 21.6mm [0.003" - 0.85"]	0.178mm – 29.2mm [0.007" - 1.15"]	0.406mm – 56mm [0.016" - 2.2"]	0.7mm – 114mm [0.028" - 4.5"]
Measurement per second (HZ)	2400 [1200 per axis]	800 [400 per axis] LE= 300 [100 per axis]	3200 [1600 per axis] 8000 [4000 per axis] (optional)	3200 [1600 per axis] 8000 [4000 per axis] (optional)	3200 [1600 per axis] 8000 [4000 per axis] (optional)
Gate Size	2.9mm [0.114"]	23.1mm [0.91"]	30mm [1.18"]	60mm [2.36"]	120mm [4.72"]
Approximate Dimensions [H x W x D]	177.8mm x 168.3mm x 47.3mm / [7" x 6.625" x 1.863"]	149.9mm x 259mm x 31.8mm / [5.9" x 10.2" x 1.25"]	275.6mm x 320mm x 38.1mm / [10.85" x 12.6" x 1.5"]	368.3mm x 406.4mm x 44.5mm / [14.5" x 16" x 1.75"]	558.8mm x 539.7mm x 50.8mm / [22" x 21.13" x 2"]
Approximate Weight	2.7kg [6lbs]	2.27kg [5lbs]	14.5kg [10lbs]	9.53kg [21lbs]	18.37kg [40.5lbs]
Power Requirement	100-240 VAC 50/60 Hz 50 W max.	PoE(Power over Ethernet) Alternate: 12VDC @125mA	100-240 VAC 50/60 Hz 50 W MAX	100-240 VAC 50/60 Hz 50 W MAX	100-240 VAC 50/60 Hz 50 W MAX



Single-Axis Measurement Parameters

Model	Axion103	TLAser122	TLAser122s	Axion130
Measurement Range	0.015mm – 2.2mm [0.0006" - 0.086"]	0.038mm – 22mm [0.0015" - 0.866"]	0.076mm – 22mm [0.003" - 0.866"]	0.178mm – 29.2mm [0.007" - 1.15"]
Measurement per second (HZ)	1200	400 or LE = 100	400 or LE = 100	1600 4000 (optional)
Gate Size	2.9mm [.114"]	23.1mm [.91"]	23.1mm [.91"]	30mm [1.18"]
Approximate Dimensions [H x W x D]	110mm x 209mm x 47mm / [4.345" x 8.24" x 1.862"]	106.7mm x 259mm x 32.3mm / [4.2" x 10.2" x 1.27"]	Transmitter: 107mm x 135mm x 32mm / [4.2" x 5.3" x 1.25"] Receiver: 92mm x 76.2mm x 31.8mm / [3.62" x 3" x 1.25"]	Transmitter: 146mm x 222.3mm x 38.6mm / [5.75" x 8.75" x 1.52"] Receiver: 146mm x 101.6mm x 38.6mm / [5.75" x 4" x 1.52"]
Approximate Weight	2.04kg [4.5lbs]	1.45kg [3.2lbs]	1.45kg [3.2lbs]	3.17 kg [7lbs]
Power Requirement	100-240 VAC 50/60 Hz 50 W MAX	Provided by host PC or external NetLinc	Provided by host PC or external NetLinc	100-240 VAC 50/60 Hz 50 W MAX



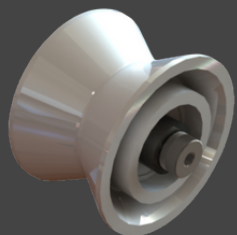
Single-Axis Measurement Parameters

Model	Axion160	Axion1120	Axion1240
Measurement Range	0.254mm – 58mm [0.010" - 2.3"]	0.711mm – 116mm [0.028" - 4.55"]	0.914mm – 231mm [0.036" - 9.1"]
Measurement per second (HZ)	1600 4000 (optional)	1600 4000 (optional)	1600 (high-speed option not available)
Gate Size	60mm [2.36"]	120mm [4.72"]	240mm [9.45"]
Approximate Dimensions [H x W x D]	Transmitter: 191mm x 216mm x 51mm / [7.5" x 8.5" x 2"] Receiver: 191mm x 102mm x 51mm / [7.5" x 4" x 2"]	Transmitter: 266.7mm x 330.2mm x 40.4mm / [10.5" x 13" x 1.59"] Receiver: 266.7mm x 171.5mm x 40.4mm / [10.5" x 6.75" x 1.59"]	Transmitter: 577.9mm x 317.5mm x 74.9mm / [22.75" x 12.5" x 2.95"] Receiver: 317.5mm x 317.5mm x 74.9mm / [12.5" x 12.5" x 2.95"]
Approximate Weight	4.08kg [9lbs]	9.5kg [21lbs]	40.4kg [89lbs]
Power Requirement	100-240 VAC 50/60 Hz 50 W MAX	100-240 VAC 50/60 Hz 50 W MAX	100-240 VAC 50/60 Hz 50 W MAX



