

MicroLoc®

5 Axis Workholding Systems

52/96 Manual Zero Point
77/125 Self Centering Vices

52/96
Industry
Standard



Compatible with
other well known
brands



Hardened &
Ground



British Made



More
competitive
than German
Brands



Repeatability less
than 0.01mm



Designed and manufactured in the UK by Micron Workholding
MicroLoc is a registered trademark of Micron Workholding Ltd



www.microloc.com

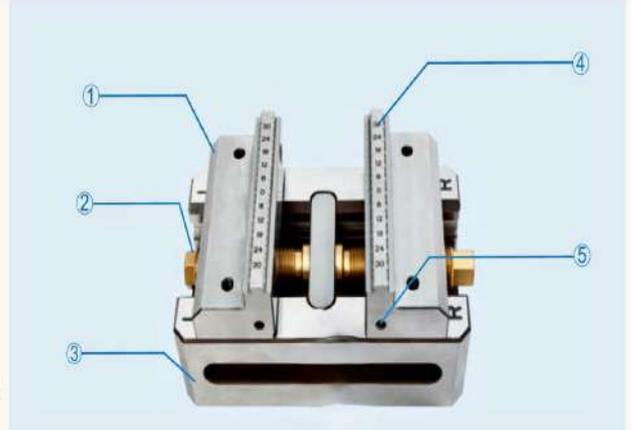
Tel: +44 (0)1480 861321



5 Axis Workholding Systems

77mm Wide Self Centering Vices Zero Point Base fit - 52mm Pitch

1. The Plain Smooth Surface of the Jaws can be used for Clamping Workpieces without marking.
2. Double Guide Long Stroke with screw nut Vice drive Jaw
3. Base structure is stable and durable, but also light and easy for manual Loading and unloading
4. The Upper End of the Jaw has Gripper Teeth on both sides to bite in and reliably Clamp on only 3mm!
5. Supplied with 16mm Plugs at 52mm Pitch to sit on Manual Zero Point System



MicroLoc 77 Vice

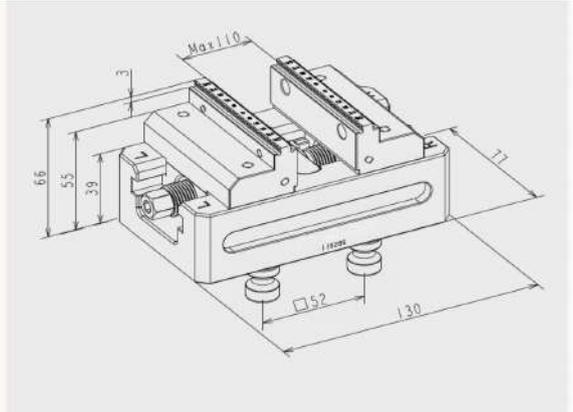
ML-110286- 5Axis Vice - 130 x 77mm

Repeatability less than 0.01mm

Maximum Workpiece Length of 110mm

Maximum Clamping Force 14,000 N / Driving Torque 70 Nm

Supplied with 4 off 16mm Zero Point Plugs to fit 52mm Pitch (ML-110164)



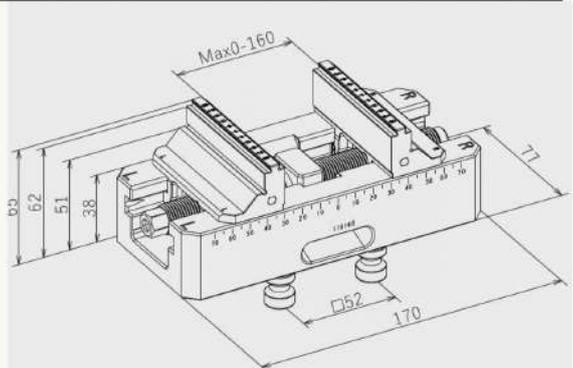
ML-110160- 5Axis Vice - 170 x 77mm

Repeatability less than 0.01mm

Maximum Workpiece Length of 160mm

Maximum Clamping Force 14,000 N / Driving Torque 70 Nm

Supplied with 4 off 16mm Zero Point Plugs to fit 52mm Pitch (ML-110164)





