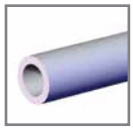
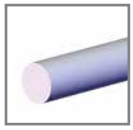
ROUND TOOLING SYSTEMS

Table of Contents

Introduction 3


World Tool Booms and Bushings 7

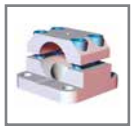

Tubes and Rods 8

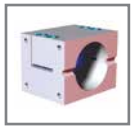
Single Mushroom Tool Holder 10

Double Mushroom Tool Holder 11

Wrist Rotate Assembly 12

Flange End Mount Bracket and Blocks 13


Flange Mid Mount Brackets and Blocks 16


World Tool Direct Mounts 19

Base Mount Block 21

Cross Transition Brackets and Blocks 22

T-Clamp Transition Brackets and Blocks 27

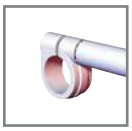
Wrist Brackets and Blocks 31

Table of Contents

Low-Profile Wrist Brackets and Blocks 33

Elbow and Straight Transition Brackets 34

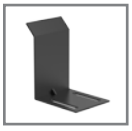
Swivel Arms 36


Single End Extensions 57

Nest Pad Brackets 59

Proximity Switch Mount 63

Proximity Swaitch Bumpers 64


Nest Pad Guides 65

Nest Pad Blocks 67

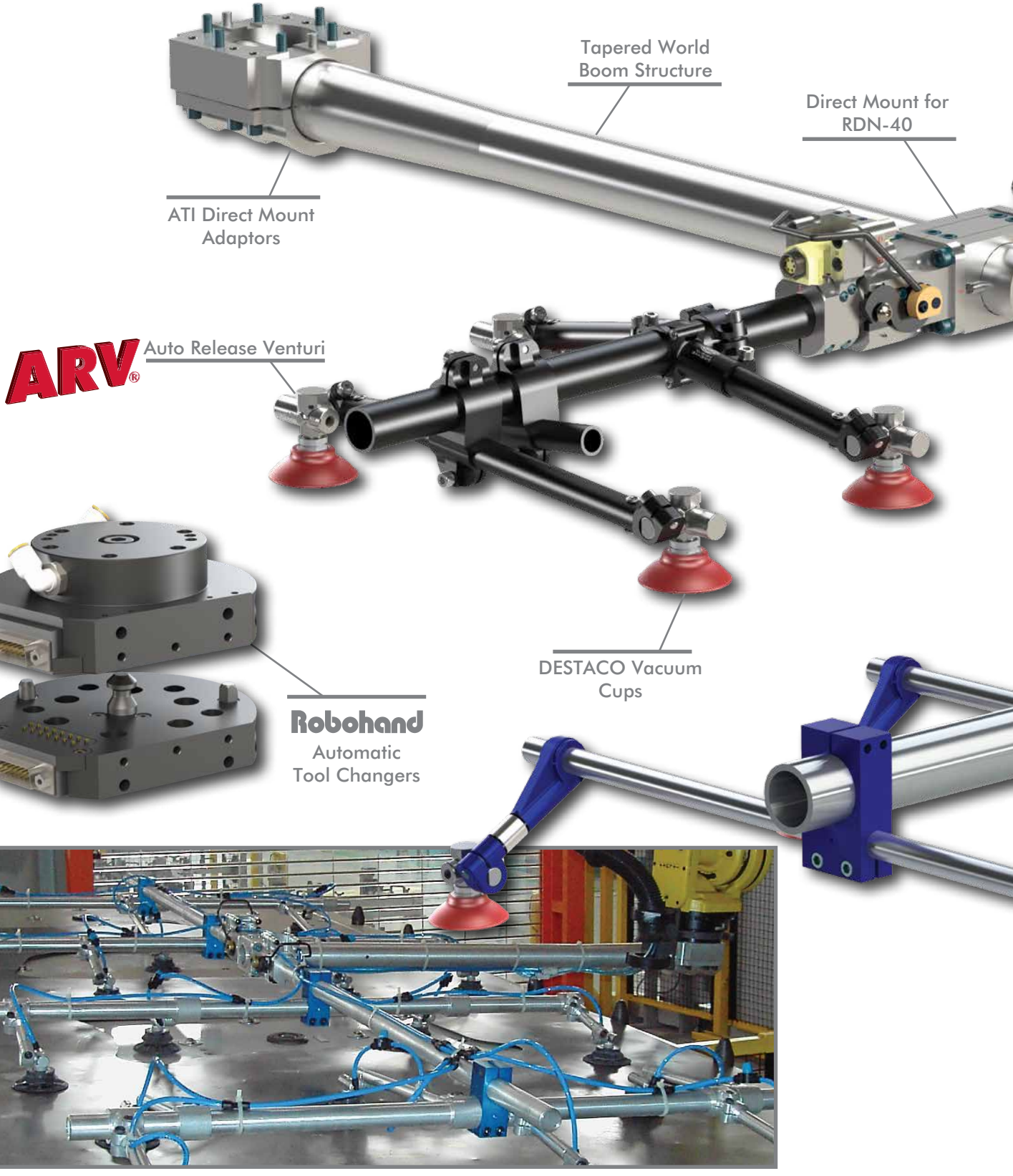
Plastics - Blue Slice 69

Tool Storage 70

ROUND TOOLING SYSTEMS

World Tool System Example with Accelerate® Lightweight Tooling Components

DESTACO's world tool components are configured to handle parts of any size and shape, and can be re-used for future applications.



Dimensions and technical information are subject to change without notice

ROUND TOOLING SYSTEMS

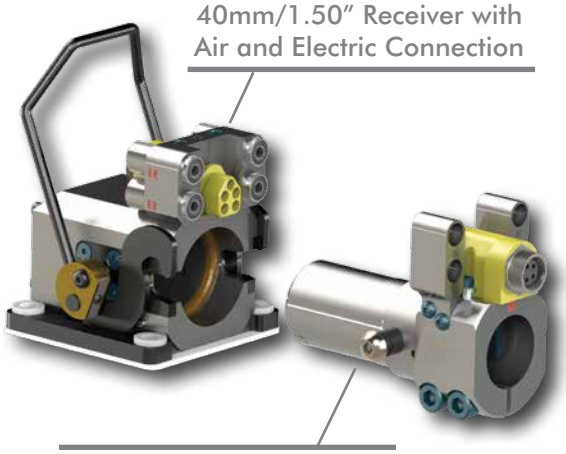
Traditional Round Tooling System Example

Round tooling components are used in combination with the Accelerate® Collection for lightweight tooling solutions

ACCELERATE® COLLECTION

Most commonly used in:	
Applications	**Markets**
Load/Unload	Automotive
Pick and Place	Industrial
Material Handling	Appliance
Hot Forming	Plastics

40mm/1.50" Quick Disconnect

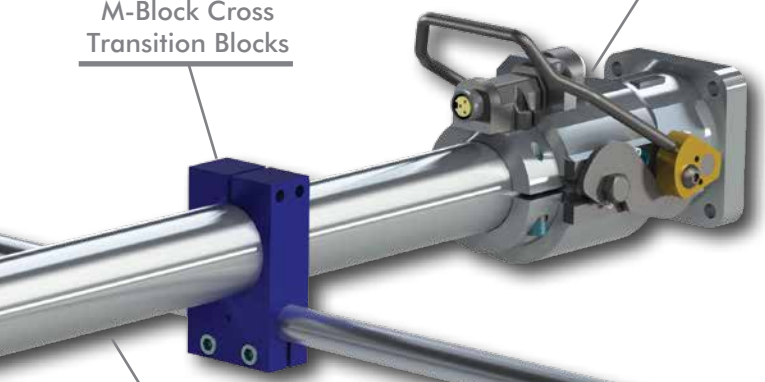


40mm/1.50" Receiver with Air and Electric Connection

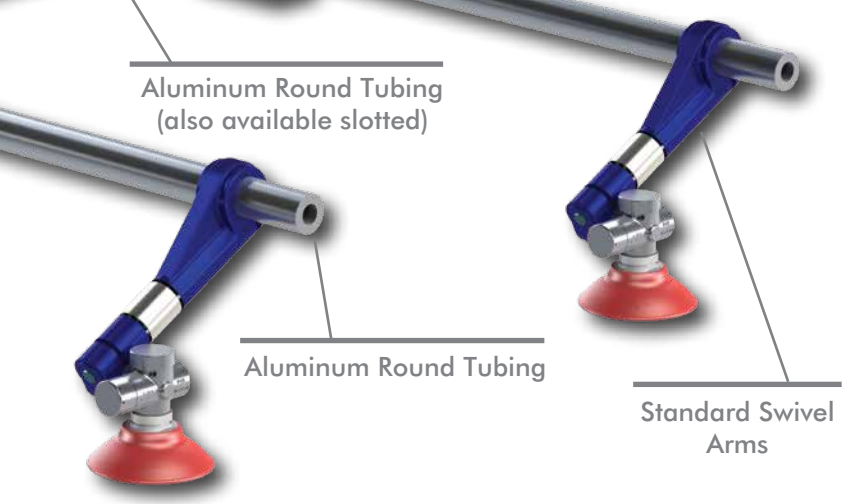
40mm/1.50" Receiver with Air and Electric Connection

60mm/2.50" Quick Disconnect with Electric Connection

M-Block Cross Transition Blocks



Aluminum Round Tubing (also available slotted)



Aluminum Round Tubing

Standard Swivel Arms

Hot Forming Solutions

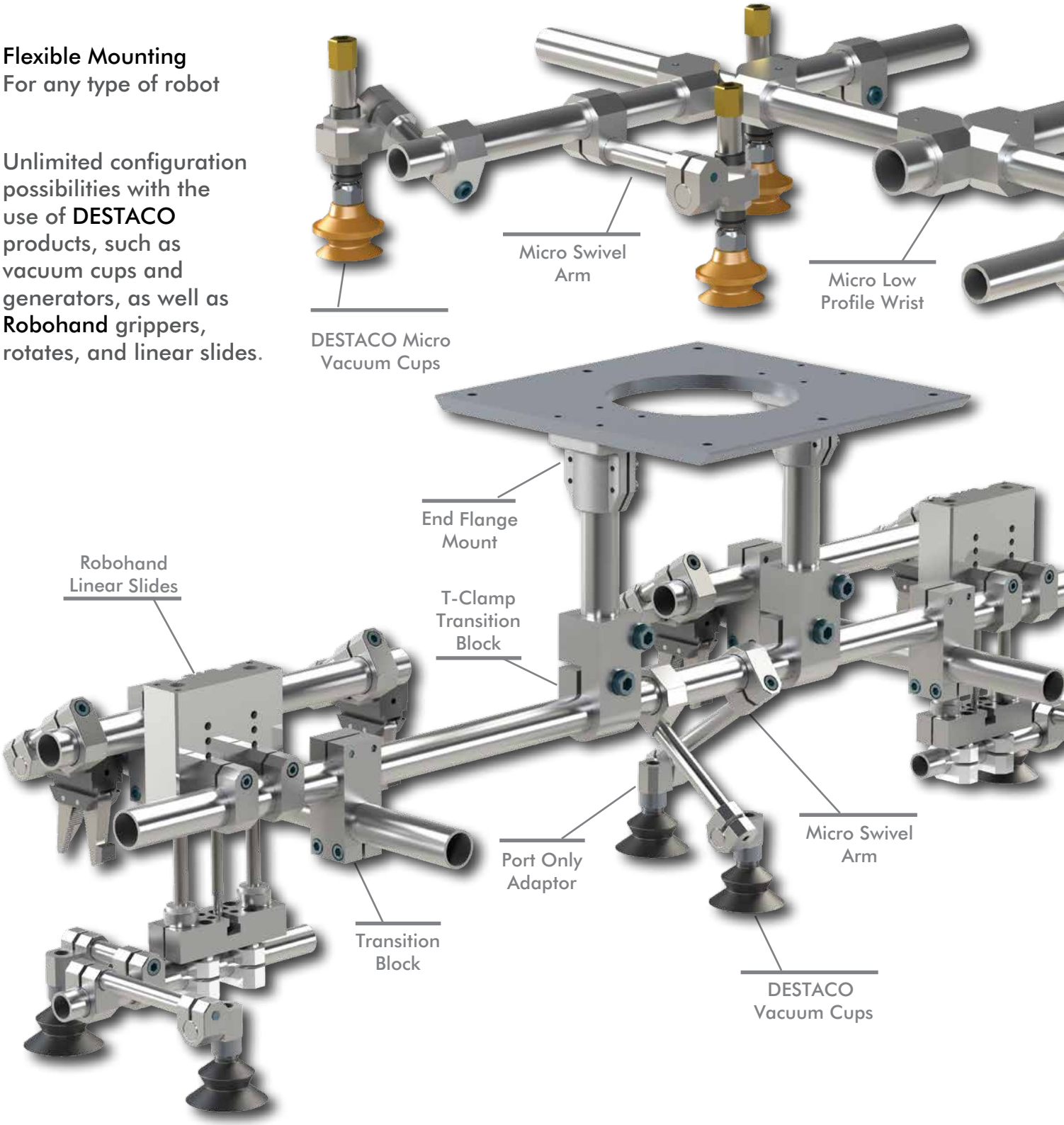
ROUND TOOLING SYSTEMS

Micro Round Tooling System Example

A family within the traditional round tooling system, **micro tooling components** are made from lightweight aluminum with thin wall tubing. This system is designed to handle small, lightweight parts, plastic injection mold unloading, and unusual shaped objects.

Flexible Mounting
For any type of robot

Unlimited configuration possibilities with the use of **DESTACO** products, such as vacuum cups and generators, as well as **Robohand** grippers, rotates, and linear slides.



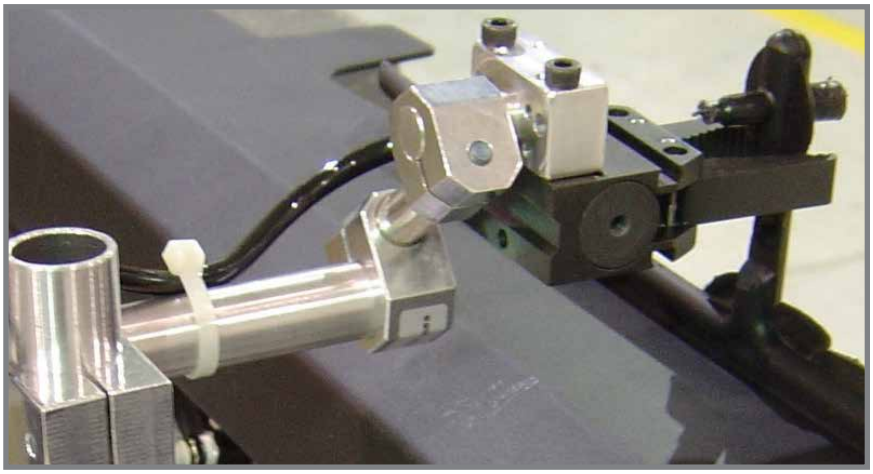
Dimensions and technical information are subject to change without notice

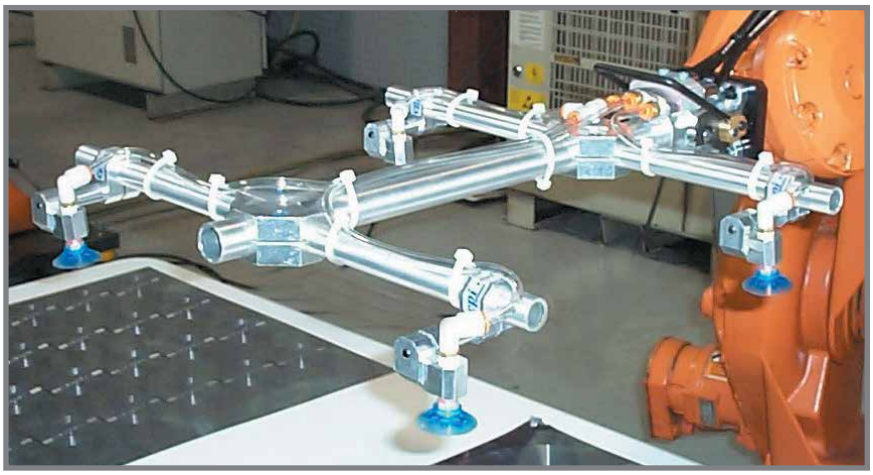
ROUND TOOLING SYSTEMS

Micro Round Tooling System Example

Most commonly used in:	
Applications	**Markets**
Pick and Place	Medical
Material Handling	Industrial
Plastic Injection	Consumer
Vision/Testing	Food and Packaging

The micro tooling system can be used with DESTACO's award winning, world's first electric vacuum cup.



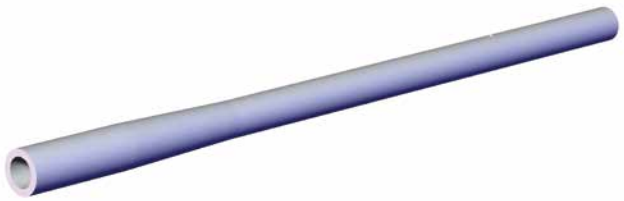


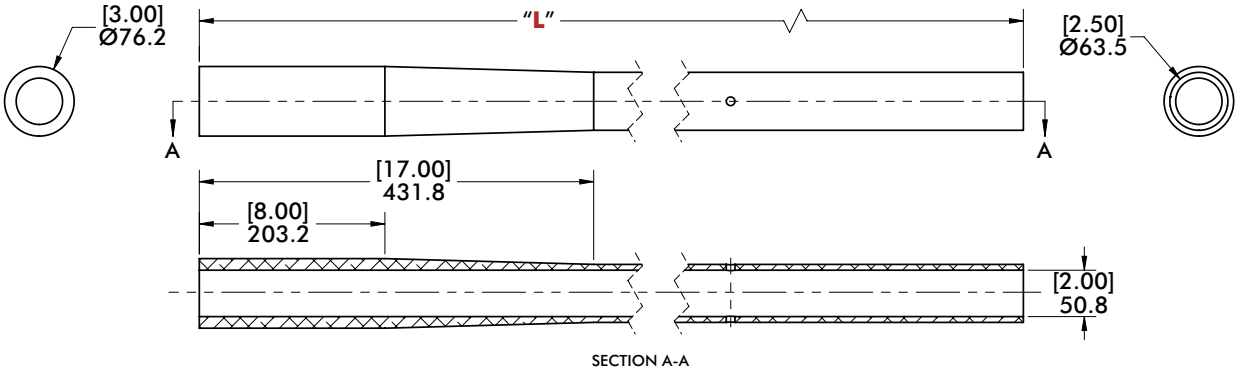
Micro round tooling systems can be permanently mounted to the robot with a direct mount or with manual or automatic tool changers. Optional quick disconnect air ports provides a simple connection point for air supply when changing between different tooling configurations.

WORLD TOOL BOOMS

Round Tooling | Dimensions | Technical Specifications

PAT Ø3.00" Tapered Aluminum Main Booms





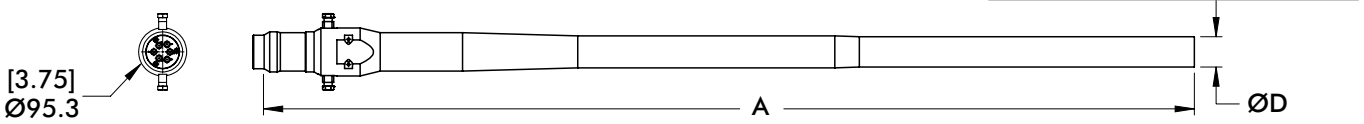
Model	"L"	Weight
CPI-PAT-30TP-**0M-1600**	[62.99] 1600.0	[13.43 lb] 6.09 kg
CPI-PAT-30TP-**0M-30**	[30.00] 762.0	[7.91 lb] 3.59 kg
CPI-PAT-30TP-**0M-34**	[34.00] 863.6	[8.58 lb] 3.89 kg
CPI-PAT-30TP-**0M-36**	[36.00] 914.4	[8.91 lb] 4.04 kg
CPI-PAT-30TP-**0M-60**	[60.00] 1524.0	[12.95 lb] 5.87 kg

Model	"L"	Weight
CPI-PAT-30TP-**1M-55**	[55.00] 1397.0	[12.08 lb] 5.48 kg
CPI-PAT-30TP-**1M-60**	[60.00] 1524.0	[12.95 lb] 5.87 kg
CPI-PAT-30TP-**1M-64**	[64.00] 1625.6	[13.60 lb] 6.17 kg
CPI-PAT-30TP-**2M-55**	[55.00] 1397.0	[12.08 lb] 5.48 kg

WTTB World Tool Bayonet Boom

Material: Aluminum

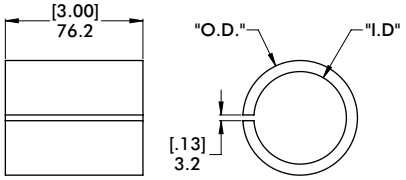
Part Number	ØD	A	Weight
CPI-WTTB-RDC-A6-EL10-60-2000	60mm	2000mm	9.3kg [20.50 lb]
CPI-WTTB-RDC-A6-EL10-25-64	2.5 in	64 in	8.0kg [17.60 lb]



CB Aluminum Bushing

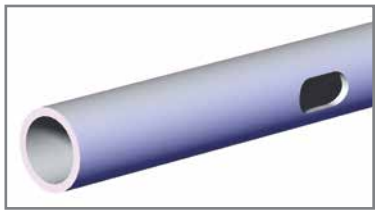
For use in cooperation with Clamp Blocks.

Model	(Ø)"O.D."	(Ø)"I.D."	Weight
CPI-CB-**15-10**	**1.50"**(in)	**1.00"**(in)	[.76 lb] .34 kg
CPI-CB-**20-15**	**2.00"**(in)	**1.50"**(in)	[.81 lb] .37 kg
CPI-CB-**25-20**	**2.50"**(in)	**2.00"**(in)	[.81 lb] .37 kg



Dimensions and technical information are subject to change without notice

BT1 Slotted Aluminum Boom/Tubing

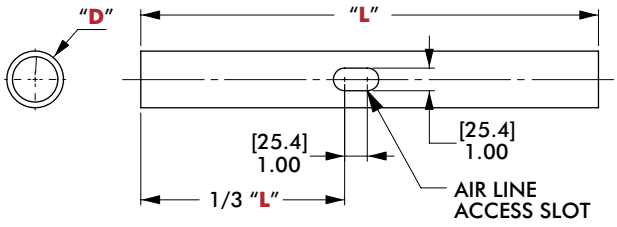


"L" = Specify Length

in 6.00" or 150mm Increments

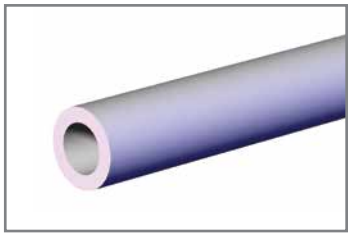
English Example:
CPI-BTI-150-7S-06 (6.00")

Metric Example:
CPI-BTI-150-7S-150 (150mm)



Model	(Ø) "D"	Wall Thickness	Weight	Linear Deflection	Torsional Twist
CPI-BT1-**150-7S**-"L"	**1.50"**(in)	[0.25"] 6.35mm	[1.2 lb/ft] 1.8 kg/m	5.6mm [0.22"] @ 100lb/24.00"	.3.1° @ 300ft-lbs
CPI-BT1-**250-9S**-"L"	**2.50"**(in)	[0.25"] 6.35mm	[2.1 lb/ft] 3.1 kg/m	12.7mm [0.50"] @ 150lb/48.00"	2.3° @ 600ft-lbs
CPI-BT1-**2538-9S**-"L"	**2.50"**(in)	[0.375"] 9.53mm	[2.9 lb/ft] 4.3 kg/m	10.2mm [0.40"] @ 150lb/48.00"	1.8° @ 600ft-lbs
CPI-BT1-**60-9S**-"L" (Metric)	**60mm**	[0.20"] 5mm	[1.6 lb/ft] 2.4 kg/m	17.8mm [0.70"] @ 150lb/48.00"	3.3° @ 600ft-lbs

PAT Aluminum Tubing

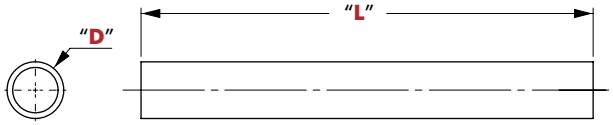


"L" = Specify Length

in 6.00" or 150mm Increments

English Example:
CPI-PAT-15-06 (6.00")

Metric Example:
CPI-PAT-40-150 (150mm)

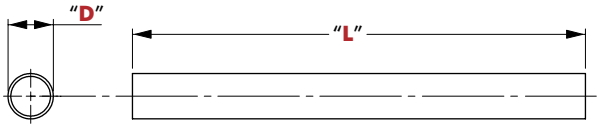


Model	(Ø) "D"	Wall Thickness	Weight	Linear Deflection	Torsional Twist
CPI-PAT-**1025**-"L"	**1.00"**(in)	[0.25"] 6.35mm	[0.7 lb/ft] 1.02 kg/m	1.5mm [0.06"] @ 50lb/12.00"	2.4° @ 100ft-lbs
CPI-PAT-**12**-"L"	**1.25"**(in)	[0.25"] 6.35mm	[0.9 lb/ft] 1.37kg/m	3.3mm [0.13"] @ 75lb/18.00"	1.6° @ 100ft-lbs
CPI-PAT-**15**-"L"	**1.50"**(in)	[0.25"] 6.35mm	[1.2 lb/ft] 1.8 kg/m	5.6mm [0.22"] @ 100lb/24.00"	.3.1° @ 300ft-lbs
CPI-PAT-**40**-"L" (Metric)	**40mm**	[0.20"] 5mm	[1.2 lb/ft] 1.8 kg/m	5.6mm [0.22"] @ 100lb/24.00"	3.2° @ 300ft-lbs
CPI-PAT-**25**-"L"	**2.50"**(in)	[0.25"] 6.35mm	[2.1 lb/ft] 3.1 kg/m	12.7mm [0.50"] @ 150lb/48.00"	2.3° @ 600ft-lbs
CPI-PAT-**60**-"L" (Metric)	**60mm**	[0.20"] 5mm	[1.6 lb/ft] 2.4 kg/m	17.8mm [0.70"] @ 150lb/48.00"	3.3° @ 600ft-lbs
CPI-PAT-**2538**-"L"	**2.50"**(in)	[0.375"] 9.53mm	[2.9 lb/ft] 4.3 kg/m	10.2mm [0.40"] @ 150lb/48.00"	1.8° @ 600ft-lbs

TUBING, RODS AND BUSHINGS

Round Tooling | Dimensions | Technical Specifications

PAT Thin Wall Aluminum Tubing

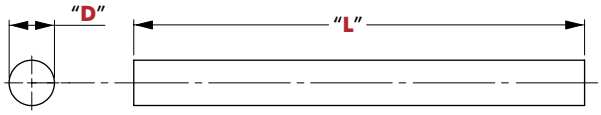


Model	(Ø)"O.D."	Wall Thickness	Weight
CPI-PAT-**50T**-"L"	**0.50"**(in)	[0.085"] 2.16mm	[0.13 lb/ft] 193.0 g/m
CPI-PAT-**75T**-"L"	**0.75"**(in)	[0.085"] 2.16mm	[0.20 lb/ft] 309.3 g/m
CPI-PAT-**10T**-"L"	**1.00"**(in)	[0.085"] 2.16mm	[0.28 lb/ft] 425.6 g/m

"L" = Specify Length

Standard Lengths
04 (4.00")
06 (6.00")
08 (8.00")
10 (10.00")
12 (12.00")
24 (24.00")
36 (36.00")

PAB Aluminum Rods

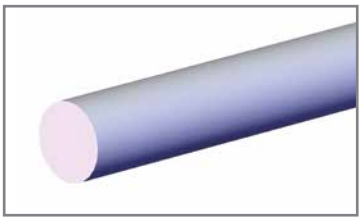


"L" = Specify Length

in 6.00" or 150mm Increments

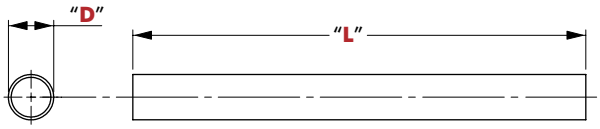
English Example:
CPI-PAB-10-06 (6.00")

Metric Example:
CPI-PAB-25-150 (150mm)



Model	(Ø) "D"	Wall Thickness	Weight	Linear Deflection	Torsional Twist
CPI-PAB-**10**-"L"	**1.00"**(in)	SOLID BAR	[0.9 lb/ft] 1.4 kg/m	1.52mm [0.06"] @ 50lb/12.00"	.002° @ 100ft-lb
CPI-PAB-**25**-"L" (Metric)	**25.0mm**	SOLID BAR	[0.9 lb/ft] 1.4 kg/m	1.52mm [0.06"] @ 50lb/12.00"	.002° @ 100ft-lb

PST Steel Tubing



(L) = Specify Length

PST-10: 150, 200, 225, 250, 275, 300 [mm] *(CPI-PST-10-150)*
PST-1212: 6, 8, 10, 12, 14, 16, 18 [in] *(CPI-PST-1212-6)*
M1512: 125, 160, 300, 350, 350, 600, 900 [mm] *(M1512-150)*

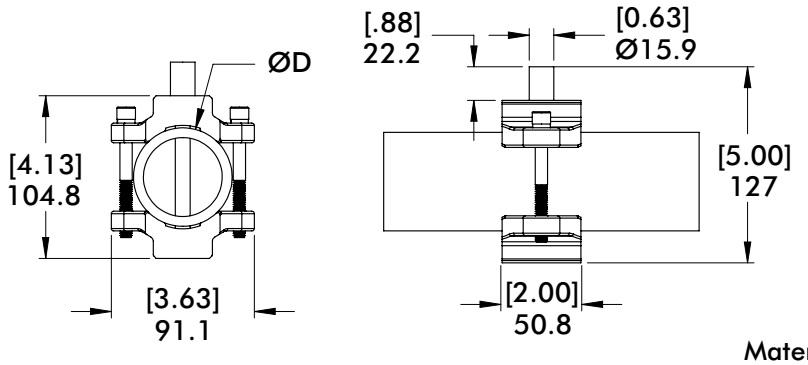
Model	(Ø) "D"	Wall Thickness	Weight	Linear Deflection	Torsional Twist
CPI-PAB-**10**-"L"	**1.00"**(in)	3.18mm [0.125"]	1.8 kg/m [1.2 lb/ft]	0.9mm [0.003"] @ 50lb/12.00"	.001° @ 100ft-lb
CPI-PAB-**25**-"L" (Metric)	**1.25"**(in)	3.18mm [0.125"]	2.2 kg/m [1.5 lb/ft]	0.3mm [0.001"] @ 50lb/12.00"	.001° @ 100ft-lb

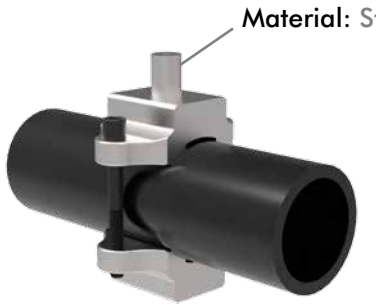
Model	(Ø)"O.D."	Wall Thickness	Weight
M1512-"L"	**1.00"**(in)	3.0mm [0.12"]	1.5 kg/m [1.03 lb/ft]

Dimensions and technical information are subject to change without notice

SINGLE MUSHROOM TOOL HOLDER

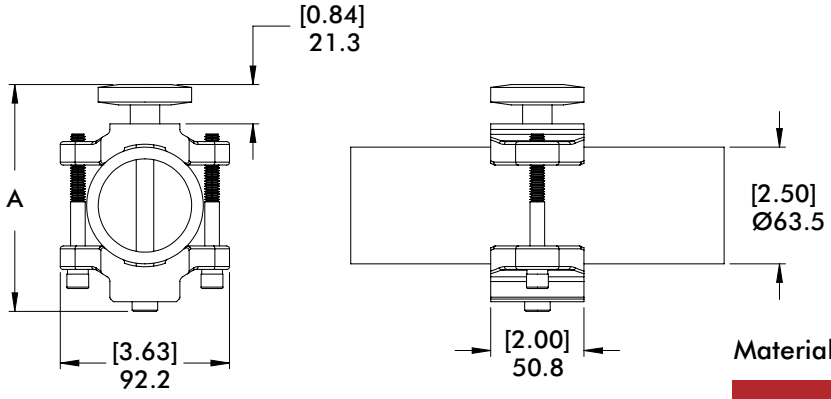
Round Tooling | Dimensions

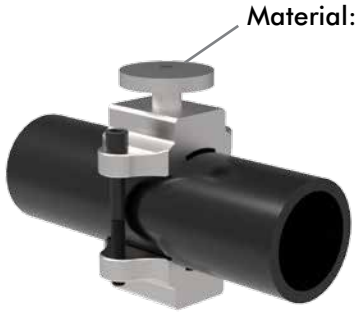




Material: Aluminum

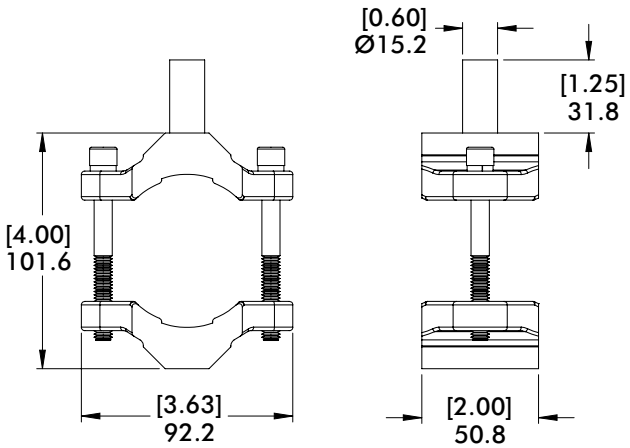
Model Number	ØD	Weight
CPI-THM-250-POST	2.5 in	499g [1.10 lb]
CPI-THM-60-POST	60mm	499g [1.10 lb]

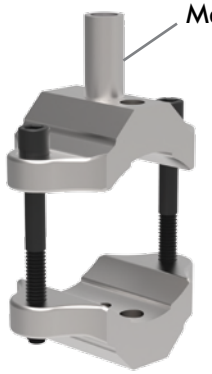




Material: Aluminum

Model Number	A	Weight
CPI-THM-250	122.7 [4.83]	635g [1.40 lb]
CPI-THM-250-WTTB	127 [5.00]	590g [1.30 lb]





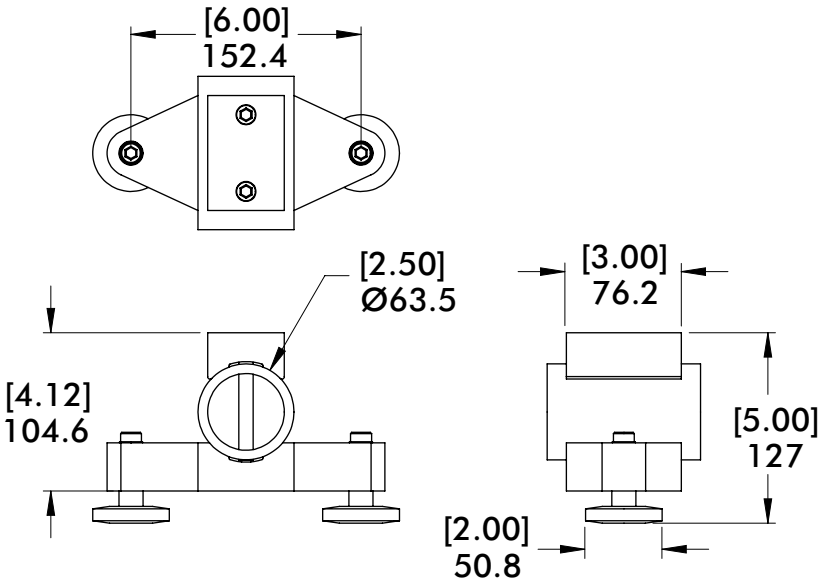
Material: Aluminum

Model Number	Weight
CPI-THM-250-SVP	408g [0.90 lb]