Roller Accessories

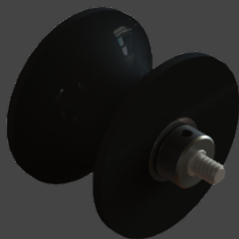
01



V-Roller: Mounted roller that guides round product through the manufacturing process, providing accurate alignment of the product.

- **Size ranges:** between 4.8mm [0.188"] to 63.5mm [2.50"]
- **Materials:** Aluminum, Black and White Delrin, Ceramic, Plastic, and Stainless Steel
- **Part Numbers:** 0230-1104-01, 0260-1100-01, 1000-1137-01, 2000-1315-03, 1000-1134-01, 0022-2205-01, 0030-1103-01, 0030-1104-01, 1000-1129-01, 0412-1106-01, 1000-1132-01, 0230-1105-01, 1000-1135-01, 1000-1131-01, 0412-1105-01, 0430-1102-01, 1000-1133-01, 1000-1136-01

02

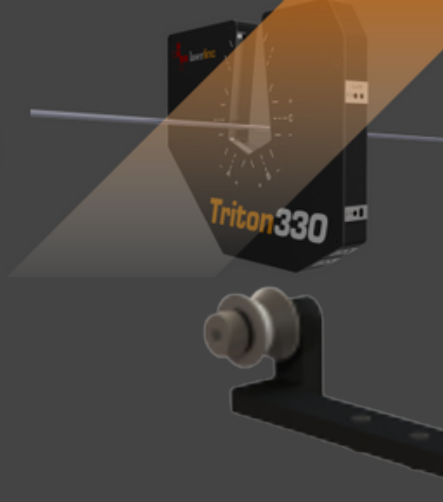


U-Roller: Mounted roller that guides round material in the manufacturing process keeping it center preventing side to side movement.

- Comes in size 25.4mm [1.00"]
- 122,222, 330, 312, 230, 331
- **Part Number:** 0330-1101-01

Roller Guide Accessories

01



Throat Mount Roller Guide: Supports tube and wire products as they move through the throat of the micrometer, ensuring centered feeding of the product.

- **Product Applications:** Axion103, Axion203, Axion222, and TLAser122

[CLICK HERE TO VIEW ALL AVAILABLE PART NUMBERS](#)

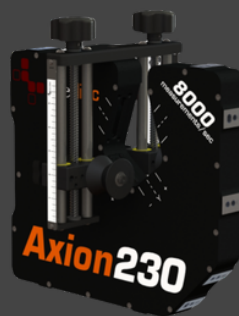


Manual Adjust Mount Roller Guide: Supports tubes and wire as they move through the throat of the micrometer, allowing the operator to manually adjust the roller position for different alignments or sizes of material.

- **Product Application:** TLAser122, Axion222, Axion260, Axion2120
Triton331, Triton360, Triton312, Triton330

[CLICK HERE TO VIEW ALL AVAILABLE PART NUMBERS](#)

03



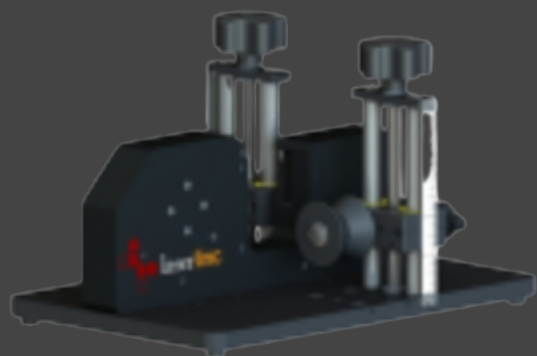
Body Mount Roller Guide: Supports tubes and wires as they go through the throat of the micrometer and is attached directly to the machine body facing in a left or right orientation.

- **Product Applications:** 312 - 2120 and Triton

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Roller Guide Accessories



01

Plate Mount Roller Guide: Supports tubes and wires as they go through the throat of the micrometer and is secured to the base of the micrometer.