5 Axis Workholding Systems

77mm Wide Self Centering Vices

Zero Point Base fit – 52mm Pitch

MicroLoc 125 Vice

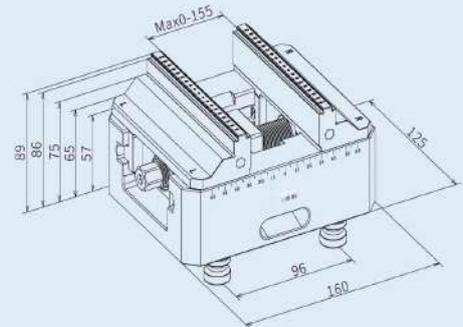
ML-110185- 5Axis Vice – 160 x 125mm

Repeatability less than 0.02mm

Maximum Workpiece Length of 155mm

Maximum Clamping Force 20,000 N / Driving Torque 100 Nm

Supplied with 4 off 20mm Zero Point Plugs to fit 96mm Pitch
(ML-110194)



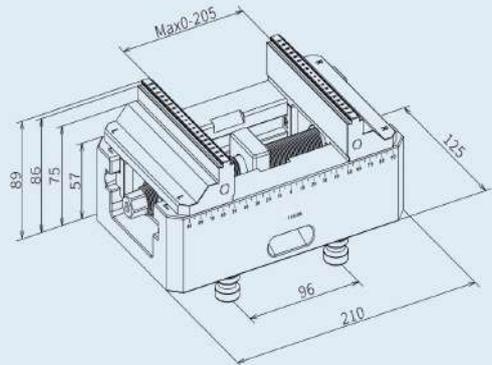
ML-110186- 5Axis Vice – 210 x 125mm

Repeatability less than 0.02mm

Maximum Workpiece Length of 205mm

Maximum Clamping Force 20,000 N / Driving Torque 100 Nm

Supplied with 4 off 20mm Zero Point Plugs to fit 96mm Pitch
(ML-110194)



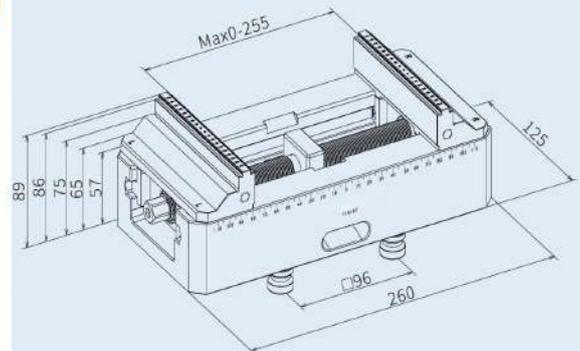
ML-110187- 5Axis Vice – 260 x 125mm

Repeatability less than 0.02mm

Maximum Workpiece Length of 255mm

Maximum Clamping Force 20,000 N / Driving Torque 100 Nm

Supplied with 4 off 20mm Zero Point Plugs to fit 96mm Pitch
(ML-110194)

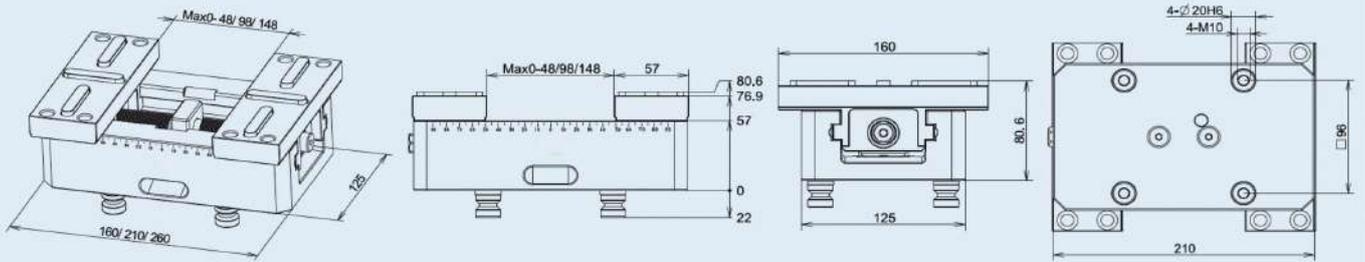




5 Axis Workholding Systems

5 Axis Vices & Accessories

MicroLoc 125 Soft Vice



Model No.	Base Length	Clamping Range	Max Driving Torque
ML-110185	160mm	0-48mm	100Nm
ML-110186	210mm	0-98mm	100Nm
ML-110187	260mm	0-148mm	100Nm

