

DESIGNING **INNOVATION**



Round Tooling Components Catalog

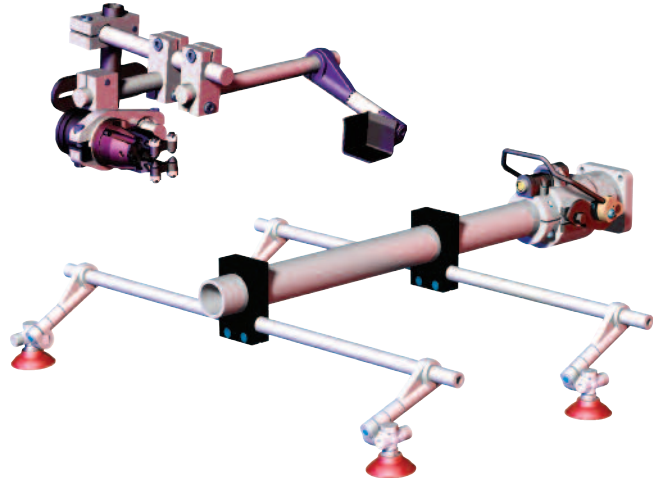
## Round Tooling Components

### Features

**Ideal for any robotic pick & place, load/unload material handling operation**

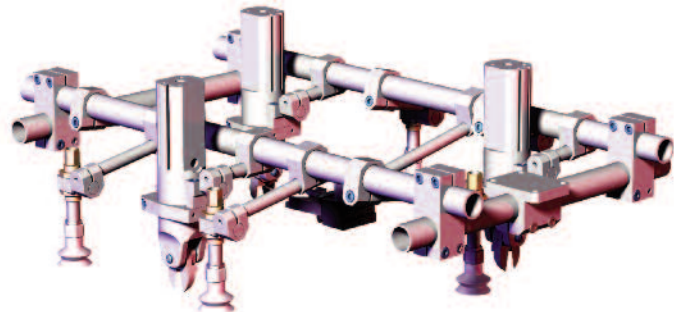
#### Standard Round Tooling Solutions

- Manual or automatic quick tool change
- Adaptable to any vacuum or gripping system
- Ideal for robotic, high speed press room applications and automated plastic injection molding



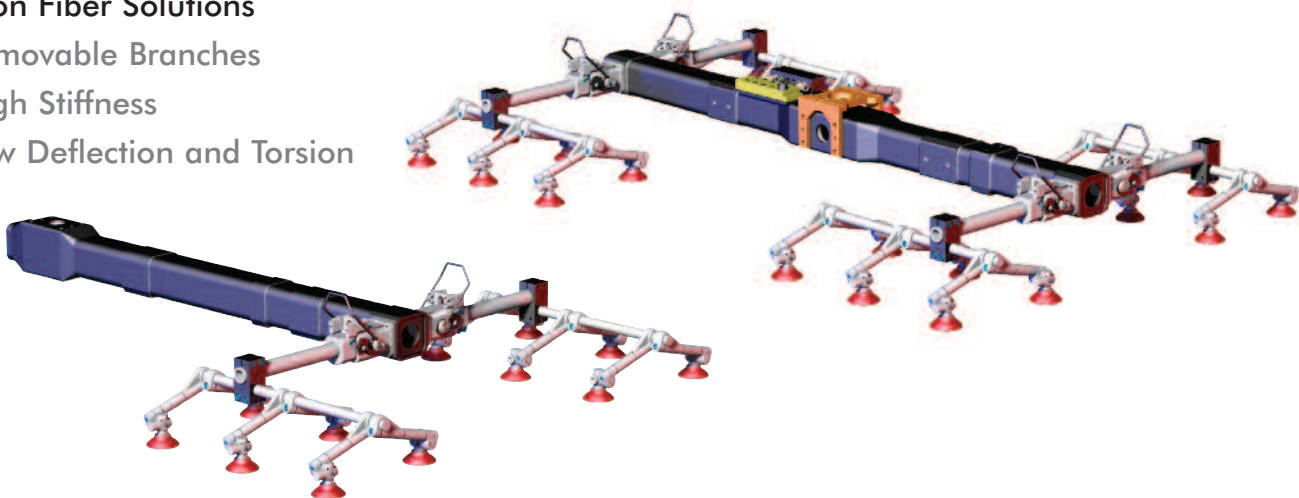
#### Customized Solutions

- Allows for unlimited configuration possibilities utilizing vacuum cups, sprue nippers, grippers, or other tooling



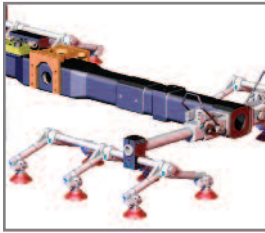
#### Carbon Fiber Solutions

- Removable Branches
- High Stiffness
- Low Deflection and Torsion



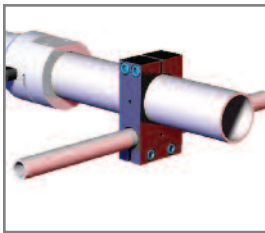


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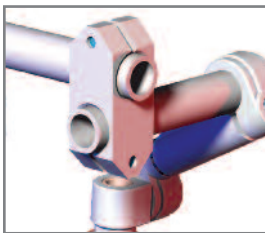
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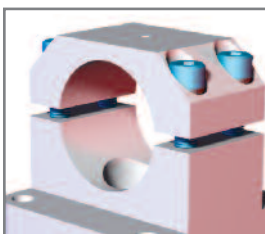
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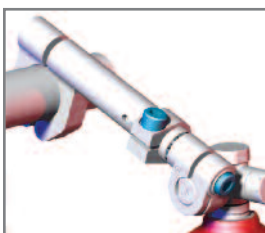
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Swivel Arms and Accessories