DOUBLE MUSHROOM TOOL HOLDER

Round Tooling | Dimensions

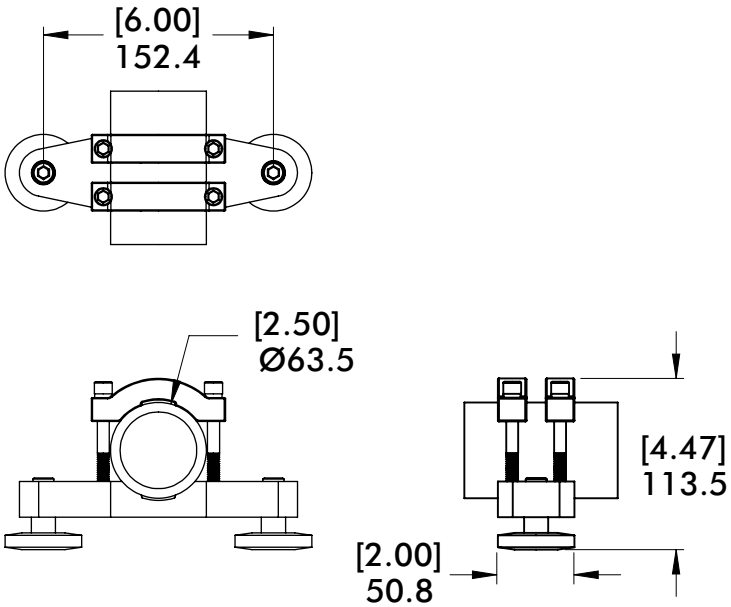
Material: Steel



Material: Aluminum

Model Number	Weight
CPI-THM-250-DBL	1.54g [3.40 lb]

Material: Steel



Material: Aluminum

Model Number	Weight
CPI-THM-250-DBL-WTTB	1.09g [2.40 lb]

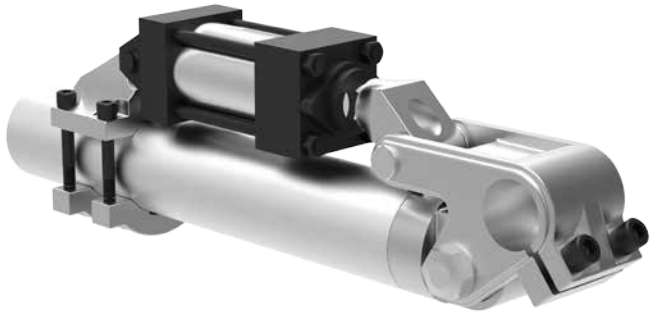
Dimensions and technical information are subject to change without notice

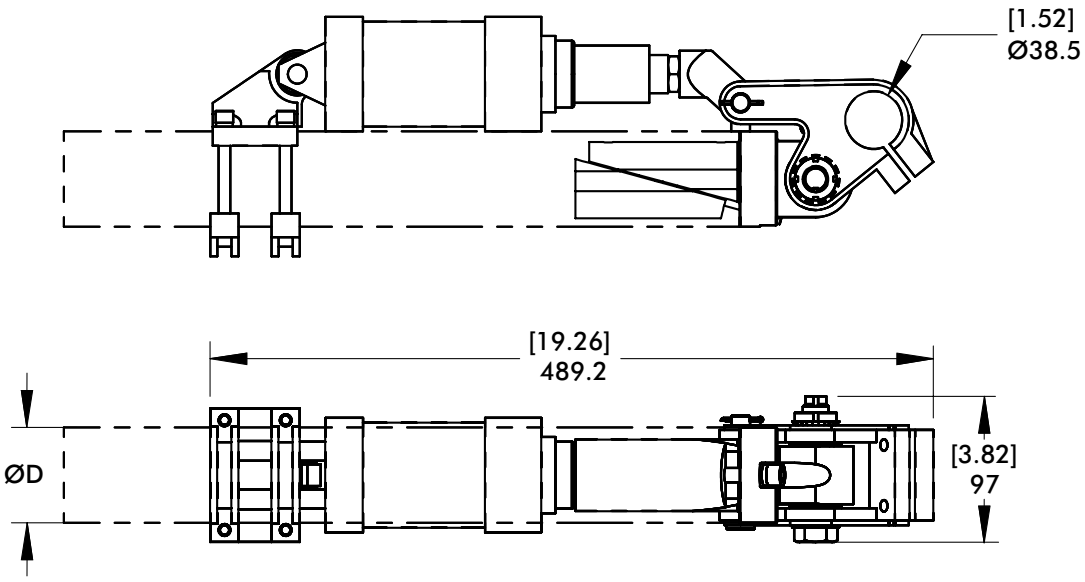
WRIST ROTATE ASSEMBLY

Round Tooling | Dimensions | Technical Specifications

Features:

- These self-contained tip units are designed for use with dual-axis loaders and unloaders.
- The amount of rotation can be adjusted with the use of a cylinder stop tube.
- The unique wedge-lock uses frictional force to secure the unit within the tubing. (U.S. Patent No. 5,411,232)
  * Rotation is controlled by adjusting the length of a stop tube and limiting the stroke of the cylinder
- A rod extension is used to move the cylinder away from the rotate point. To order the rod extension separately, the part number is CPI-CRE-10-[Length]





Model Number	ØD	Weight
CPI-WRWM-45	60mm	[8.5 lb] 3.9 kg
CPI-WRWM-90	60mm	[10.5 lb] 4.8 kg

CPI – WRWM – ☐ – 60 – ☐

Base Model
WRWM
Wrist Rotate Assembly (Metric Version)

Rotation

45	0° - 45°
90	0° - 90°

Cylinder Bore

00	No Cylinder Provided
50	50 mm
60	60 mm

Model Number	ØD	Weight
CPI-WRW-45	2.50 in	[8.5 lb] 3.9 kg
CPI-WRW-90	2.50 in	[10.5 lb] 4.8 kg

CPI – WRW – ☐ – 25 – ☐

Base Model
WRW
Wrist Rotate Assembly

Rotation

45	0° - 45°
90	0° - 90°

Cylinder Bore

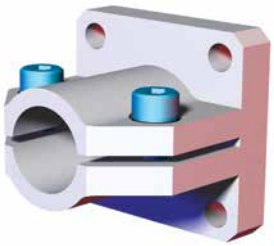
00	No Cylinder Provided
20	2.00"
25	2.50"

FLANGE END MOUNT BRACKET AND BLOCKS

Round Tooling | Dimensions | Technical Specifications

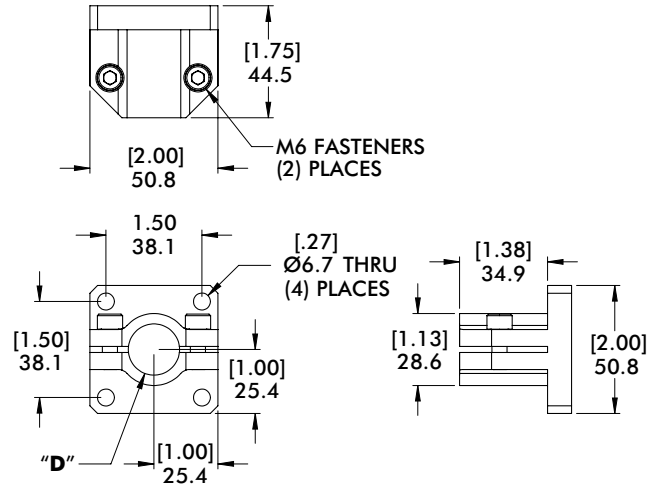
Nominal (Ø) given
See chart on Page 72 for actual (Ø) size

CLM-xxx-15F End Flange Mount for Ø20mm/0.75" Tube (MIcro)

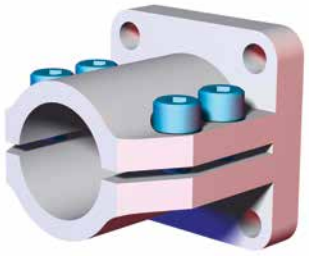


Specifications:
Max. Static Clamp Load:
20.3 N*m [15 ft-lb]
Material: Aluminum

Model Number	(Ø)"D"	Weight
CPI-CLM-**20M**-15F	**20mm**	[.26 lb] .12 kg
CPI-CLM-**75**-15F-**ATI**	**.75"**(in)	[.32 lb] .14 kg

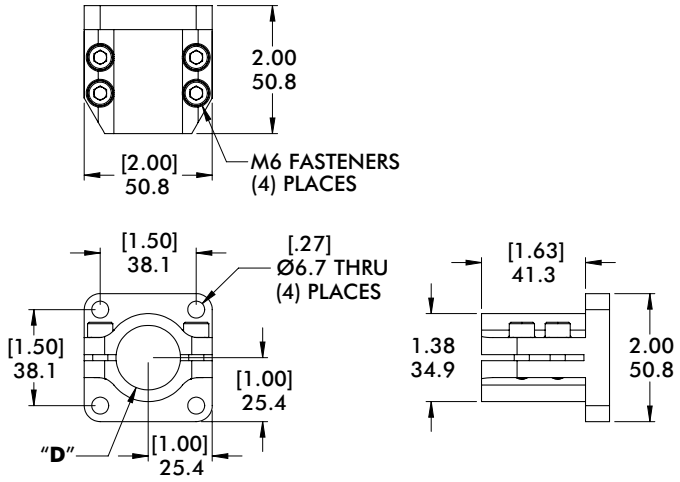


CLM-xxx-15F End Flange Mount for Ø25mm/1.00" Tube (Micro)

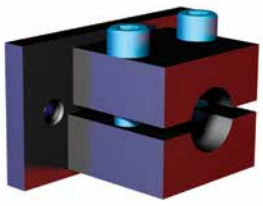


Specifications:
Max. Static Clamp Load:
40.7 N*m [30 ft-lb]
Material: Aluminum

Model Number	(Ø)"D"	Weight
CPI-CLM-**25M-15F**	**25mm**	[.32 lb] .14 kg
CPI-CLM-**10-15F**	**1.00"**(in)	

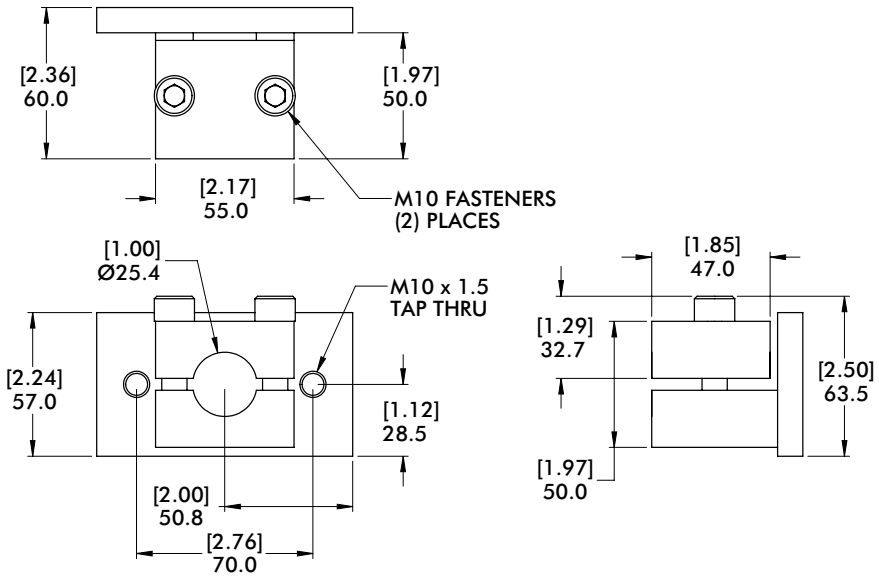


M1511 End Flange Mount for Ø1.00" Tube



Specifications:
Max. Static Clamp Load:
203 N*m [150 ft-lb]
Material: Aluminum

Model Number	Weight
M1511	[1.08 lb] .49 kg



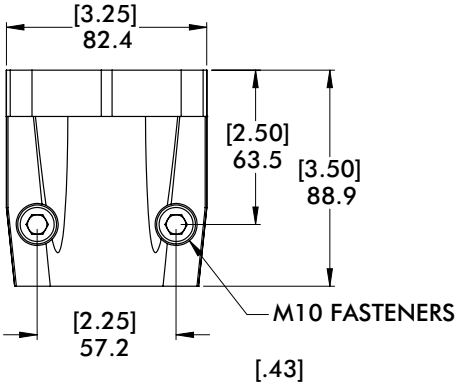
Dimensions and technical information are subject to change without notice

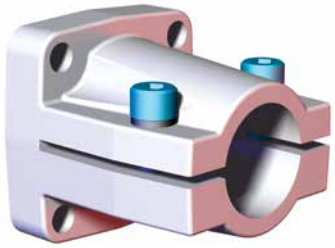
FLANGE END MOUNT BRACKET AND BLOCKS

Round Tooling | Dimensions | Technical Specifications

Nominal (Ø) given
See chart on Page 72 for actual (Ø) size

KL/CL End Flange Mount for Ø40mm/1.50" Tube

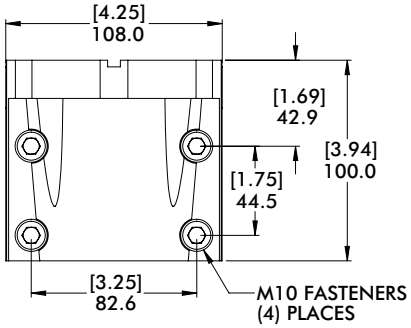


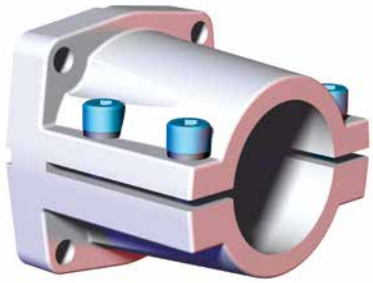


Specifications:
Max. Static Clamp Load:
203 N*m [150 ft-lb]
Material: Aluminum

Model Number	(Ø)"D"	Weight
CPI-**KL-40-60F**	**40mm**	[1.55 lb] .70 kg
CPI-**CL-15-238F**	**1.50"**(in)	[1.61 lb] .73 kg

KL/CL End Flange Mount for Ø60mm/2.50" Tube





Specifications:
Max. Static Clamp Load:
675 N*m [500 ft-lb]
Material: Aluminum

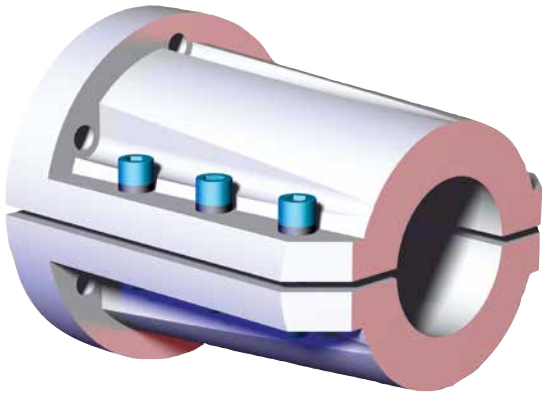
Model Number	(Ø)"D"	Weight
CPI-**KL-60-78F**	**60mm**	[2.73 lb] 1.24 kg
CPI-**CL-25-312F**	**2.50"**(in)	[2.52 lb] 1.14 kg

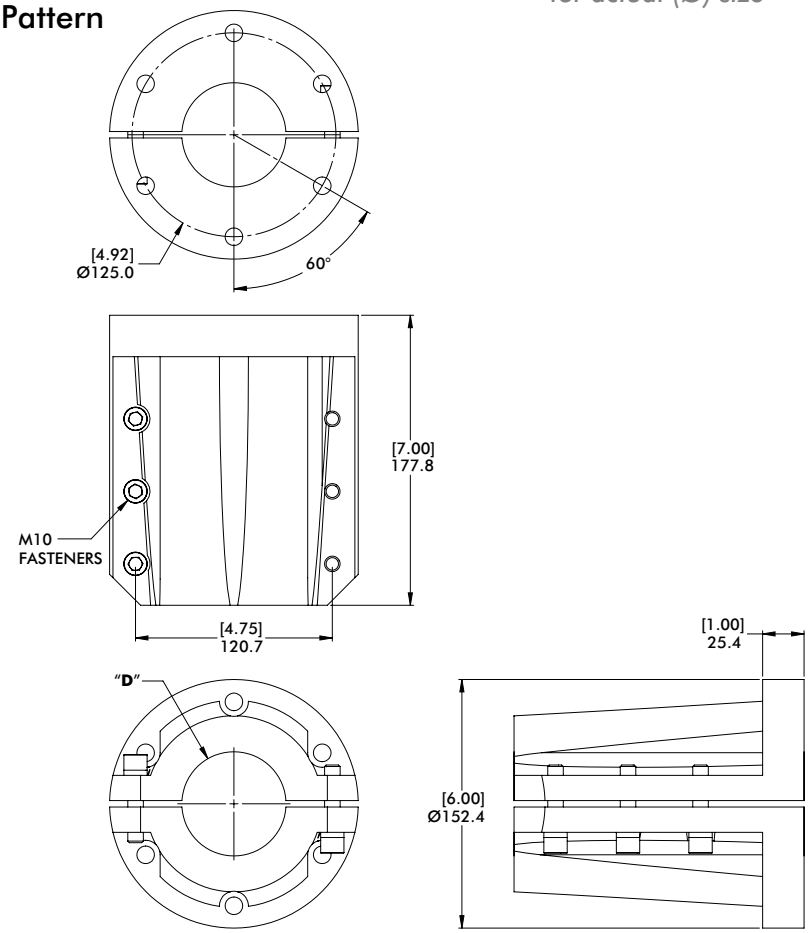
FLANGE END MOUNT BRACKET AND BLOCKS

Round Tooling | Dimensions | Technical Specifications

Nominal (Ø) given
See chart on Page 72 for actual (Ø) size

CL End Flange Mount with Ø125mm Bolt Pattern

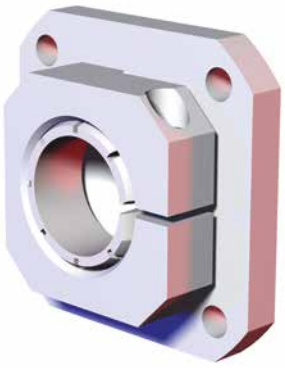


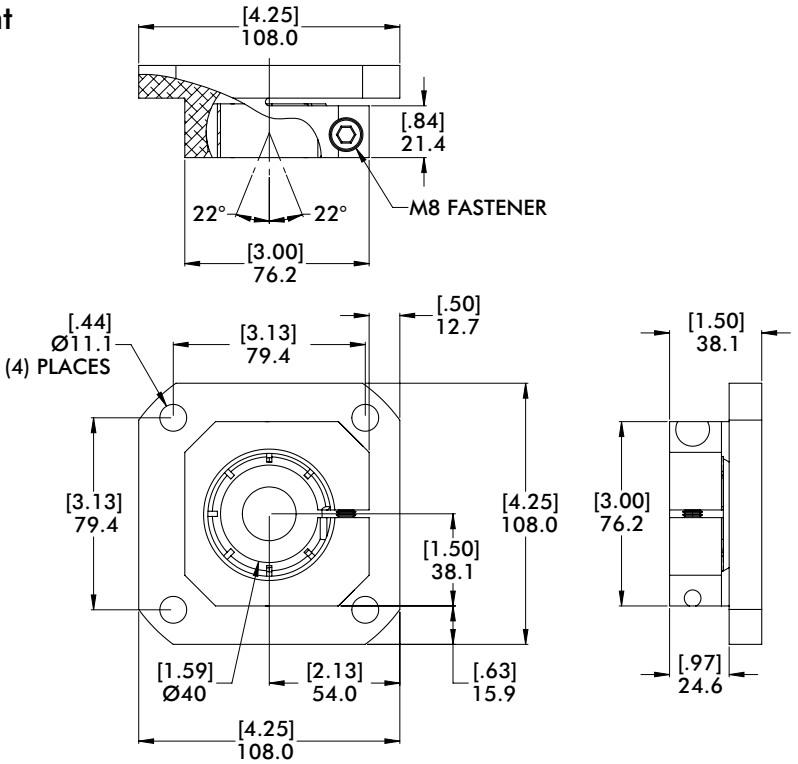


Specifications:
Max. Static Clamp Load:
746 N*m [550 ft-lb]
Material: Aluminum

Model Number	(Ø)"D"	Weight
CPI-CL-**60**-125F	**60mm**	[9.86 lb] 4.47 kg
CPI-CL-**250**-125F	**2.50"**(in)	[10.20 lb] 4.63 kg
CPI-CL-**300**-125F	**3.00"**(in)	[8.70 lb] 3.95 kg

RJM Ø40mm Spherical Flange End Mount





Specifications:
Max. Static Clamp Load:
203 N*m [150 ft-lb]
Material: Aluminum

Model Number	Weight
CPI-**RJM-78F-40S**	[1.54 lb] .70 kg

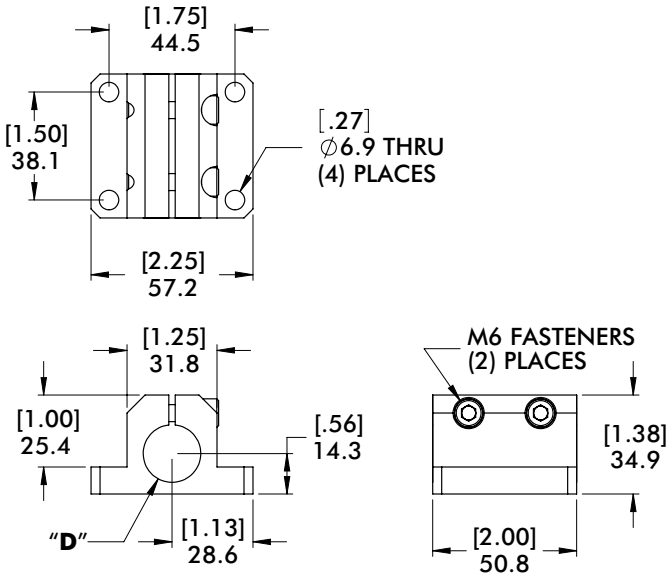
Dimensions and technical information are subject to change without notice

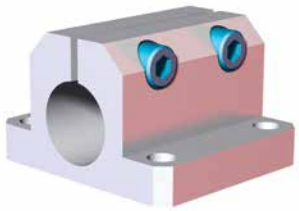
FLANGE MID MOUNT BRACKETS AND BLOCKS

Nominal (Ø) given
See chart on Page 72
for actual (Ø) size

Round Tooling | Dimensions | Technical Specifications

CLM-xxx-1517F-90 Mid Flange Mount for Ø20mm/0.75" Tube (Micro)

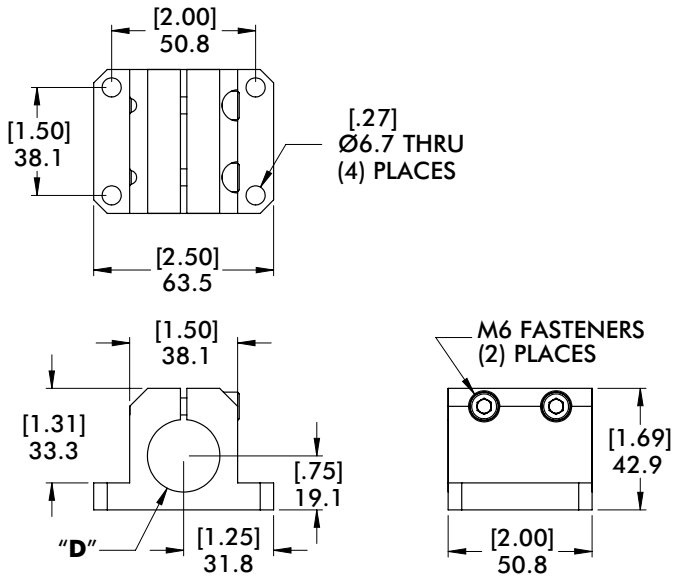


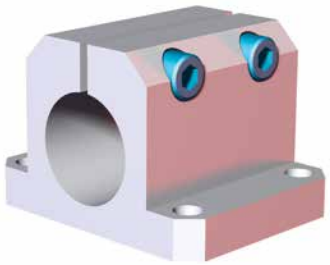


Specifications:
Max. Static Clamp Load:
47.5 N*m [35 ft-lb]
Material: Aluminum

Model Number	(Ø)"D"	Weight
CPI-**CLM-20M**-1517F-90	**20mm**	[.33 lb] .14 kg
CPI-**CLM-75**-1517F-90	**.75"**(in)	[.35 lb] .16 kg

CLM-xxx-152F-90 Mid Flange Mount for Ø25mm/1.00" Tube (Micro)





Specifications:
Max. Static Clamp Load:
81.4 N*m [60 ft-lb]
Material: Aluminum

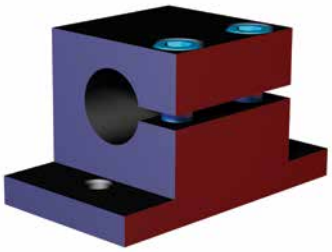
Model Number	(Ø)"D"	Weight
CPI-CLM-**25M**-152F-90	**25mm**	[.41 lb] .19 kg
CPI-CLM-**10**-152F-90	**1.00"**(in)	

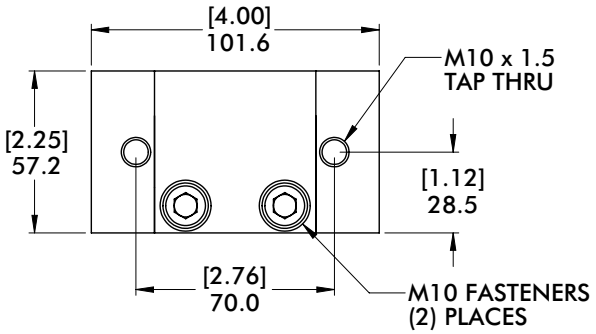
FLANGE MID MOUNT BRACKETS AND BLOCKS

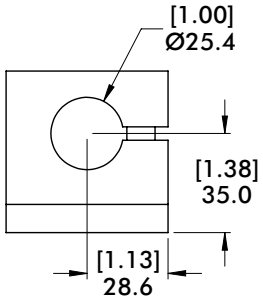
Round Tooling | Dimensions | Technical Specifications

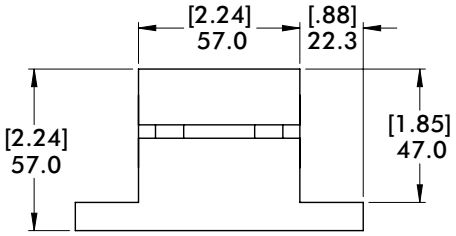
Nominal (Ø) given
See chart on Page 72 for actual (Ø) size

M-1509 Inline End Flange Mount for Ø1.00" Tube





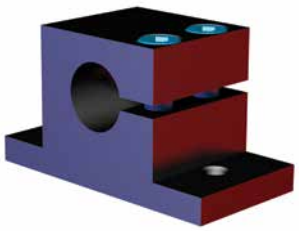


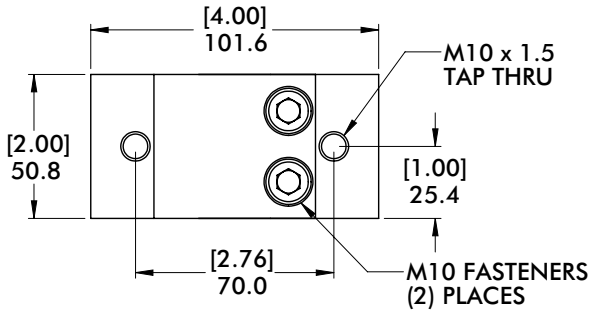


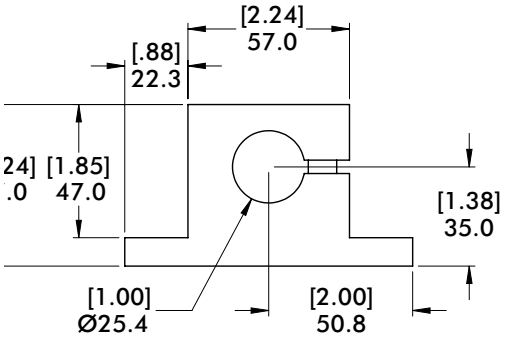
Specifications:
Max. Static Clamp Load:
203 N*m [150 ft-lb]
Material: Aluminum

Model Number	Weight
M1509	[.99 lb] .45 kg

M-1510 End Flange Mount for Ø1.00" Tube







Specifications:
Max. Static Clamp Load:
203 N*m [150 ft-lb]
Material: Aluminum

Model Number	Weight
M1510	[.87 lb] .39 kg

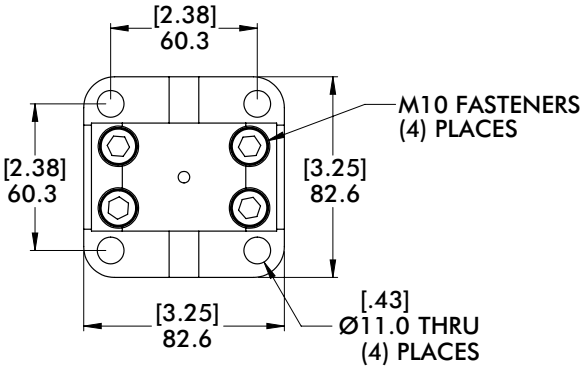
Dimensions and technical information are subject to change without notice

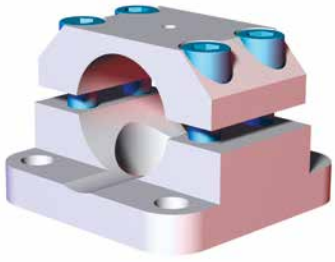
FLANGE MID MOUNT BRACKETS AND BLOCKS

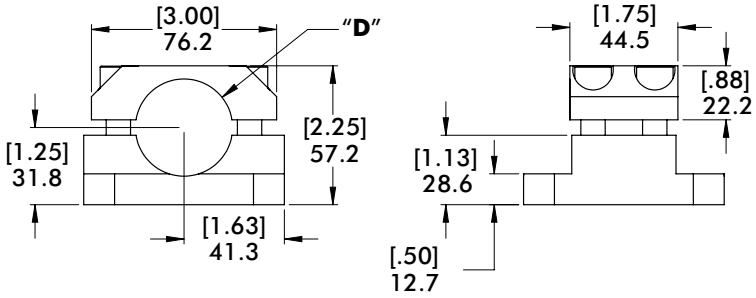
Nominal (Ø) given
See chart on Page 72
for actual (Ø) size

Round Tooling | Dimensions | Technical Specifications

CL-xx-xxxF-90 Mid Flange Mount for Ø40mm/1.50" Tube



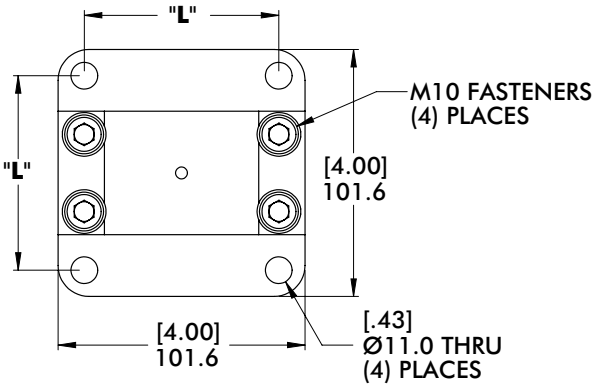


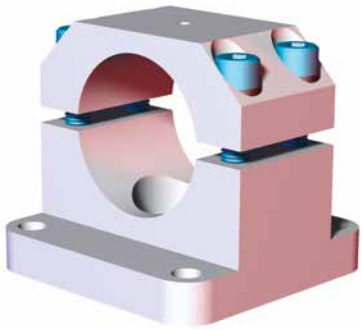


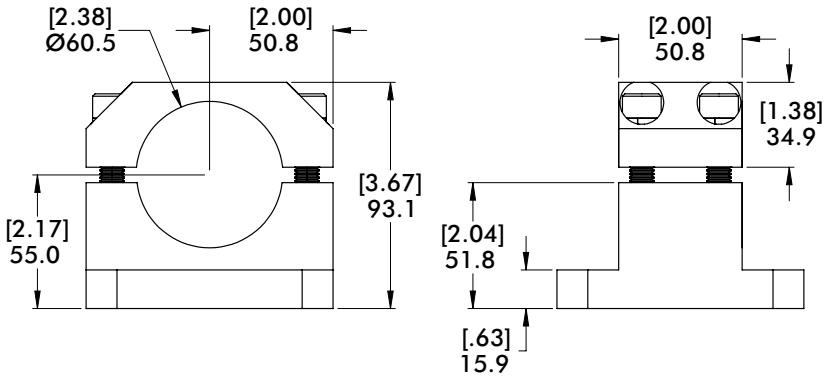
Specifications:
Max. Static Clamp Load:
475 N*m [350 ft-lb]
Material: Aluminum

Model Number	(Ø)"D"	Weight
CPI-**KL-40-60F**-90	**40mm**	[1.09 lb] .49 kg
CPI-**CL-15-238F**-90	**1.50"**(in)	[1.11 lb] .50 kg

KL-60-xxxF-90 Mid Flange Mount for Ø60mm Tube







Specifications:
Max. Static Clamp Load:
675 N*m [500 ft-lb]
Material: Aluminum

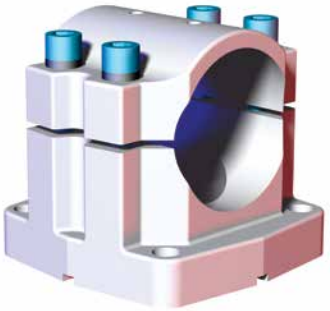
Model Number	"L"	Weight
CPI-KL-60-**78F**-90	[3.07] 78	[2.24 lb] 1.02 kg]
CPI-KL-60-**80F**-90	[3.15] 80	

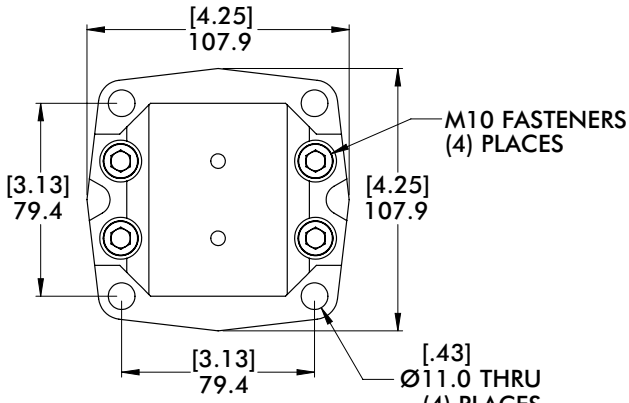
FLANGE MID MOUNT BRACKETS AND BLOCKS

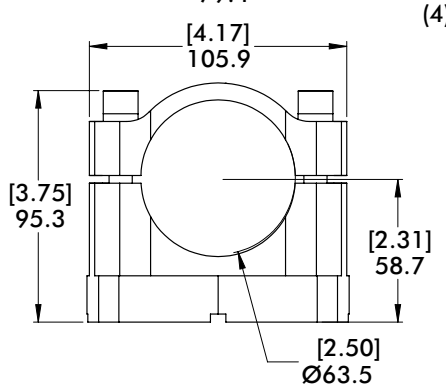
Round Tooling | Dimensions | Technical Specifications

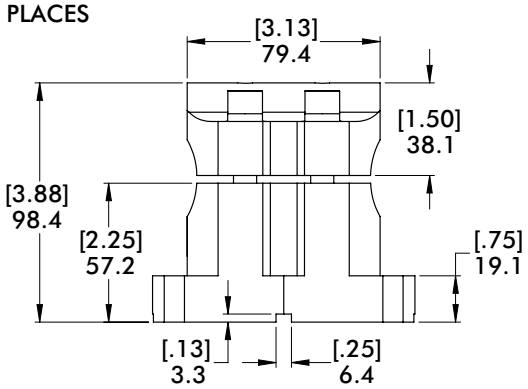
Nominal (Ø) given
See chart on Page 72 for actual (Ø) size