- **Product Applications:** 203 - 331

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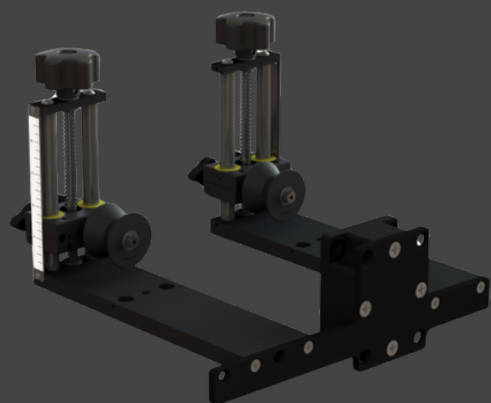


02

Horizontal-Vertical Adjust Roller Guide: Supports tubes and wires, allowing an operator to manually adjust the guide horizontally and vertically for precise alignment, with dual mounting capabilities.

- **Product Applications:** 122, 222, 230, 312, 330, 331..Also available with dual mount

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03

Metron-R Roller Guide: Roller Guide made specifically for the Metron-R, allowing for precision adjustments.

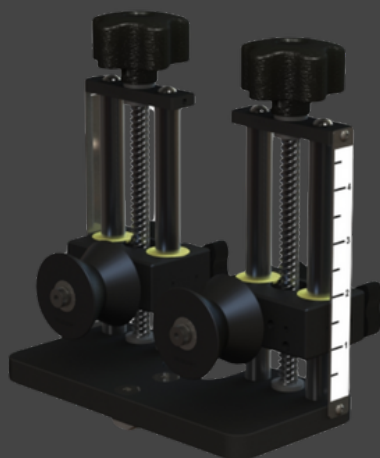
- **Product Applications:** Metron-R
- 222, 330, 312, 230

[CLICK HERE TO VIEW ALL AVAILABLE PART NUMBERS](#)



Roller Guide Accessories

01



Rail Mount Roller Guide: A Guide that supports tube and wire that mounts onto a rail track system for easy adjustments.

- **Product Applications:** Axion130, Axion160, Axion1120, TLAser122s

[CLICK HERE TO VIEW ALL AVAILABLE PART NUMBERS](#)

2-Way Rail Mount Roller Guide: A Guide that supports tube and wire, which supports adjustment in two directions.

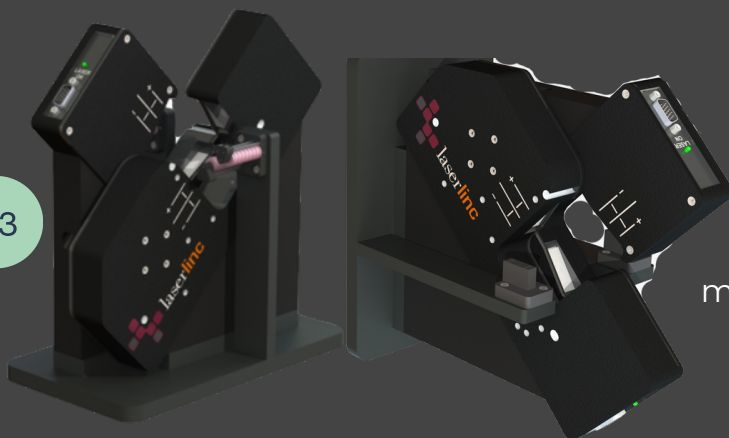
- **Product Applications:** TLAser122s

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02

03



Horizontal Multistrand Roller Guide: A guide that supports multiple strands of wire or tube and adjusts its position along the horizontal axis to ensure precise alignment.

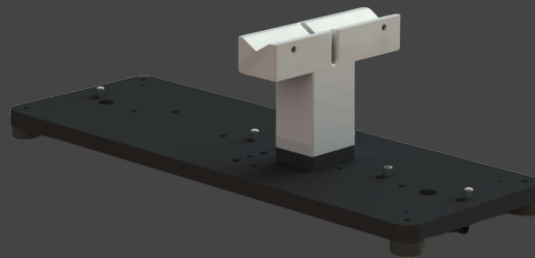
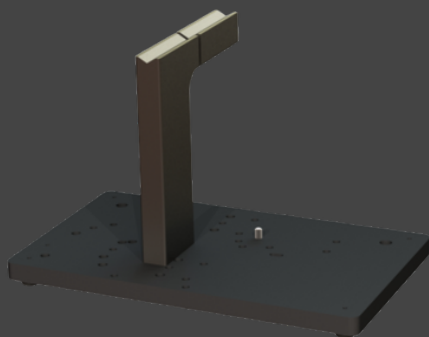
- **Product Applications:** TLAser122
- *Multistrand roller guides available for all micrometer models except x03 upon request