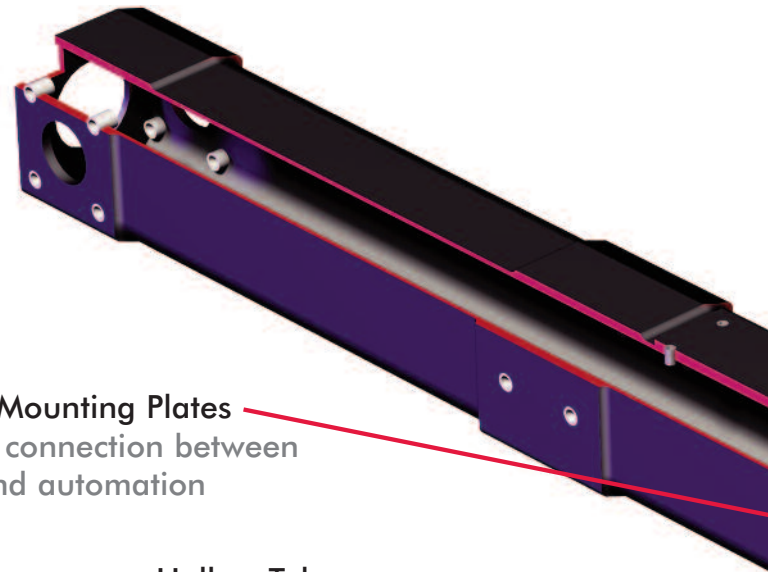
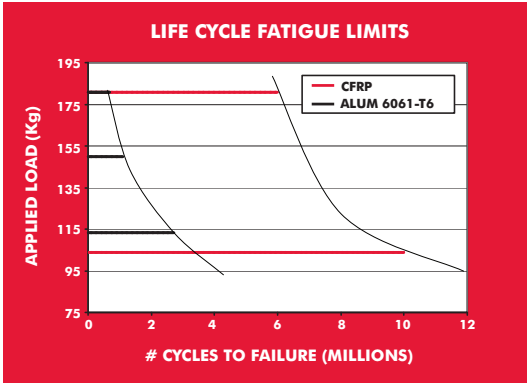
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( $\emptyset$ ) "D" vs. Actual ( $\emptyset$ ) Bore Sizes (Micro)				( $\emptyset$ ) "D" vs. Actual ( $\emptyset$ ) Bore Sizes (Typical)					
( $\emptyset$ ) "D"	Tolerance	( $\emptyset$ ) "D"	Tolerance	( $\emptyset$ ) "D"	Tolerance	( $\emptyset$ ) "D"	Tolerance	( $\emptyset$ ) "D"	Tolerance
.50"(in)	±.002	12mm	±.13	1.00"(in)	±.002	25mm	±.13	1.25"(in)	±.002
.75"(in)	±.002	20mm	±.13	1.50"(in)	±.006	40mm	±.15	3.00"(in)	±.006
1.00"(in)	±.002	25mm	±.13	2.50"(in)	±.006	60mm	±.15	30mm	±.13

# Carbon Fiber Reinforced Main Boom

## CFRP Overview

Nominal (Ø) given  
See chart on Page 3  
for actual (Ø) size



Internal Steel Mounting Plates ensure secure connection between CFRP boom and automation

Hollow Tube allows electrical and pneumatic lines to run internally reducing potential for failure

Multiple Accessory Mounting Locations

### Inter-Press CFRP Main Boom

#### Interpress Tool (As shown)

##### Technical Information

Weight .....	6.3 Kg (CFRP Boom only)
Tooling .....	20 Kg (2x tools)
Adapter .....	4 Kg
Length .....	1250mm



Threaded Inserts Torque Specifications:  
M6 = 6 Nm [4.5 lbf-ft]  
M8 = 12 Nm [9.0 lbf-ft]  
M10 = 22 Nm [16 lbf-ft]

Nominal (Ø) given  
See chart on Page 3  
for actual (Ø) size

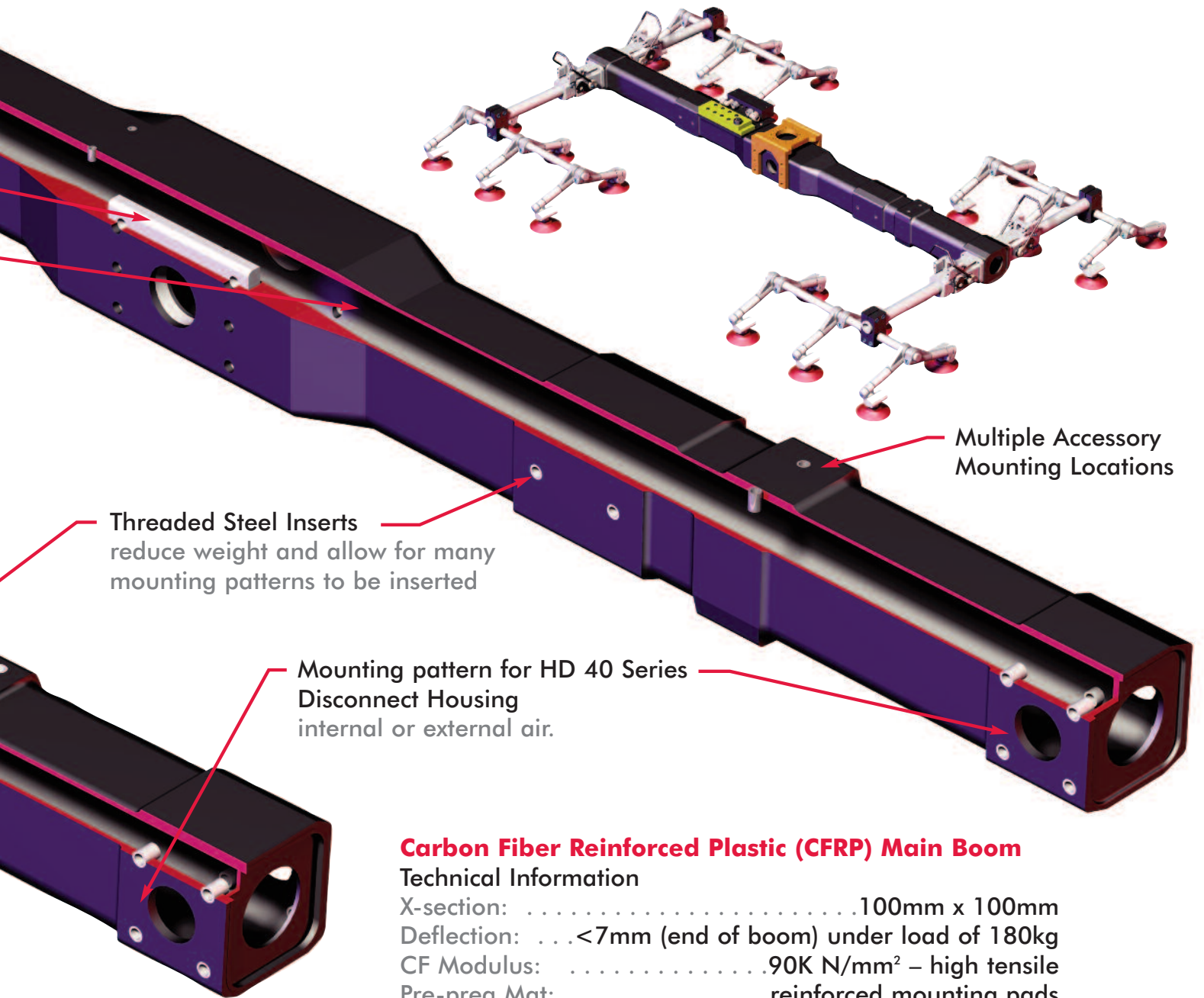
Carbon Fiber Reinforced Main Booms  
**CFRP** Overview