CL-25-312F-90 Mid Flange Mount for Ø2.50" Tube







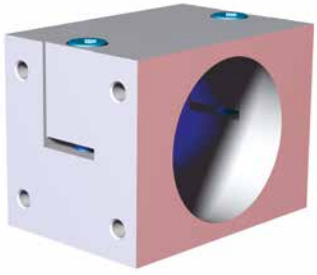


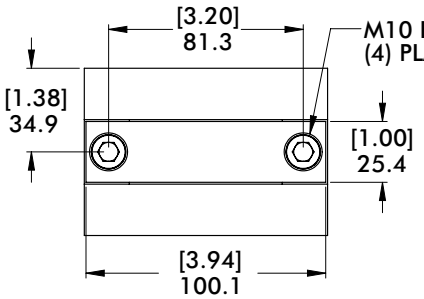
Specifications:
Max. Static Clamp Load:
675 N*m [500 ft-lb]
Material: Aluminum

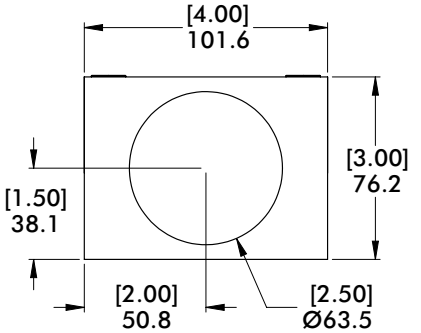
Model Number	Weight
CPI-**CL-25-312F-90**	[2.51 lb] 1.14 kg

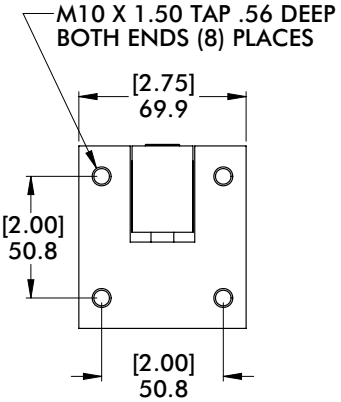
World Tool Direct Mounts

CL-xx-DM-10F Direct Mount Bracket for 2.50" Tube









Material: Aluminum

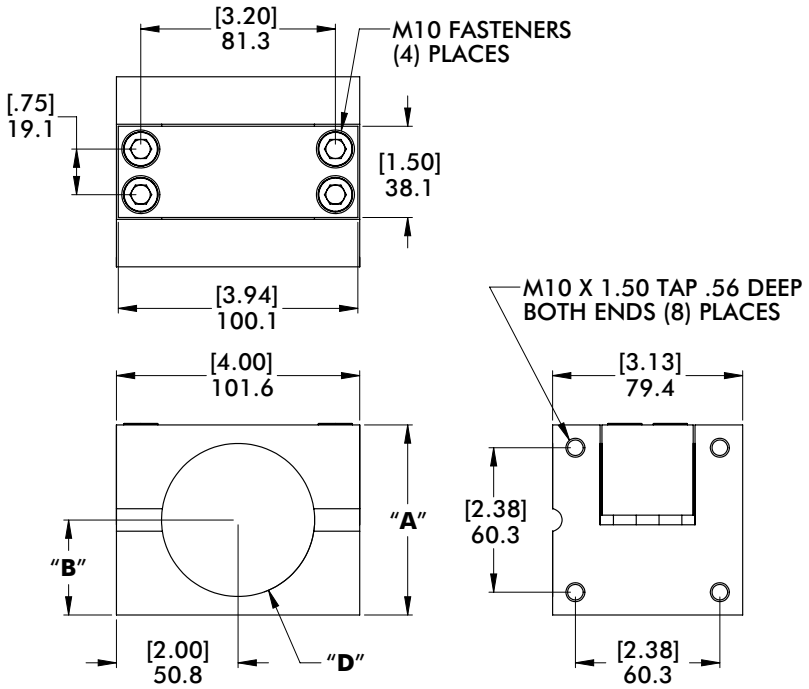
Model Number	Weight
CPI-**CL-25-DM-10F**	[1.89 lb] .86 kg

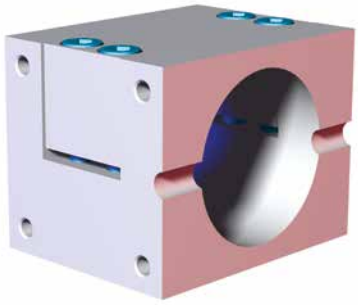
Dimensions and technical information are subject to change without notice

Nominal (Ø) given
See chart on Page 72
for actual (Ø) size

Round Tooling | Dimensions | Technical Specifications

CL-xx-DM-xxF Direct Mount Bracket for Ø60mm/2.50" Tube

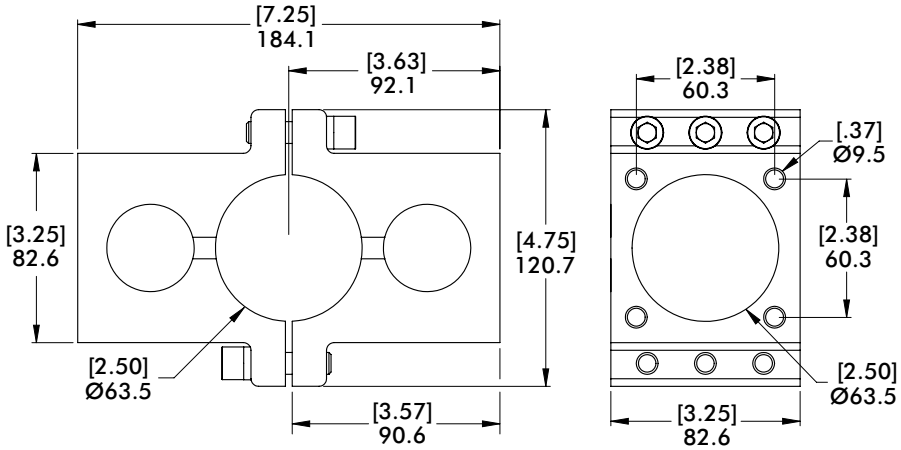


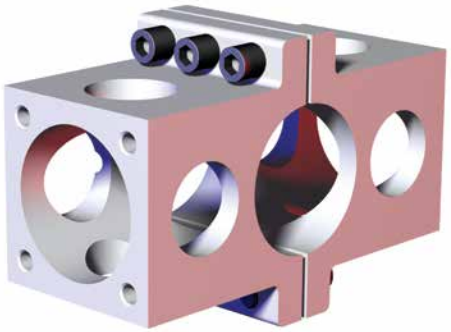


Material: Aluminum

Model Number	(Ø)"D"	A	B	Weight
CPI-CL-**60**-DM-**40F**	**60mm**	[3.25] 82.6	[1.63] 41.3	[2.49 lb] 1.13 kg
CPI-CL-**25**-DM-**15F**	**2.50"**(in)	[3.13] 79.4	[1.58] 39.7	[2.36 lb] 1.07 kg

CL-25EX-238F-90 Direct Mount Bracket for Ø2.50" Tube





Material: Aluminum

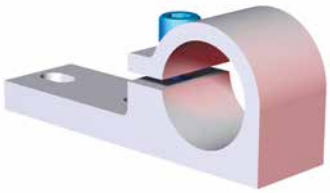
Model Number	Weight
CPI-**CL-25EX-238F-90**	[3.64 lb] 1.65 kg

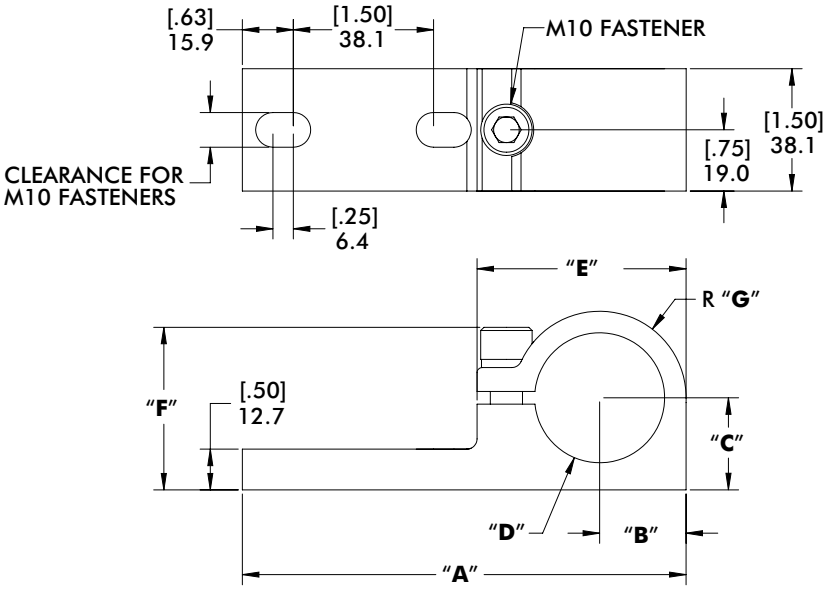
BASE MOUNT BLOCK

Round Tooling | Dimensions | Technical Specifications

Nominal (Ø) given
See chart on Page 72
for actual (Ø) size

BC-00-xxx Ø25mm/1.00" Tube/Ø40mm/1.50" Tube





Specifications:
Max. Static Clamp Load:
13.6 N*m [10 ft-lb]
Material: Aluminum

Model Number	(Ø)"D"	"A"	"B"	"C"	"E"	"F"	"G"	Weight
CPI-BC-00-**25**	**25mm**	[4.88] 124.0	[.75] 19.0	[.88] 22.4	[2.00] 50.8	[1.87] 47.6	[.75] 19.0	[.55 lb] .25 kg
CPI-BC-00-**100**	**1.00"**(in)							
CPI-BC-00-**40**	**40mm**	[5.44] 138.2	[1.06] 26.9	[1.13] 28.7	[2.56] 65.1	[2.11] 53.6	[1.06] 26.9	[.67 lb] .30 kg
CPI-BC-00-**150**	**1.50"**(in)							

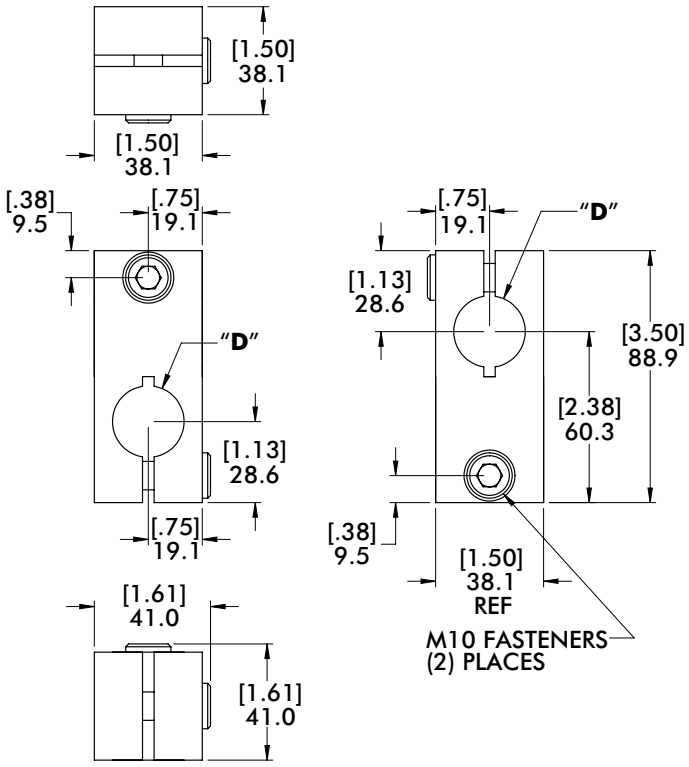
Dimensions and technical information are subject to change without notice

CROSS TRANSITION BRACKETS AND BLOCKS

Nominal (Ø) given
See chart on Page 72
for actual (Ø) size

Round Tooling | Dimensions | Technical Specifications

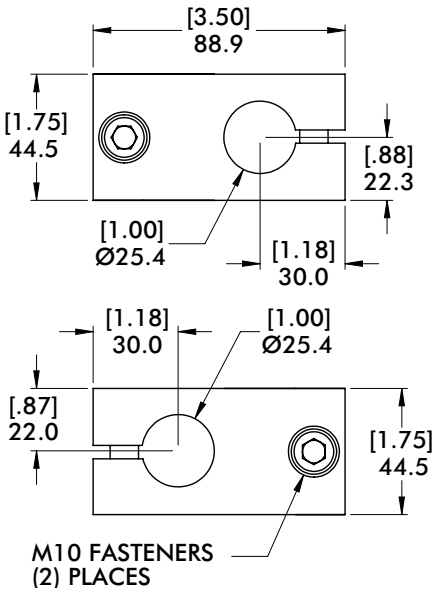
SC-xx-xx Ø25mm/1.00" to Ø25mm/1.00" (Single Bolt)



Specifications:
Max. Static Clamp Load:
162 N*m [120 ft-lb]
Material: Aluminum

Model Number	(Ø)"D"	Weight	Finish
CPI-SC-**25-25**	**25mm**	[.60 lb] .27 kg	SILVER
CPI-SC-**25-25-BL**	**25mm**		BLUE
CPI-SC-**1010**	**1.00"**(in)		SILVER

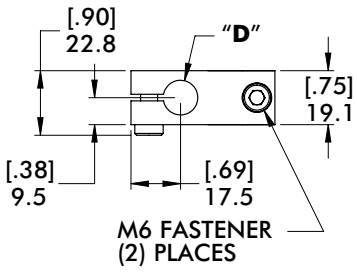
M1513 Ø1.00" to Ø1.00"

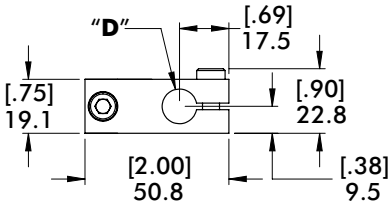


Specifications:
Max. Static Clamp Load:
203 N*m [150 ft-lb]
Material: Aluminum

Model Number	Weight
M1513	[.82 lb] .37 kg

CLM Ø12mm/.50" to Ø12mm/.50"





Specifications:
Max. Static Clamp Load:
13.6 N*m [10 ft-lb]
Material: Aluminum

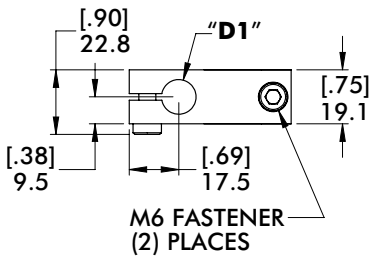
Model Number	(Ø)"D"	Weight
CPI-CLM-**12M-12M**	**12mm**	[.10 lb] .05 kg
CPI-CLM-**50-50**	**.50"**(in)	

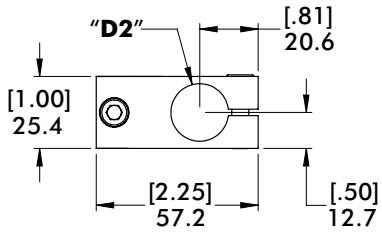
CROSS TRANSITION BRACKETS AND BLOCKS

Round Tooling | Dimensions | Technical Specifications

Nominal (Ø) given
See chart on Page 72
for actual (Ø) size

CLM Ø20mm/.75" to Ø12mm/.50"

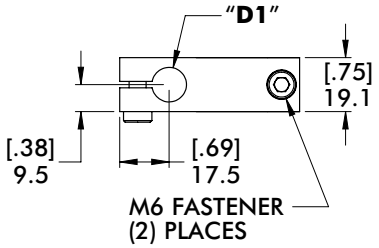


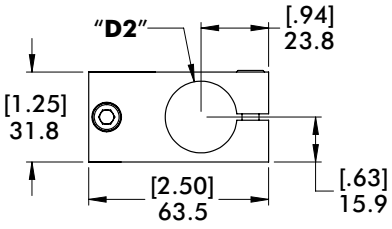


Specifications:
Max. Static Clamp Load:
Ø20mm/.75":
20.3 N*m [15 ft-lb]
Ø12mm/.50":
13.6 N*m [10 ft-lb]
Material: Aluminum

Model Number	(Ø)"D1"	(Ø)"D2"	Weight
CPI-CLM-**20M-12M**	**12mm**	**20mm**	[13 lb] .06 kg
CPI-CLM-**75-50**	**.50"**(in)	**.75 in**	

CLM Ø25mm/1.00" to Ø12mm/.50"

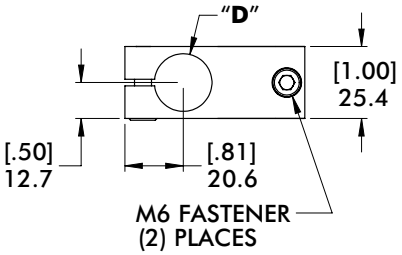


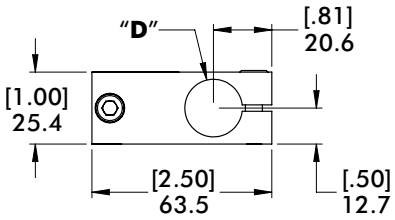


Specifications:
Max. Static Clamp Load:
Ø25mm/1.00":
67.8 N*m [50 ft-lb]
Ø12mm/.50":
13.6 N*m [10 ft-lb]
Material: Aluminum

Model Number	(Ø)"D1"	(Ø)"D2"	Weight
CPI-CLM-**25M-12M**	**12mm**	**25mm**	[.08 lb] .17 kg
CPI-CLM-**10-50**	**.50"**(in)	**1.00"**(in)	

CLM Ø20mm/.75" to Ø20mm/.75"

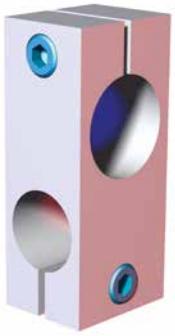


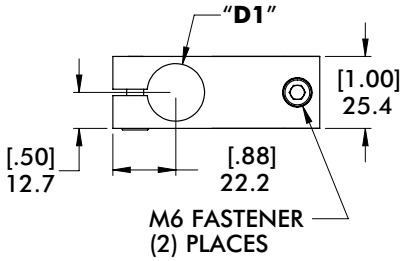


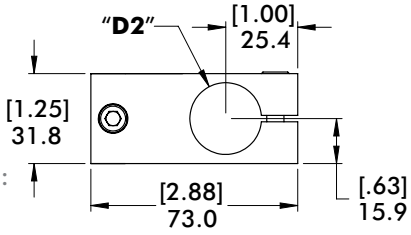
Specifications:
Max. Static Clamp Load:
20.3 N*m
[15 ft-lb]

Model Number	(Ø)"D"	Weight
CPI-CLM-**20M-20M** Material: Aluminum	**20mm**	[.16 lb] .07 kg
CPI-CLM-**20M-20M-ST** Material: Steel	**20mm**	[.40 lb] .18 kg
CPI-CLM-**75-75** Material: Aluminum	**.75"**(in)	[.17 lb] .08 kg

CLM Ø25mm/1.00" to Ø20mm/.75"







Specifications:
Max. Static Clamp Load:
Ø25mm/1.00":
67.8 N*m [50 ft-lb]
Ø20mm/.75":
20.3 N*m [15 ft-lb]
Material: Aluminum

Model Number	(Ø)"D1"	(Ø)"D2"	Weight
CPI-CLM-**25M-20M**	**20mm**	**25mm**	[.23 lb] .11 kg
CPI-CLM-**10-75**	**.75"**(in)	**1.00"**(in)	

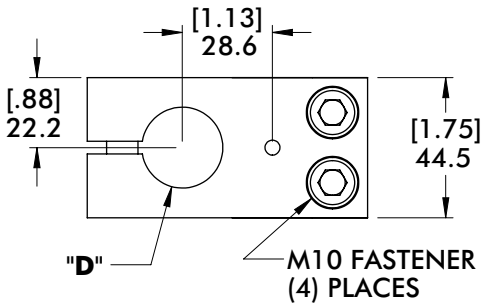
Dimensions and technical information are subject to change without notice

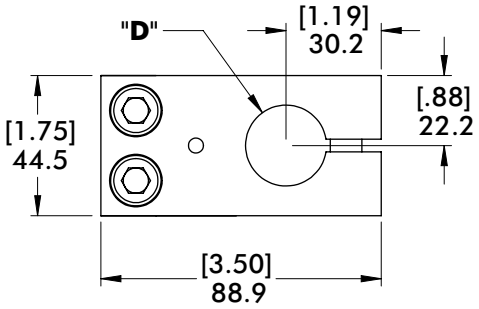
CROSS TRANSITION BRACKETS AND BLOCKS

Nominal (Ø) given
See chart on Page 72
for actual (Ø) size

Round Tooling | Dimensions | Technical Specifications

M-xxx-xxx-M Ø25mm/1.00" to Ø25mm/1.00" (Double Bolt)

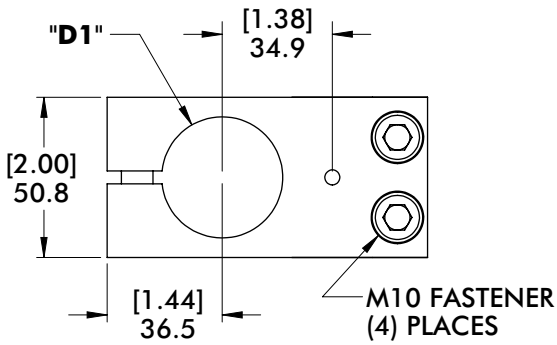


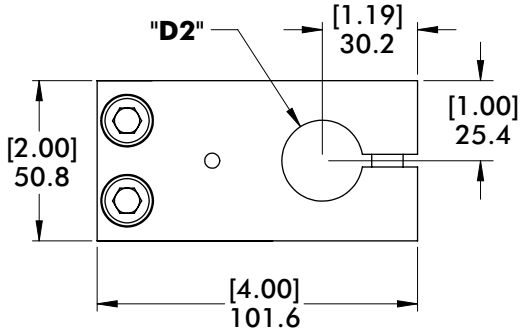


Specifications:
Max. Static Clamp Load:
Ø25mm/1.00":
434 N*m [320 ft-lb]
Material: Aluminum

Model Number	(Ø)"D"	Weight	Finish
M-**25M-25M**-M	**25mm**	[.93 lb] .42 kg	**BLUE**
M-**10E-10E**-M	**1.00"**(in)		**BLACK**

M-xxx-xxx-M Ø40mm/1.25"/1.50" to Ø25mm/1.00" (Double Bolt)





Specifications:
Max. Static Clamp Load:
Ø25mm/1.00":
434 N*m [320 ft-lb]
Ø40mm/1.50":
624 N*m [460 ft-lb]
Material: Aluminum

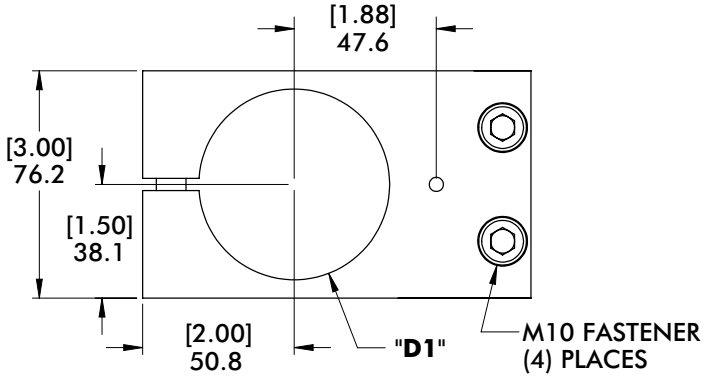
Model Number	(Ø)"D1"	(Ø)"D2"	Weight	Finish
M-**10E-12E**-M	**1.25"**(in)	**1.00"**(in)	[1.29 lb] .58 kg	**BLACK**
M-**10E-15E**-M	**1.50"**(in)	**1.00"**(in)	[1.18 lb] .54 kg	**BLACK**
M-**25M-40M**-M	**40mm**	**25mm**		**BLUE**

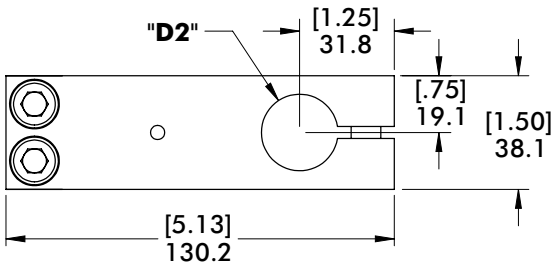
CROSS TRANSITION BRACKETS AND BLOCKS

Round Tooling | Dimensions | Technical Specifications

Nominal (Ø) given
See chart on Page 72 for actual (Ø) size

M-xxx-xxx-M Ø60mm/2.50" to Ø25mm/1.00" (Double Bolt)

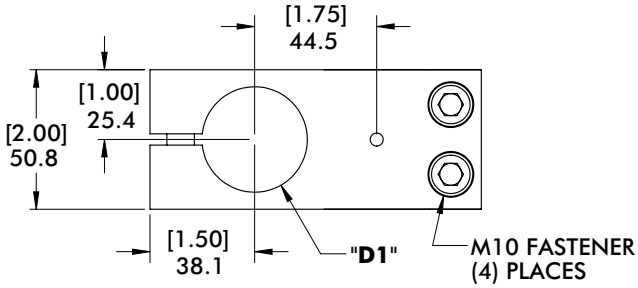


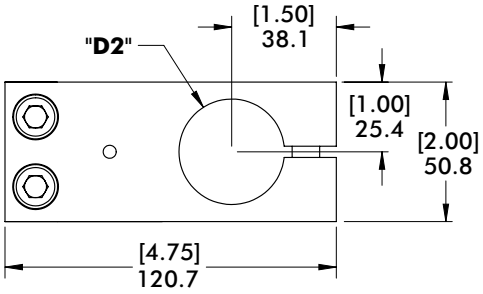


Specifications:
Max. Static Clamp Load:
Ø25mm/1.00":
434 N*m [320 ft-lb]
Ø60mm/2.50":
813 N*m [600 ft-lb]
Material: Aluminum

Model Number	(Ø)"D1"	(Ø)"D2"	Weight	Finish
M-**25M-60M**-M	**60mm**	**25mm**	[1.52 lb] .69 kg	**BLUE**
M-**10E-25E**-M	**2.50"**(in)	**1.00"**(in)	[1.44 lb] .65 kg	**BLACK**

M-xxx-xxx-M Ø40mm/1.25"/1.50" to Ø40mm/1.25"/1.50" (Double Bolt)





Specifications:
Max. Static Clamp Load:
Ø1.25":
515 N*m [380 ft-lb]
Ø40mm/1.50":
624 N*m [460 ft-lb]
Material: Aluminum

Model Number	(Ø)"D1"	(Ø)"D2"	Weight	Finish
M-**12E-12E**-M	**1.25"**(in)	**1.25"**(in)	[1.51 lb] .69 kg	**BLACK**
M-**12E-15E**-M	**1.25"**(in)	**1.50"**(in)	[1.41 lb] .64 kg	**BLACK**
M-**15E-15E**-M	**1.50"**(in)	**1.50"**(in)	[1.31 lb] .59 kg	**BLACK**
M-**40M-40M**-M	**40mm**	**40mm**	[1.23 lb] .56 kg	**BLUE**

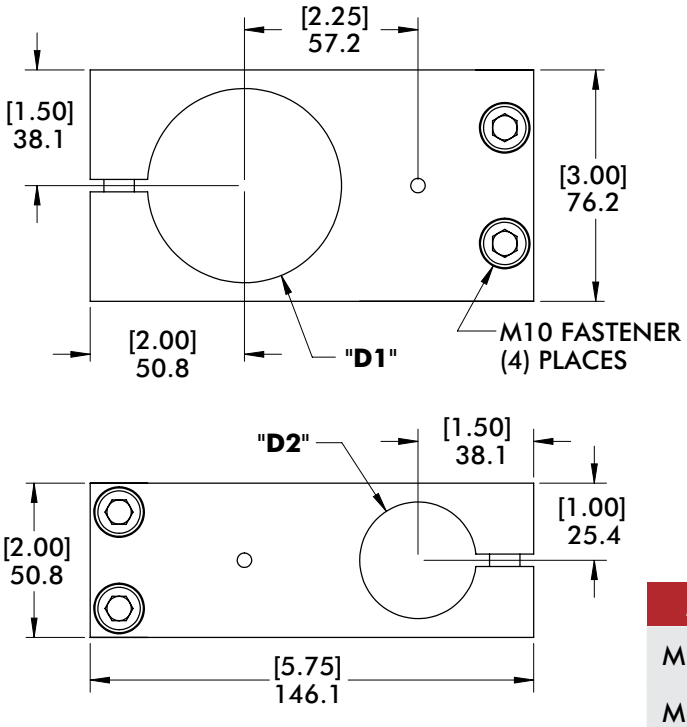
Dimensions and technical information are subject to change without notice

CROSS TRANSITION BRACKETS AND BLOCKS

Nominal (Ø) given
See chart on Page 72
for actual (Ø) size

Round Tooling | Dimensions | Technical Specifications

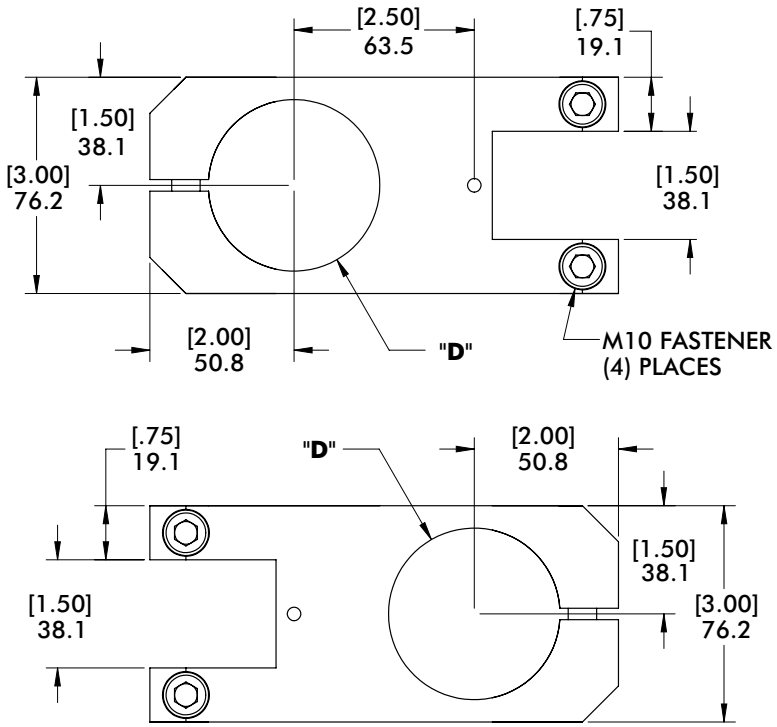
M-xxx-xxx-M Ø60mm/2.50 to Ø40mm/1.50" (Double Bolt)

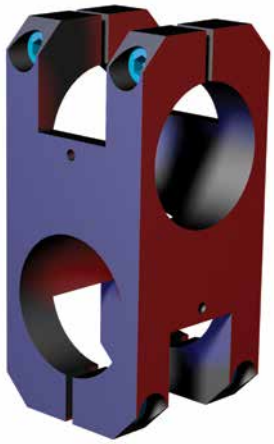


Specifications:
Max. Static Clamp Load:
Ø40mm/1.50":
624 N*m [460 ft-lb]
Ø60mm/2.50":
813 N*m [600 ft-lb]
Material: Aluminum

Model Number	(Ø)"D1"	(Ø)"D2"	Weight	Finish
M-**40M-60M**-M	**60mm**	**40mm**	[2.08 lb] .95 kg	**BLUE**
M-**15E-25E**-M	**2.50"**(in)	**1.50"**(in)		**BLACK**

M-xxx-xxx-M Ø60mm/2.50" to Ø60mm/2.50" (Double Bolt)





Specifications:
Max. Static Clamp Load:
813 N*m [600 ft-lb]
Material: Aluminum

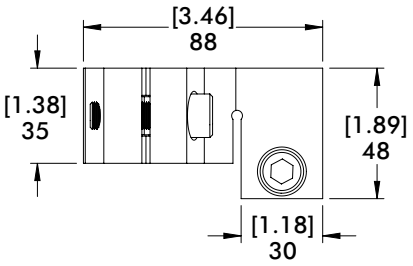
Model Number	(Ø)"D"	Weight	FINISH
M-**60M-60M**-M	**60mm**	[2.07 lb] .94 kg	**BLUE**
M-**25E-25E**-M	**2.50"**(in)	[2.03 lb] .92 kg	**BLACK**

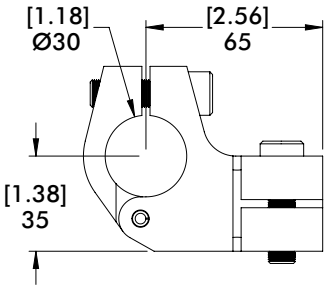
T-CLAMP TRANSITION BRACKETS AND BLOCKS

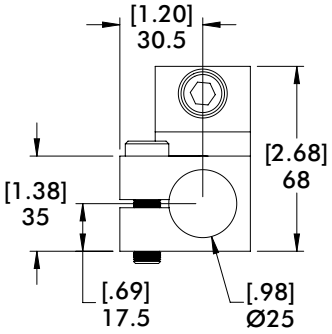
Round Tooling | Dimensions | Technical Specifications

Nominal (Ø) given
See chart on Page 72 for actual (Ø) size

TCAH Ø30mm to Ø25mm



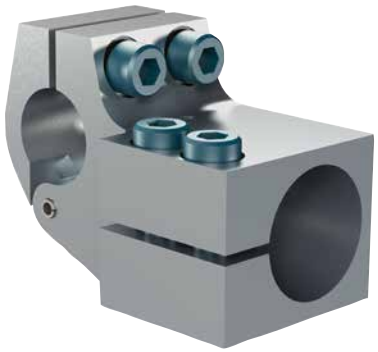


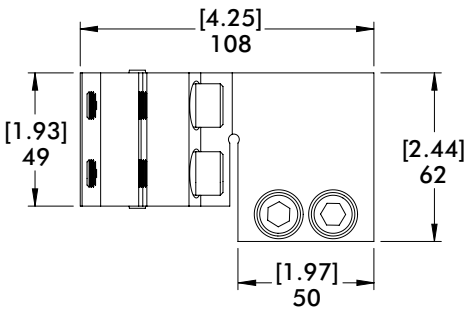


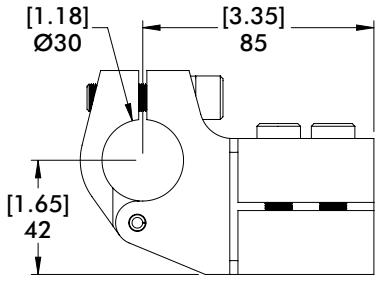
Specifications:
Max. Static Clamp Load:
Ø30mm:
237 N*m [175 ft-lb]
Ø25mm/1.00":
200 N*m [150 ft-lb]
Material: Aluminum

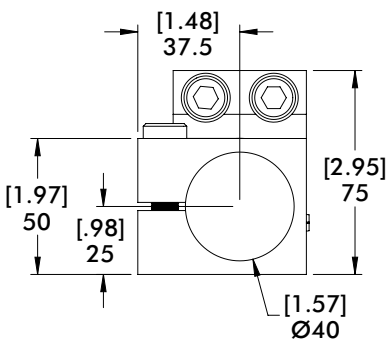
Model Number	Weight
CPI-TCAH30M-**25M**	[0.72 lb] 325g

TCAH Ø30mm to Ø40mm









Specifications:
Max. Static Clamp Load:
Ø30mm:
237 N*m [175 ft-lb]
Ø40mm:
271 N*m [200 ft-lb]
Material: Aluminum