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V-Block Accessories

01

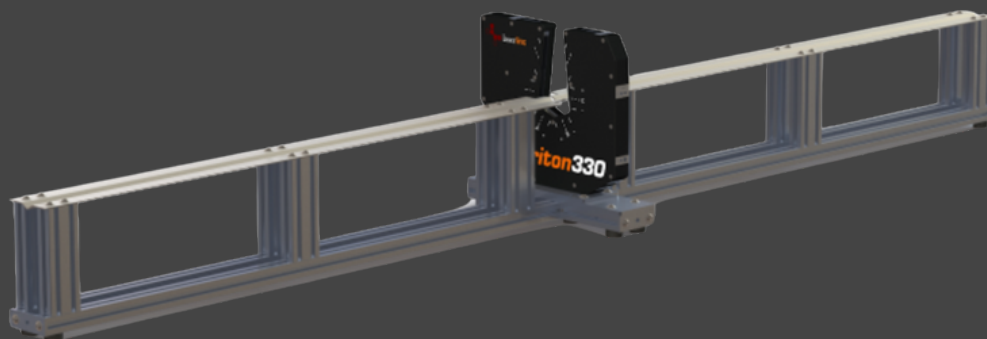


V-Block Fixture: Used to hold round pieces during inspection, the V-shaped grooves center the product, allowing for precise positioning and stability.

- **Product application:** TLaser122, Axion130, Axion160, Axion203, Axion222, Axion260, Triton312, Triton330, Triton360
- **Materials:** Stainless Steel

[CLICK HERE TO VIEW ALL AVAILABLE PART NUMBERS](#)

02



Long V-Block Fixture: Used to hold round pieces during inspection, the V-shaped grooves center larger products that are cut to size during the manufacturing process, allowing for precise positioning and stability.

- **Materials:** Stainless Steel V-Block with Aluminum Structure

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01



Feed Through Guides: Centers and supports small flexible tubing. The guides are mounted to a V-Block and secured using adjustable clamps. Multiple guides can be purchased and swapped out to accomodate a range of sizes.

- **Product application:** TLaser122, Axion222, Axion230, Triton312, Triton330
- **Materials:** While PLA
- **Add-on Guide Clamp Part Number:** 0330-0000-25 (For all models)

**TLaser122
Axion222**

**Axion230
Triton330**

Triton312

Hole Size
1.27mm [0.050"]
to
15.875 mm [.625"]
Set of 2

Hole Size
1.27 mm [0.050"]
to
19.05 mm [0.75"]
Set of 2

Hole Size
1.27 mm [0.050"]
to
9.53mm [0.375]
Set of 2

[CLICK HERE TO VIEW ALL AVAILABLE PART NUMBERS](#)

01

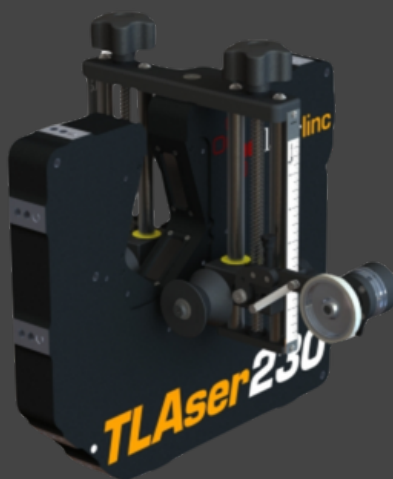


Right and Left Encoder Mounted Roller Guide Add-On: Attachment for a roller guide that provides real-time feedback on your extrusion process.

- **Product Application:** Available for all roller guide models except x03

[CLICK HERE TO VIEW ALL AVAILABLE PART NUMBERS](#)

02



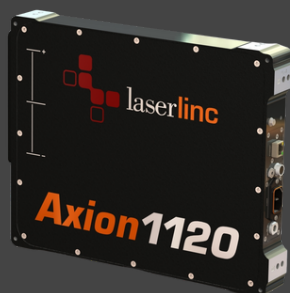
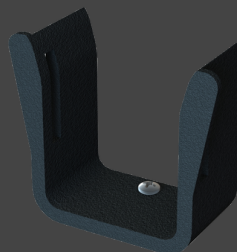
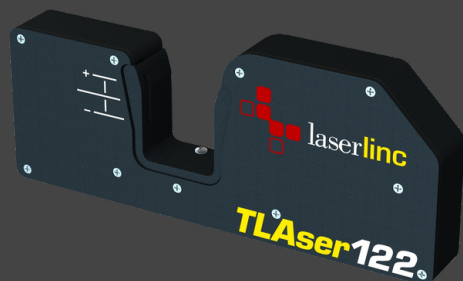
Roller Guide Encoder Mount: Attachment for a roller guide that holds an encoder that attaches to the roller guide for larger micrometers.