**End-of-Line/Destacking  
CFRP Main Boom**

**End of Line/Destacker Tool (As shown)**

Technical Information

Weight:	.....	7.5 Kg (CFRP Boom only)
Tooling:	.....	45 Kg (4x tools)
Adapter:	.....	.6 Kg
Length:	.....	1800mm



**Carbon Fiber Reinforced Plastic (CFRP) Main Boom**

Technical Information

X-section:	.....	100mm x 100mm
Deflection:	... <	7mm (end of boom) under load of 180kg
CF Modulus:	.....	.90K N/mm <sup>2</sup> – high tensile
Pre-preg Mat:	.....	reinforced mounting pads
Resin:	.....	Bakelite™ Series
Conductivity:	.....	isolator plates necessary

**World Tool Booms**  
**CFRP** Interpress Main Boom

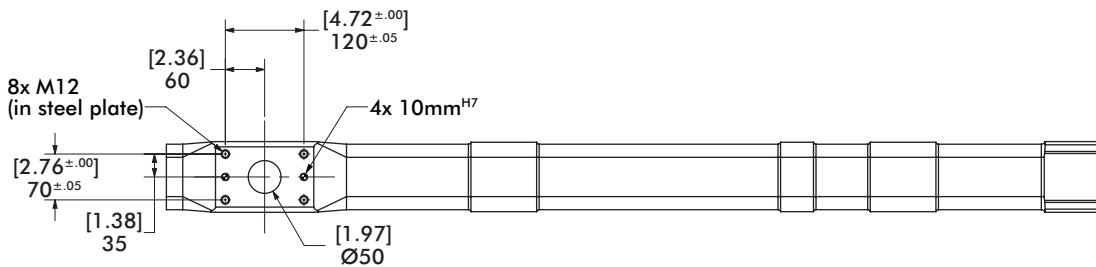
Nominal (Ø) given  
 See chart on Page 3  
 for actual (Ø) size

**Features:**

- High-strength
- Lightweight
- Decreased vibration
- Overall improvement in production
- Internal steel mounting plates ensures solid connection between CFRP boom and automation

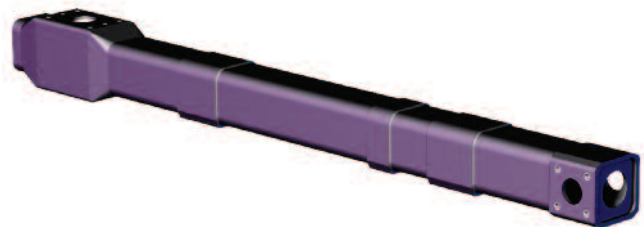
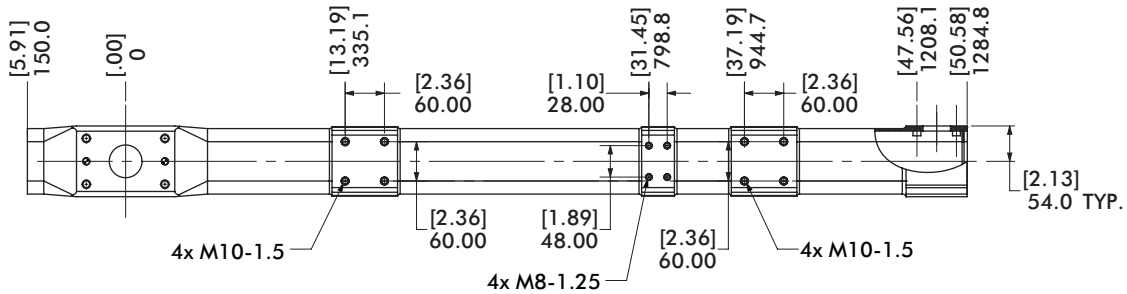
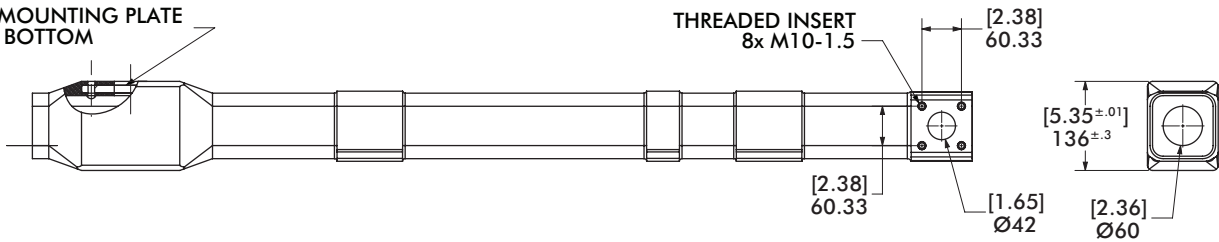
**Specifications:**