Model Number	Weight
CPI-TCAH30M-**40M**	[1.40 lb] 634g

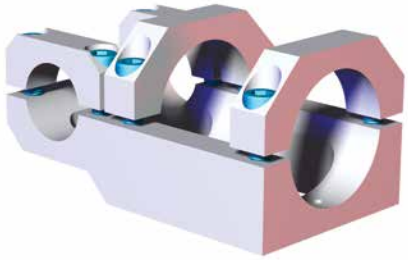
Dimensions and technical information are subject to change without notice

T-CLAMP TRANSITION BRACKETS AND BLOCKS

Nominal (Ø) given
See chart on Page 72
for actual (Ø) size

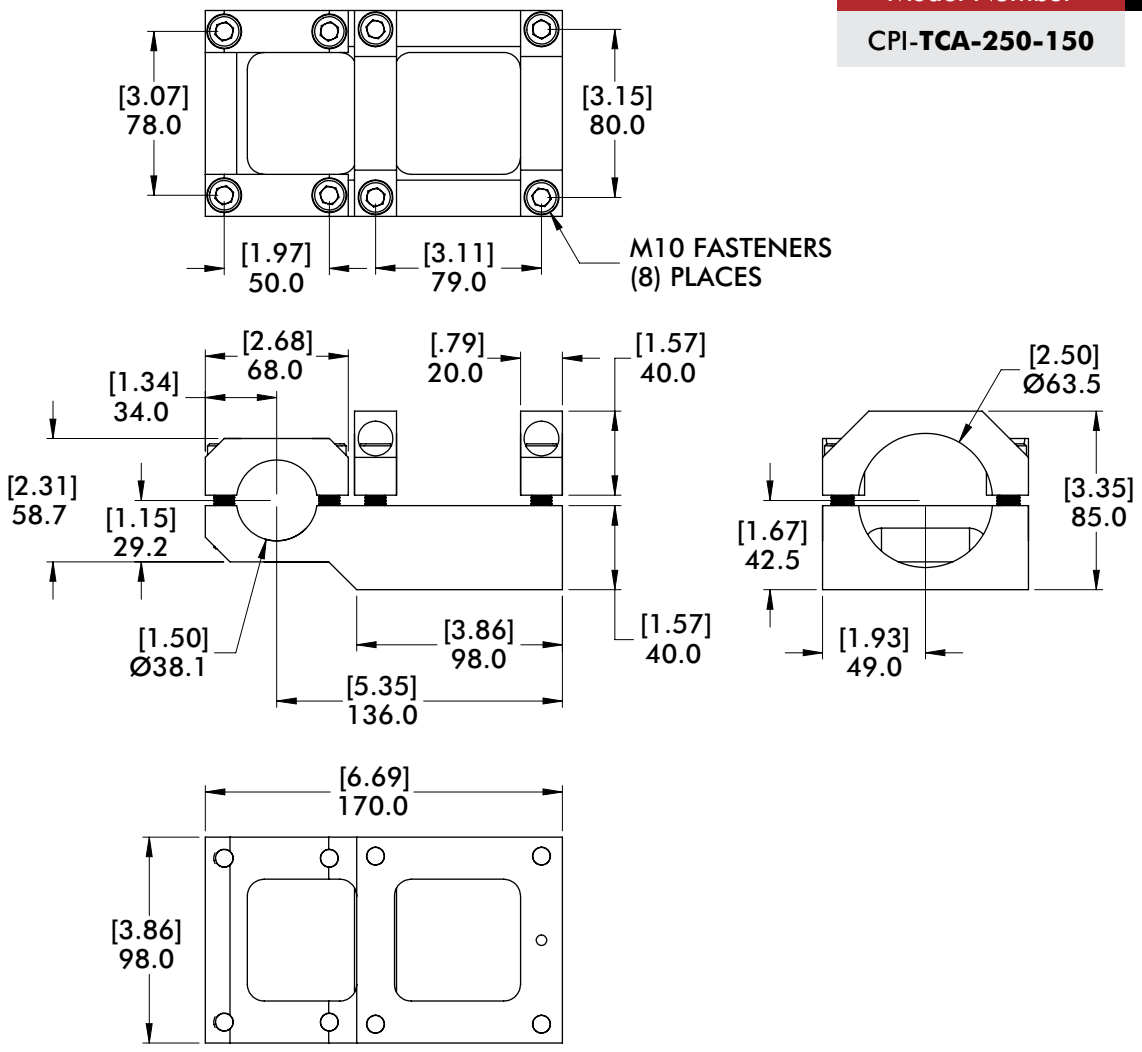
Round Tooling | Dimensions | Technical Specifications

TCA Ø2.50" to Ø1.50" T-Clamp Bracket Assembly



Specifications:
Max. Static Clamp Load:
Ø1.50":
271 N*m [200 ft-lb]
Ø2.50":
677 N*m [500 ft-lb]
Material: Aluminum

Model Number	Weight
CPI-**TCA-250-150**	[2.76 lb] 1.25 kg

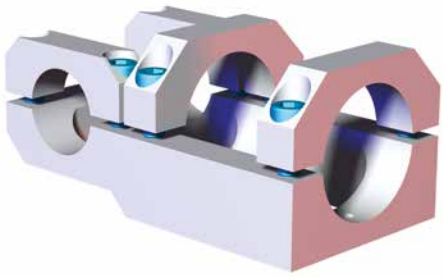


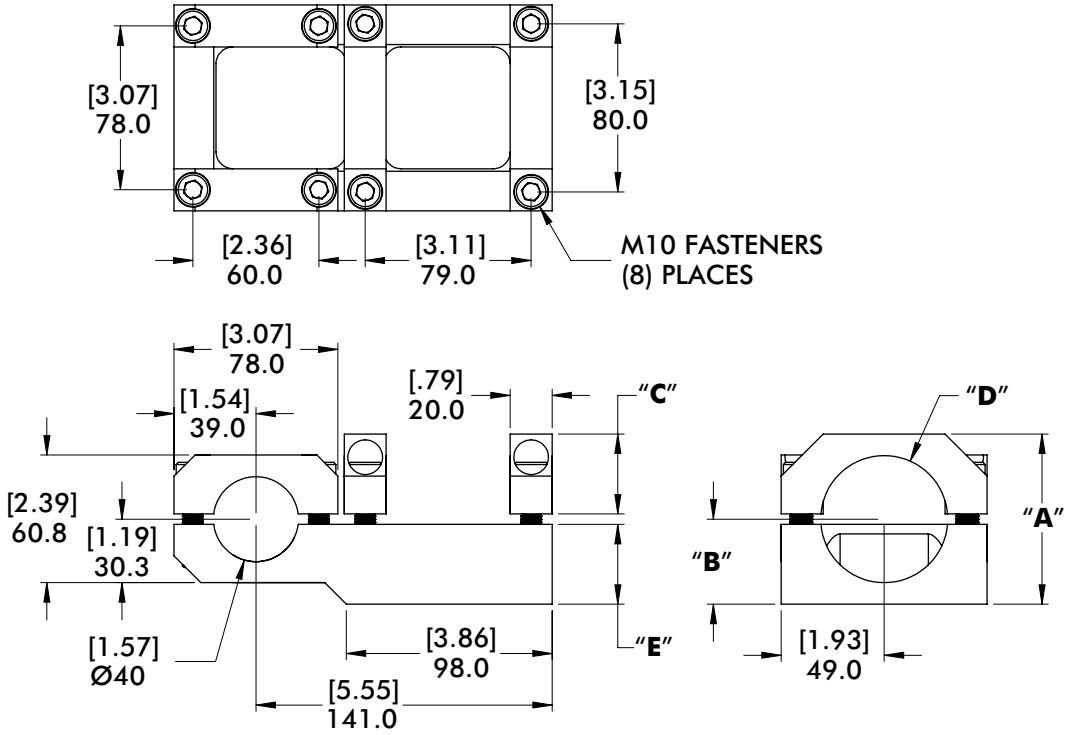
T-CLAMP TRANSITION BRACKETS AND BLOCKS

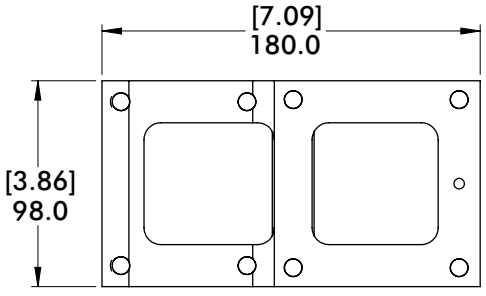
Round Tooling | Dimensions | Technical Specifications

Nominal (Ø) given
See chart on Page 72
for actual (Ø) size

TCA Ø60mm/2.50" to Ø40mm T-Clamp Bracket Assembly







Specifications:
Max. Static Clamp Load:
Ø40mm:
271 N*m [200 ft-lb]
Ø60mm/2.50":
677 N*m [500 ft-lb]
Material: Aluminum

Model Number	(Ø)"D"	"A"	"B"	"C"	"E"	Weight
CPI-TCA-**60M-40M**	**60mm**	[3.19] 81.0	[1.59] 40.5	[1.50] 38.0	[1.50] 38.0	[2.89 lb] 1.31 kg

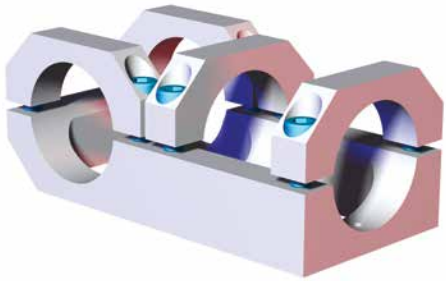
Dimensions and technical information are subject to change without notice

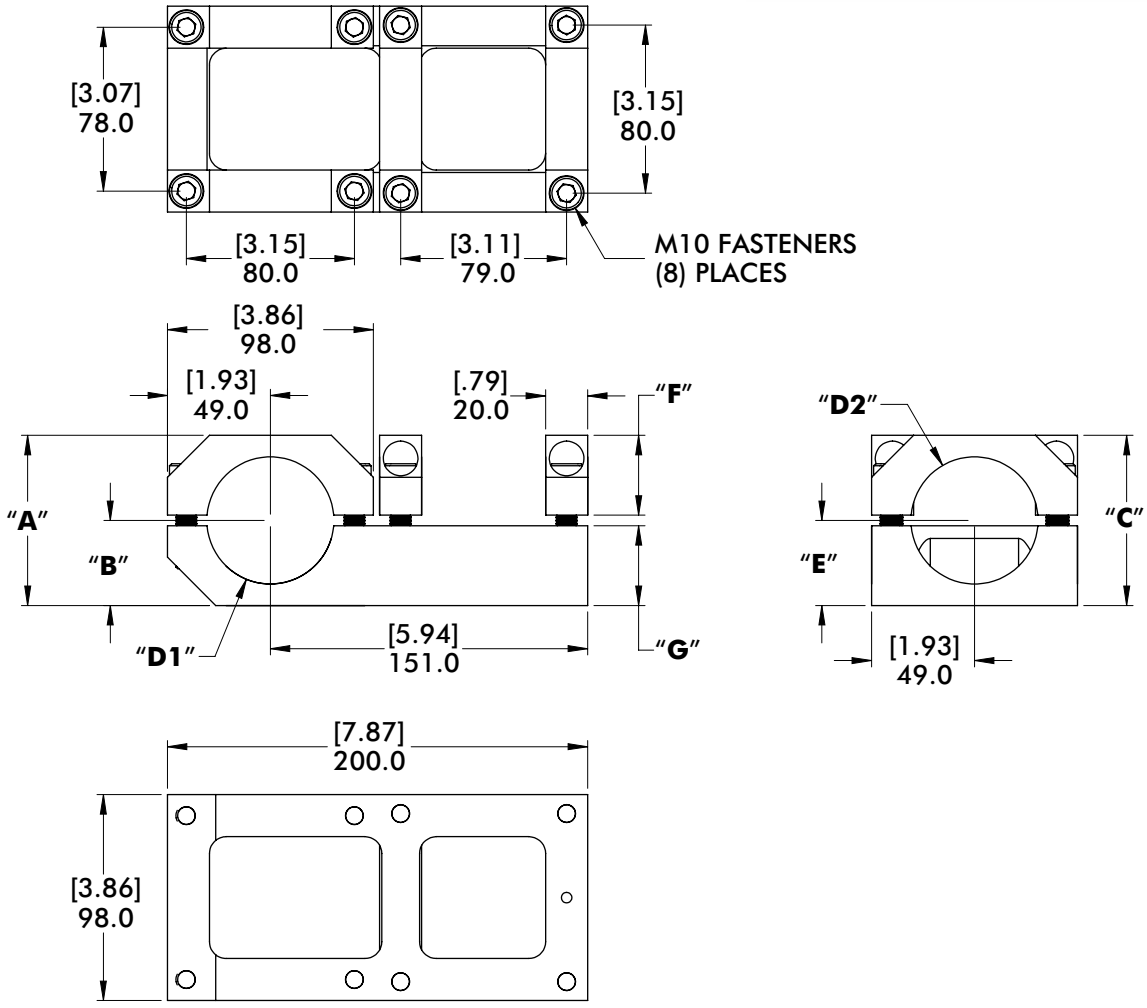
T-CLAMP TRANSITION BRACKETS AND BLOCKS

Nominal (Ø) given
See chart on Page 72
for actual (Ø) size

Round Tooling | Dimensions | Technical Specifications

TCA Ø60mm/2.50" to Ø60mm/2.50" T-Clamp Bracket Assembly





Specifications:
Max. Static Clamp Load:
813 N*m [600 ft-lb]
Material: Aluminum

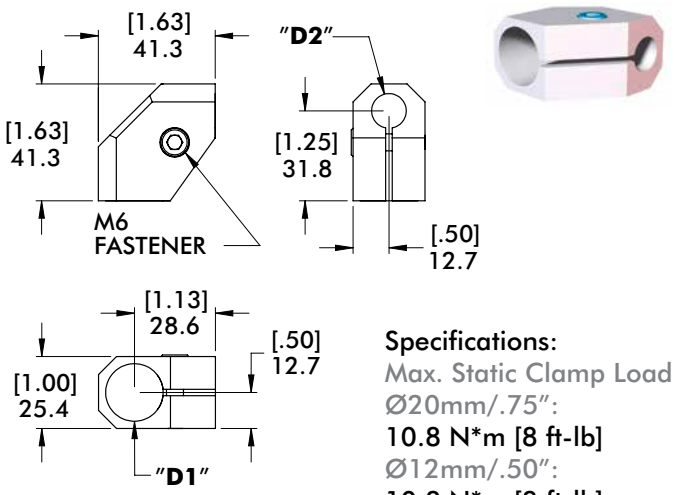
Model Number	(Ø)"D1"	(Ø)"D2"	"A"	"B"	"C"	"E"	"F"	"G"	Weight
CPI-TCA-**60M-60M**	**60mm**	**60mm**	[3.19] 81.0	[1.59] 40.5	[3.19] 81.0	[1.59] 40.5	[1.50] 38.0	[1.50] 38.0	[3.15 lb] 1.43 kg
CPI-TCA-**250-250**	**2.50"**(in)	**2.50"**(in)	[3.35] 85.0	[1.67] 42.5	[3.35] 85.0	[4.67] 42.5	[1.57] 40.0	[1.57] 40.0	

WRIST CLAMPS

Round Tooling | Dimensions | Technical Specifications

Nominal (Ø) given
See chart on Page 72
for actual (Ø) size

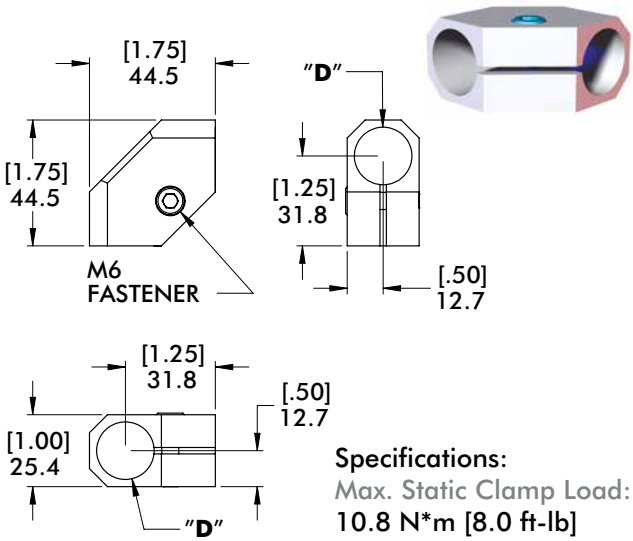
SECM Ø20mm/.75" to Ø12mm/.50"



Specifications:
Max. Static Clamp Load:
Ø20mm/.75":
10.8 N*m [8 ft-lb]
Ø12mm/.50":
10.8 N*m [8 ft-lb]
Material: Aluminum

Model Number	(Ø)"D1"	(Ø)"D2"	Weight
CPI-SECM-**2012M**	**12mm**	**20mm**	[.12 lb] .05 kg
CPI-SECM-**7550**	**.50"**(in)	**.75"**(in)	

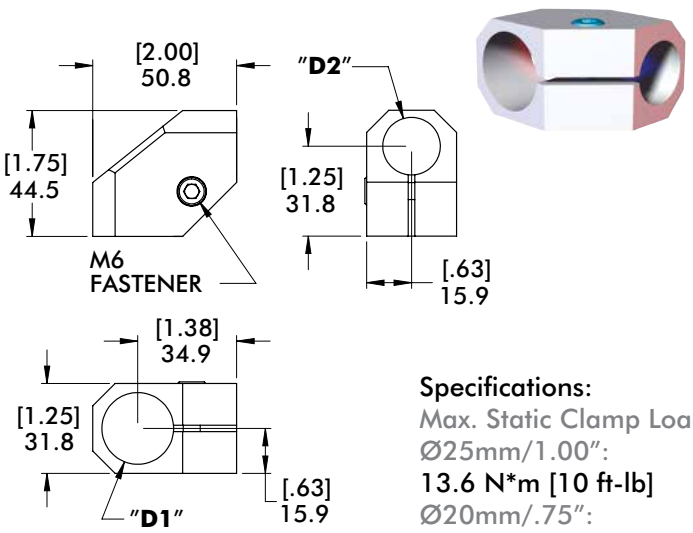
SECM Ø20mm/.75" to Ø20mm/.75"



Specifications:
Max. Static Clamp Load:
10.8 N*m [8.0 ft-lb]
Material: Aluminum

Model Number	(Ø)"D"	Weight
CPI-SECM-**2020M**	**20mm**	[.12 lb] .06 kg
CPI-SECM-**7575**	**.75"**(in)	

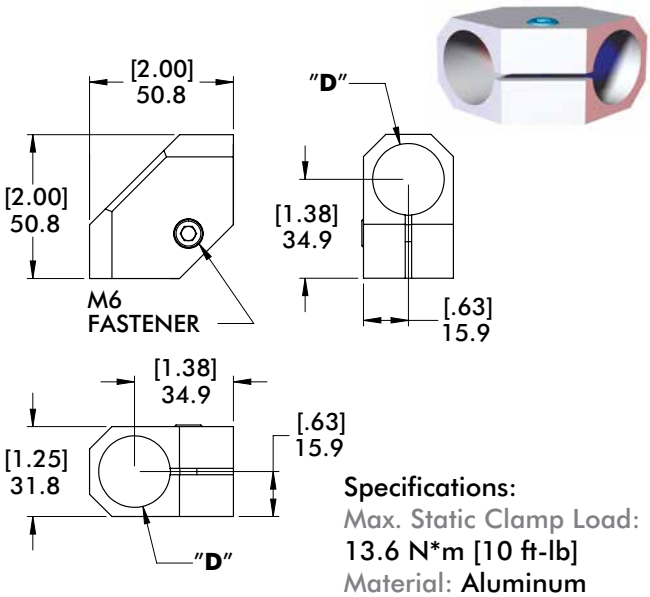
SECM Ø25mm/1.00" to Ø20mm/.75"



Specifications:
Max. Static Clamp Load:
Ø25mm/1.00":
13.6 N*m [10 ft-lb]
Ø20mm/.75":
10.8 N*m [8.0 ft-lb]
Material: Aluminum

Model Number	(Ø)"D1"	(Ø)"D2"	Weight
CPI-SECM-**2520M**	**25mm**	**20mm**	[.17 lb] .08 kg
CPI-SECM-**1075**	**1.00"**(in)	**.75"**(in)	

SECM Ø25mm/1.00" to Ø25mm/1.00"



Specifications:
Max. Static Clamp Load:
13.6 N*m [10 ft-lb]
Material: Aluminum

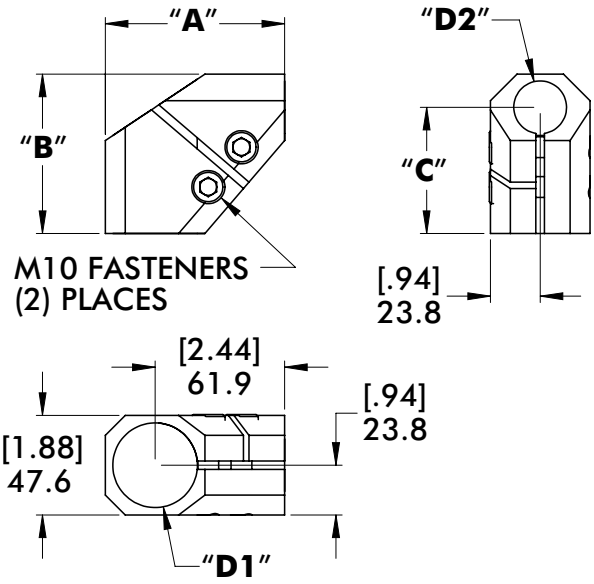
Model Number	(Ø)"D"	Weight
CPI-SECM-**2525M**	**25mm**	[.17 lb] .08 kg
CPI-SECM-**1010**	**1.00"**(in)	

Dimensions and technical information are subject to change without notice

Nominal (Ø) given
See chart on Page 72
for actual (Ø) size

Round Tooling | Dimensions | Technical Specifications

SEC/SLK Ø40mm/1.50" to Ø25mm/1.00"



Specifications:
Max. Static Clamp Load:
Ø40mm/1.50":
271 N*m [200 ft-lb]
Ø25mm/1.00":
203 N*m [150 ft-lb]
Material: Aluminum

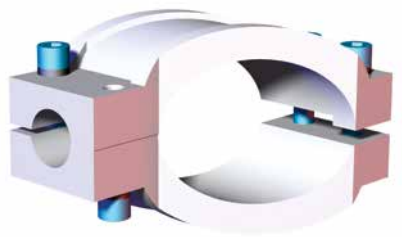
Model Number	(Ø)"D1"	(Ø)"D2"	"A"	"B"	"C"	"E"	Weight
CPI-**SEC-1510**	**1.50"**(in)	**1.00"**(in)	[3.25] 82.6	[2.38] 60.3	[1.75] 44.5	[.88] 22.2	[.67 lb] .31 kg
CPI-**SLK-4025**	**40mm**	**25mm**	[3.38] 85.7	[2.44] 61.9	[1.88] 47.6	[.94] 23.8	[.77 lb] .35 kg

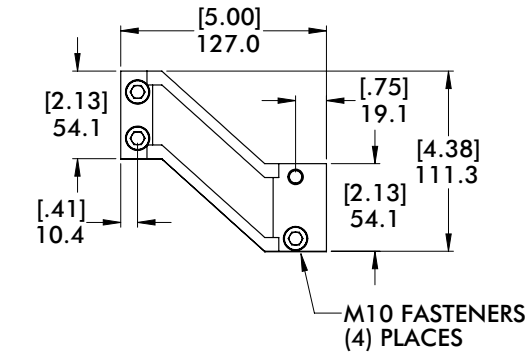
OFFSET WRIST BRACKETS AND BLOCKS

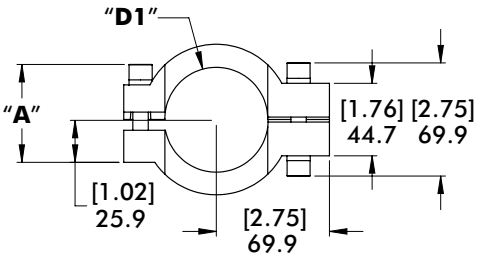
Round Tooling | Dimensions | Technical Specifications

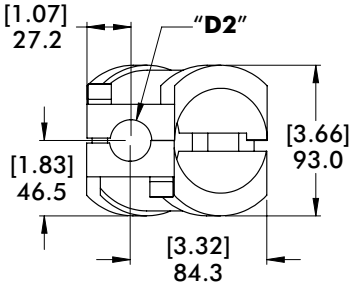
Nominal (Ø) given
See chart on Page 72 for actual (Ø) size

SEC/**SLK** Ø60mm/2.50" to Ø25mm/1.00" Wrist Bracket





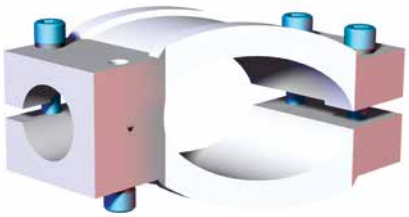


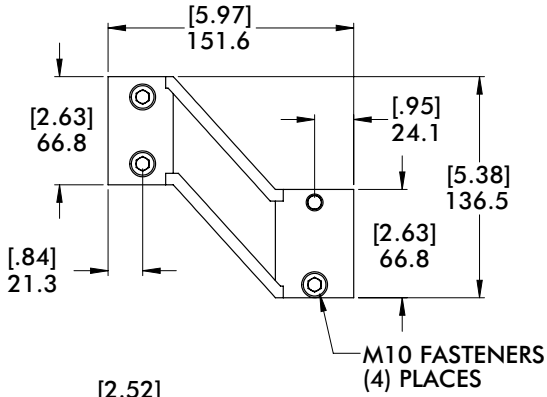


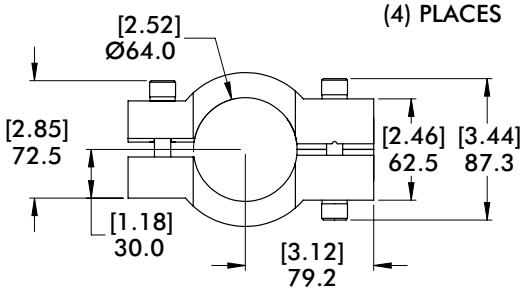
Specifications:
Max. Static Clamp Load:
Ø25mm/1.00":
149 N*m [110 ft-lb]
Ø60mm/2.50":
677 N*m [500 ft-lb]
Material: Aluminum

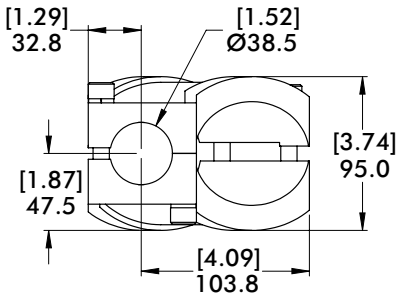
Model Number	(Ø)"**D1**"	(Ø)"**D2**"	"**A**"	Weight
CPI-**SLK-6025**	**60mm**	**25mm**	[2.25] 57.1	[1.72 lb] .78 kg
CPI-**SEC-2510**	**2.50"**(in)	**1.00"**(in)	[2.38] 60.5	[1.61 lb] .73 kg

SEC Ø2.50" to Ø1.50" Wrist Bracket









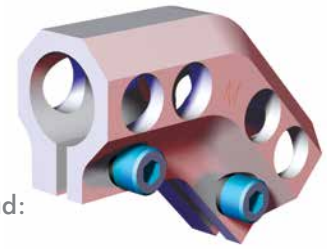
Specifications:
Max. Static Clamp Load:
Ø40mm/1.50":
271 N*m [200 ft-lb]
Ø60mm/2.50":
677 N*m [500 ft-lb]
Material: Aluminum

Model Number	Weight
CPI-**SEC-2515**	[2.72 lb] 1.23 kg

Dimensions and technical information are subject to change without notice

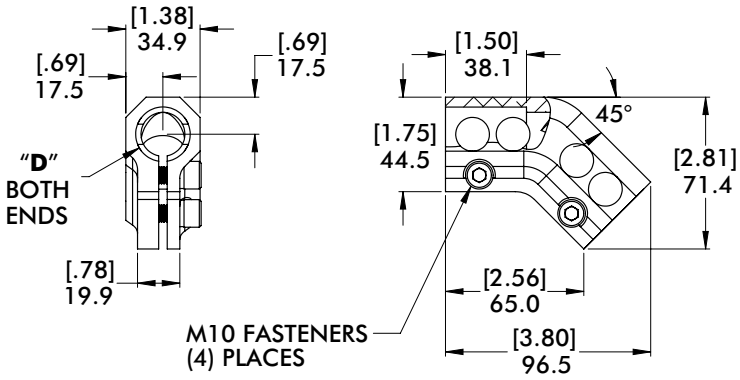
Nominal (Ø) given
See chart on Page 72
for actual (Ø) size

DC Ø25mm/1.00" to Ø25mm/1.00" 45° Elbow

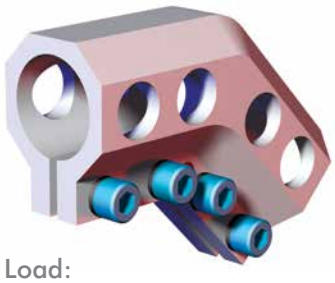


Specifications:
Max. Static Clamp Load:
203 N*m [150 ft-lb]
Material: Aluminum

Model Number	(Ø)"D"	Weight
CPI-DC-**2525M**-45	**25mm**	[.35 lb] .16 kg
CPI-DC-**1010**-45	**1.00"**(in)	

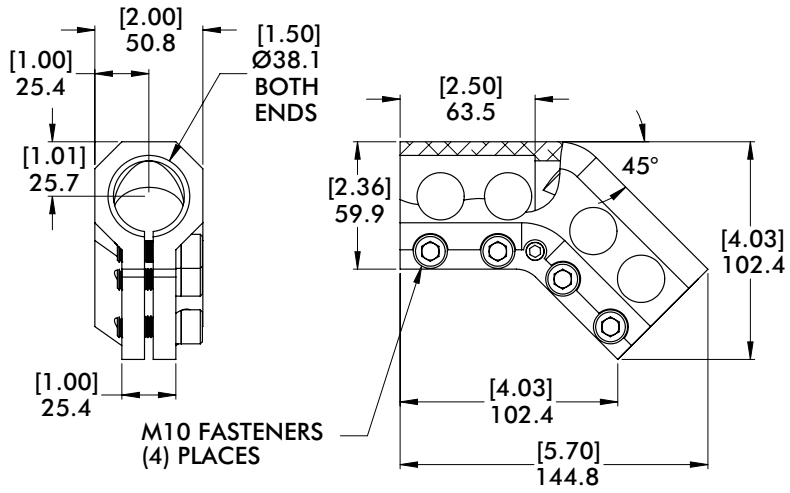


DC Ø1.50" to Ø1.50" 45° Elbow

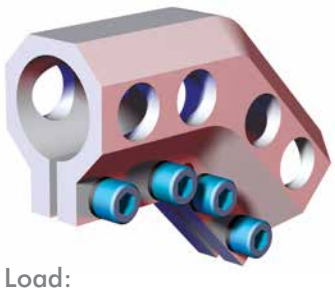


Specifications:
Max. Static Clamp Load:
271 N*m [200 ft-lb]
Material: Aluminum

Model Number	Weight
CPI-DC-**1515**-45	[1.41 lb] .64 kg

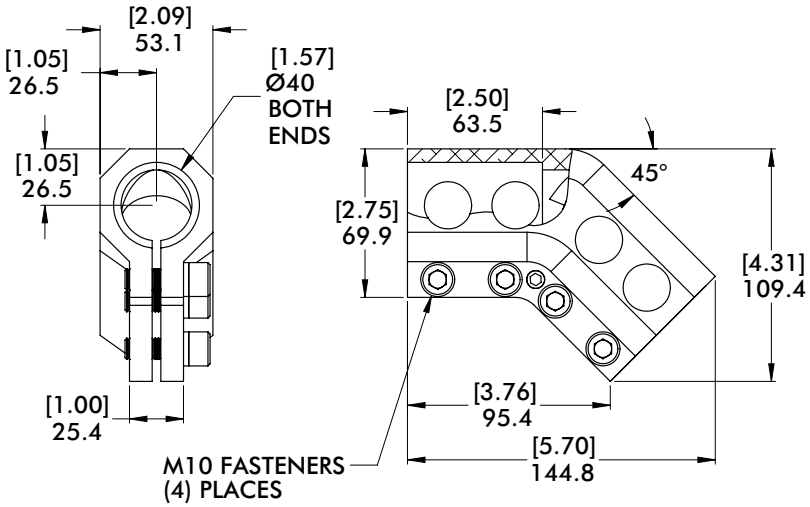


DC Ø40mm to Ø40mm 45° Elbow



Specifications:
Max. Static Clamp Load:
271 N*m [200 ft-lb]
Material: Aluminum

Model Number	Weight
CPI-DC-**40-40**-45	[1.41 lb] .64 kg

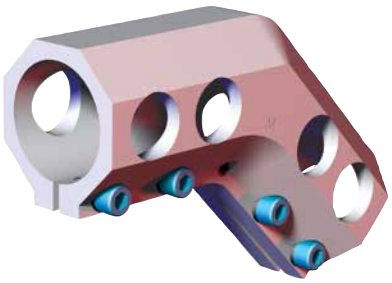


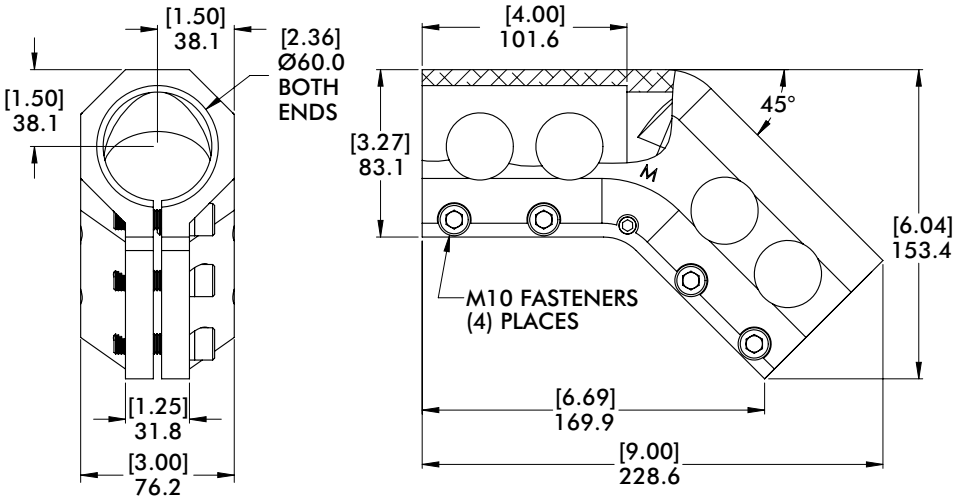
ELBOW AND STRAIGHT BRACKETS

Round Tooling | Dimensions | Technical Specifications

Nominal (Ø) given
See chart on Page 72 for actual (Ø) size

DC Ø60mm to Ø60mm 45° Elbow

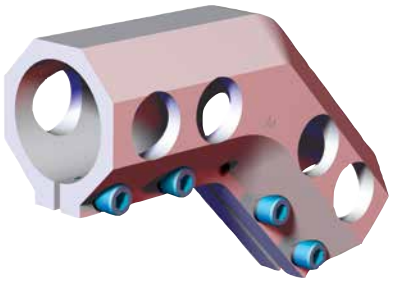


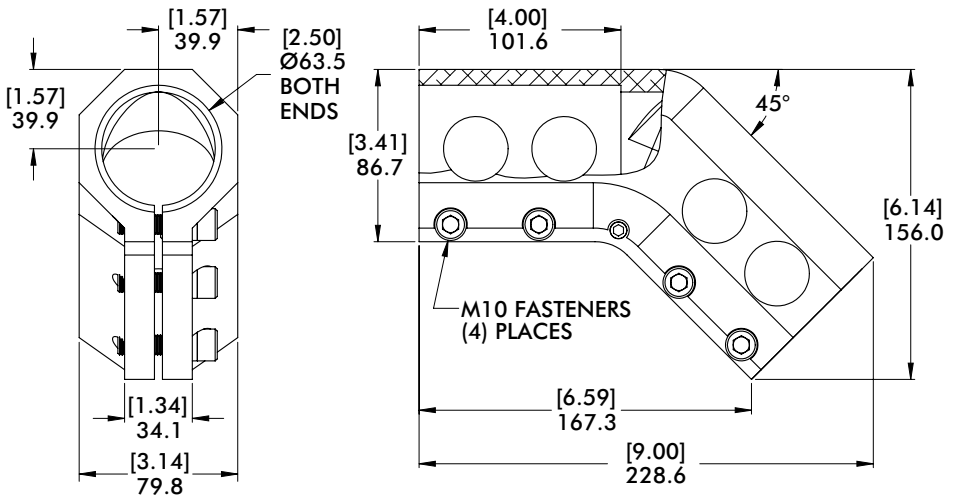


Specifications:
Max. Static Clamp Load:
677N*m [500 ft-lb]
Material: Aluminum

Model Number	Weight
CPI-DC-**6060M**-45	[2.94 lb] 1.33 kg

DC Ø2.50" to Ø2.50" 45° Elbow





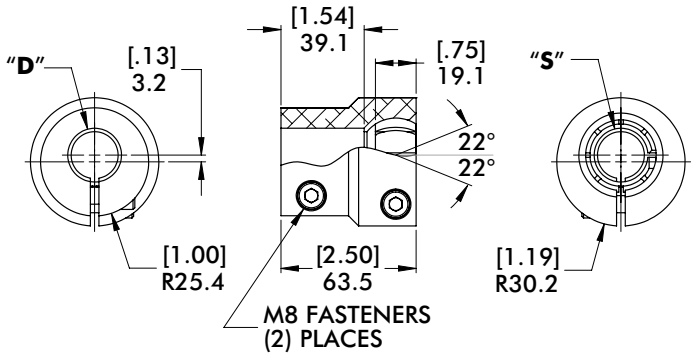
Specifications:
Max. Static Clamp Load:
677 N*m [500 ft-lb]
Material: Aluminum