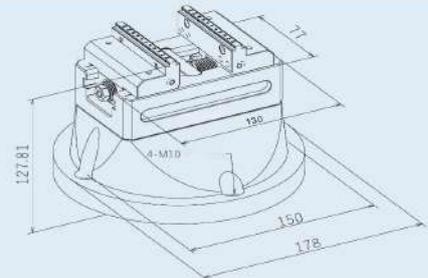


ML-110150- Single Vice Riser Base

For use with Standard 5 Axis Vice ML-110286

with 4 x M10 Mounting Holes

Can be customised to suit 5 Axis Pallet/machine Table

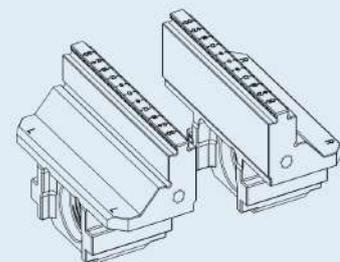


Jaws (Left Jaw + Right Jaw)

ML-110060 for use with Standard 5 Axis Vice ML-110286

ML-110185 for use with ML-110185/ ML-110186 & ML-110187

Jaw Width	Model No.	Weight	Unit
77mm	ML-110160-02 Left	0.8kg	1 set
	ML-110160-03 Right		
125mm	ML-110185-02 Left	2.6kg	1 set
	ML-110185-03 Right		





5 Axis Workholding Systems

5 Axis Vice Accessories

MicroLoc 77/125

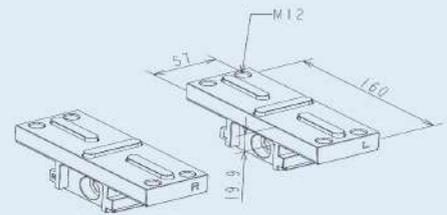
ML-110193 – Cross Tenon Soft Jaw Base

For use with Standard 5 Axis Vice ML-110286

ML-110193-01 Left Jaw, ML-110193-02 Right Jaw

160x57mm weight 4.3kg

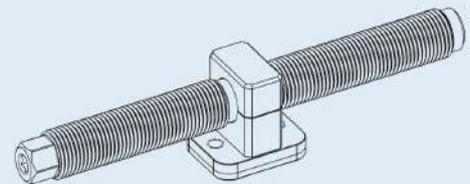
For use with ML-110185 / ML-110186 / ML-110187



Operating Screw & Centering Base Set

For use with Standard 5 Axis Vice ML-110160, ML-110185, ML-110186 & ML-110187

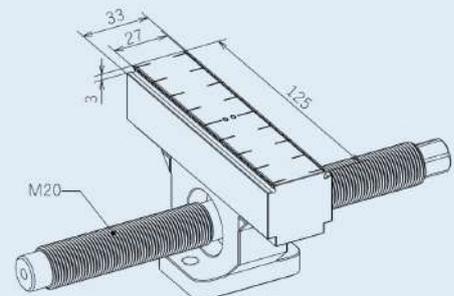
Model No.	Screw length	Assembly	Weight	Unit
ML-110160-04	169mm	ML-110160	0.3kg	1 set
ML-110160-05				
ML-110160-06				
ML-110185-04	164mm	ML-110185	0.7kg	1 set
ML-110185-04				
ML-110185-04				
ML-110186-04	214mm	ML-110186	0.7kg	1 set
ML-110186-04				
ML-110186-04				
ML-110187-04	264mm	ML-110187	0.9kg	1 set
ML-110187-04				
ML-110187-04				



Centre Jaw with Screw Set

For use with Standard 5 Axis Vice ML-110185/ML-110186/ ML-110187

Model No.	Screw length	Assembly	Weight	Unit
ML-110160-04	169mm	ML-110160	0.3kg	1 set
ML-110160-05				
ML-110160-06				
ML-110185-04	164mm	ML-110185	0.7kg	1 set
ML-110185-04				
ML-110185-04				
ML-110186-04	214mm	ML-110186	0.7kg	1 set
ML-110186-04				
ML-110186-04				
ML-110187-04	264mm	ML-110187	0.9kg	1 set
ML-110187-04				
ML-110187-04				