Material: Carbon Fiber Reinforced Plastic



STEEL MOUNTING PLATE  
 TOP & BOTTOM

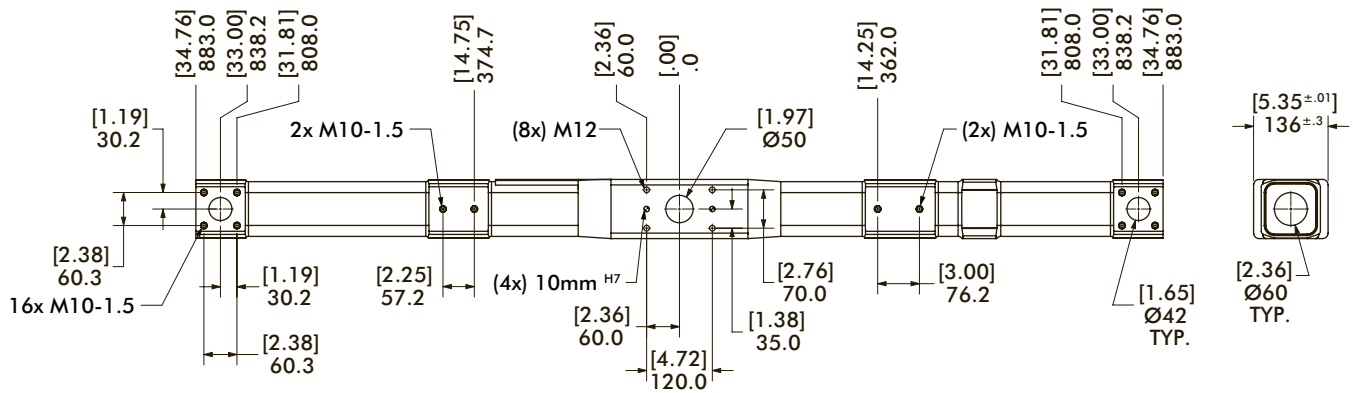
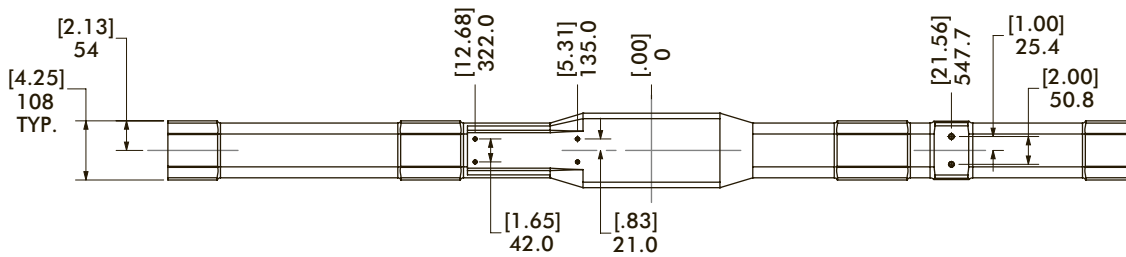
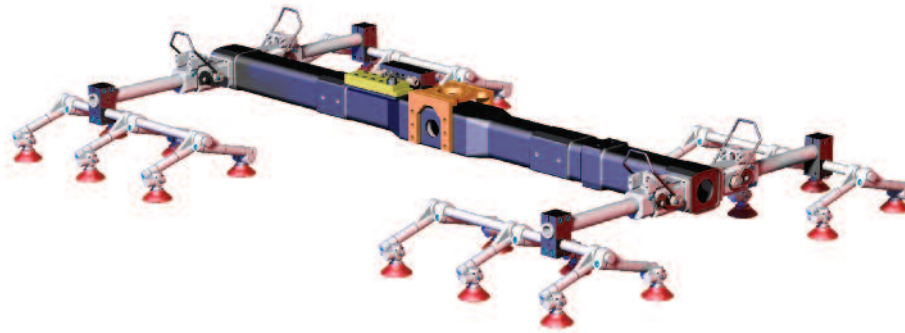
THREADED INSERT  
 8x M10-1.5



Model Number	Weight
CPI-CFRP-T1-1250	6.3 kg [13.9 lb]

Nominal (Ø) given  
See chart on Page 3  
for actual (Ø) size

## World Tool Booms CFRP End of Line/Destacker Main Boom



Model Number	Weight
CPI-CFRP-T2-1675	7.5 kg [16.5 lb]

## World Tool Booms

### PAT Ø3.00" Tapered Aluminum Main Booms

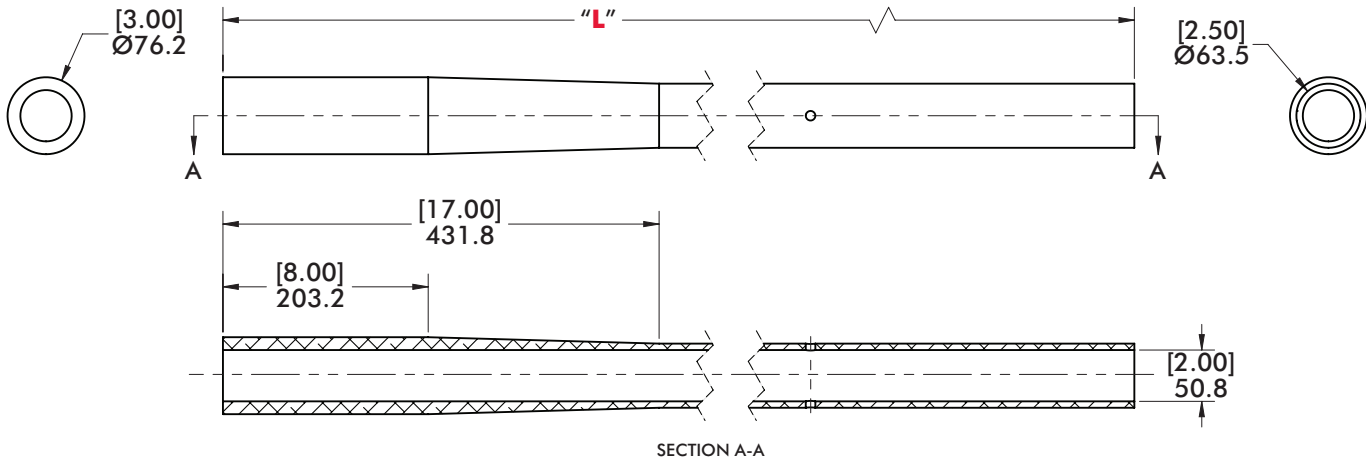
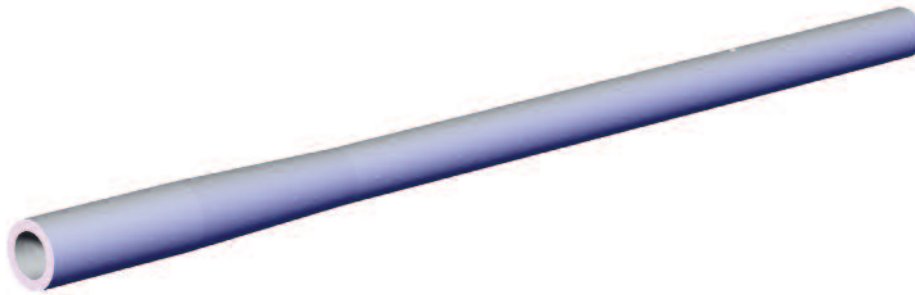
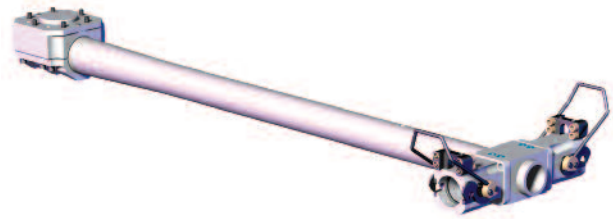
Nominal (Ø) given  
See chart on Page 3  
for actual (Ø) size

**Features:**

- Engineered, tapered boom minimizes deflection and fatigue allowing robots to move at higher speeds.
- Designed to be stiff under the twisting, bending moments of robot motion.
- Tapers from Ø3.00" with 0.50" walls to Ø2.50" with 0.25" walls.