Model Number	Weight
CPI-DC-**2525**-45	[3.19 lb] 1.46 kg

DC Ø25mm/1.00" to Ø25mm/1.00" Straight with Swivel

Specifications:
Max. Static Clamp Load:
203 N*m [150 ft-lb]
Material: Aluminum

Model Number	(Ø)"**D**"	(Ø)"**S**"	Weight
CPI-DC-**2525S**-8	**25mm**	**25mm**	[.80 lb] .36 kg
CPI-DC-**1010S**-8	**1.00"**(in)	**1.00"**(in)	

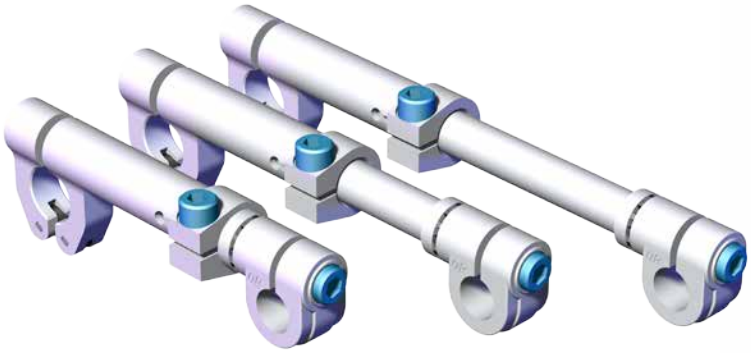


Dimensions and technical information are subject to change without notice

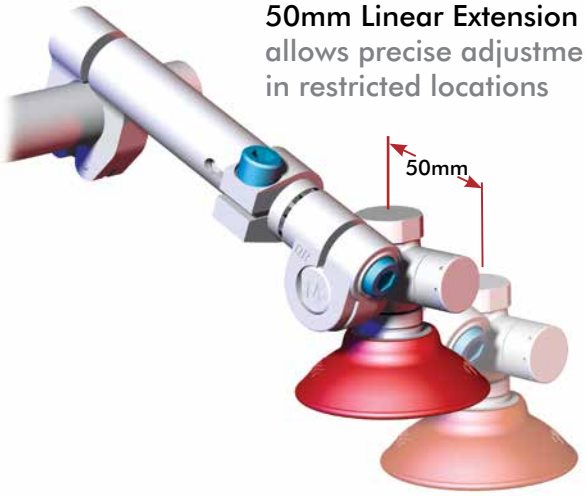
SWIVEL ARMS

Round Tooling | Features and Benefits

Extend Arm Swivel Arms are available in (3) standard lengths to offer (3) ranges of linear adjustability



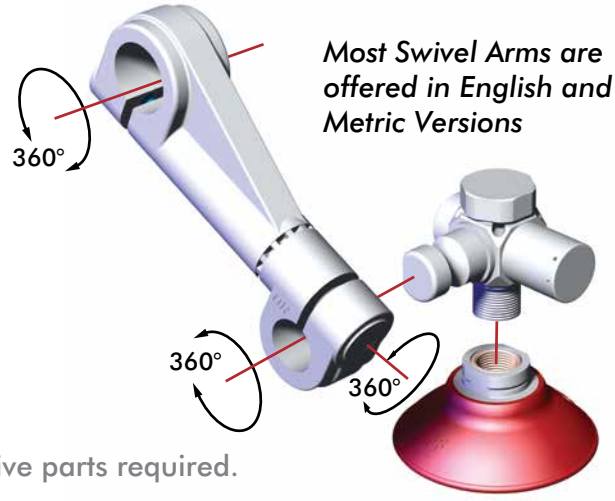
50mm Linear Extension allows precise adjustment in restricted locations



Three-bolt adjustment system (2) bolts for individual adjustment of each joint along with (1) bolt for linear adjustment. Adjust a single point of axis while the other areas of adjustment remains secure.

Double-Hinge Design provides even-clamping force to better hold mounting position. End opens to allow mounting in the center of tube/bar without removing existing components. These features reduce downtime for setup and adjustment.

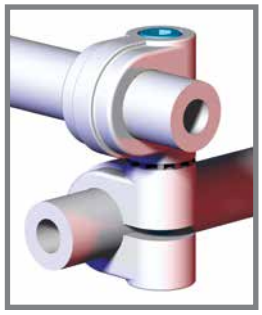
Standard Swivel Arms offer a versatile attachment point for vacuum generators and adaptors, proximity switches, and nest mounts brackets.



Most Swivel Arms are offered in English and Metric Versions

Single-Bolt adjustment for (3) axis
Standard Swivel Arms, as well as Single-Bolt Transition Swivel Arms, and Single End Extensions all share the convenient one-bolt design for quick setup, easy assembly and adjustment. Tool setup is therefore quick and easy, saving time and money.

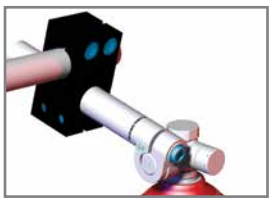
360° of adjustment in (3) different axes
Easily locate cups on most panels. No special or expensive parts required.



Transition Swivel Arms can be used in the same fashion as a Standard Swivel Arm or as a transition junction from tube to Single End Extensions or tube.

Double-Bolt Transition Swivel Arms allow individual adjustment at each end of the swivel arm for more flexibility.

Single End Extensions can be used to add linear adjustment to the 360° (3) axes adjustment, when used in conjunction with Transition Swivel Arms or Transition Blocks.



EXTEND-ARM SWIVEL ARMS

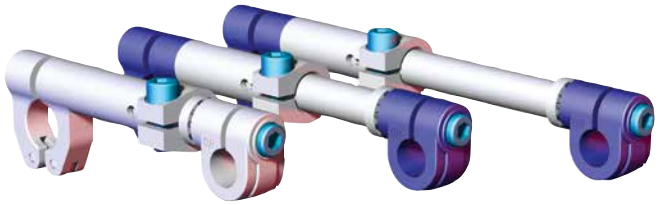
Round Tooling | Dimensions | Technical Specifications

Features:

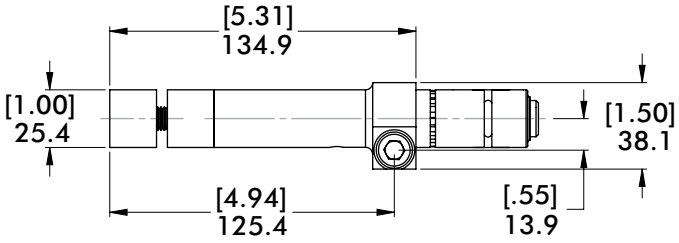
- Mounts apple core accessories to Ø25mm/1.00" round tube
- 50.8 [2.00] linear extension allows for precise adjustment
- Provides 360° of rotational adjustments along (3) axes
- Used to mount venturi, bumpers, round locators, and proximity switches

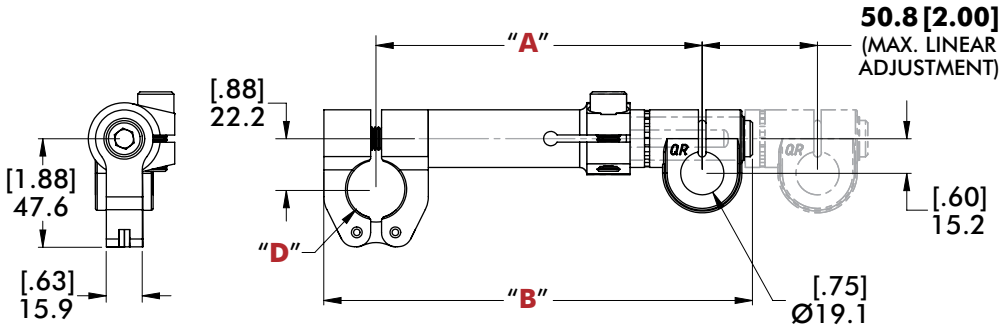
Specifications:
Maximum Clamp Load:
140 ft-lb [190 Nm]
Material:
Body and Insert:
Machined Aluminum
End:
Cast Aluminum

TSA Ø25mm/1.00" for Ø19mm [.75"] Apple Core



Double-hinge design allows swivel arm to be mounted directly onto boom/tube and slid into position, without having to remove existing components to slide on from boom/tube end.





Model Number	(Ø)"D"	"A"	"B"	Weight	FINISH
CPI-**55-1**-TSA	**1.00"**(in)	[5.66] 143.7	[7.44] 188.9	[0.83 lb] 0.38 kg	SILVER
CPI-**140-25**-TSA	**25mm**				BLUE
CPI-**75-1**-TSA	**1.00"**(in)	[7.66] 194.5	[9.44] 239.7	[0.90 lb] 0.41 kg	SILVER
CPI-**190-25**-TSA	**25mm**				BLUE
CPI-**95-1**-TSA	**1.00"**(in)	[9.66] 245.3	[11.44] 290.5	[0.98 lb] 0.44 kg	SILVER
CPI-**240-25**-TSA	**25mm**				BLUE

Dimensions and technical information are subject to change without notice

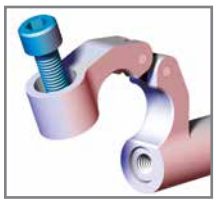
EXTEND-ARM SWIVEL ARMS

Round Tooling | Dimensions | Technical Specifications

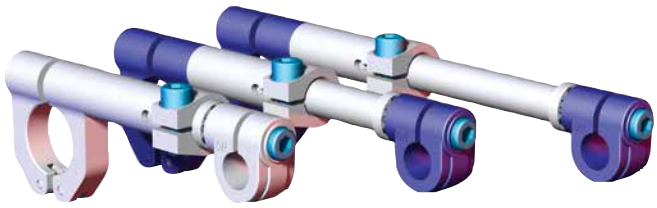
Features:
- Mounts apple core accessories to Ø40mm/1.50" round tube
- 50.8 [2.00] linear extension allows for precise adjustment
- Provides 360° of rotational adjustments along (3) axes
- Used to mount venturi, bumpers, round locators, and proximity switches

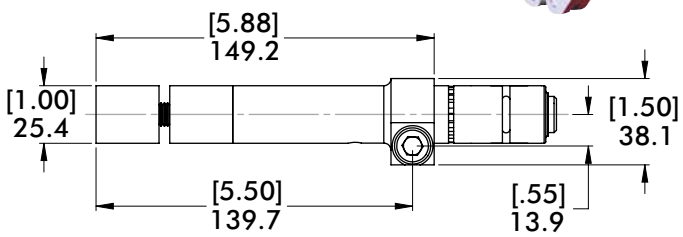
Specifications:
Maximum Clamp Load:
140 ft-lb [190 Nm]
Material:
Body and Insert:
Machined Aluminum
End:
Cast Aluminum

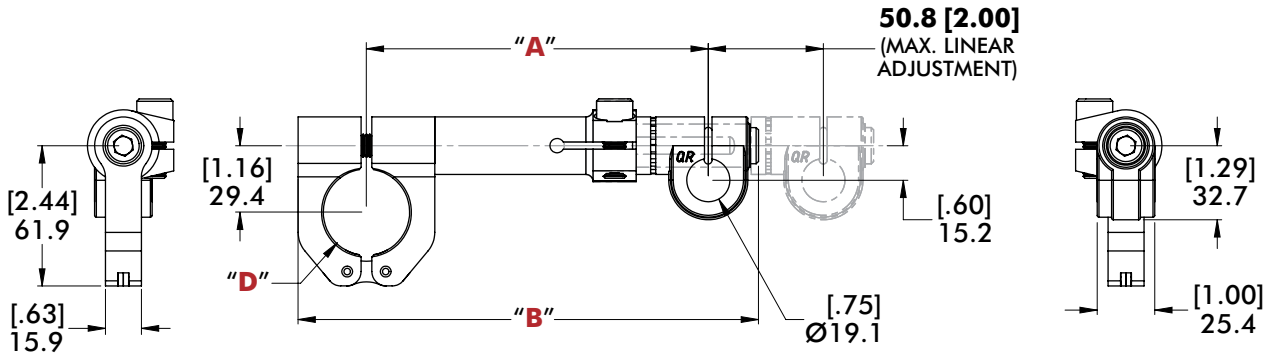
TSA Ø40mm/1.50" for Ø19mm [.75"] Apple Core



Double-hinge design allows swivel arm to be mounted directly onto boom/tube and slid into position, without having to remove existing components to slide on from boom/tube end.



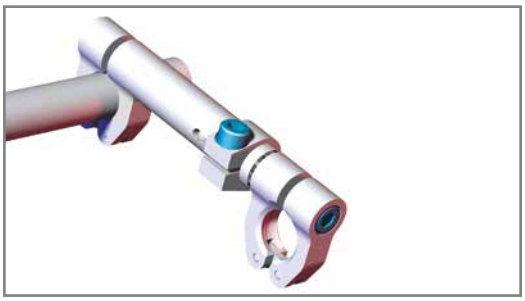




Model Number	(Ø)"D"	"A"	"B"	Weight	FINISH
CPI-**55-150**-TSA	**1.50"**(in)	[5.94] 150.9	[8.00] 203.2	[0.99 lb] 0.45 kg	SILVER
CPI-**140-40**-TSA	**40mm**				BLUE
CPI-**75-150**-TSA	**1.50"**(in)	[7.94] 201.7	[10.00] 254.0	[1.06 lb] 0.48 kg	SILVER
CPI-**190-40**-TSA	**40mm**				BLUE
CPI-**95-150**-TSA	**1.50"**(in)	[9.94] 252.5	[12.00] 304.8	[1.13 lb] 0.51 kg	SILVER
CPI-**240-40**-TSA	**40mm**				BLUE

EXTEND-ARM SWIVEL ARMS

Round Tooling | Dimensions | Technical Specifications

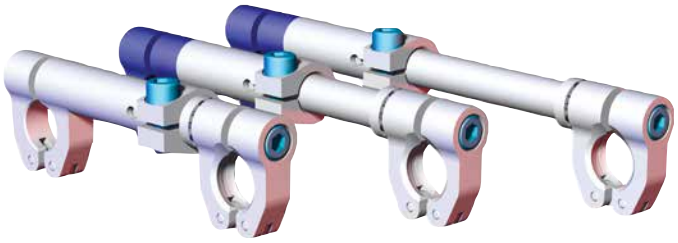


Features:

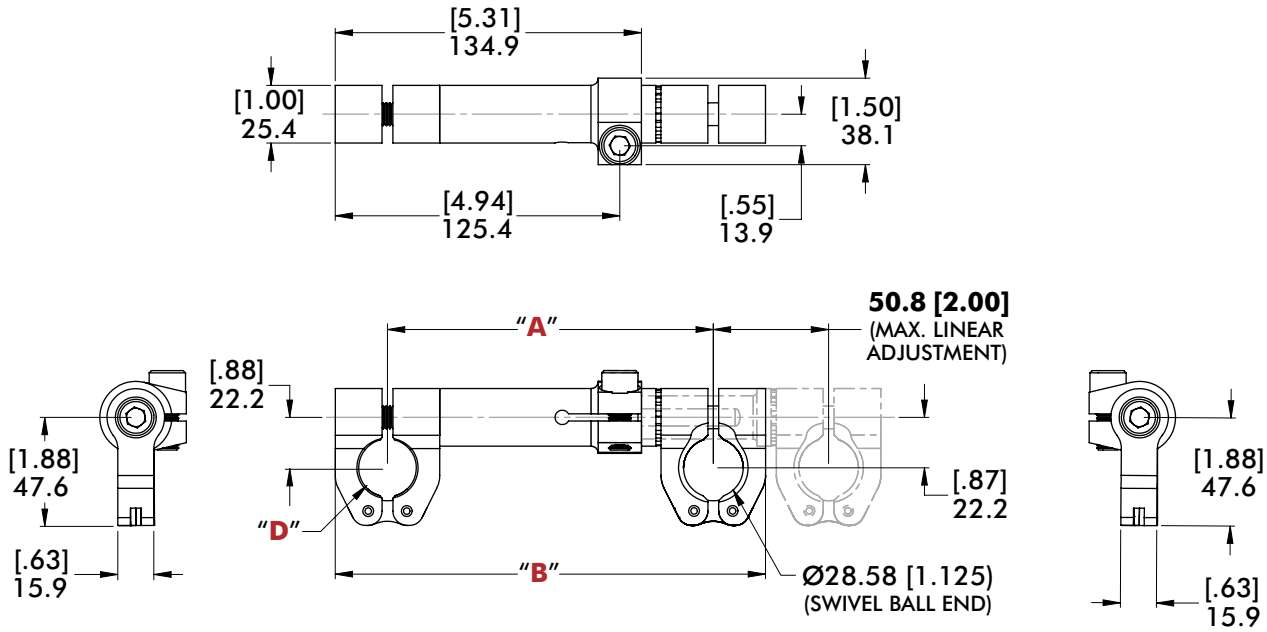
- Mounts swivel ball accessories to Ø25mm/1.00" round tube
- 50.8 [2.00] linear extension allows for precise adjustment
- Provides 360° of rotational adjustments along (3) axes
- Used to mount venturi, bumpers, round locators, and proximity switches

Specifications:
Maximum Clamp Load:
140 ft-lb [190 Nm]
Material:
Body and Insert:
Machined Aluminum
End:
Cast Aluminum

TSA-B112 Ø25mm/1.00" for Ø28.6mm [1.125"] Spherical Swivel Ball



Double-hinge design allows swivel arm to be mounted directly onto boom/tube and slid into position, without having to remove existing components to slide on from boom/tube end.



Model Number	(Ø)"D"	"A"	"B"	Weight	FINISH
CPI-**55-1**-TSA-B112	**1.00"**(in)	[5.65] 143.6	[7.47] 189.6	[0.93 lb] 0.42 kg	SILVER
CPI-**140-25**-TSA-B112	**25mm**				BLUE
CPI-**75-1**-TSA-B112	**1.00"**(in)	[7.65] 194.4	[9.47] 240.4	[1.00 lb] 0.45 kg	SILVER
CPI-**190-25**-TSA-B112	**25mm**				BLUE
CPI-**95-1**-TSA-B112	**1.00"**(in)	[9.65] 245.2	[11.47] 291.2	[1.07 lb] 0.49 kg	SILVER
CPI-**240-25**-TSA-B112	**25mm**				BLUE

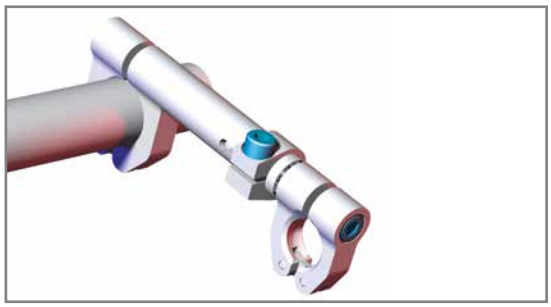
Dimensions and technical information are subject to change without notice

EXTEND-ARM SWIVEL ARMS

Round Tooling | Dimensions | Technical Specifications

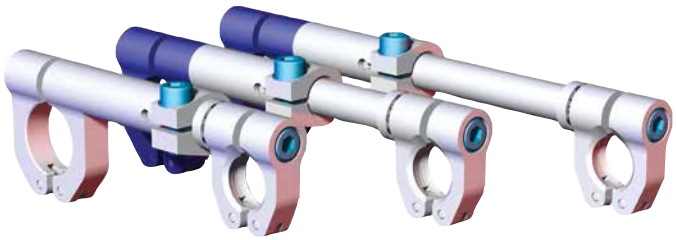
Features:
- Mounts swivel ball accessories to Ø40mm/1.50" round tube
- 50.8 [2.00] linear extension allows for precise adjustment
- Provides 360° of rotational adjustments along (3) axes
- Used to mount venturi, bumpers, round locators, and proximity switches

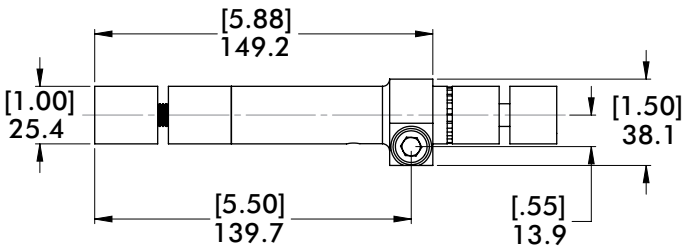
Specifications:
Maximum Clamp Load:
140 ft-lb [190 Nm]
Material:
Body and Insert:
Machined Aluminum
End:
Cast Aluminum

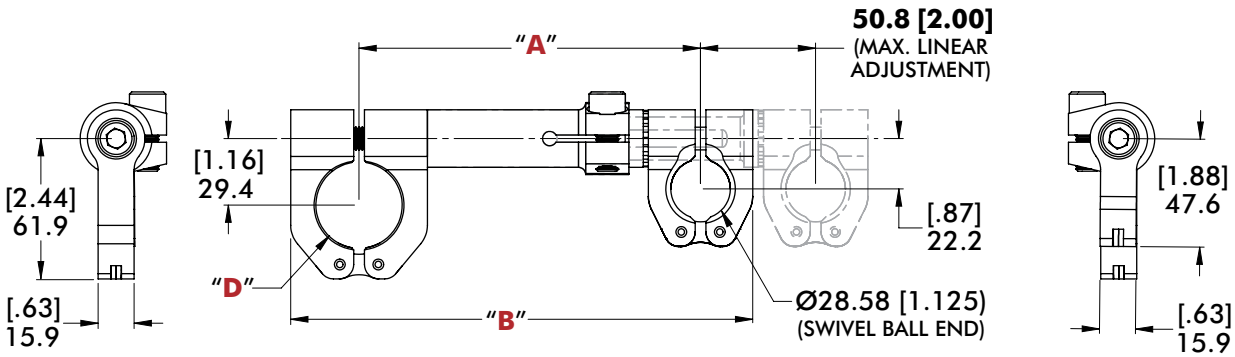


TSA-B112 Ø40mm/1.50" for Ø28.6mm [1.125"] Spherical Swivel Ball

Double-hinge design allows swivel arm to be mounted directly onto boom/tube and slid into position, without having to remove existing components to slide on from boom/tube end.







Model Number	(Ø)"D"	"A"	"B"	Weight	FINISH
CPI-**55-150**-TSA-B112	**1.50"**(in)	[5.93] 150.7	[8.03] 203.9	[1.03 lb] 0.47 kg	SILVER
CPI-**140-40**-TSA-B112	**40mm**				BLUE
CPI-**75-150**-TSA-B112	**1.50"**(in)	[7.93] 201.5	[10.03] 254.7	[1.10 lb] 0.50 kg	SILVER
CPI-**190-40**-TSA-B112	**40mm**				BLUE
CPI-**95-150**-TSA-B112	**1.50"**(in)	[9.93] 252.3	[12.03] 305.5	[1.17 lb] 0.53 kg	SILVER
CPI-**240-40**-TSA-B112	**40mm**				BLUE

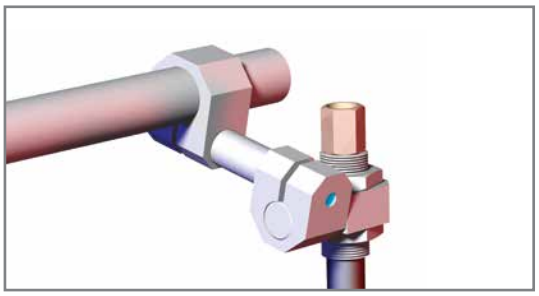
MICRO TOOLING SWIVEL ARMS

Round Tooling | Dimensions | Technical Specifications

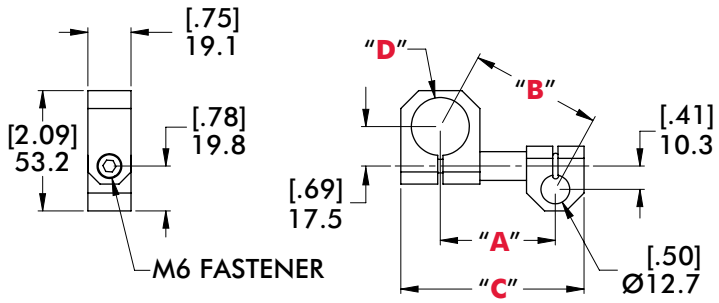
Nominal (Ø) given
See chart on Page 72 for actual (Ø) size

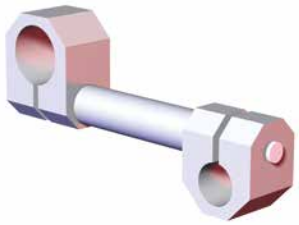
Features:
- Mounts micro apple core accessories to Ø20mm/.75" Round tube.
- Provides 360° of rotational adjustments along (3) axes.
- Used to mount venturi, bumpers, round locators, and proximity switches.

Specifications:
Maximum Clamp Load:
120 ft-lb [163 Nm]
Material:
Body and Spacer:
Machined Aluminum



MSA Ø20mm/.75" for Ø12.7mm [.50"] Apple Core (Micro)





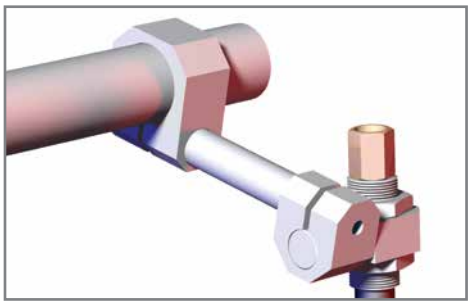
Model Number	(Ø)"D"	"A"	"B"	"C"	Weight
CPI-**200-7550**-MSA	**.75"**(in)	[2.00] 50.8	[2.28] 57.9	[3.19] 81.0	[0.16 lb] 0.07kg
CPI-**200-20M50**-MSA	**20mm**				
CPI-**300-7550**-MSA	**.75"**(in)	[3.00] 76.2	[3.19] 81.1	[4.19] 106.4	[0.19 lb] 0.08kg
CPI-**300-20M50**-MSA	**20mm**				
CPI-**400-7550**-MSA	**.75"**(in)	[4.00] 101.7	[4.15] 105.4	[5.19] 131.9	[0.21 lb] 0.09kg
CPI-**400-20M50**-MSA	**20mm**				
CPI-**500-7550**-MSA	**.75"**(in)	[5.00] 127.1	[5.12] 130.1	[6.19] 157.3	[0.23 lb] 0.11kg
CPI-**500-20M50**-MSA	**20mm**				
CPI-**600-7550**-MSA	**.75"**(in)	[6.00] 152.5	[6.10] 155.0	[7.19] 182.7	[0.26 lb] 0.12kg
CPI-**600-20M50**-MSA	**20mm**				

Dimensions and technical information are subject to change without notice

MICRO TOOLING SWIVEL ARMS

Round Tooling | Dimensions | Technical Specifications

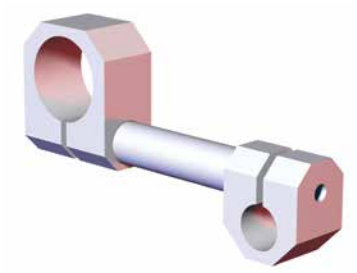
Nominal (Ø) given
See chart on Page 72
for actual (Ø) size

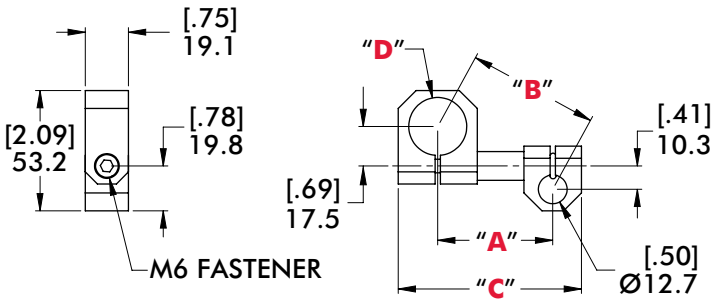


Features:
- Mounts micro apple core accessories to Ø25mm/1.00" Round tube
- Provides 360° of rotational adjustments along (3) axes
- Used to mount venturi, bumpers, round locators, and proximity switches

Specifications:
Maximum Clamp Load:
120 ft-lb [163 Nm]
Material:
Body and Spacer:
Machined Aluminum

MSA Ø25mm/1.00" for Ø12.7mm [.50"] Apple Core (Micro)





Model Number	(Ø)"D"	"A"	"B"	"C"	Weight
CPI-**200-1050**-MSA	**1.00"**(in)	[2.00] 50.7	[2.23] 56.6	[3.06] 77.7	[0.18 lb] 0.08kg
CPI-**200-25M50**-MSA	**25mm**				
CPI-**300-1050**-MSA	**1.00"**(in)	[3.00] 76.1	[3.16] 80.2	[4.11] 104.4	[0.21 lb] 0.09kg
CPI-**300-25M50**-MSA	**25mm**				
CPI-**300-30B50**-MSA	**30mm**				
CPI-**400-1050**-MSA	**1.00"**(in)	[4.00] 101.6	[4.12] 104.7	[5.08] 129.0	[0.23 lb] 0.10kg
CPI-**400-25M50**-MSA	**25mm**				
CPI-**400-30B50**-MSA	**30mm**				
CPI-**500-1050**-MSA	**1.00"**(in)	[5.00] 127.0	[5.10] 129.5	[6.14] 156.0	[0.25 lb] 0.11kg
CPI-**500-25M50**-MSA	**25mm**				
CPI-**500-30B50**-MSA	**30mm**				
CPI-**600-1050**-MSA	**1.00"**(in)	[6.00] 152.4	[6.08] 154.4	[7.09] 180.0	[0.27 lb] 0.13kg
CPI-**600-25M50**-MSA	**25mm**				
CPI-**600-30B50**-MSA	**30mm**				

STANDARD SWIVEL ARMS

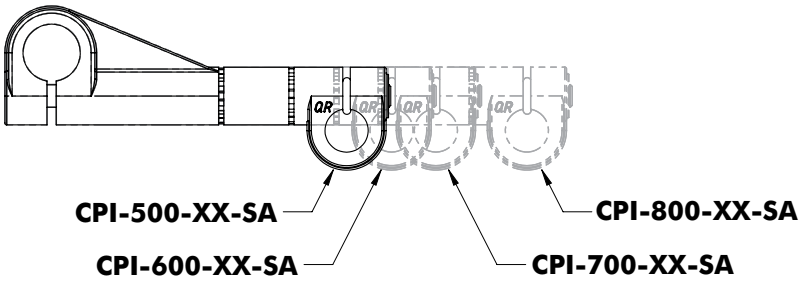
Round Tooling | Dimensions | Technical Specifications

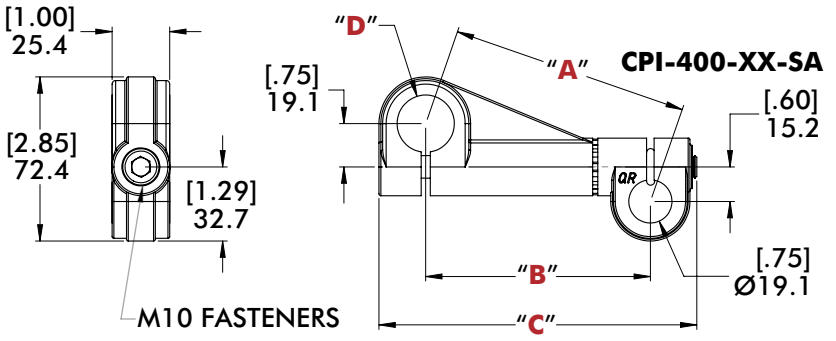
Features:

- Mounts apple core accessories to Ø25mm/1.00" round tube
- Provides 360° of rotational adjustments along (3) axes
- Used to mount venturi, bumpers, round locators, and proximity switches

Specifications:
Maximum Clamp Load:
200 ft-lb [271 Nm]
Material:
Body:
Cast Aluminum
Spacer:
Machined Aluminum

SA Ø25mm/1.00" for Ø19.1mm [.75"] Apple Core





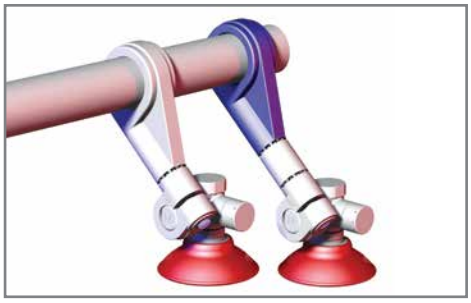
Model Number	(Ø)"D"	"A"	"B"	"C"	Weight	FINISH
CPI-**400-1**-SA	**1.00"**(in)	[4.13] 104.9	[3.90] 99.1	[5.52] 140.2	[0.70 lb] 0.31 kg	SILVER
CPI-**100-25**-SA	**25mm**					BLUE
CPI-**500-1**-SA	**1.00"**(in)	[5.30] 134.5	[5.12] 130.1	[6.70] 170.2	[0.82 lb] 0.37 kg	SILVER
CPI-**140-25**-SA	**25mm**					BLUE
CPI-**600-1**-SA	**1.00"**(in)	[6.05] 153.8	[5.90] 149.9	[7.49] 190.2	[0.90 lb] 0.41 kg	SILVER
CPI-**160-25**-SA	**25mm**					BLUE
CPI-**700-1**-SA	**1.00"**(in)	[6.81] 172.9	[6.67] 169.4	[8.27] 210.2	[0.97 lb] 0.44 kg	SILVER
CPI-**180-25**-SA	**25mm**					BLUE
CPI-**800-1**-SA	**1.00"**(in)	[8.36] 212.4	[8.25] 209.6	[9.85] 250.2	[1.13 lb] 0.51 kg	SILVER
CPI-**200-25**-SA	**25mm**					BLUE

STANDARD SWIVEL ARMS

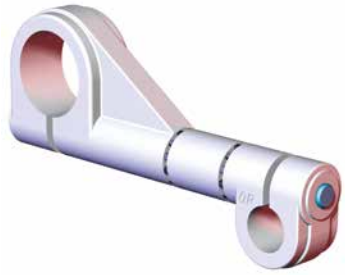
Round Tooling | Dimensions | Technical Specifications