- **Product Application:** All Micrometers except Axion103 and Axion203
*currently available models are for TLaser230, Axion2120, Triton330 all other models are made to order

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Window Guard Accessories



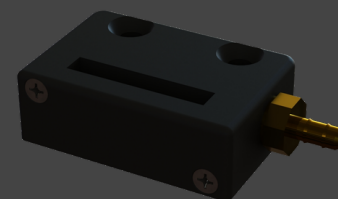
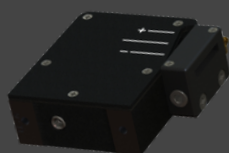
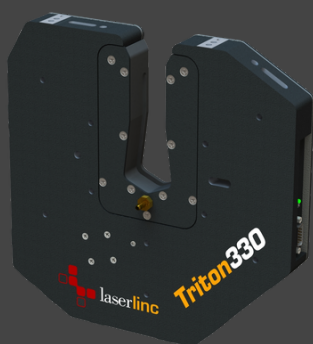
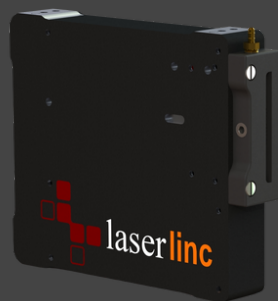
Window Guards: Protect the laser micrometer from dust, debris, and damage without interfering with measurement accuracy.

- **Product Application:** TLaser122, TLaser122s TLaser130, Axion160, Axion222, Axion230, Axion260, Axion1120, Axion2120, Triton330-312, Triton331, Triton360

[CLICK HERE TO VIEW ALL AVAILABLE PART NUMBERS](#)



Air Purge Accessories



Air Purges: Delivers a steady flow of clean air to keep the laser micrometer lenses free from dust and contaminants.

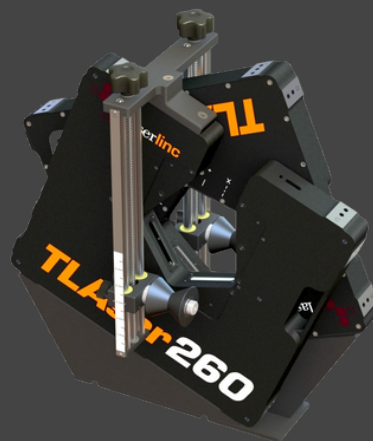
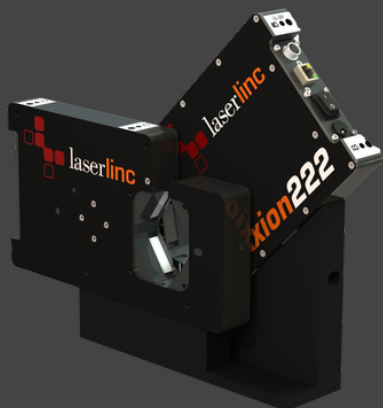
*Oil free air compressor required.

- **Product Application:** TLaser122, TLaser122s Axion103, Axion130 Axion160, Axion203, Axion222, Axion230, Axion260, Axion1120, Axion1240, Axion2120, Triton330-312, Triton331, Triton360

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Dual Mounting



Dual Mount Fixture: Dual mount fixturing allows for two micrometers to be mounted at differing orientations to provide double the measurement area.

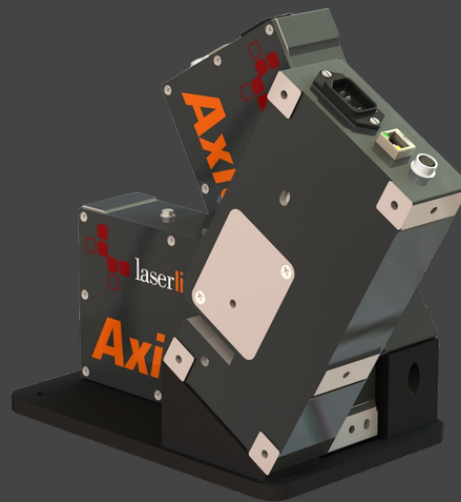
Dual Mount Roller Guide: Supports tubes and wires as they move through the throat of the micrometers.