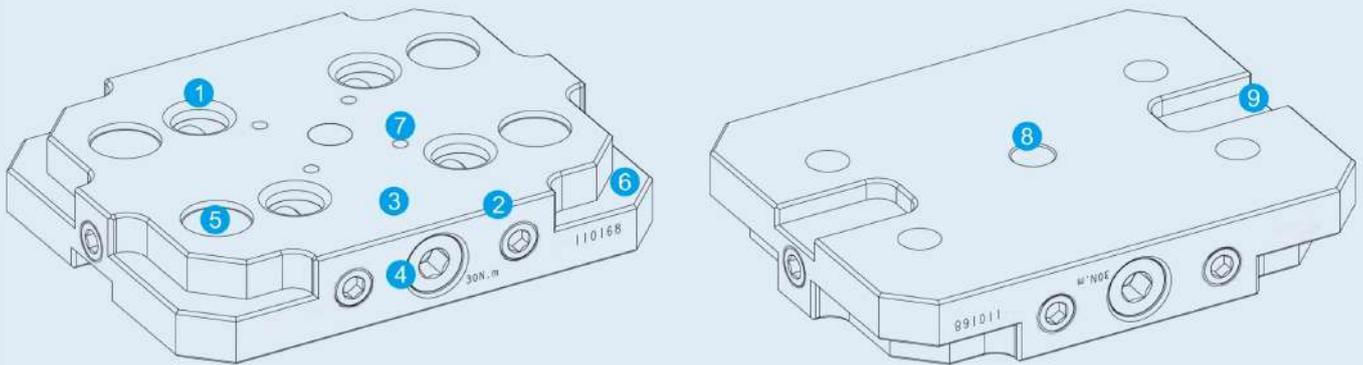




5 Axis Workholding Systems 52mm Pitched Manual

Zero Point Bases

MicroLoc 52



1. Centre distance is 52mm, Torque is 30nm, suitable for \varnothing 16mm Plugs and used with 77mm Vice Jaw width
2. Zero Point Base thickness 27mm
3. Solid Fixture body, surface Ground after Heat Treatment, solid wear-resistant structure and durable
4. Strong mechanical tension is achieved by tightening screw for quick locking and quick release
5. Mounting Hole Positions
6. Machined away for more clearance
7. 4 x M5 Tapped Holes as positional aid of Clamping devices
8. \varnothing 12F5 Bored Hole for location
9. 20H7 Keyway Slot to allow for tenons to locate to machine table /Sub-plate
10. MicroLoc can customise a Sub-plate accurately to suit multiple Clamping

Manual Zero Point Plates





5 Axis Workholding Systems

52mm Pitched Manual

Zero Point Bases

MicroLoc 52

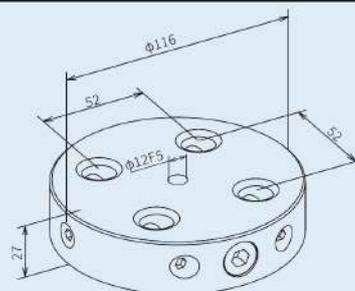
ML-110171 Zero Point 52 Plate $\phi 116$

$\phi 116 \times 27$ mm, use with 16mm Plugs - 2.1kg

Set Up pitch 52mm

Torque 30Nm

No Mounting holes - but can be added



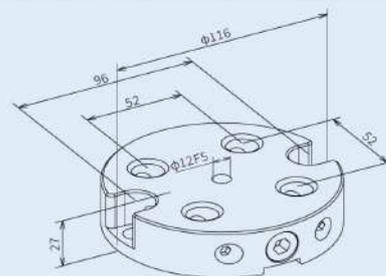
ML-110170 Zero Point 52 Plate $\phi 116$

$\phi 116 \times 27$ mm, use with 16mm Plugs - 2.1kg

Set Up pitch 52mm

Torque 30Nm

96mm Pitch Mounting Holes (Matsuura MX330)