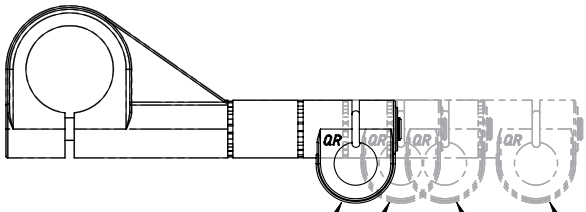
Features:
- Mounts apple core accessories to Ø40mm/1.50" round tube
- Provides 360° of rotational adjustments along (3) axes
- Used to mount venturi, bumpers, round locators, and proximity switches

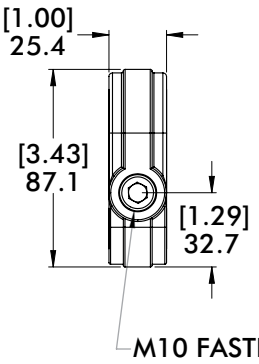
Specifications:
Maximum Clamp Load:
200 ft-lb [271 Nm]
Material:
Body:
Cast Aluminum
Spacer:
Machined Aluminum

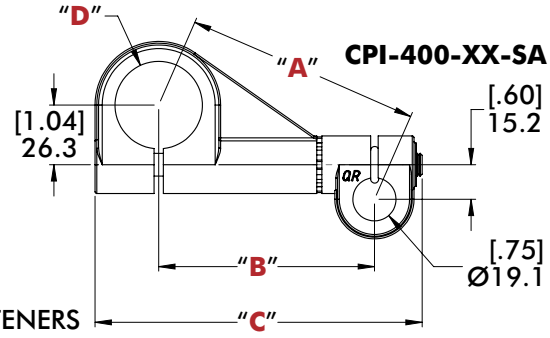


SA Ø40mm/1.50" for Ø19.1mm [.75"] Apple Core





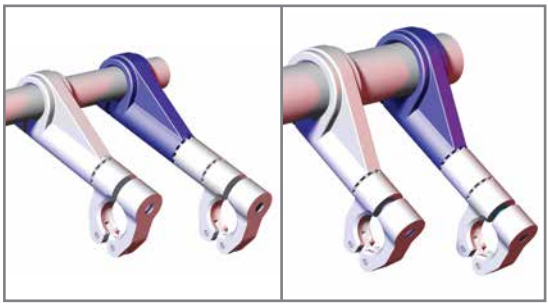




Model Number	(Ø)"D"	"A"	"B"	"C"	Weight	FINISH
CPI-**400-15**-SA	**1.50"**(in)	[4.09] 103.8	[3.75] 95.2	[5.68] 144.3	[0.78 lb] 0.35 kg	SILVER
CPI-**100-40**-SA	**40mm**					BLUE
CPI-**500-15**-SA	**1.50"**(in)	[5.23] 132.8	[4.97] 126.1	[6.86] 174.3	[0.89 lb] 0.41 kg	SILVER
CPI-**140-40**-SA	**40mm**					BLUE
CPI-**600-15**-SA	**1.50"**(in)	[5.97] 151.8	[5.75] 146.0	[7.65] 194.3	[0.97 lb] 0.44 kg	SILVER
CPI-**160-40**-SA	**40mm**					BLUE
CPI-**700-15**-SA	**1.50"**(in)	[6.72] 170.7	[6.52] 165.5	[8.44] 214.3	[1.05 lb] 0.54 kg	SILVER
CPI-**180-40-SA**-SA	**40mm**					BLUE
CPI-**800-15**-SA	**1.50"**(in)	[8.26] 209.8	[8.10] 205.6	[10.01] 2.54	[1.20 lb] 0.55 kg	SILVER
CPI-**200-40**-SA	**40mm**					BLUE

STANDARD SWIVEL ARMS

Round Tooling | Dimensions | Technical Specifications

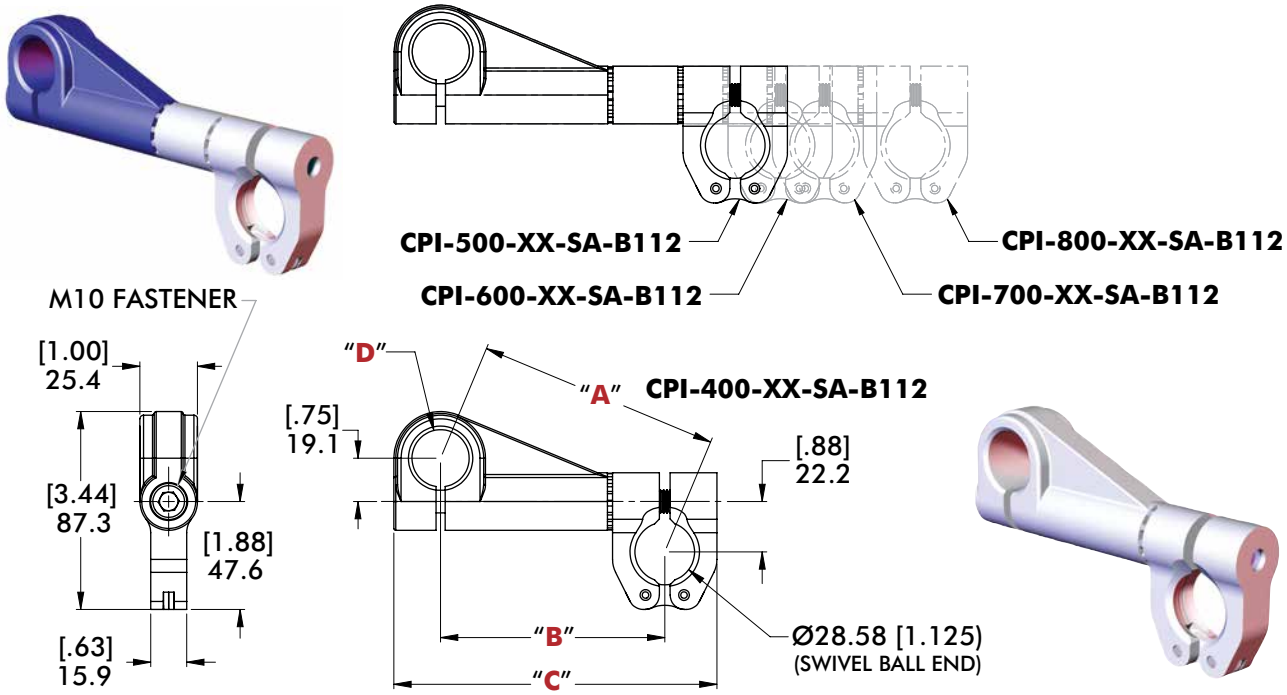


Features:

- Mounts swivel ball accessories to round tube
- Provides 360° of rotational adjustments along (3) axes
- Used to mount venturi, bumpers, round locators, and proximity switches

Specifications:
Maximum Clamp Load:
200 ft-lb [271 Nm]
Material:
Body:
Cast Aluminum
Spacer:
Machined Aluminum

SA-B112 Ø25mm/1.00" for Ø28.6mm [1.125"] Spherical Swivel Ball

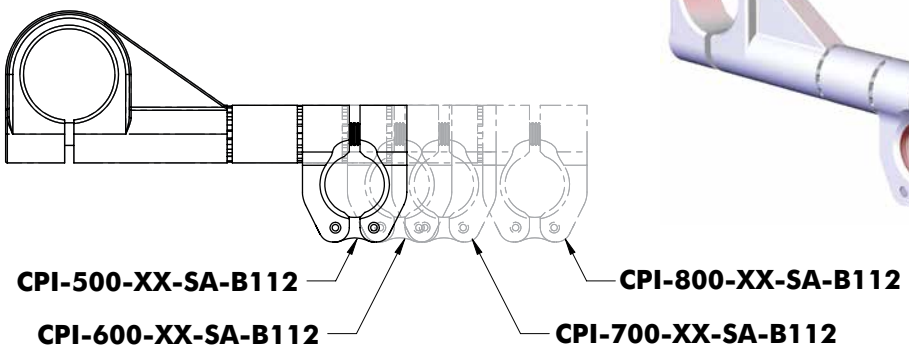


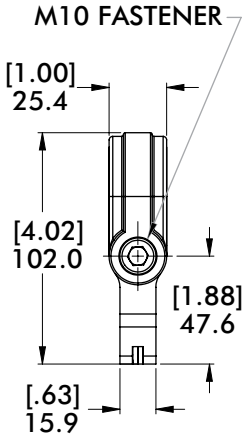
Model Number	(Ø)"D"	"A"	"B"	"C"	Weight	FINISH
CPI-**400-1**-SA-B112	**1.00"**(in)	[4.22] 107.2	[3.90] 98.9	[5.61] 142.6	[0.74 lb] 0.34 kg	SILVER
CPI-**100-25**-SA-B112	**25mm**					BLUE
CPI-**500-1**-SA-B112	**1.00"**(in)	[5.37] 136.3	[5.12] 129.9	[6.83] 173.5	[0.86 lb] 0.39 kg	SILVER
CPI-**140-25**-SA-B112	**25mm**					BLUE
CPI-**600-1**-SA-B112	**1.00"**(in)	[6.12] 155.3	[5.90] 149.7	[7.61] 193.4	[0.94 lb] 0.43 kg	SILVER
CPI-**160-25**-SA-B112	**25mm**					BLUE
CPI-**700-1**-SA-B112	**1.00"**(in)	[6.86] 174.3	[6.67] 169.3	[8.38] 212.9	[1.02 lb] 0.46 kg	SILVER
CPI-**180-25**-SA-B112	**25mm**					BLUE
CPI-**800-1**-SA-B112	**1.00"**(in)	[8.40] 213.5	[8.25] 209.4	[9.96] 253.0	[1.17 lb] 0.53 kg	SILVER
CPI-**200-25**-SA-B112	**25mm**					BLUE

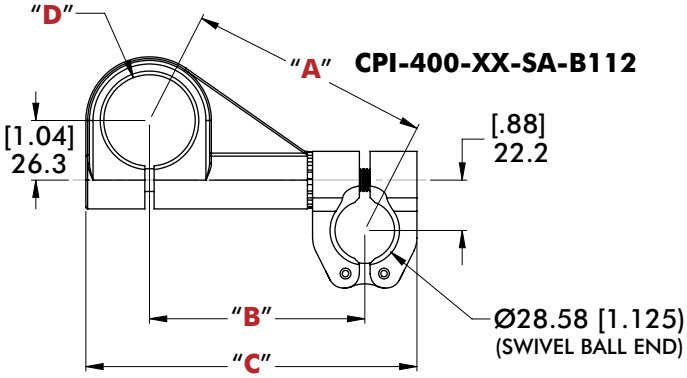
STANDARD SWIVEL ARMS

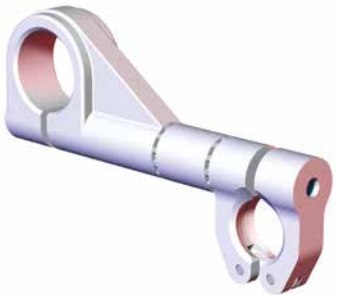
Round Tooling | Dimensions | Technical Specifications

SA-B112 Ø40mm/1.50″ for Ø28.6mm [1.125″] Spherical Swivel Ball









Model Number	(Ø)"D"	"A"	"B"	"C"	Weight	FINISH
CPI-**400-15**-SA-B112	**1.50"**(in)	[4.20] 106.7	[3.74] 95.0	[5.75] 146.1	[0.82 lb] 0.37 kg	SILVER
CPI-**100-40**-SA-B112	**40mm**					BLUE
CPI-**500-15**-SA-B112	**1.50"**(in)	[5.32] 135.0	[4.96] 126.0	[6.97] 177.1	[0.94 lb] 0.42 kg	SILVER
CPI-**140-40**-SA-B112	**40mm**					BLUE
CPI-**600-15**-SA-B112	**1.50"**(in)	[6.05] 153.7	[5.74] 145.8	[7.75] 196.9	[1.02 lb] 0.46 kg	SILVER
CPI-**160-40**-SA-B112	**40mm**					BLUE
CPI-**700-15**-SA-B112	**1.50"**(in)	[6.78] 172.3	[6.51] 165.4	[8.52] 216.5	[1.09 lb] 0.50 kg	SILVER
CPI-**180-40**-SA-B112	**40mm**					BLUE
CPI-**800-15**-SA-B112	**1.50"**(in)	[8.31] 211.1	[8.09] 205.5	[10.10] 256.6	[1.25 lb] 0.56 kg	SILVER
CPI-**200-40**-SA-B112	**40mm**					BLUE

STANDARD SWIVEL ARMS

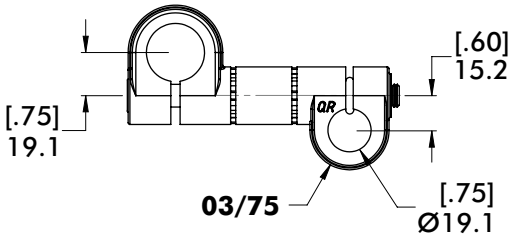
Round Tooling | Dimensions | Technical Specifications

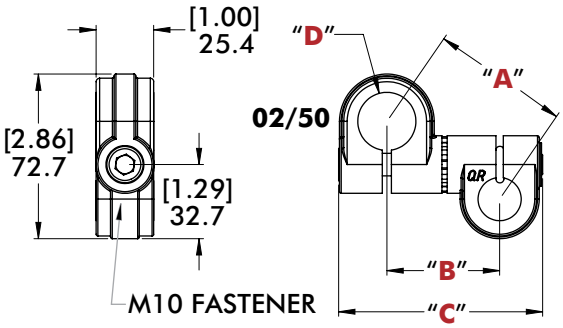
Features:

- Mounts apple core accessories to Ø25mm/1.00" round tube
- Provides 360° of rotational adjustments along (3) axes
- Used to mount venturi, bumpers, round locators, and proximity switches

Specifications:
Maximum Clamp Load:
200 ft-lb [271 Nm]
Material:
Body:
Cast Aluminum
Spacer:
Machined Aluminum

SAxx Single-Bolt Ø25mm/1.00" for Ø19.1mm [.75"] Apple Core





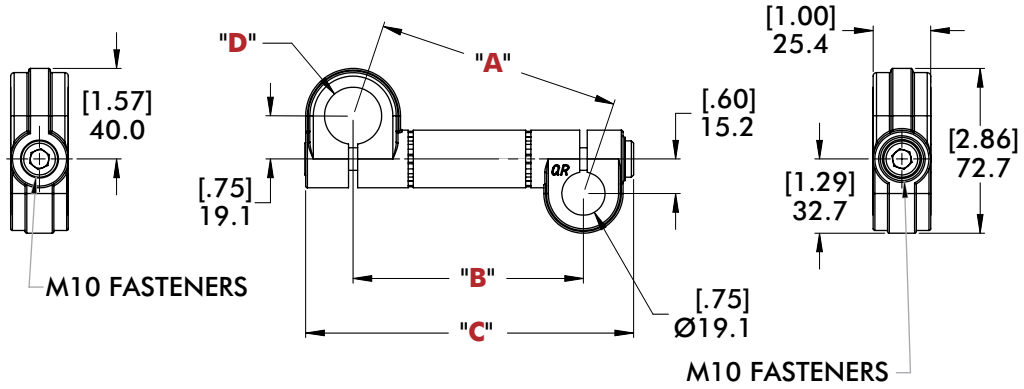
Model Number	(Ø)"D"	"A"	"B"	"C"	Weight	FINISH
CPI-SA**10-100-075-02**	**1.00"**(in)	[2.38] 60.4	[1.96] 49.8	[3.54] 90.0	[0.46 lb] 0.21 kg	SILVER
CPI-SA**25-25-19-50**	**25mm**					BLUE
CPI-SA**10-100-075-03**	**1.00"**(in)	[3.31] 84.1	[3.02] 76.8	[4.72] 120.0	[0.57 lb] 0.26 kg	SILVER
CPI-SA**25-25-19-75**	**25mm**					BLUE

Dimensions and technical information are subject to change without notice

STANDARD SWIVEL ARMS

Round Tooling | Dimensions | Technical Specifications

EDxx Double-Bolt Ø25mm/1.00" for Ø19.1mm [.75"] Apple Core



Model Number	(Ø)"D"	"A"	"B"	"C"	Weight	FINISH
CPI-ED**10-100-075-04**	**1.00"**(in)	[4.27] 108.4	[4.05] 102.9	[5.74] 145.9	[0.65 lb] 0.29 kg	SILVER
CPI-ED**25-25-19-100**	**25mm**	[4.22] 107.2	[4.00] 101.6	[5.69] 144.6		BLUE
CPI-ED**10-100-075-05**	**1.00"**(in)	[5.23] 132.8	[5.05] 128.3	[6.74] 171.3	[0.71 lb] 0.32 kg	SILVER
CPI-ED**10-100-075-06**	**1.00"**(in)	[6.20] 157.4	[6.05] 153.7	[7.74] 196.7	[0.78 lb] 0.36 kg	SILVER
CPI-ED**25-25-19-150**	**25mm**	[6.13] 155.7	[5.98] 151.9	[7.67] 194.2		BLUE
CPI-ED**10-100-075-07**	**1.00"**(in)	[7.18] 182.3	[7.05] 179.1	[8.74] 222.1	[0.85 lb] 0.39 kg	SILVER
CPI-ED**10-100-075-08**	**1.00"**(in)	[8.16] 207.3	[8.05] 204.5	[9.74] 247.5	[0.92 lb] 0.42 kg	SILVER
CPI-ED**25-25-19-200**	**25mm**	[8.06] 204.8	[7.95] 201.9	[9.64] 244.9		BLUE
CPI-ED**10-100-075-09**	**1.00"**(in)	[9.15] 232.4	[9.05] 229.9	[10.74] 272.9	[0.99 lb] 0.45 kg	SILVER
CPI-ED**10-100-075-10**	**1.00"**(in)	[10.14] 257.6	[10.05] 255.3	[11.74] 298.3	[1.06 lb] 0.48 kg	SILVER
CPI-ED**25-25-19-250**	**25mm**	[10.01] 254.3	[9.92] 252.0	[11.61] 295.0		BLUE
CPI-ED**10-100-075-11**	**1.00"**(in)	[11.13] 282.7	[11.05] 280.7	[12.74] 323.7	[1.13 lb] 0.51 kg	SILVER
CPI-ED**10-100-075-12**	**1.00"**(in)	[12.13] 308.0	[12.05] 306.1	[13.74] 349.0	[1.20 lb] 0.54 kg	SILVER
CPI-ED**25-25-19-300**	**25mm**	[11.97] 303.9	[11.89] 302.0	[13.58] 345.0		BLUE
CPI-ED**10-100-075-13**	**1.00"**(in)	[13.12] 338.2	[13.05] 331.5	[14.74] 374.5	[1.27 lb] 0.58 kg	SILVER
CPI-ED**10-100-075-14**	**1.00"**(in)	[14.11] 358.5	[14.05] 356.9	[15.74] 399.9	[1.34 lb] 0.61 kg	SILVER
CPI-ED**25-25-19-350**	**25mm**	[13.92] 353.4	[13.85] 351.8	[15.54] 394.8		BLUE
CPI-ED**10-100-075-15**	**1.00"**(in)	[15.11] 383.8	[15.05] 382.3	[16.74] 425.3	[1.41 lb] 0.64 kg	SILVER
CPI-ED**10-100-075-16**	**1.00"**(in)	[16.11] 409.1	[16.05] 407.7	[17.74] 450.7	[1.48 lb] 0.67 kg	SILVER
CPI-ED**25-25-19-400**	**25mm**	[15.88] 403.3	[15.82] 401.8	[17.51] 444.9		BLUE

STANDARD SWIVEL ARMS

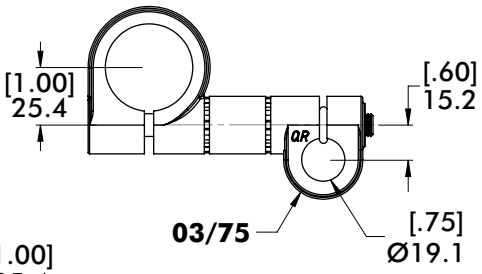
Round Tooling | Dimensions | Technical Specifications

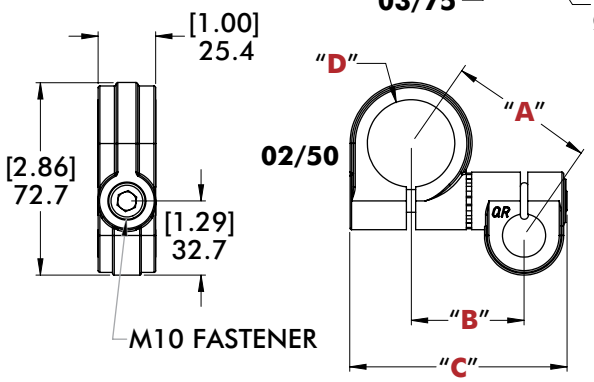
Features:

- Mounts apple core accessories to Ø40mm/1.50" round tube
- Provides 360° of rotational adjustments along (3) axes
- Used to mount venturi, bumpers, round locators, and proximity switches

Specifications:
Maximum Clamp Load:
200 ft-lb [271 Nm]
Material:
Body:
Cast Aluminum
Spacer:
Machined Aluminum

SAxx Single-Bolt Ø40mm/1.50" for Ø19.1mm [.75"] Apple Core





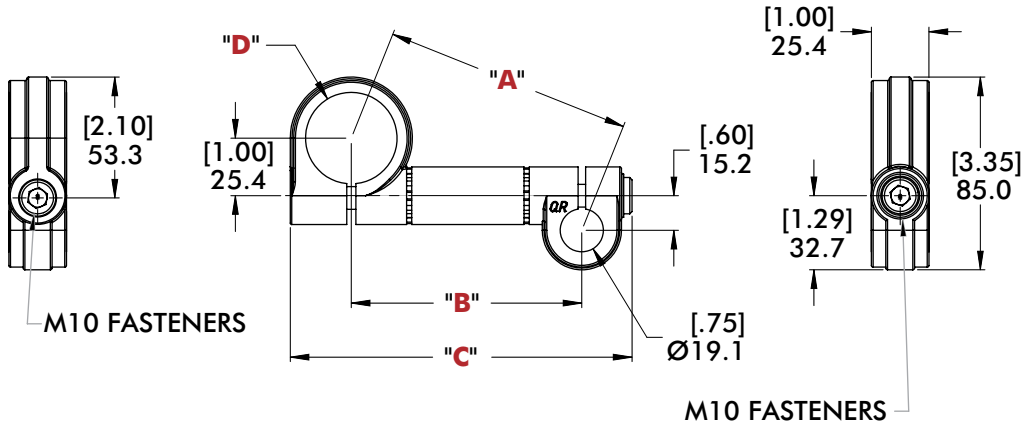
Model Number	(Ø)"D"	"A"	"B"	"C"	Weight	FINISH
CPI-SA**10-150-075-02**	**1.50"**(in)	[2.53] 64.3	[1.96] 49.8	[3.77] 95.9	[0.50 lb] 0.23 kg	SILVER
CPI-SA**25-40-19-50**	**40mm**					BLUE
CPI-SA**10-150-075-03**	**1.50"**(in)	[3.42] 87.0	[3.03] 76.9	[4.95] 125.9	[0.62 lb] 0.28 kg	SILVER
CPI-SA**25-40-19-75**	**40mm**					BLUE

Dimensions and technical information are subject to change without notice

STANDARD SWIVEL ARMS

Round Tooling | Dimensions | Technical Specifications

EDxx Double-Bolt Ø40mm/1.50" for Ø19.1mm [.75"] Apple Core

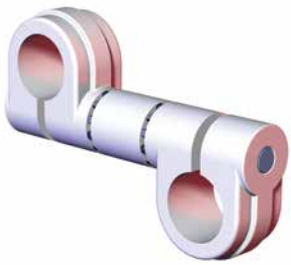


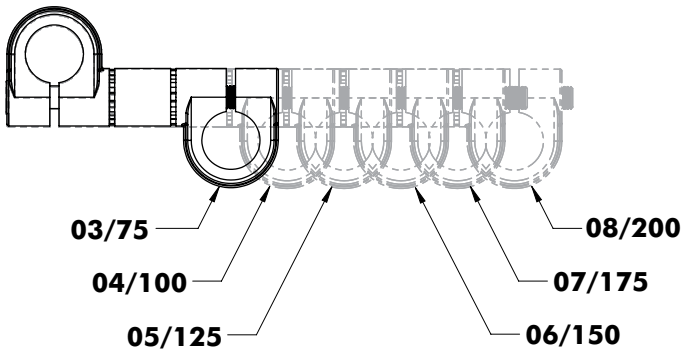
Model Number	(Ø)"D"	"A"	"B"	"C"	Weight	FINISH
CPI-ED**10-150-075-04**	**1.50"**(in)	[4.36] 110.7	[4.05] 102.9	[5.98] 152.0	[0.69 lb] 0.31 kg	SILVER
CPI-ED**25-40-19-100**	**40mm**	[4.31] 109.5	[4.00] 101.7	[5.93] 150.7		BLUE
CPI-ED**10-150-075-05**	**1.50"**(in)	[5.30] 134.6	[5.05] 128.3	[6.98] 177.4	[0.76 lb] 0.34 kg	SILVER
CPI-ED**10-150-075-06**	**1.50"**(in)	[6.26] 159.0	[6.05] 153.7	[7.98] 202.8	[0.83 lb] 0.38 kg	SILVER
CPI-ED**25-40-19-150**	**40mm**	[6.19] 157.3	[5.98] 152.0	[7.91] 201.0		BLUE
CPI-ED**10-150-075-07**	**1.50"**(in)	[7.23] 183.7	[7.05] 179.1	[8.98] 228.2	[0.90 lb] 0.41 kg	SILVER
CPI-ED**10-150-075-08**	**1.50"**(in)	[8.21] 208.5	[8.05] 204.5	[9.98] 253.6	[0.97 lb] 0.44 kg	SILVER
CPI-ED**25-40-19-200**	**40mm**	[8.11] 206.0	[7.95] 202.0	[9.88] 251.0		BLUE
CPI-ED**10-150-075-09**	**1.50"**(in)	[9.19] 233.5	[9.05] 229.9	[10.98] 279.0	[1.03 lb] 0.47 kg	SILVER
CPI-ED**10-150-075-10**	**1.50"**(in)	[10.18] 258.5	[10.05] 255.3	[11.98] 304.4	[1.10 lb] 0.50 kg	SILVER
CPI-ED**25-40-19-250**	**40mm**	[10.05] 255.3	[9.92] 252.0	[11.85] 308.1		BLUE
CPI-ED**10-150-075-11**	**1.50"**(in)	[11.17] 283.7	[11.05] 280.7	[12.98] 329.8	[1.17 lb] 0.53 kg	SILVER
CPI-ED**10-150-075-12**	**1.50"**(in)	[12.16] 308.8	[12.05] 306.1	[13.98] 355.2	[1.24 lb] 0.56 kg	SILVER
CPI-ED**25-40-19-300**	**40mm**	[12.00] 304.8	[11.89] 302.1	[13.82] 351.1		BLUE
CPI-ED**10-150-075-13**	**1.50"**(in)	[13.15] 334.0	[13.05] 331.5	[14.98] 380.6	[1.31 lb] 0.59 kg	SILVER
CPI-ED**10-150-075-14**	**1.50"**(in)	[14.14] 359.2	[14.05] 356.9	[15.98] 406.0	[1.38 lb] 0.63 kg	SILVER
CPI-ED**25-40-19-350**	**40mm**	[13.94] 354.2	[13.85] 351.9	[15.78] 400.9		BLUE
CPI-ED**10-150-075-15**	**1.50"**(in)	[15.14] 384.5	[15.05] 382.3	[16.98] 431.4	[1.45 lb] 0.66 kg	SILVER
CPI-ED**10-150-075-16**	**1.50"**(in)	[16.13] 409.8	[16.05] 407.7	[17.98] 456.8	[1.52 lb] 0.69 kg	SILVER
CPI-ED**25-40-19-400**	**40mm**	[15.90] 403.9	[15.82] 401.9	[18.00] 450.9		BLUE

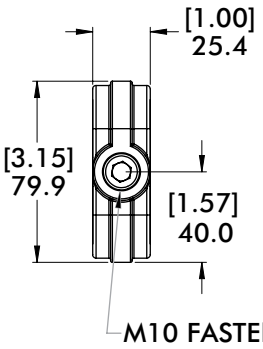
TRANSITION SWIVEL ARMS

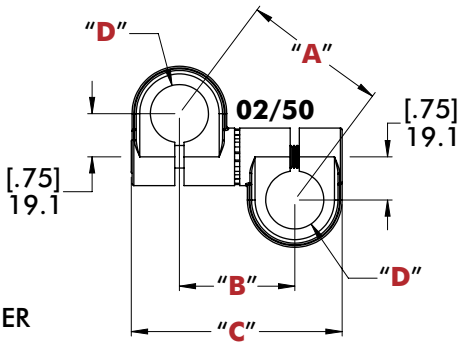
Round Tooling | Dimensions | Technical Specifications

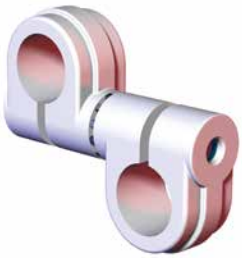
SAxx Single-Bolt Ø25mm/1.00" to 25mm/Ø1.00"











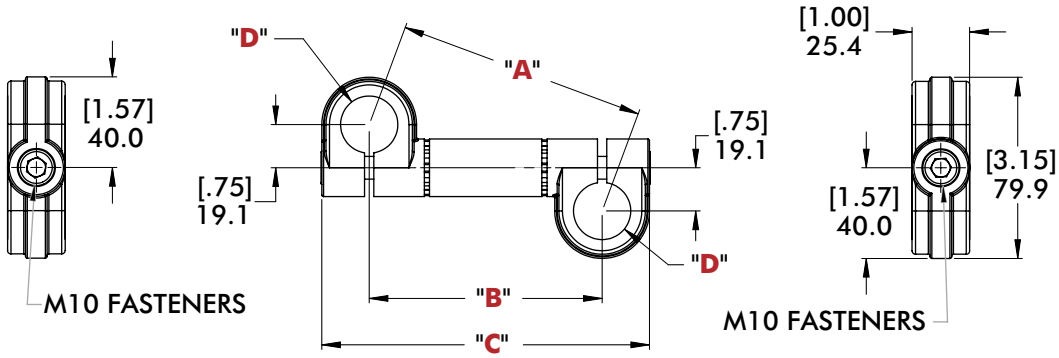
Model Number	(Ø)"D"	"A"	"B"	"C"	Weight	FINISH
CPI-SA**10-100-100-02**	**1.00"**(in)	[2.50] 63.6	[2.00] 50.9	[3.66] 93.1	[0.49 lb] 0.22 kg	SILVER
CPI-SA**25-25-25-50**	**25mm**					BLUE
CPI-SA**10-100-100-03**	**1.00"**(in)	[3.42] 86.7	[3.07] 77.9	[4.73] 120.1	[0.60 lb] 0.27 kg	SILVER
CPI-SA**25-25-25-75**	**25mm**					BLUE
CPI-SA**10-100-100-04**	**1.00"**(in)	[4.31] 109.6	[4.04] 102.7	[5.70] 144.9	[0.69 lb] 0.31 kg	SILVER
CPI-SA**25-25-25-100**	**25mm**					BLUE
CPI-SA**10-100-100-05**	**1.00"**(in)	[5.25] 133.4	[5.03] 127.9	[6.69] 170.0	[0.79 lb] 0.36 kg	SILVER
CPI-SA**25-25-25-125**	**25mm**					BLUE
CPI-SA**10-100-100-06**	**1.00"**(in)	[6.21] 157.7	[6.02] 153.0	[7.68] 195.2	[0.88 lb] 0.40 kg	SILVER
CPI-SA**25-25-25-150**	**25mm**					BLUE
CPI-SA**10-100-100-07**	**1.00"**(in)	[7.16] 181.9	[7.00] 177.9	[9.06] 230.0	[1.00 lb] 0.45 kg	SILVER
CPI-SA**25-25-25-175**	**25mm**					BLUE
CPI-SA**10-100-100-08**	**1.00"**(in)	[8.13] 206.6	[7.99] 203.0	[9.84] 250.0	[1.09 lb] 0.50 kg	SILVER
CPI-SA**25-25-25-200**	**25mm**					BLUE

Dimensions and technical information are subject to change without notice

TRANSITION SWIVEL ARMS

Round Tooling | Dimensions | Technical Specifications

EDxx Double-Bolt Ø25mm/1.00" to Ø25mm/1.00"

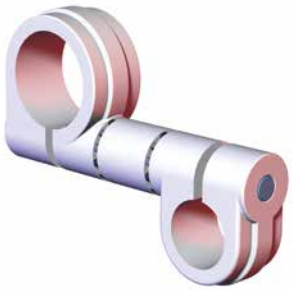


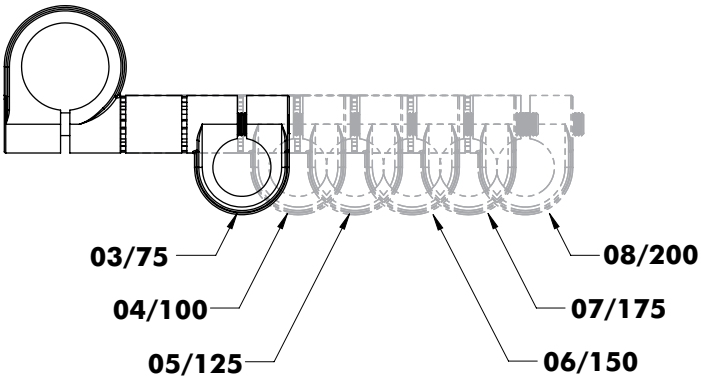
Model Number	(Ø)"D"	"A"	"B"	"C"	Weight	FINISH
CPI-ED**10-100-100-04**	**1.00"**(in)	[4.36] 110.7	[4.09] 104.0	[5.74] 145.8	[0.67 lb] 0.30 kg	SILVER
CPI-ED**25-25-25-100**	**25mm**	[4.31] 109.6	[4.04] 102.7	[5.69] 144.5		BLUE
CPI-ED**10-100-100-05**	**1.00"**(in)	[5.31] 134.9	[5.09] 129.4	[6.74] 171.2	[0.74 lb] 0.34 kg	SILVER
CPI-ED**10-100-100-06**	**1.00"**(in)	[6.28] 159.4	[6.09] 154.8	[7.74] 196.6	[0.81 lb] 0.37 kg	SILVER
CPI-ED**25-25-25-150**	**25mm**	[6.21] 157.7	[6.02] 153.0	[7.67] 194.8		BLUE
CPI-ED**10-100-100-07**	**1.00"**(in)	[7.25] 184.2	[7.09] 180.2	[8.74] 222.0	[0.88 lb] 0.40 kg	SILVER
CPI-ED**10-100-100-08**	**1.00"**(in)	[8.23] 209.1	[8.09] 205.6	[9.74] 247.4	[0.95 lb] 0.43 kg	SILVER
CPI-ED**25-25-25-200**	**25mm**	[8.13] 206.6	[7.99] 203.0	[9.64] 244.9		BLUE
CPI-ED**10-100-100-09**	**1.00"**(in)	[9.22] 234.1	[9.09] 231.0	[10.74] 272.8	[1.02 lb] 0.46 kg	SILVER
CPI-ED**10-100-100-10**	**1.00"**(in)	[10.20] 259.2	[10.09] 256.4	[11.74] 298.2	[1.09 lb] 0.49 kg	SILVER
CPI-ED**25-25-25-250**	**25mm**	[10.08] 255.9	[9.96] 253.1	[11.61] 294.9		BLUE
CPI-ED**10-100-100-11**	**1.00"**(in)	[11.19] 284.4	[11.09] 281.8	[12.74] 323.6	[1.15 lb] 0.52 kg	SILVER
CPI-ED**10-100-100-12**	**1.00"**(in)	[12.19] 309.5	[12.09] 307.2	[13.74] 349.0	[1.22 lb] 0.56 kg	SILVER
CPI-ED**25-25-25-300**	**25mm**	[12.03] 305.5	[11.93] 303.1	[13.58] 344.9		BLUE
CPI-ED**10-100-100-13**	**1.00"**(in)	[13.18] 334.8	[13.09] 332.6	[14.74] 374.4	[1.29 lb] 0.59 kg	SILVER
CPI-ED**10-100-100-14**	**1.00"**(in)	[14.17] 360.0	[14.09] 358.0	[15.74] 399.8	[1.36 lb] 0.62 kg	SILVER
CPI-ED**25-25-25-350**	**25mm**	[13.97] 355.0	[13.89] 352.9	[15.54] 394.7		BLUE
CPI-ED**10-100-100-15**	**1.00"**(in)	[15.17] 385.3	[15.09] 383.4	[16.74] 425.2	[1.43 lb] 0.65 kg	SILVER
CPI-ED**10-100-100-16**	**1.00"**(in)	[16.16] 410.6	[16.09] 408.8	[17.74] 450.6	[1.50 lb] 0.68 kg	SILVER
CPI-ED**25-25-25-400**	**25mm**	[15.93] 404.7	[15.86] 402.9	[17.51] 444.8		BLUE