- **Product Application:** Axion260, Triton330, Triton312, Triton331, Triton360, Axion2120

[CLICK HERE TO VIEW ALL AVAILABLE PART NUMBERS](#)



Triple Mounting



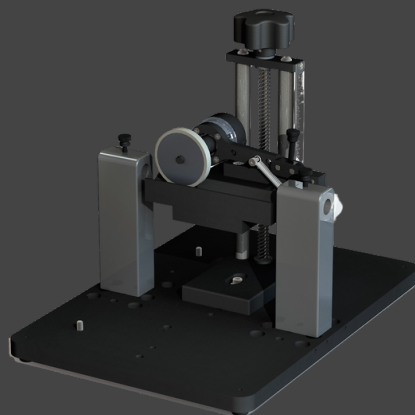
Triple Mount: Triple mount fixture allows for three micrometers to be mounted at differing orientations to provide triple the measurement area

- **Product Application:** Triton330, Triton360, Axion2120

[CLICK HERE TO VIEW ALL AVAILABLE PART NUMBERS](#)



Special Fixtures



Adjustable Feed Through V-Block with Encoder Fixture: Benchtop fixture provides support for no-ridged manual part inspection while attached encoder provides real-time length feedback.

- **Product Application:** Compatible with Axion222 and Triton330/312
- Micrometer, V-block, and feedthrough guides sold separately

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Stand Accessory



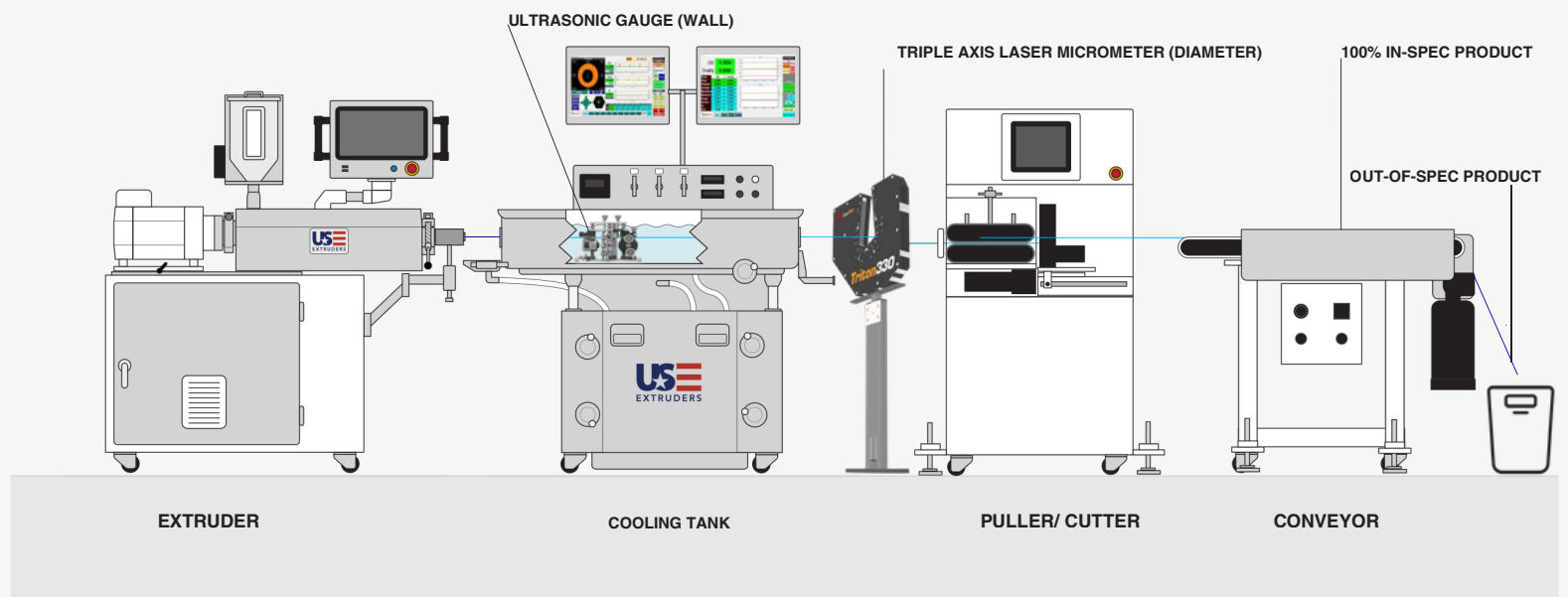
01

Impact Resistant Laser Micrometer Stand: Support and position laser micrometers with an adjustable base to ensure alignment of the micrometer to the extrusion line.