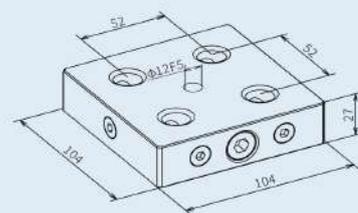
ML-110166 Zero Point 52 Plate 104x104

104x104x27mm use with 16mm Plugs - 2.0kg

Set Up pitch 52mm

Torque 30Nm

No Mounting holes - but can be added



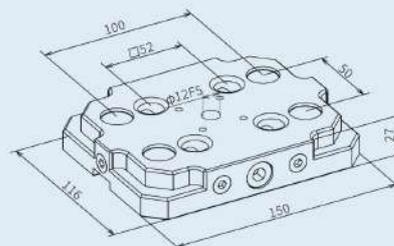
ML-110168 Zero Point 52 Plate 150x116

150x116x27mm use with 16mm Plugs - 3.4kg

Set Up pitch 52mm

Torque 30Nm

Clamping Edges and Mounting Holes



Manual Zero Point Plates





5 Axis Workholding Systems

52mm Pitched Manual

Zero Point Bases

MicroLoc 52

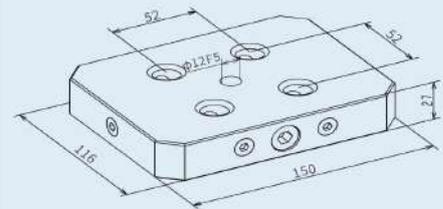
ML-110169 Zero Point 52 Plate 150x116

150x116x27mm, use with 16mm Plugs - 2.1kg

Set Up pitch 52mm

Torque 30Nm

No Mounting holes - but can be added



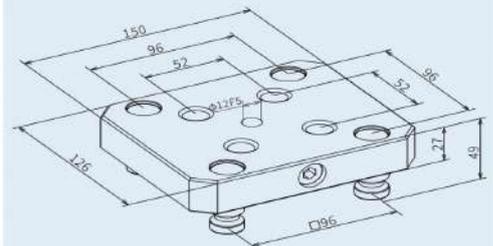
ML-110174 Zero Point 52 Adaptor Plate

150x126x27mm, use with 16mm Plugs - 3.4kg

Set Up pitch 52mm

Torque 30Nm

Adapts 52mm Pitch Base to a 96mm Pitched Base with Plugs



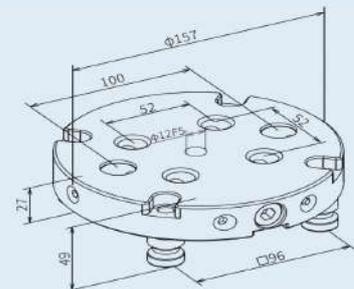
ML-110175 Zero Point 52 Adaptor Plate

Ø157x27mm use with 16mm Plugs - 3.7kg

Set Up pitch 52mm

Torque 30Nm

Adapts 52mm Pitch Base to a 96mm Pitched Base with Plugs



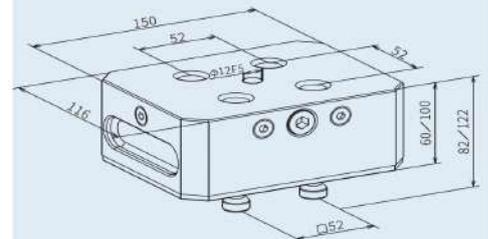
ML-110176 / ML110177 Riser Plate 52

150x116x60mm/ 1150x116x100mm -6mm Plugs - 6.1/10kg

Set Up pitch 52mm

Torque 30Nm

60mm or 100mm Risers



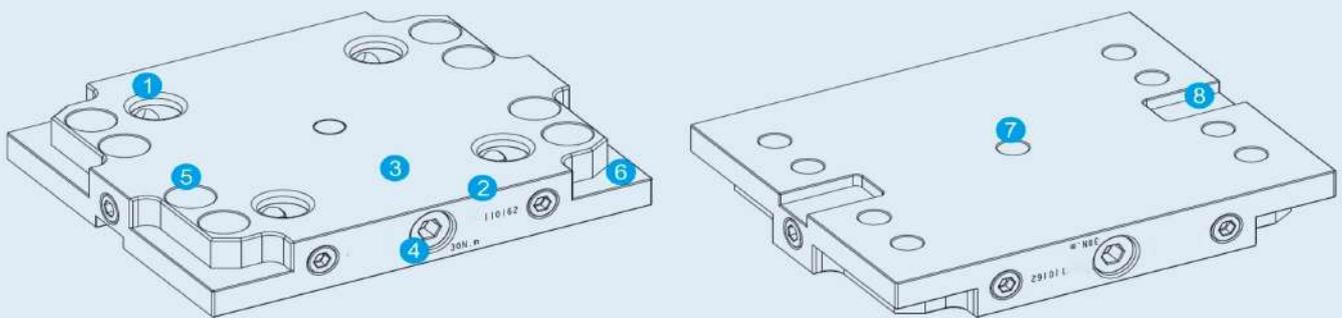
Manual Zero Point Plates



5 Axis Workholding Systems 52mm Pitched Manual

Zero Point Bases

MicroLoc 96