**Specifications:**

Material: Aluminum



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

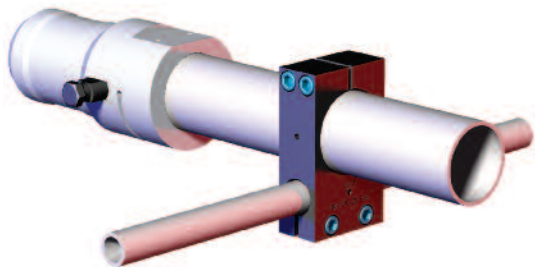
Model	"L"	Weight
CPI-PAT-30TP-1M-55	[55.00] 1397.0	[12.08 lb] 5.48 kg
CPI-PAT-30TP-1M-60	[60.00] 1524.0	[12.95 lb] 5.87 kg
CPI-PAT-30TP-1M-64	[64.00] 1625.6	[13.60 lb] 6.17 kg
CPI-PAT-30TP-2M-55	[55.00] 1397.0	[12.08 lb] 5.48 kg





Nominal (Ø) given  
See chart on Page 3  
for actual (Ø) size

## Round Tooling Structures Aluminum Tubing, Rods, and Bushings

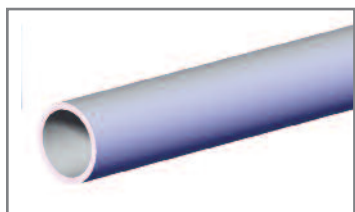


### Features:

- Round Aluminum Tubing and Bar is used in conjunction with all Round tooling components and forms the background of a component based system
- Round tooling products can be used with this product to create a wide variety of configurations to address a customer's needs

### Specifications:

Material:  
6061-T6 Aluminum



"L" = Specify Length

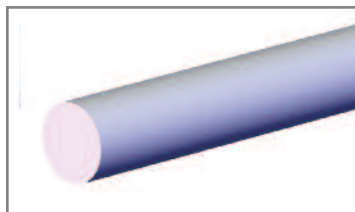
### Standard Lengths

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

### PAT Thin Wall Aluminum Tubing



Model	(Ø) "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

in 6.00" or 150mm Increments

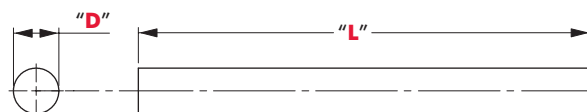
### English Example:

CPI-PAB-10-06 (6.00")

### Metric Example:

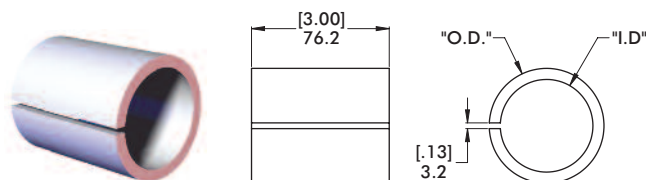
CPI-PAB-25-150 (150mm)

### PAB Aluminum Rods



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

### CB Aluminum Bushing

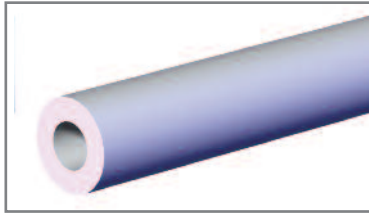


Model	(Ø)"O.D."	(Ø)"I.D."	Weight
CPI-CB-15-10	1.50"(in)	1.00"(in)	[.76 lb] .34 kg
CPI-CB-20-15	2.00"(in)	1.50"(in)	[.81 lb] .37 kg
CPI-CB-25-20	2.50"(in)	2.00"(in)	[.81 lb] .37 kg

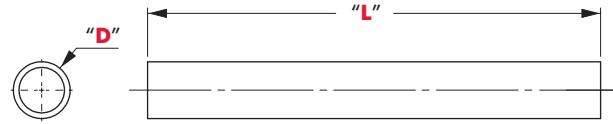
Round Tooling Structures

**PAT** Aluminum Tubing

Nominal (Ø) given  
See chart on Page 3  
for actual (Ø) size

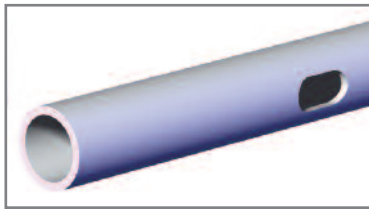


**"L"** = Specify Length  
in 6.00" or 150mm Increments  
**English Example:**  
CPI-PAT-15-06 (6.00")  
**Metric Example:**  
CPI-PAT-40-150 (150mm)

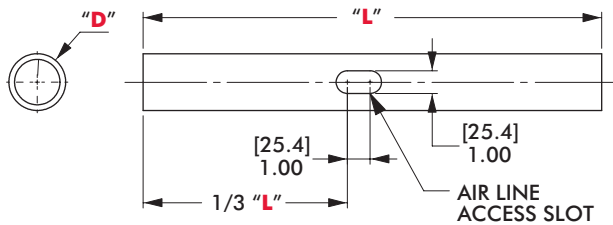


Model	(Ø) "D"	Wall Thickness	Weight	Linear Deflection	Torsional Twist
CPI-PAT-1025-"L"	1.00"(in)	[0.25"] 6.35mm	[0.7 lb/ft] 1.02 kg/m	1.5mm [0.06"] @ 50lb/12.00"	2.4° @ 100ft-lbs
CPI-PAT-12-"L"	1.25"(in)	[0.25"] 6.35mm	[0.9 lb/ft] 1.37kg/m	3.3mm [0.13"] @ 75lb/18.00"	1.6° @ 100ft-lbs
CPI-PAT-15-"L"	1.50"(in)	[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	[1.9 lb/ft] 2.9 kg/m	12.7mm [0.50"] @ 150lb/48.00"	2.3° @ 600ft-lbs
CPI-PAT-60-"L" (Metric)	60mm	[0.20"] 5mm	[1.9 lb/ft] 2.9 kg/m	17.8mm [0.70"] @ 150lb/48.00"	3.3° @ 600ft-lbs
CPI-PAT-2538-"L"	2.50"(in)	[0.375"] 9.53mm	[2.7 lb/ft] 4.1 kg/m	10.2mm [0.40"] @ 150lb/48.00"	1.8° @ 600ft-lbs