- **Product Application:** All Micrometers
- **Part Numbers:** 0200-0003-0028



Common Line Setup:





Throat Mount Roller Guide Part Numbers

Axion103 Part Numbers

0103-0000-60

Axion203 Part Numbers

203-0000-60

Axion222 Part Numbers

0222-0000-60

TLAser122 Part Numbers

0122-0000-60

Manual Adjust Mount Roller Guide Part Numbers

TLAser122 Part Number

0122-0000-66

Triton312 Part Number

0200-0000-66

Axion222 Part Number

0222-0000-60

Triton330 Part Number

0200-0000-66

Axion230 Part Number

0200-0000-60

Triton331 Part Number

0331-0000-66

Axion260 Part Number

0260-0000-66

Triton360 Part Number

0360-0000-66

Axion2120 Part Number

2120-0000-66



Roller Guide Part Numbers

Body Mount Roller Guide Part Numbers

Axion230 Part Number

1000-0000-61, 1000-0001-61

Triton312 Part Number

1000-0000-61, 1000-0001-61

Axion260 Part Number

1000-0002-61, 1000-0003-61

Triton330 Part Number

1000-0000-61, 1000-0001-61

Axion1120 Part Number

1000-0004-61

Triton360 Part Number

1000-0002-61, 1000-0003-61

Axion2120 Part Number

1000-0004-61

Plate Mount Roller Guide Part Numbers

TLAser122 Part Number

1000-0000-62

Axion230 Part Number

1000-0001-62, 1000-0002-62

Axion103 Part Number

1000-0003-62, 1000-0004-62

Triton312 Part Number

1000-0001-62, 1000-0002-62

Axion203 Part Number

1000-0003-62, 1000-0004-62,
1000-0006-62

Triton330 Part Number

1000-0001-62, 1000-0002-62

Axion222 Part Number

1000-0005-62, 1000-0011-62

Triton331 Part Number

1000-0007-62, 1000-0008-62



Horizontal-Vertical Adjust Roller Guide Part Numbers

Axion103 Part Numbers

0103-0000-60

Axion203 Part Numbers

203-0000-60

Axion222 Part Numbers

0222-0000-60

TLAser122 Part Numbers

0122-0000-60

Metron R Roller Guide Part Numbers

Metron R Part Number

1000-0000-84

Axion222 Part Number

1000-0000-84

Axion230 Part Number

1000-0000-84

Triton312 Part Number

1000-0000-84

Triton330 Part Number

1000-0000-84



Rail Mount Roller Guide Part Numbers

Axion130 Part Number

0130-0000-62

Axion1120 Part Number

1120-0000-62

Axion160 Part Number

0160-0000-62

TLAser122s Part Number

5122-0000-62

2-Way Rail Mount Roller Guide Part Numbers

TLAser122s Part Number

5122-0000-61

Horizontal Multistrand Roller Guide Part Numbers

TLAser122 Part Number (Horizontal With Rollers)

0122-0000-70

TLAser122 Part Number (Vertical With Guides)

0122-0001-29



V-Block Part Numbers

V-Block Fixture Part Numbers

TLAser122 Part Number

0122-0000-21

Axion260 Part Number

0260-0000-21

TLAser122s Part Number

5122-0001-21

Triton312 Part Numbers

0312-0000-21, 0312-0001-21,
0312-0001-25

Axion130 Part Number

0130-0000-21

Axion160 Part Number

0160-0000-21

Triton330 Part Numbers

0330-0000-21, 0312-0001-21,
0330-0003-21, 0312-0001-25

Axion203 Part Number

0203-0000-21

Triton360 Part Numbers

0360-0000-21

Axion222 Part Number

0222-0000-21, 0222-0001-25

Long V-Block Fixture Part Numbers

Triton330 Part Number

0330-0003-21



Feed Through Guide Part Numbers

Feed Through Guide Part Numbers

x22 Part Numbers

0022-1100-25, 0022-1101-25, 0022-1102-25, 0022-1103-25, 0022-1104-25, 0022-1105-25,
0022-1106-25, 0022-1107-25,