1. Centre distance is 96mm, Torque is 30nm, suitable for $\varnothing 20$ mm Plugs and used with 125mm Vice Jaw width
2. Zero Point Base thickness 27mm
3. Solid Fixture body, surface Ground after Heat Treatment, solid wear-resistant structure and durable
4. Strong mechanical tension is achieved by tightening screw for quick locking and quick release
5. Mounting Hole Positions
6. Machined away for more clearance
7. 4 x M5 Tapped Holes as positional aid of Clamping devices
8. $\varnothing 12$ F5 Bored Hole for location
9. 20H7 Keyway Slot to allow for tenons to locate to machine table / Sub-Plate
10. MicroLoc can customise a Sub-plate for you for multiple Clamping use

Manual Zero Point Plates





5 Axis Workholding Systems

96mm Pitched Manual Zero Point Bases

MicroLoc 96

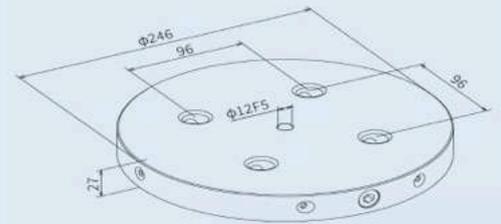
ML-110249 Zero Point 96 Plate $\phi 246 \times 27$

$\phi 246 \times 27$ mm, use with 20mm Plugs - 9.3kg

Set Up pitch 96mm

Torque 30Nm

No Mounting holes - but can be added



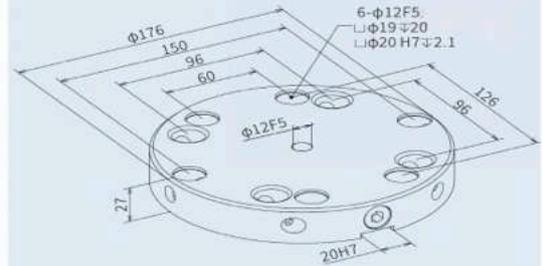
ML-110247 Zero Point 96 Plate $\phi 176 \times 27$

$\phi 176 \times 27$ mm, use with 20mm Plugs - 4.7kg

Set Up pitch 96mm

Torque 30Nm

Mounting Holes for 63mm T-Slot distance on 150mm Pitch



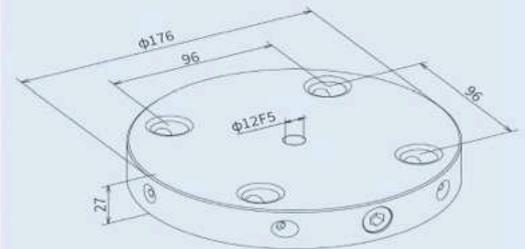
ML-110248 Zero Point 96 Plate $\phi 176 \times 27$

$\phi 176 \times 27$ mm use with 20mm Plugs - 4.8kg

Set Up pitch 96mm

Torque 30Nm

No Mounting holes - but can be added



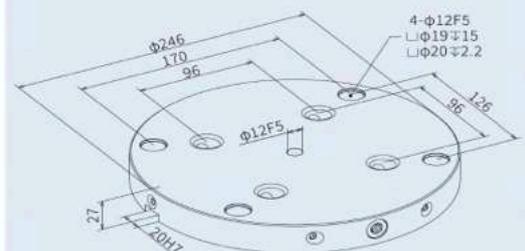
ML-110243 Zero Point Plate 96 $\phi 246 \times 27$