**BTI** Slotted Aluminum 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)

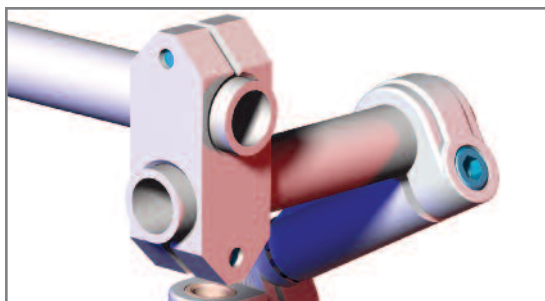


Model	(Ø) "D"	Wall Thickness	Weight	Linear Deflection	Torsional Twist
CPI-BT1-150-7S-"L"	1.50"(in)	[0.25"] 6.35mm	[1.2 lb/ft] 1.8 kg/m	4.8mm [0.19"] @ 100lb/24.00"	.003° @ 300ft-lbs
CPI-BT1-250-9S-"L"	2.50"(in)	[0.25"] 6.35mm	[2.1 lb/ft] 3.2 kg/m	13.9mm [0.55"] @ 150lb/48.00"	.003° @ 600ft-lbs
CPI-BT1-2538-9S-"L"	2.50"(in)	[0.375"] 9.53mm	[2.7 lb/ft] 4.1 kg/m	13.9mm [0.55"] @ 150lb/48.00"	.003° @ 600ft-lbs
CPI-BT1-60-9S-"L" (Metric)	60mm	[0.25"] 6.35mm	[2.1 lb/ft] 3.2 kg/m	13.9mm [0.55"] @ 150lb/48.00"	.003° @ 600ft-lbs



Nominal (Ø) given  
See chart on Page 3  
for actual (Ø) size

## Flange Mid Mount Brackets and blocks Steel Tubing



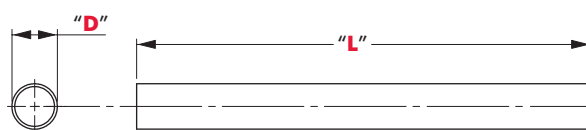
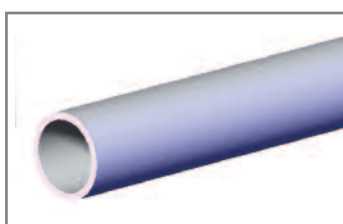
**Features:**

- Round Steel Tubing when used in conjunction with other steel Round tooling components can be positioned and welded into place.
- Round Tooling products can be used with this product to create a wide variety of configurations to address a customers needs.

**Specifications:**

Material:  
Hydraulic Steel Tubing

**PST Steel Tubing**

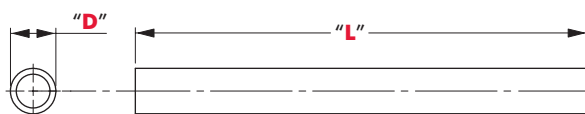
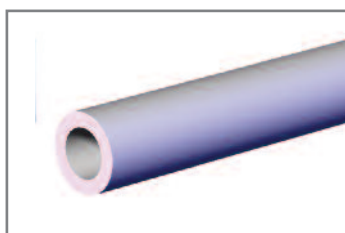


(L) = Specify Length

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)

Model	(Ø) "D"	Wall Thickness	Weight	Linear Deflection	Torsional Twist
CPI-PST-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-PST-1212-"L"	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

**Steel Tubing**

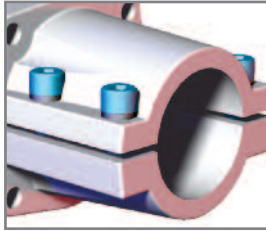


(L) = Specify Length

M1512: 125, 160, 300, 350, 350, 600, 900 [mm] (M1512-150)

Model	(Ø) "D"	Wall Thickness	Weight
M1512-"L"	1.00"(in)	3.0mm [0.19"]	8.3 kg/m [5.52 lb/ft]

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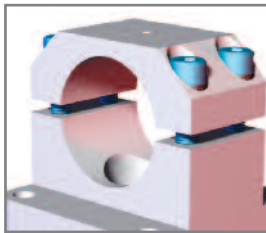
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Guide Mount Bracket for Ø30mm Tube . . . . . Page 17



**Flange Mid Mount Brackets and Blocks**

Mid Flange Mount for Ø20mm/.75" Tube (Micro) . . . . . Page 18

Mid Flange Mount for Ø25mm/1.00" Tube (Micro) . . . . . Page 18

Inline Mid Flange Mount for Ø1.00" Tube . . . . . Page 19

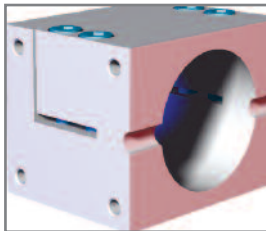
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Mid Flange Mount for Ø60mm Tube . . . . . Page 20

Mid Flange Mount for Ø40mm Tube . . . . . Page 21

Mid Flange Mount for Ø2.50" Tube . . . . . Page 21



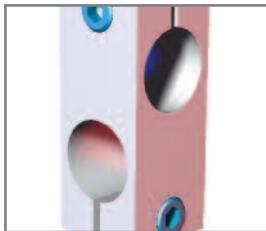
**Direct Mount Brackets and Blocks**

Direct Mount Bracket for Ø60mm/2.50" Tube . . . . . Page 22

Direct Mount Bracket for 2.50" Tube . . . . . Page 22

World Tool Direct Mount Bracket for 2.50" Tube . . . . . Page 23

Base Mount Block for Ø25mm/1.00"/Ø40mm/1.50" Tube . . . . . Page 23



**Cross Transition Blocks**

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Ø1.00" to Ø.50" . . . . . Page 24

Ø12mm/.50" to Ø12mm/.50" (Micro) . . . . . Page 24

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Ø20mm/.75" to Ø20mm/.75" (Micro) . . . . . Page 25