Triton312 Part Numbers

0312-1100-25, 0312-1101-25, 0312-1102-25, 0312-1103-25, 0312-1104-25, 0312-1105-25,
0312-1106-25

Triton330 Part Numbers

0330-1100-25, 0330-1101-25, 0330-1102-25, 0330-1103-25, 0330-1104-25, 0330-1105-25,
0330-1106-25, 0330-1107-25, 0330-1108-25

V-Block Feed-Through Guide Part Number

0330-0000-25

Axion230 Body Mount Feed-Through Fixture

0230-0000-25

Triton312 Plate Mount Feed-Through Fixture

0312-0000-25



Right and Left Encoder Mounted Roller Guide Add-On Part Numbers

All Micrometers Except Axion103 Part Numbers

1000-1104-86, 1000-1105-86

Roller Guide Encoder Mount Part Numbers

All Micrometers Except Axion103 and Axion203 Part Numbers

1000-0003-86, 1000-0002-86

Axion2120 Part Numbers

2120-0000-86



Window Guard Part Numbers

Window Guard Part Numbers

TLAser122 Part Number

0122-0000-31

Axion1120 Part Number

1120-0000-31

TLAser122s Part Number

5122-0000-31

Axion2120 Part Number

2120-0000-31

TLAser130 Part Number

0130-0000-31

Triton312 Part Number

0300-0000-31

Axion160 Part Number

0160-0000-31

Triton330 Part Number

0300-0000-31

Axion222 Part Number

0222-0000-31

Triton331 Part Number

0331-0000-31

Axion230 Part Number

0230-0000-31

Triton360 Part Number

0360-0000-31

Axion260 Part Number

0260-0000-31



Air Purge Part Numbers

Air Purge Part Numbers

TLAser122 Part Number

0122-0000-30

Axion230 Part Number

0230-0001-30

TLAser122s Part Number

5122-0000-30

Axion260 Part Number

0260-0001-30

TLAser130 Part Number

0130-0001-30

Axion1120 Part Number

1120-0001-30

Axion103 Part Number

0103-0000-30

Axion1240 Part Number

1240-0000-30

Axion130 Part Number

0130-0001-30

Axion2120 Part Number

2120-0001-30

Axion160 Part Number

160-0001-30

Triton312 Part Number

0300-0001-30

Axion203 Part Number

0203-0000-30

Triton330 Part Number

0300-0001-30

Axion222 Part Number

0222-0000-30

Triton331 Part Number

0331-0000-30

Triton360 Part Number

0360-0000-30



Dual Mount Part Numbers

Dual Mount Fixture Part Numbers

TLAser122 Part Number

0122-0000-29

Triton312 Part Number

0300-0000-29

Axion222 Part Number

0222-0001-29

Triton330 Part Number

0300-0000-29

Axion230 Part Number

0230-0000-29

Triton331 Part Number

0331-0000-29

Axion260 Part Number

0260-0000-29

Triton360 Part Number

0360-0000-29

Axion2120 Part Number

2120-0000-29

Dual Mount Roller Guide Part Numbers

Axion260 Part Number

1000-0000-65

Triton360 Part Number

1000-0001-65

Axion2120 Part Number

1000-0002-65



Triple Mount Part Numbers

Triple Mount Fixture Part Numbers

Triton330 Part Number

0300-0000-29

Triton360 Part Number

0360-0000-29

Axion2120 Part Number

2120-0000-29



Specialty Guide Part Numbers

Specialty Fixture Part Numbers

Axion222 Specialty Part Numbers

0222-1101-25, 0222-1102-25, 0222-1103-25, 0222-1104-25, 0222-1105-25, 0222-1106-25,
0222-1107-25, 0222-1108-25, 0222-1109-25, 0222-1110-25, 0222-1111-25, 0222-1112-25,
0222-1113-25, 0222-1114-25, 0222-1115-25, 0222-1116-25

Triton312 Part Numbers

0312-1100-25, 0312-1101-25, 0312-1102-25, 0312-1103-25, 0312-1104-25, 0312-1105-25,
0312-1106-25

Triton330 Part Numbers

0330-1100-25, 0330-1101-25, 0330-1102-25, 0330-1103-25, 0330-1104-25, 0330-1105-25,
0330-1106-25, 0330-1107-25, 0330-1108-25

V-Block Feed-Through Guide Part Number

0330-0000-25

Axion230 Body Mount Feed-Through Fixture

0230-0000-25

Triton312 Plate Mount Feed-Through Fixture

0312-0000-25