$\phi 246 \times 27$ mm, use with 20mm Plugs - 9.5kg

Set Up Pitch 96mm

Torque 30Nm

Mounting Holes to suit 63mm T-Slot distance on 170mm Pitch



Manual Zero Point Plates



5 Axis Workholding Systems

96mm Pitched Manual

Zero Point Bases

MicroLoc 96

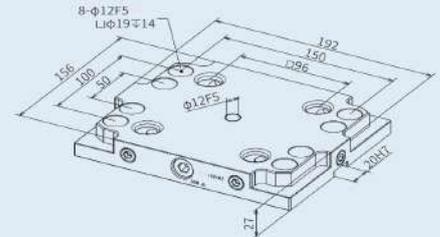
ML-110162 Zero Point 96 Plate 192x156

192x156x27mm, use with 20mm Plugs - 5.5kg

Set Up pitch 96mm

Torque 30Nm

Mounting Holes and Clamping Edge



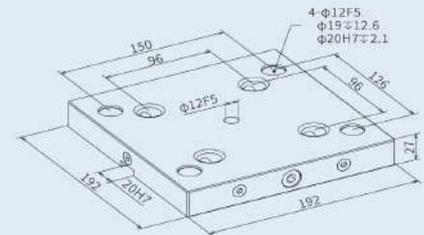
ML-110242 Zero Point 96 Plate 192x192

192x192x27mm, use with 20mm Plugs - 7kg

Set Up pitch 96mm

Torque 30Nm

Mounting Holes for 63mm T-Slot distance on 150mm Pitch



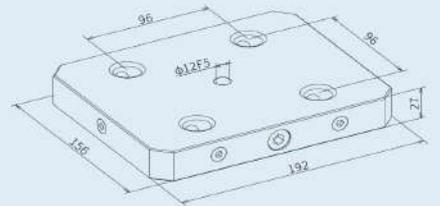
ML-110246 Zero Point 96 Plate 192x156

192x156x27mm use with 20mm Plugs - 6kg

Set Up pitch 96mm

Torque 30Nm

No Mounting holes - but can be added



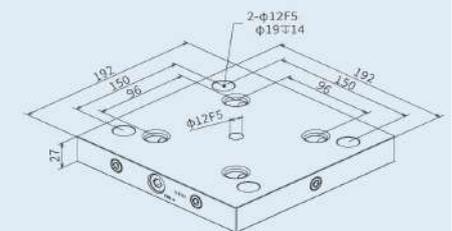
ML-110161 Zero Point Plate 96 192x192

192x192x27mm, use with 20mm Plugs - 7kg

Set Up pitch 96mm

Torque 30Nm

with Mounting Holes at 150mm distance



Manual Zero Point Plates





5 Axis Workholding Systems

52/96mm Pitched Plugs and Pyramid

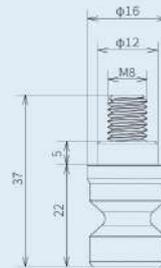
MicroLoc 52/96

ML-110164 Zero Point 52 Plug

16mm Plug, for use with 52mm Pitch System

Inc. M8 Threaded Pin

4 x ML-110164 are required for one 52 Zero Point Plate