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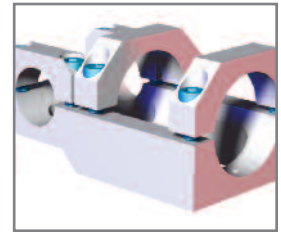
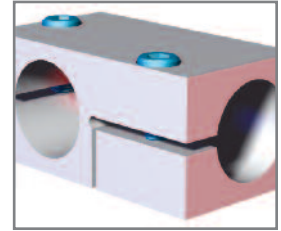




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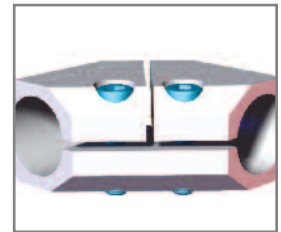
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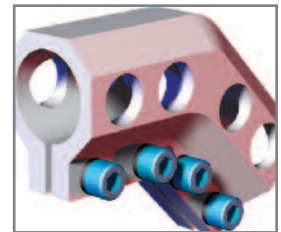
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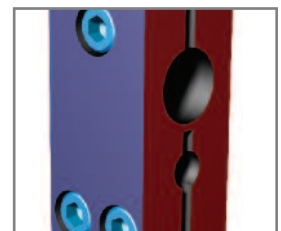
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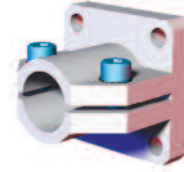
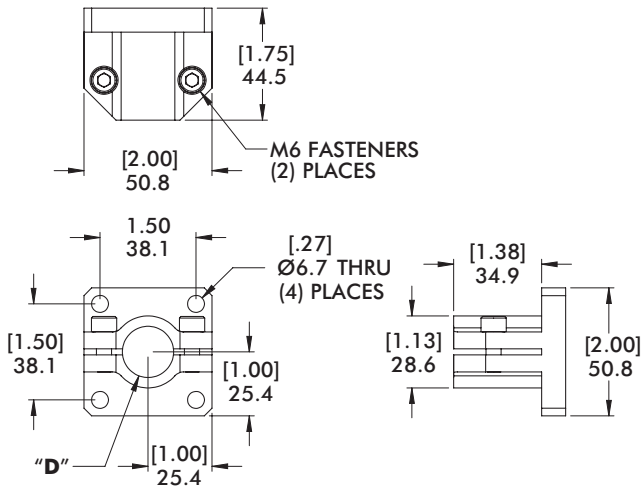


(Ø) "D" vs. Actual (Ø) Bore Sizes (Micro)				(Ø) "D" vs. Actual (Ø) Bore Sizes (Typical)					
(Ø) "D"	(Ø) Actual	(Ø) "D"	(Ø) Actual	(Ø) "D"	(Ø) Actual	(Ø) "D"	(Ø) Actual	(Ø) "D"	(Ø) Actual
.50"(in)	.508" <sup>(±.003)</sup>	12mm	12.22mm <sup>(±.08)</sup>	1.00"(in)	1.010" <sup>(±.003)</sup>	25mm	25.25mm <sup>(±.08)</sup>	1.25"(in)	1.260" <sup>(±.003)</sup>
.75"(in)	.758" <sup>(±.003)</sup>	20mm	20.32mm <sup>(±.08)</sup>	1.50"(in)	1.514" <sup>(±.003)</sup>	40mm	40.36mm <sup>(±.08)</sup>	3.00"(in)	3.010" <sup>(±.003)</sup>
1.00"(in)	1.008" <sup>(±.003)</sup>	25mm	25.32mm <sup>(±.08)</sup>	2.50"(in)	2.518" <sup>(±.003)</sup>	60mm	60.45mm <sup>(±.08)</sup>	30mm	30.28mm <sup>(±.08)</sup>

### Flange End Mount Bracket and Blocks

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

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

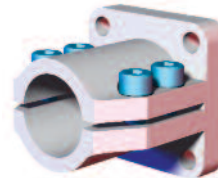
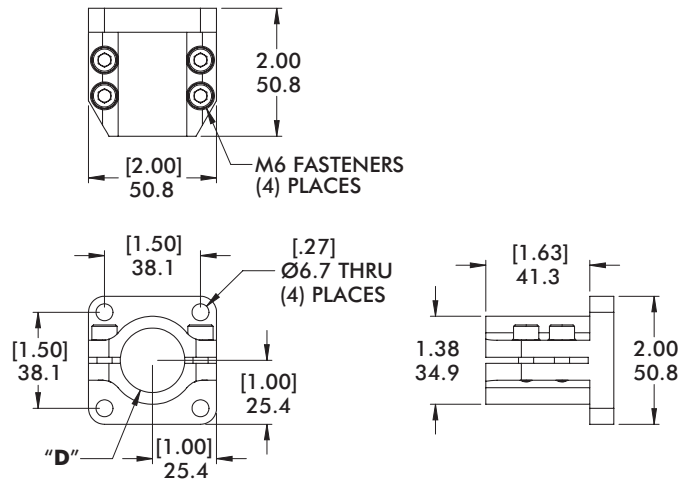


**Specifications:**

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)

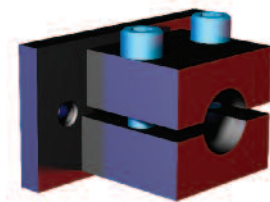
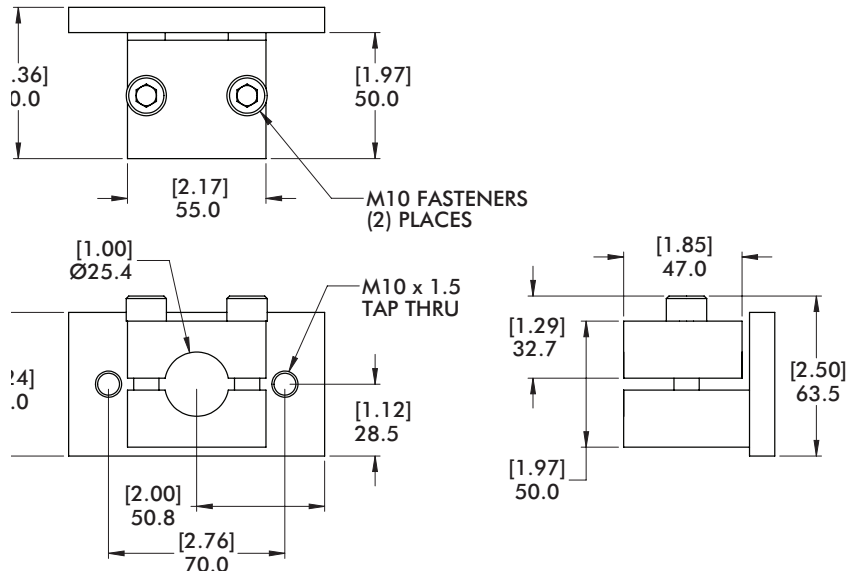