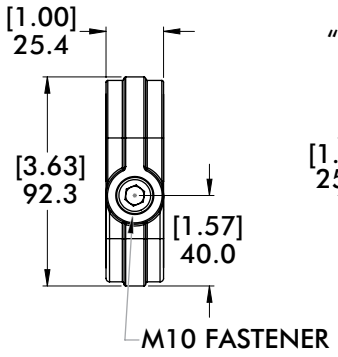
TRANSITION SWIVEL ARMS

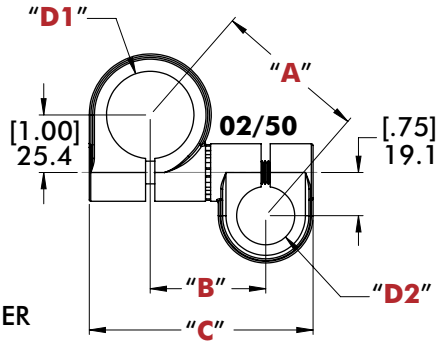
Round Tooling | Dimensions | Technical Specifications

SAxx Single-Bolt Ø40mm/1.50" to Ø25mm/1.00"









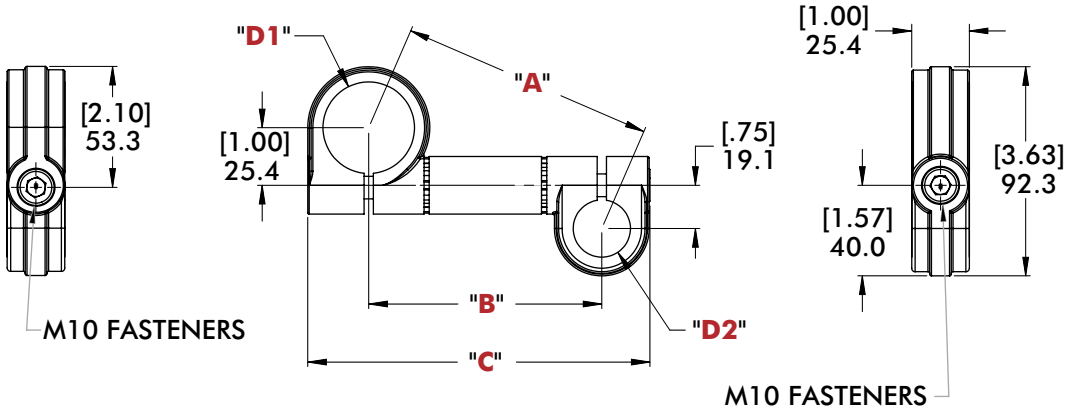
Model Number	(Ø)"D1"	(Ø)"D2"	"A"	"B"	"C"	Weight	FINISH
CPI-SA**10-150-100-02**	**1.50"**(in)	**1.00"**(in)	[2.66] 67.6	[2.01] 51.0	[3.89] 98.8	[0.53 lb] 0.24 kg	SILVER
CPI-SA**25-40-25-50**	**40mm**	**25mm**					BLUE
CPI-SA**10-150-100-03**	**1.50"**(in)	**1.00"**(in)	[3.53] 89.8	[3.07] 78.0	[4.95] 125.7	[0.64 lb] 0.29 kg	SILVER
CPI-SA**25-40-25-75**	**40mm**	**25mm**					BLUE
CPI-SA**10-150-100-04**	**1.50"**(in)	**1.00"**(in)	[4.41] 112.0	[4.05] 102.8	[5.93] 150.6	[0.73 lb] 0.33 kg	SILVER
CPI-SA**25-40-25-100**	**40mm**	**25mm**					BLUE
CPI-SA**10-150-100-05**	**1.50"**(in)	**1.00"**(in)	[5.33] 135.4	[5.04] 127.9	[6.92] 175.8	[0.83 lb] 0.38 kg	SILVER
CPI-SA**25-40-25-125**	**40mm**	**25mm**					BLUE
CPI-SA**10-150-100-06**	**1.50"**(in)	**1.00"**(in)	[6.28] 159.4	[6.03] 153.1	[7.91] 200.9	[0.93 lb] 0.42 kg	SILVER
CPI-SA**25-40-25-150**	**40mm**	**25mm**					BLUE
CPI-SA**10-150-100-07**	**1.50"**(in)	**1.00"**(in)	[7.22] 183.4	[7.01] 178.0	[8.89] 225.8	[1.04 lb] 0.47 kg	SILVER
CPI-SA**25-40-25-175**	**40mm**	**25mm**					BLUE
CPI-SA**10-150-100-08**	**1.50"**(in)	**1.00"**(in)	[8.19] 207.9	[8.00] 203.1	[9.88] 251.0	[1.13 lb] 0.51 kg	SILVER
CPI-SA**25-40-25-200**	**40mm**	**25mm**					BLUE

Dimensions and technical information are subject to change without notice

TRANSITION SWIVEL ARMS

Round Tooling | Dimensions | Technical Specifications

EDxx Double-Bolt Ø40mm/1.50" to Ø25mm/1.00"

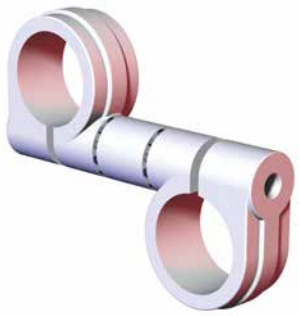


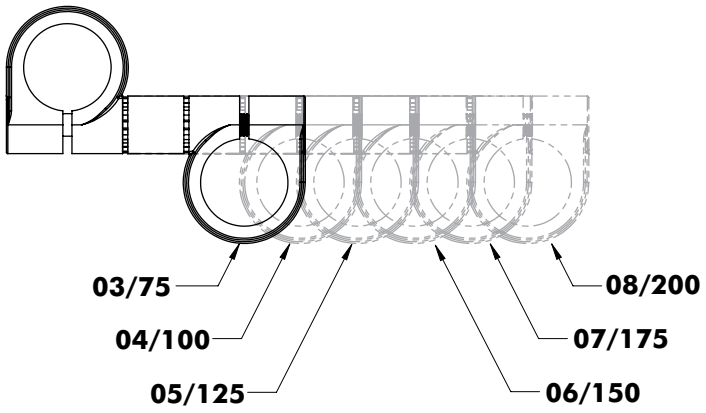
Model Number	(Ø)"D1"	(Ø)"D2"	"A"	"B"	"C"	Weight	FINISH
CPI-ED**10-150-100-04**	**1.50"**(in)	**1.00"**(in)	[4.46] 113.2	[4.10] 104.1	[5.98] 151.9	[0.71 lb] 0.32 kg	SILVER
CPI-ED**25-40-25-100**	**40mm**	**25mm**	[4.41] 112.8	[4.05] 102.8	[5.93] 150.6		BLUE
CPI-ED**10-150-100-05**	**1.50"**(in)	**1.00"**(in)	[5.39] 136.9	[5.10] 129.5	[6.98] 177.3	[0.78 lb] 0.36 kg	SILVER
CPI-ED**10-150-100-06**	**1.50"**(in)	**1.00"**(in)	[6.34] 161.1	[6.10] 154.9	[7.98] 202.7	[0.85 lb] 0.39 kg	SILVER
CPI-ED**25-40-25-150**	**40mm**	**25mm**	[6.28] 159.4	[6.03] 153.1	[7.91] 200.9		BLUE
CPI-ED**10-150-100-07**	**1.50"**(in)	**1.00"**(in)	[7.31] 185.7	[7.10] 180.3	[8.98] 228.1	[0.92 lb] 0.42 kg	SILVER
CPI-ED**10-150-100-08**	**1.50"**(in)	**1.00"**(in)	[8.28] 210.4	[8.10] 205.7	[9.98] 253.5	[0.99 lb] 0.45 kg	SILVER
CPI-ED**25-40-25-200**	**40mm**	**25mm**	[8.19] 207.9	[8.00] 203.1	[9.88] 251.0		BLUE
CPI-ED**10-150-100-09**	**1.50"**(in)	**1.00"**(in)	[9.26] 235.3	[9.10] 231.1	[10.98] 278.9	[1.06 lb] 0.48 kg	SILVER
CPI-ED**10-150-100-10**	**1.50"**(in)	**1.00"**(in)	[10.25] 260.3	[10.10] 256.5	[11.98] 304.3	[1.13 lb] 0.51 kg	SILVER
CPI-ED**25-40-25-250**	**40mm**	**25mm**	[10.12] 257.03	[9.97] 253.2	[11.85] 301.0		BLUE
CPI-ED**10-150-100-11**	**1.50"**(in)	**1.00"**(in)	[11.23] 285.3	[11.10] 281.9	[12.98] 329.7	[1.20 lb] 0.54 kg	SILVER
CPI-ED**10-150-100-12**	**1.50"**(in)	**1.00"**(in)	[12.22] 310.5	[12.10] 307.3	[13.98] 355.1	[1.27 lb] 0.57 kg	SILVER
CPI-ED**25-40-25-300**	**40mm**	**25mm**	[12.06] 306.4	[11.94] 303.2	[13.82] 351.03		BLUE
CPI-ED**10-150-100-13**	**1.50"**(in)	**1.00"**(in)	[13.21] 335.6	[13.10] 332.7	[14.98] 380.5	[1.34 lb] 0.61 kg	SILVER
CPI-ED**10-150-100-14**	**1.50"**(in)	**1.00"**(in)	[14.21] 360.8	[14.10] 358.1	[15.98] 405.9	[1.41 lb] 0.64 kg	SILVER
CPI-ED**25-40-25-350**	**40mm**	**25mm**	[14.00] 355.8	[13.90] 353.0	[15.78] 400.8		BLUE
CPI-ED**10-150-100-15**	**1.50"**(in)	**1.00"**(in)	[15.20] 386.0	[15.10] 383.5	[16.98] 431.3	[1.47 lb] 0.67 kg	SILVER
CPI-ED**10-150-100-16**	**1.50"**(in)	**1.00"**(in)	[16.19] 411.3	[16.10] 408.9	[17.98] 456.7	[1.54 lb] 0.70 kg	SILVER
CPI-ED**25-40-25-400**	**40mm**	**25mm**	[15.96] 405.5	[15.87] 403.0	[17.75] 450.9		BLUE

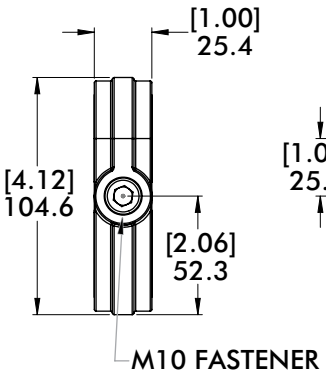
TRANSITION SWIVEL ARMS

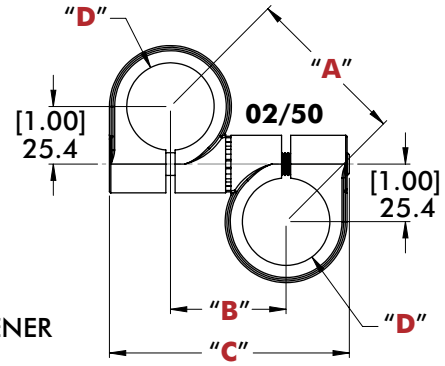
Round Tooling | Dimensions | Technical Specifications

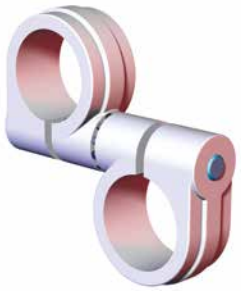
SAxx Single-Bolt Ø40mm/1.50" to Ø40mm/1.50"











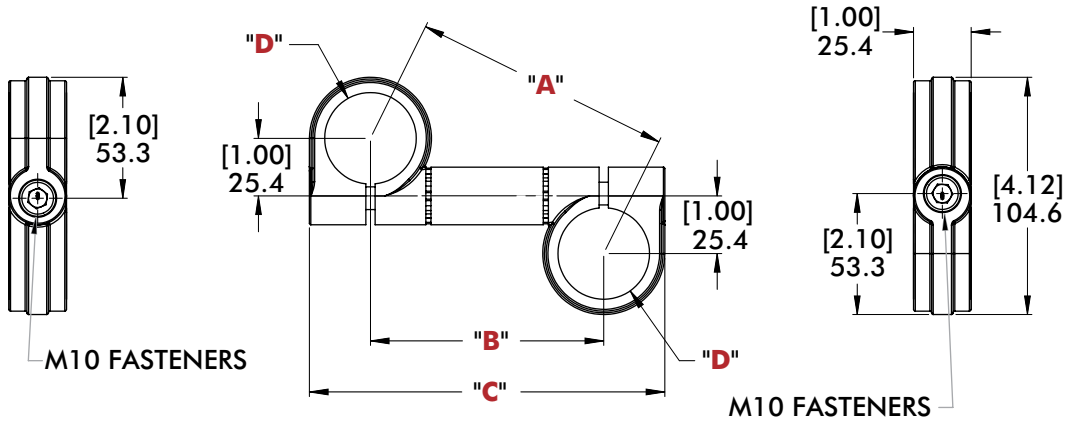
Model Number	(Ø)"D"	"A"	"B"	"C"	Weight	FINISH
CPI-SA**10-150-150-02**	**1.50"**(in)	[2.84] 72.0	[2.01] 51.1	[4.17] 105.9	[0.59 lb] 0.27 kg	SILVER
CPI-SA**25-40-40-50**	**40mm**					BLUE
CPI-SA**10-150-150-03**	**1.50"**(in)	[3.67] 93.2	[3.07] 78.1	[5.19] 131.9	[0.69 lb] 0.31 kg	SILVER
CPI-SA**25-40-40-75**	**40mm**					BLUE
CPI-SA**10-150-150-04**	**1.50"**(in)	[4.52] 114.7	[4.05] 102.9	[6.17] 156.7	[0.79 lb] 0.36 kg	SILVER
CPI-SA**25-40-40-100**	**40mm**					BLUE
CPI-SA**10-150-150-05**	**1.50"**(in)	[5.42] 137.7	[5.04] 128.0	[7.16] 181.9	[0.88 lb] 0.40 kg	SILVER
CPI-SA**25-40-40-125**	**40mm**					BLUE
CPI-SA**10-150-150-06**	**1.50"**(in)	[6.35] 161.4	[6.03] 153.2	[8.15] 207.0	[0.97 lb] 0.44 kg	SILVER
CPI-SA**25-40-40-150**	**40mm**					BLUE
CPI-SA**10-150-150-07**	**1.50"**(in)	[7.29] 185.2	[7.01] 178.1	[9.13] 231.9	[1.09 lb] 0.49 kg	SILVER
CPI-SA**25-40-40-175**	**40mm**					BLUE
CPI-SA**10-150-150-08**	**1.50"**(in)	[8.25] 209.5	[8.00] 203.2	[10.12] 257.0	[0.54 lb] 1.18 kg	SILVER
CPI-SA**25-40-40-200**	**40mm**					BLUE

Dimensions and technical information are subject to change without notice

TRANSITION SWIVEL ARMS

Round Tooling | Dimensions | Technical Specifications

EDxx Double-Bolt Ø40mm/1.50" to Ø40mm/1.50"

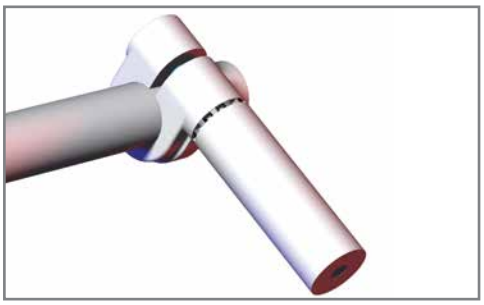


Model Number	(Ø)"D"	"A"	"B"	"C"	Weight	FINISH
CPI-ED**10-150-150-04**	**1.50"**(in)	[4.56] 115.9	[4.10] 104.1	[6.22] 158.0	[0.76 lb] 0.34 kg	SILVER
CPI-ED**25-40-40-100**	**40mm**	[4.52] 114.7	[4.05] 102.9	[6.17] 156.7		BLUE
CPI-ED**10-150-150-06**	**1.50"**(in)	[6.42] 163.1	[6.10] 154.9	[8.22] 208.8	[0.90 lb] 0.41 kg	SILVER
CPI-ED**25-40-40-150**	**40mm**	[6.35] 161.4	[6.03] 153.2	[8.15] 207.0		BLUE
CPI-ED**10-150-150-08**	**1.50"**(in)	[8.34] 211.9	[8.10] 205.7	[10.22] 259.6	[1.03 lb] 0.47 kg	SILVER
CPI-ED**25-40-40-200**	**40mm**	[8.25] 209.5	[8.00] 203.2	[10.12] 257.0		BLUE
CPI-ED**10-150-150-10**	**1.50"**(in)	[10.30] 261.5	[10.10] 256.4	[12.22] 310.4	[1.17 lb] 0.53 kg	SILVER
CPI-ED**25-40-40-250**	**40mm**	[10.17] 258.3	[9.97] 253.2	[12.09] 307.1		BLUE
CPI-ED**10-150-150-12**	**1.50"**(in)	[12.27] 311.5	[12.10] 307.3	[14.22] 361.2	[1.31 lb] 0.59 kg	SILVER
CPI-ED**25-40-40-300**	**40mm**	[12.11] 307.5	[11.94] 303.3	[14.06] 357.1		BLUE
CPI-ED**10-150-150-14**	**1.50"**(in)	[14.24] 361.7	[14.10] 358.1	[16.22] 411.98	[1.45 lb] 0.66 kg	SILVER
CPI-ED**25-40-40-350**	**40mm**	[14.03] 356.7	[13.90] 353.1	[16.02] 406.9		BLUE
CPI-ED**10-150-150-16**	**1.50"**(in)	[16.22] 412.1	[16.10] 408.9	[18.22] 462.7	[1.59 lb] 0.72 kg	SILVER
CPI-ED**25-40-40-400**	**40mm**	[16.00] 406.3	[15.87] 403.1	[18.00] 457.0		BLUE

SINGLE END EXTENSIONS

Round Tooling | Dimensions | Technical Specifications

ES Rod End and Mounting Extensions



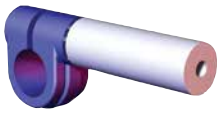
Features:

- Mounts to round tube for extended mounting options
- Provides 360° of rotational adjustments along a single axis

Specifications:

Maximum Clamp Load:
200 ft-lb [271 Nm]
Material:
Body:
Cast Aluminum
Extension:
Machined Aluminum

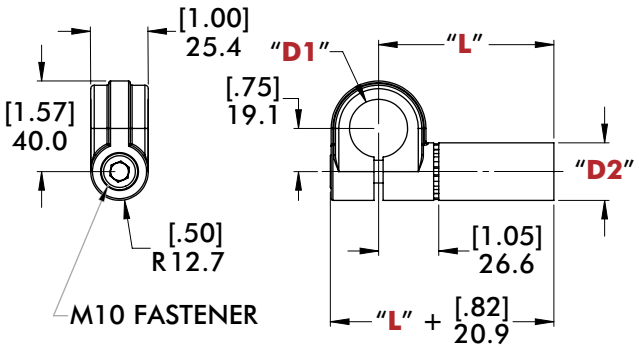
ES Ø25mm/1.00" Rod End Extensions



"L" = Specify Length from Below

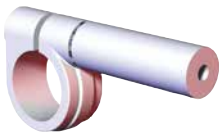
English Lengths:
From 03(3.00") to 28(28.00")
in 1.00" Increments
Order Example
CPI-ES10-100-06 (6.00" Length)

Metric Lengths:
From 50(50mm) to 400(400mm)
in 50mm Increments
Order Example
CPI-ES25-25-250 (250mm Length)



Model Number	(Ø)"D1"	(Ø)"D2"	Weight (Base + Additional Increments)	FINISH
CPI-ES**10-100**-"L"	**1.00"**(in)	**1.00"**(in)	Base Length "L" 03 = 0.19 kg [0.42 lb] Add .031 kg [.068 lb] per additional increment	SILVER
CPI-ES**25-25**-"L"	**25mm**	**25mm**	Base Length "L" 100 = 0.22 kg [0.49 lb] Add .061 kg [.134 lb] per additional increment	BLUE

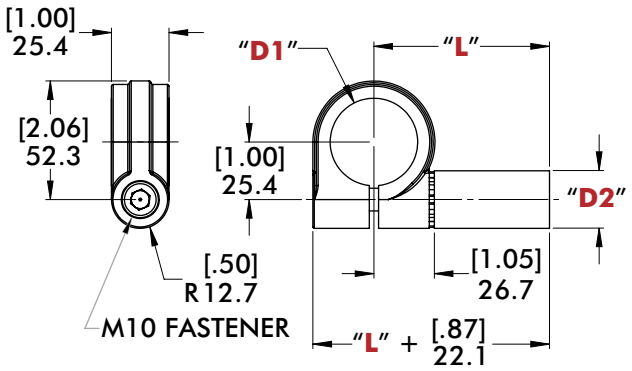
ES Ø40mm/1.50" Rod End Extensions



"L" = Specify Length from Below

English Lengths:
From 03(3.00") to 28(28.00")
in 1.00" Increments
Order Example
CPI-ES10-150-06 (6.00" Length)

Metric Lengths:
From 50(50mm) to 400(400mm)
in 50mm Increments
Order Example
CPI-ES25-40-250 (250mm Length)



Model Number	(Ø)"D1"	(Ø)"D2"	Weight (Base + Additional Increments)	FINISH
CPI-ES**10-150**-"L"	**1.50"**(in)	**1.00"**(in)	Base Length "L" 03 = 0.21 kg [0.46 lb] Add .031 kg [.068 lb] per additional increment	SILVER
CPI-ES**25-40**-"L"	**40mm**	**25mm**	Base Length "L" 100 = 0.23 kg [0.51 lb] Add .061 kg [.134 lb] per additional increment	BLUE

Dimensions and technical information are subject to change without notice

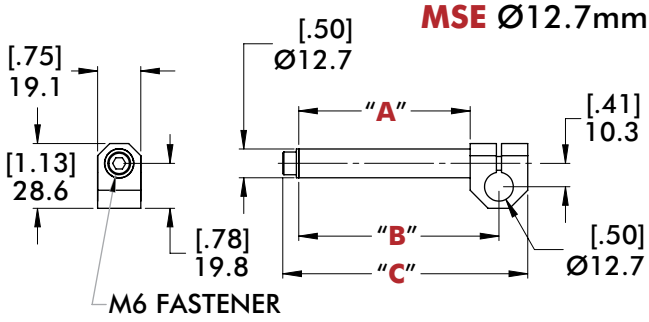
SINGLE END EXTENSIONS

Round Tooling | Dimensions | Technical Specifications

Nominal (Ø) given
See chart on Page 72
for actual (Ø) size

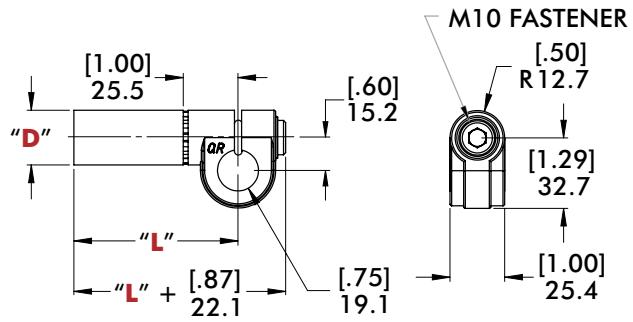
Mounting End Extensions
CPI-ES10-075-06
(Shown Above)

MSE Ø12.7mm [.50"] Extension (Micro)



Model Number	"A"	"B"	"C"	Weight
CPI-MSE-50-50-**03**	[2.98] 75.6	[3.48] 88.3	[4.25] 108.1	[0.14 lb] 0.06 kg
CPI-MSE-50-50-**06**	[5.73] 145.5	[6.23] 158.2	[7.00] 177.9	[0.20 lb] 0.09 kg

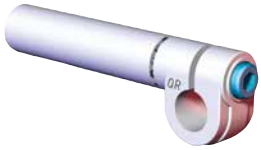
ES Ø25mm/1.00" Extension for Ø19.1mm [.75"] Apple Core



"L" = Specify Length from Below

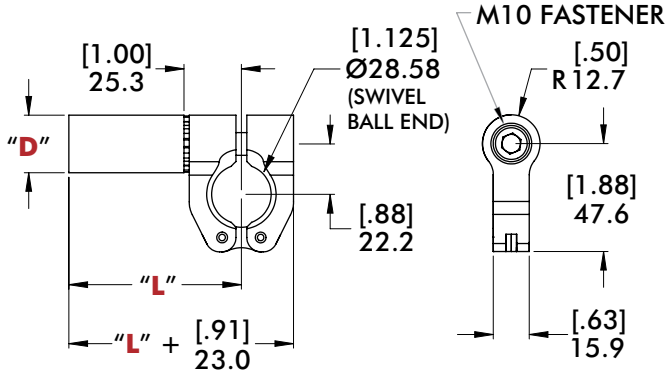
English Lengths:
From 03(3.00") to 28(28.00")
in 1.00" Increments
Order Example
CPI-ES10-075-06 (6.00" Length)

Metric Lengths:
From 50(50mm) to 400(400mm)
in 50mm Increments
Order Example
CPI-ES25-19-250 (250mm Length)



Model Number	(Ø)"D"	Weight *(Base + Additional Increments)*	FINISH
CPI-ES**10-075**-"L"	**1.00"**(in)	Base Length "L" 03 = 0.17 kg [0.38 lb] *Add .031 kg [.068 lb] per additional increment*	SILVER
CPI-ES**25-19**-"L"	**25mm**	Base Length "L" 100 = 0.22 kg [0.49 lb] *Add .031 kg [.068 lb] per additional increment*	BLUE

ESxx Ø25mm/1.00" Extension for Ø28.6mm [1.125"] Spherical Swivel Ball



"L" = Specify Length from Below

English Lengths:
From 03(3.00") to 18(18.00")
in 1.00" Increments
Order Example
CPI-ES10-B112-06 (6.00" Length)

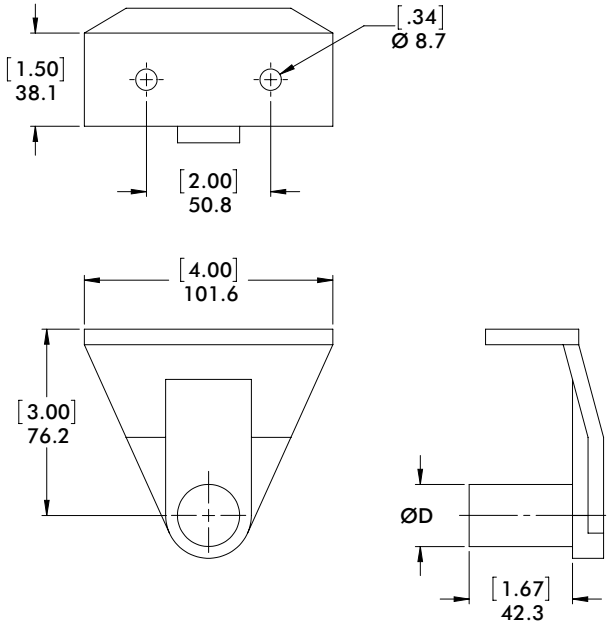
Metric Lengths
From 50 (50mm) to 400(400mm)
in 25mm Increments
Order Example
CPI-ES25-B112-75 (75mm Length)

Model Number	(Ø)"D"	Weight *(Base + Additional Increments)*	FINISH
CPI-ES**10**-B112-"L"	**1.00"**(in)	Base Length "L" 03 = 0.23 kg [0.51 lb] Add .031 kg [.068 lb] per additional increment	SILVER
CPI-ES**25**-B112-"L"	**25mm**	Base Length "L" 100 = 0.23 kg [0.51 lb] Add .029 kg [.064 lb] per additional increment	BLUE

NEST PAD BRACKETS

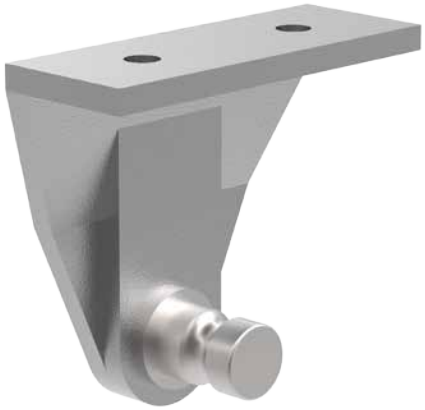
Round Tooling | Dimensions | Technical Specifications

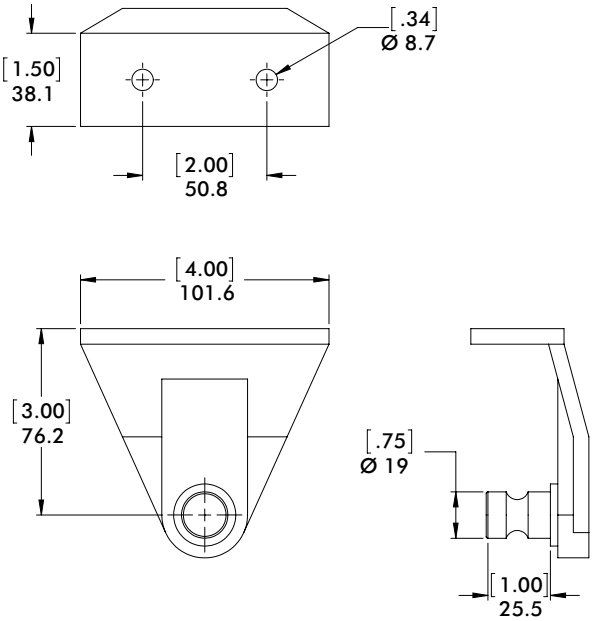
EST



Model Number	ØD	Weight
CPI-EST-00-1E-24	1 in	142 g [5 oz.]
CPI-EST-00-25-410	25mm	142 g [5 oz.]

EST Apple Core Version





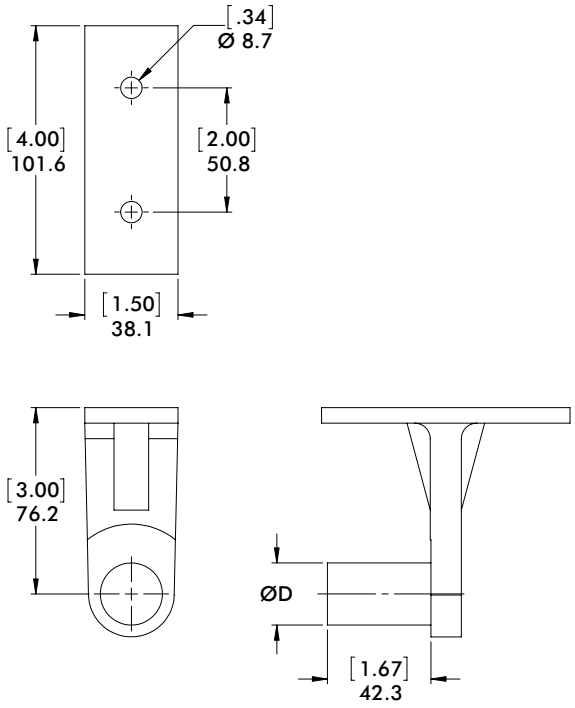
Model Number	Weight
CPI-EST-00-075-24	142 g [5 oz.]
CPI-EST-00-19-410	142 g [5 oz.]

Dimensions and technical information are subject to change without notice

NEST PAD BRACKETS

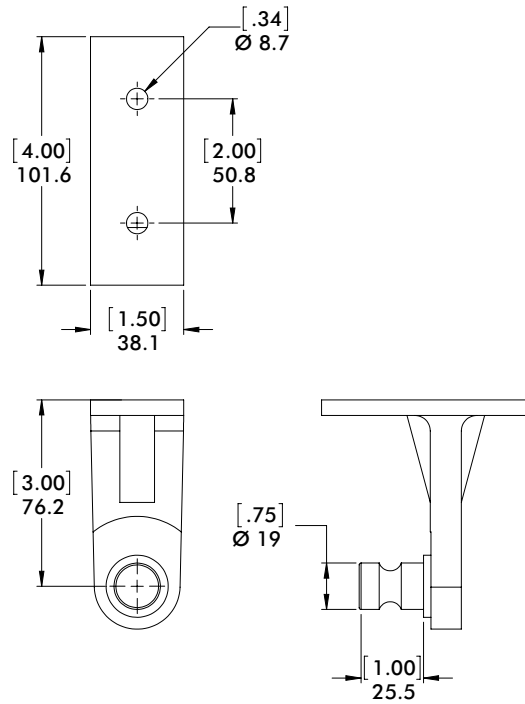
Round Tooling | Dimensions | Technical Specifications

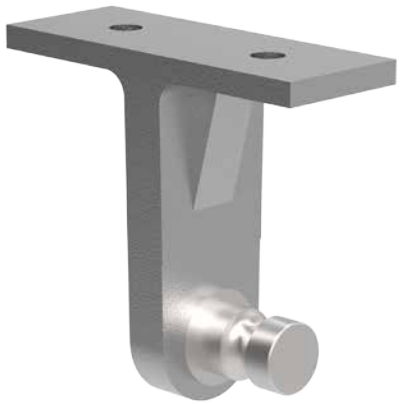
EST 90° Version



Model Number	ØD	Weight
CPI-EST-90-1E-24	1 in	142 g [5 oz.]
CPI-EST-90-25E-410	25mm	142 g [5 oz.]

EST Apple Core 90° Version



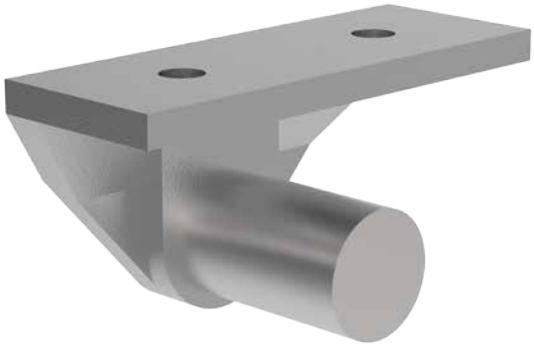


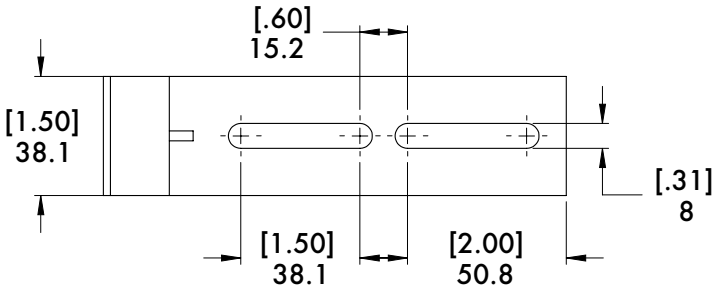
Model Number	Weight
CPI-EST-90-075-24	142 g [5 oz.]
CPI-EST-90-19-410	142 g [5 oz.]