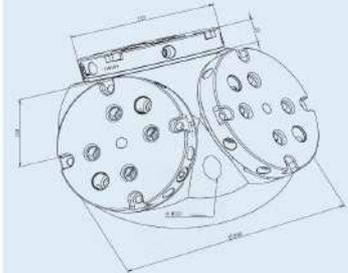
ML-110151 Three Vice Base Pyramid

use with 16mm Plugs

Set Up pitch 52

Suitable for 5 Axis machining, 3 parts at a time

Use with 3 x ML-110165 Sold separately



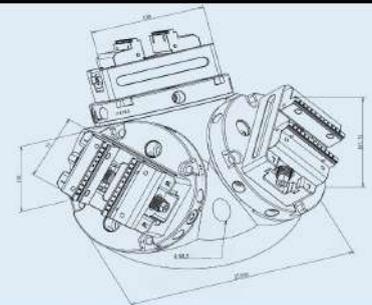
ML-110151 Three Vice Pyramid Assembly

Use with 16mm Plugs

Set Up pitch 952mm

Suitable for 5 Axis Machining,

use with 3 x ML-110165 and 3 x ML-110286

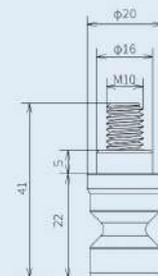


ML-110194 Zero Point 96 Plug

20mm Plug, for use with 96mm Pitch System

inc. M10 Threaded Pin

4 x ML-110194 are required for One 96 Zero Point Plate



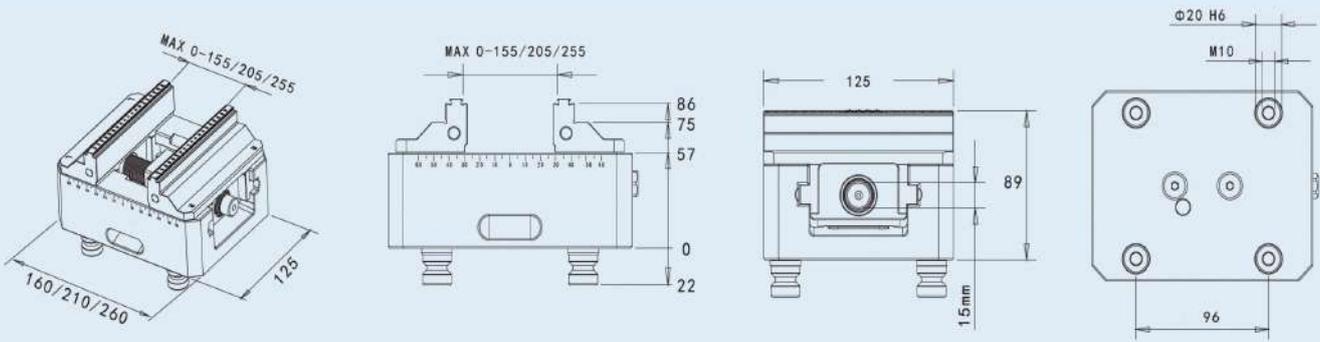
5 Axis Workholding



5 Axis Workholding Systems

77/125 5-Axis Vice

MicroLoc 5 Axis Vices



Model No.	Base Length	Clamping Range	Max Torque
ML-110185	160mm	0-155mm	100Nm
ML-110186	210mm	0-205mm	100Nm
ML-110187	260mm	0-255mm	100Nm



5 Axis Workholding





5 Axis Workholding Systems

52/96 Pitched Manual

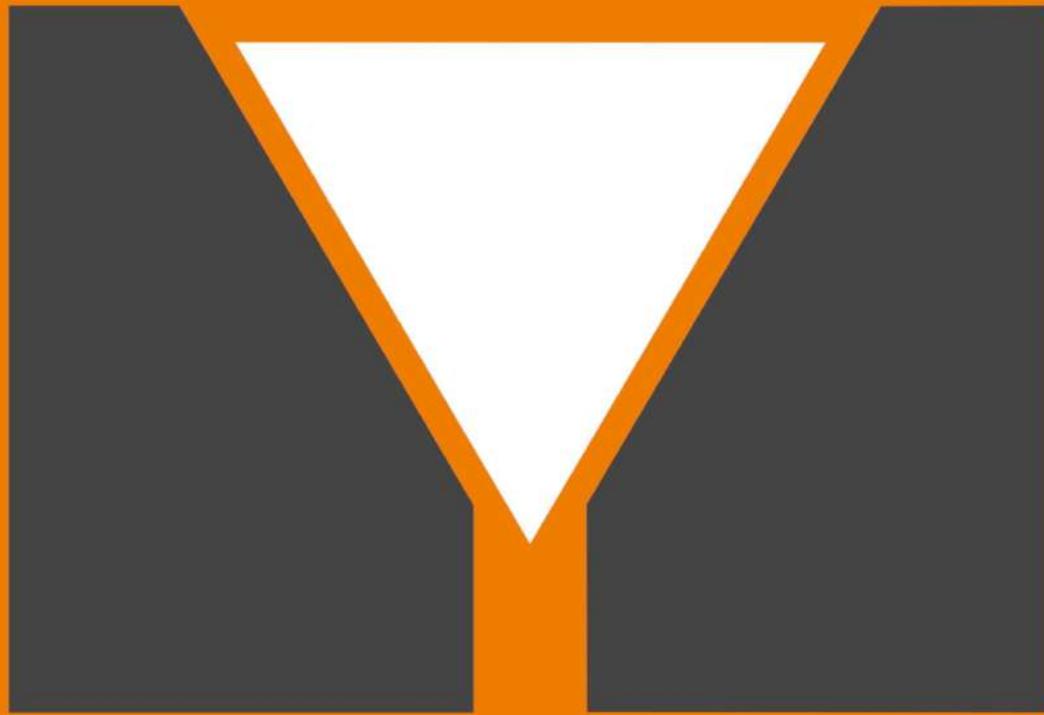
Zero Point Bases

MicroLoc 52/96



Manual Zero Point Plates





MicroLoc[®]

5 Axis Workholding Systems

52/96 Manual Zero Point

77/125 Self Centering Vices



Designed and manufactured in the UK by Micron Workholding

MicroLoc is a registered trademark of Micron Workholding Ltd

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