NEST PAD BRACKETS

Round Tooling | Dimensions | Technical Specifications

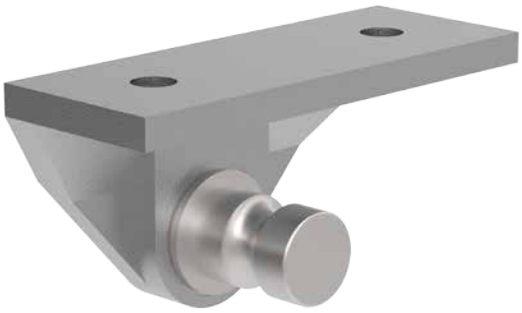
AB Version

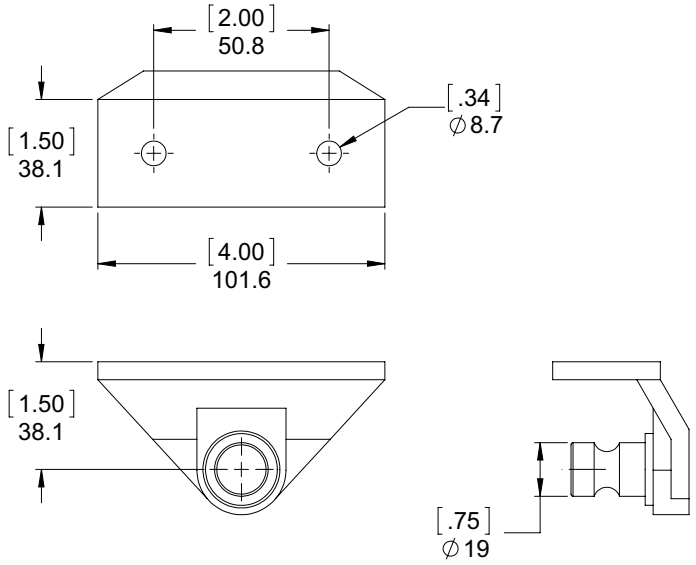




Model Number	ØD	Weight
CPI-AB-00-1E-24	1 in	142 g [5 oz.]
CPI-AB-25-410	25mm	142 g [5 oz.]

AB Apple Core Version





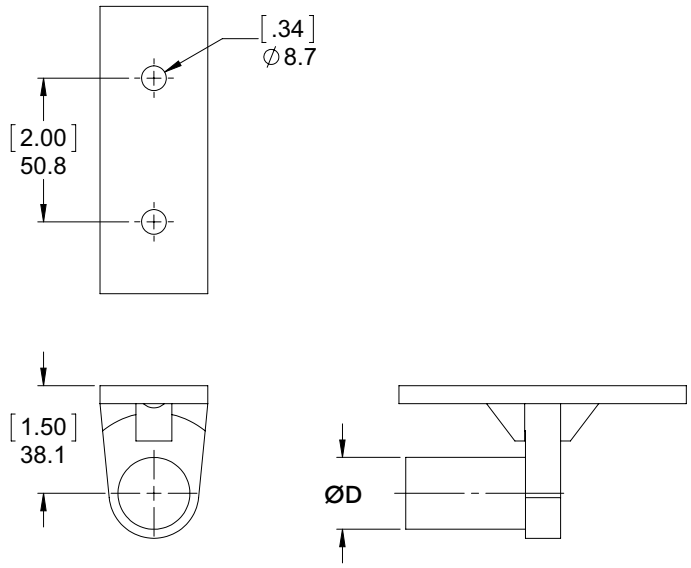
Model Number	Weight
CPI-AB-750-24	142 g [5 oz.]
CPI-AB-19-410	142 g [5 oz.]

Dimensions and technical information are subject to change without notice

NEST PAD BRACKETS

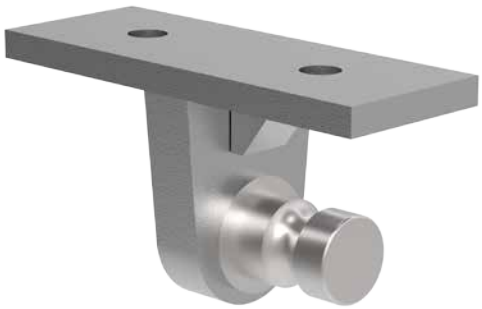
Round Tooling | Dimensions | Technical Specifications

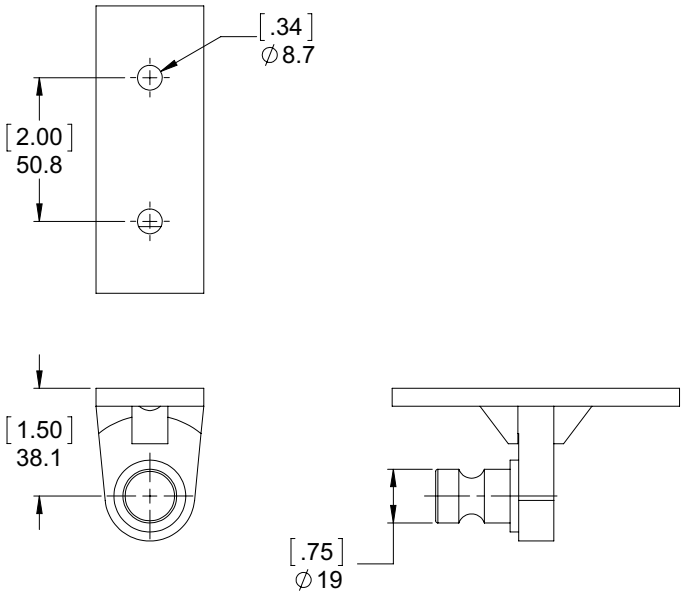
AB 90° Version



Model Number	ØD	Weight
CPI-AB-90-1E-24	1 in	142 g [5 oz.]
CPI-AB-90-25-410	25mm	142 g [5 oz.]

AB Apple Core 90° Version



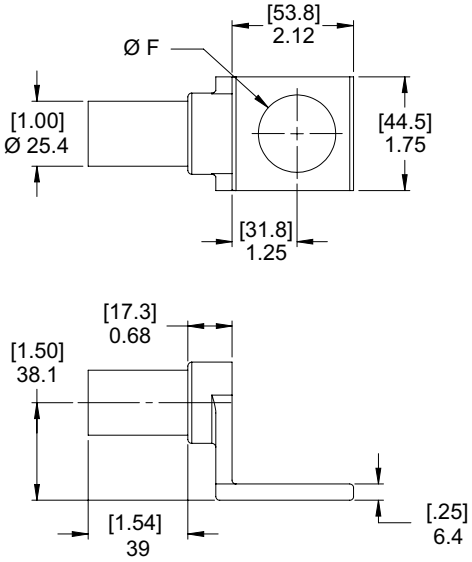


Model Number	Weight
CPI-AB-90-24	142 g [5 oz.]
CPI-AB-90-19-410	142 g [5 oz.]

PROXIMITY SWITCH MOUNT

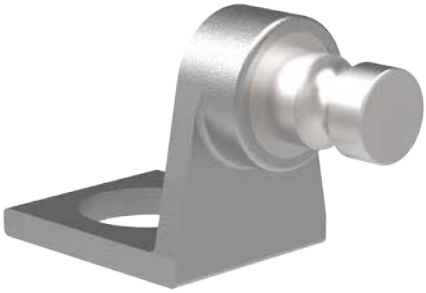
Round Tooling | Dimensions | Technical Specifications

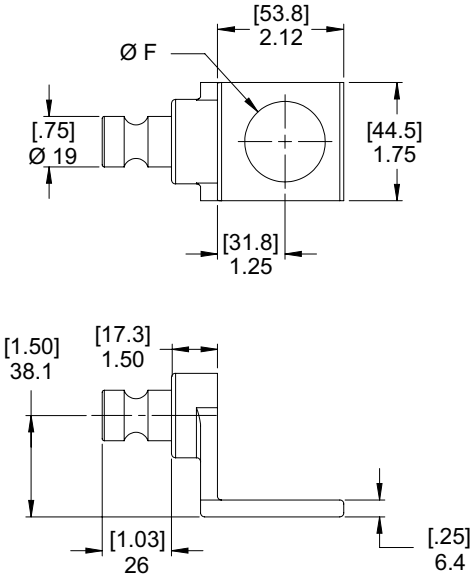
SAP Series with 1″ Extension



Model Number	(Ø)"F"	Weight
CPI-SAP-**18-1E**	[10] 0.39	[0.2 lb] 91 g
CPI-SAP-**30-1E**	[30] 1.18	[0.2 lb] 91 g

SAP Series with Apple Core



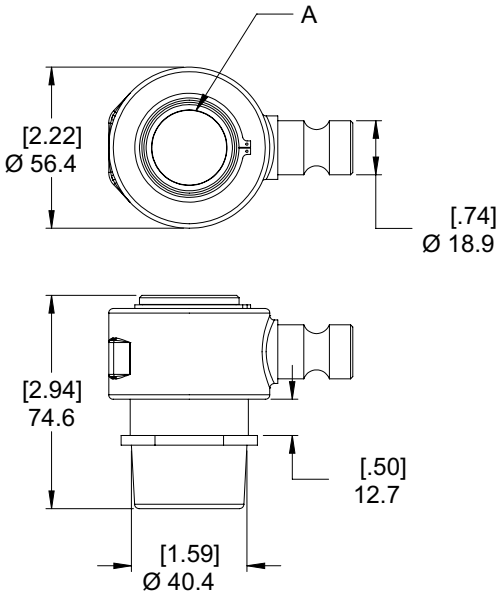


Model Number	(Ø)"F"	Weight
CPI-SAP-**00**	NA	[0.3 lb] 136 g
CPI-SAP-**10**	[10] 1.39	[0.2 lb] 91 g
CPI-SAP-**18**	[10] 1.39	[0.2 lb] 91 g
CPI-SAP-**30**	[30] 1.18	[0.2 lb] 91 g
CPI-SAP-**36**	[36] 1.42	[0.2 lb] 91 g
CPI-SAP-**42**	[42] 1.65	[0.3 lb] 136 g
CPI-SAP-**47**	[47] 1.85	[0.3 lb] 136 g
CPI-SAP-**54**	[54] 2.13	[0.3 lb] 136 g

Dimensions and technical information are subject to change without notice

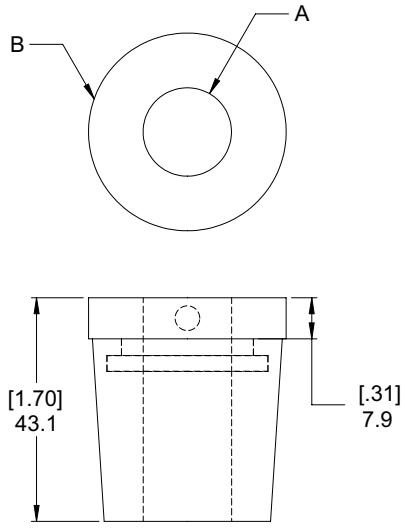
PROXIMITY SWITCH BUMPER

Round Tooling | Dimensions | Technical Specifications



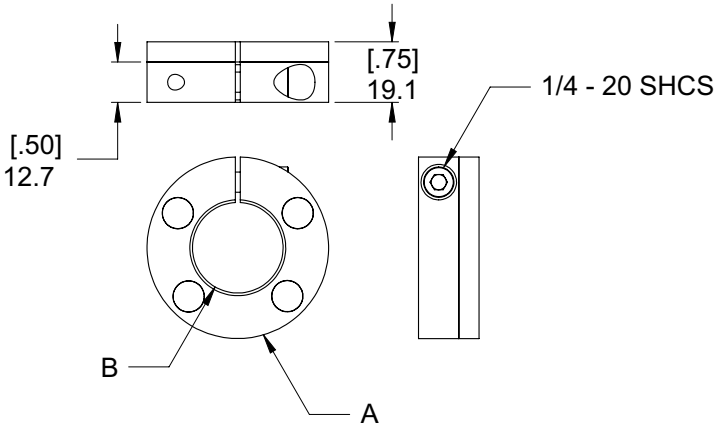
PSM Spring Loaded Bumper

Model Number	(Ø)"A"	Weight
CPI-PSM-**18-75**	[18] 0.71"	[7 oz.] 198 g
CPI-PSM-**30-75**	[30] 1.18"	[7 oz.] 198 g

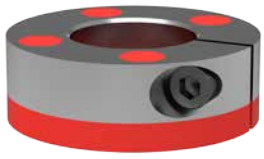


PB Friction Style Bumper

Model Number	(Ø)"A"	(Ø)"B"	Weight
CPI-PB-**18-I**	[18] 0.71	[38.1] 1.50	[2 oz.] 57 g
CPI-PB-**30-I**	[30] 1.18	[50.8] 2.00	[3 oz.] 85 g



PB Locking Collar Style Bumper

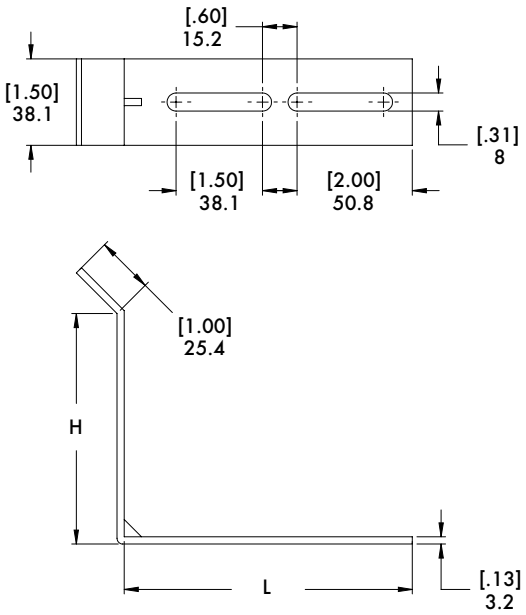


Model Number	(Ø)"A"	(Ø)"B"	Weight
CPI-PB-**30M**	[57.2] 2.25	[30] 1.18	[3 oz.] 85 g
CPI-PB-**36M**	[63.5] 2.50	[36] 1.42	[3 oz.] 85 g
CPI-PB-**42M**	[69.9] 2.75	[42] 1.65	[4 oz.] 113 g
CPI-PB-**47M**	[76.2] 3.00	[47] 1.85	[5 oz.] 141 g
CPI-PB-**54M**	[85.9] 3.38	[54] 2.13	[5 oz.] 141 g

NEST PAD GUIDES

Round Tooling | Dimensions | How To Order

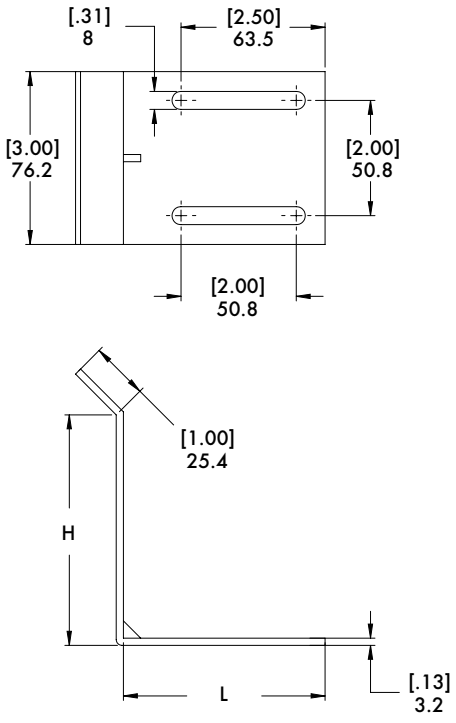
Single



CPI – NPG – 24E – ☐ – ☐

Base Model		Length		Height	
NPG					
Steel Nest Pad Guides Single		**05**	5.00″	**04**	4.00″
		06	6.00″	**06**	6.00″
		07	7.00″	**08**	8.00″
		08	8.00″		

Wide

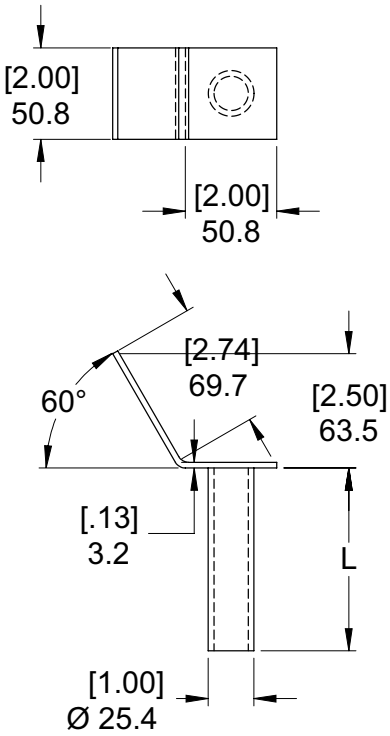


CPI – NPG – 24S – ☐ – ☐

Base Model		Length		Height	
NPG					
Steel Nest Pad Guides Wide		**3.5**	3.50″	**04**	4.00″
		4.5	4.50″	**06**	6.00″
		5.5	5.50″	**08**	8.00″
		6.5	6.50″		

NEST PAD GUIDES

Round Tooling | Dimensions | How To Order



CPI – NPG – 10 – ☐

Base Model

NPG
Steel Nest
Pad Guides

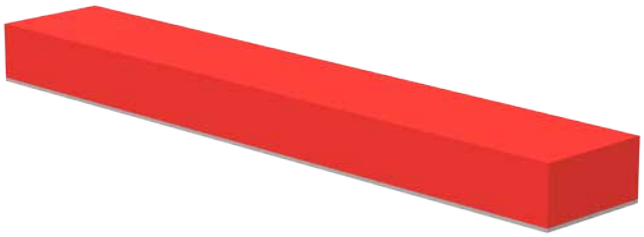
Length

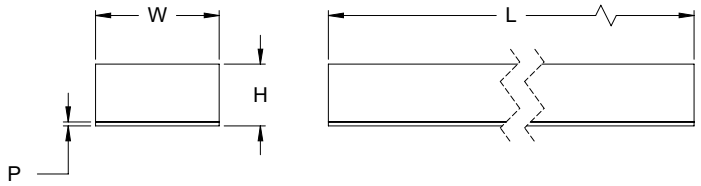
04	4.00″
06	6.00″
08	8.00″
10	10.00″
12	12.00″
14	14.00″

NEST PAD BLOCKS

Round Tooling | Dimensions | Technical Specifications

Bar Stock Urethane

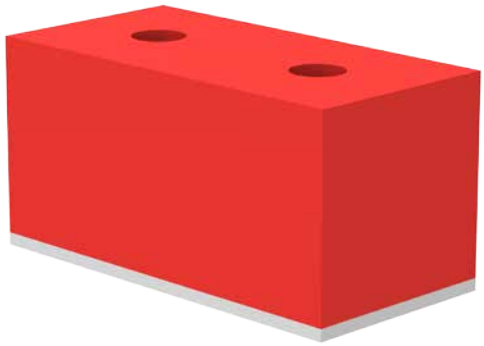


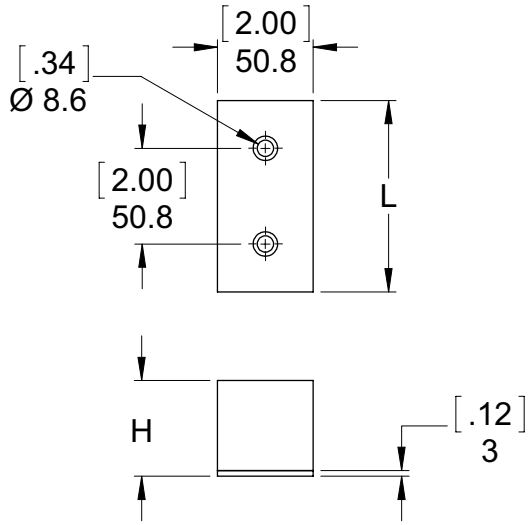


CPI – BS – [ ] – [ ] – [ ] – 24 — **Length L 24** 24.00″ 609.6 mm

Base Model	Height			Backing Plate Height			Width		
BS	**H**			**P**			**W**		
Bar Stock Urethane	**1**	1.00″	25.4 mm	**1/8**	0.13″	3.2 mm	**1**	1.00″	25.4 mm
	2	2.00″	50.8 mm	**1/4**	0.25″	6.4 mm	**2**	2.00″	50.8 mm
	3	3.00″	76.2 mm	**3/8**	0.38″	9.6 mm	**3**	3.00″	76.2 mm
	4	4.00″	101.6 mm	**1/2**	0.50″	12.7 mm	**4**	4.00″	101.6 mm
	5	5.00″	127 mm	**1**	1.00″	25.4 mm			
	6	6.00″	152.4 mm						

Urethane Pads





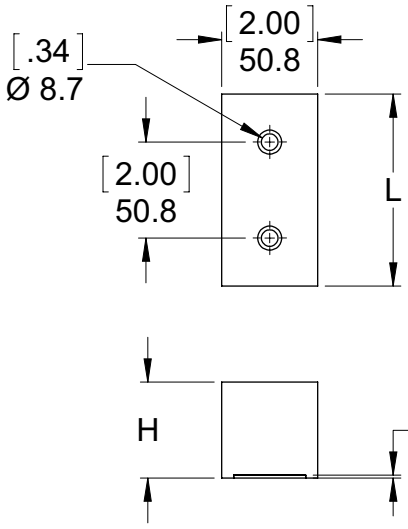
Model	"H"	"L"	Weight
CPI-UT-**1-4-85**	**1.00"**(in)	**4.00"**(in)	9oz. [255g]
CPI-UT-**2-4-85**	**2.00"**(in)	**4.00"**(in)	14oz. [397g]
CPI-UT-**2-6-85**	**2.00"**(in)	**6.00"**(in)	19oz. [539g]

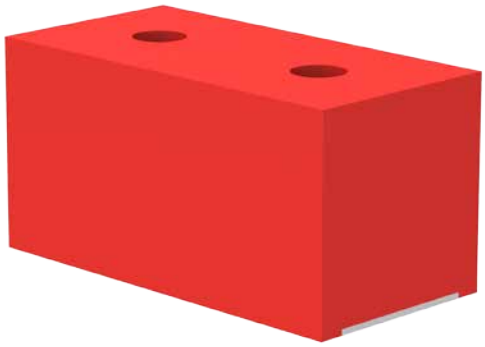
Dimensions and technical information are subject to change without notice

NEST PAD BLOCKS

Round Tooling | Dimensions | Technical Specifications

Smooth Pads Neoprene

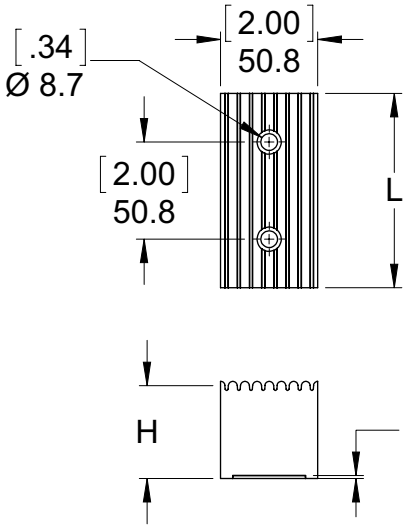


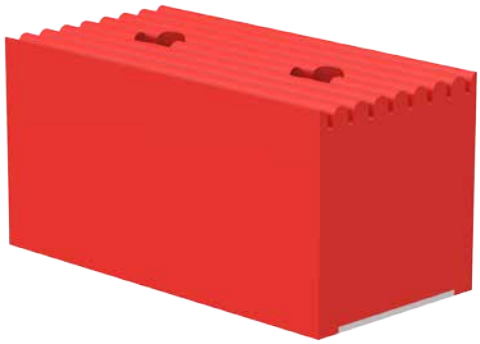


CPI – ST – ☐ – ☐ – ☐

Base Model	Height			Length			Durometer	
ST	H			L			D	
Smooth Top Pads Neoprene	**1/2**	0.50″	12.7 mm	**4**	4.00″	101.6 mm	**15**	Shore A Tan
	1	1.00″	25.4 mm	**6**	6.00″	152.4 mm	**30**	Shore A Teal
	2	2.00″	50.8 mm	**8**	8.00″	203.2 mm	**45**	Shore A Red
	3	3.00″	76.2 mm	**12**	12.00″	304.8 mm	**60**	Shore A Black
	4	4.00″	101.6 mm					

Ribbed Pads Neoprene



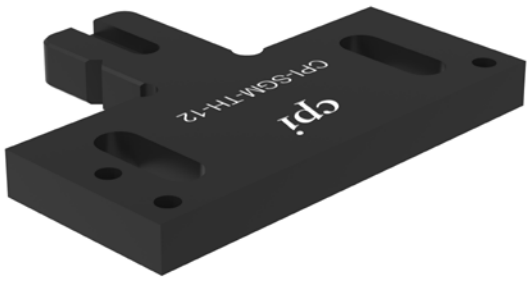


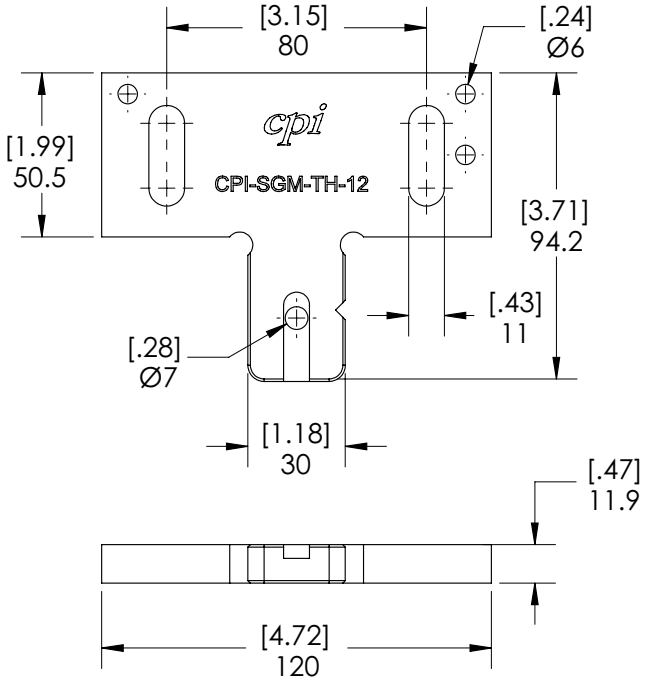
CPI – RT – ☐ – ☐ – ☐

Base Model	Height			Length			Durometer	
RT	H			L			D	
Ribbed Pads Neopprene	**1/2**	0.50″	12.7 mm	**4**	4.00″	101.6 mm	**15**	Shore A Tan
	1	1.00″	25.4 mm	**6**	6.00″	152.4 mm	**30**	Shore A Teal
	2	2.00″	50.8 mm	**8**	8.00″	203.2 mm	**45**	Shore A Red
	3	3.00″	76.2 mm	**12**	12.00″	304.8 mm	**60**	Shore A Black
	4	4.00″	101.6 mm					

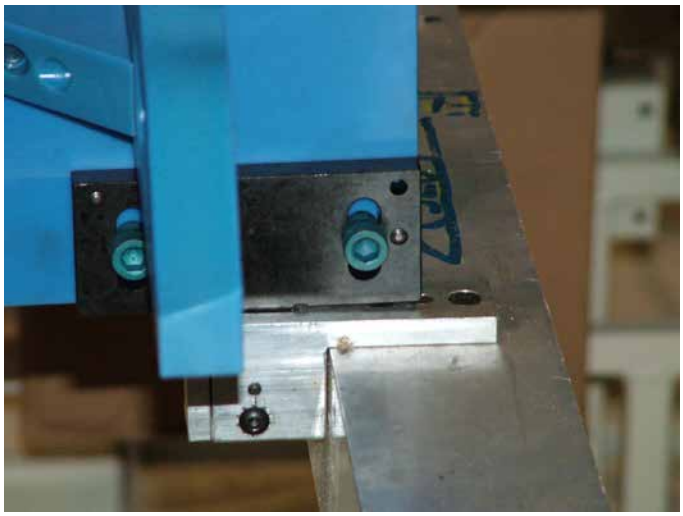
PLASTICS - BLUE SLICE

Round Tooling | Dimensions | Technical Specifications

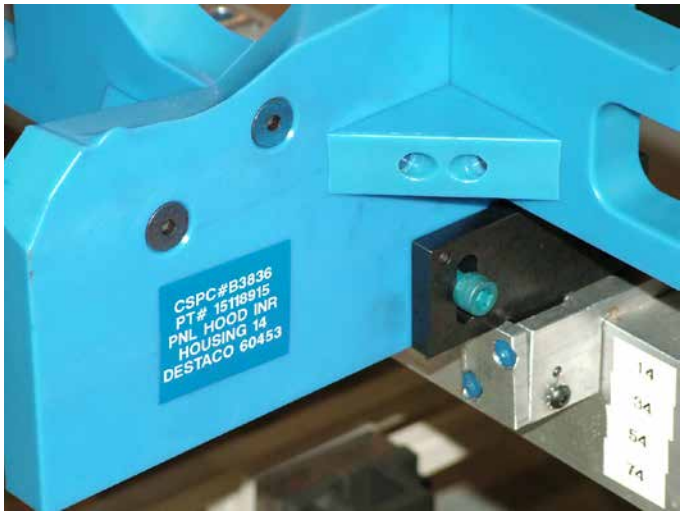


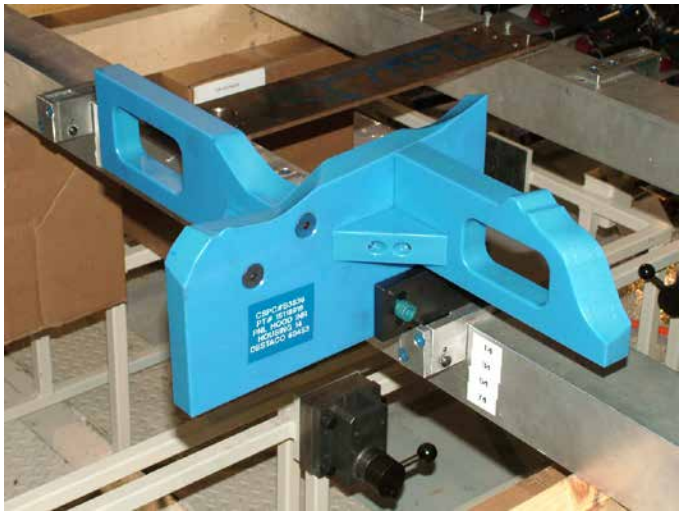


Model Number	Material	Weight
CPI-SGM-TH-12	Steel	604g [1.33 lb]



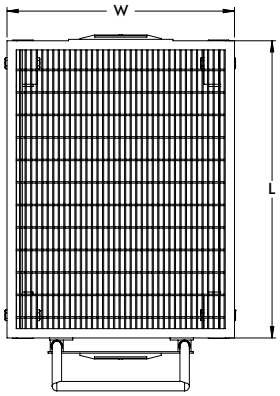
Name: Blue Slice Nest Tooling
Material: Blue Nylon, 1" (25.4mm) thickness
Benefits: Lightweight, durable, machinable material
Process: Machined from 3D CAD

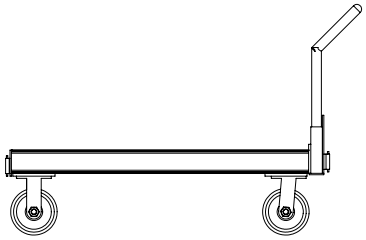


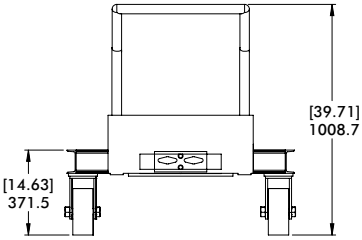


Dimensions and technical information are subject to change without notice

Tool Storage Cart



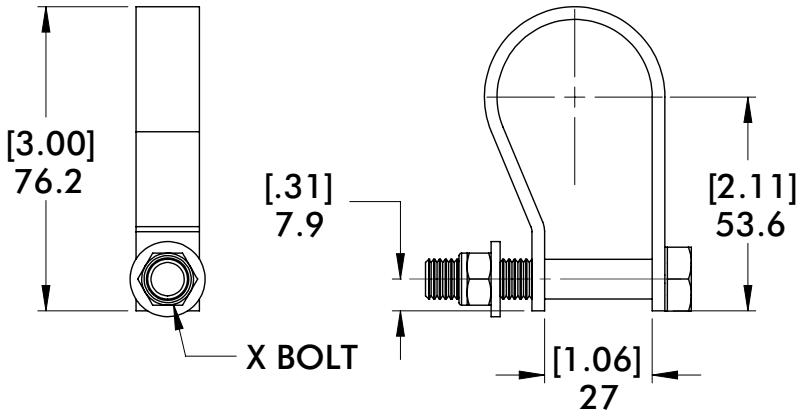




CPI – TC – ▢ – ▢ – DP – FP

Base Model	Width			Length		
TC Tool Storage Carts	**36**	36.00″	0.9 m	**48**	48.00″	1.2 m
	48	48.00″	1.2 m	**60**	60.00″	1.5 m
				72	72.00″	1.8 m
				84	84.00″	2.1 m
				96	96.00″	2.4 m

Tool Hanger



Material: Steel

Model Number	Weight
CPI-THR-516	91g [0.20 lb]

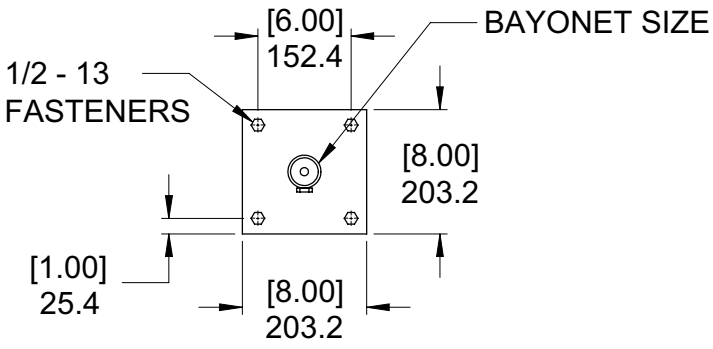
TOOL STORAGE

Round Tooling | Dimensions | How To Order

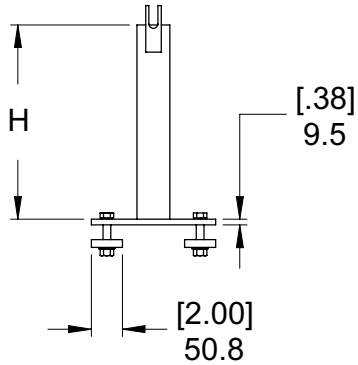
Tool Holder Strap

Model Number	Weight
CPI-SGM-TH-CABLE-08	68g [0.15 lb]

Tool Storage Can



Material: Steel



CPI – TH – ☐ – ☐ – BF

Base Model	Bayonet Size			Height		
TH Tool Holder	**150**	1.5″	40 mm	**6.5**	6.5″	165 mm
	250	2.5″	60 mm	**12.5**	12.5″	318 mm
				18.5	18.5″	470 mm

Dimensions and technical information are subject to change without notice

Notes

Tolerance Specifications

(Ø) "D" vs. Actual (Ø) Bore Sizes (Micro)			
(Ø) "D"	Tolerance	(Ø) "D"	Tolerance
.50"(in)	±.002	**12mm**	±.13
.75"(in)	±.002	**20mm**	±.13
1.00"(in)	±.002	**25mm**	±.13

(Ø) "D" vs. Actual (Ø) Bore Sizes (Typical)					
(Ø) "D"	Tolerance	(Ø) "D"	Tolerance	(Ø) "D"	Tolerance
1.00"(in)	±.002	**25mm**	±.13	**1.25"**(in)	±.002
1.50"(in)	±.006	**40mm**	±.15	**3.00"**(in)	±.006
2.50"(in)	±.006	**60mm**	±.15	**30mm**	±.13