**Specifications:**

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)	[.32 lb] .14 kg

#### M1511 End Flange Mount for Ø1.00" Tube



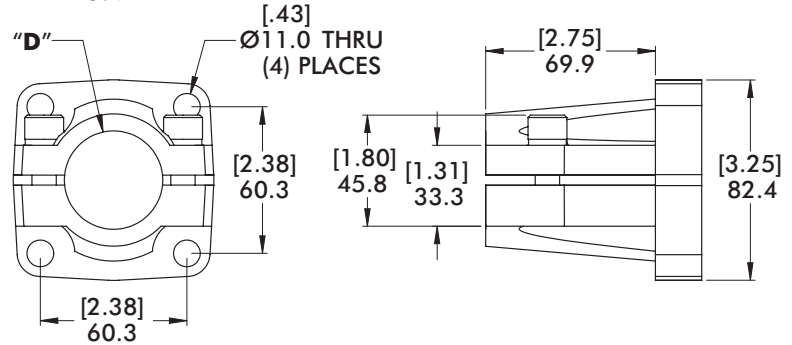
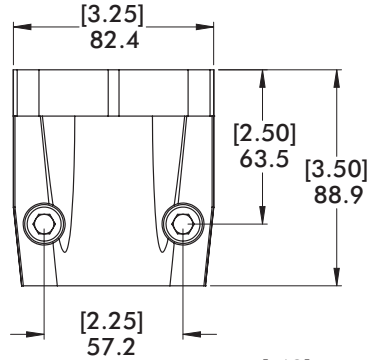
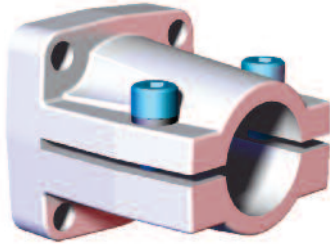
**Specifications:**

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

Model Number	Weight
M1511	[1.08 lb] .49 kg

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

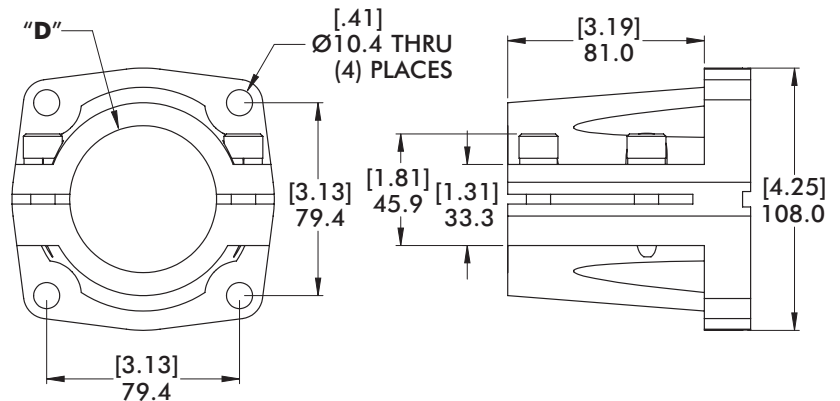
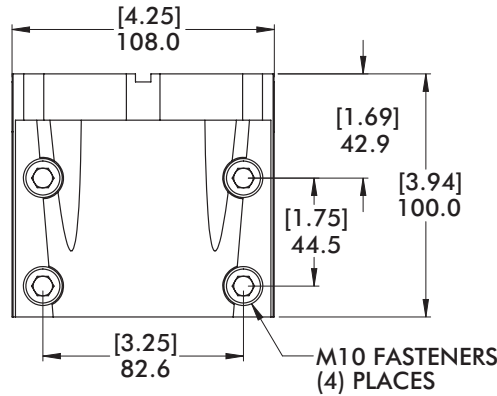
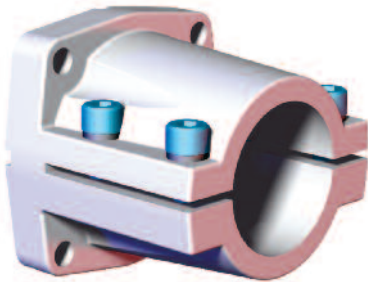
Flange End Mount Brackets and Blocks  
KL/CL End Flange Mount for Ø40mm/1.50" Tube



**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



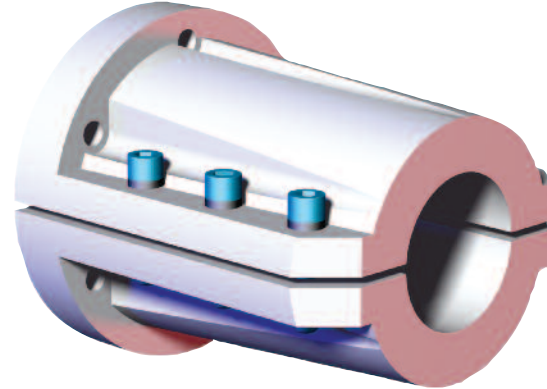
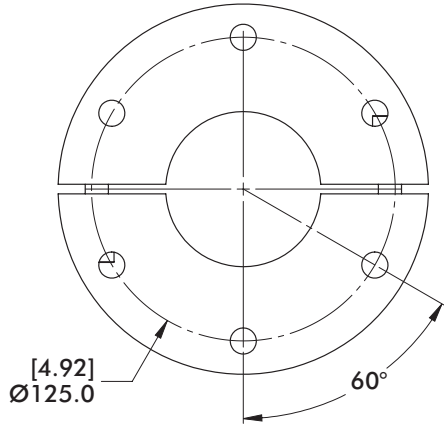
**Specifications:**  
Max. Static Clamp Load:  
675 N\*m [500 ft-lb]  
Material: Aluminum

Model Number	(Ø)"D"	Weight
CPI-KL-60-78F	60mm	[2.73 lb] 1.24 kg
CPI-CL-25-312BBF	2.50"(in)	[2.51 lb] 1.14 kg
CPI-CL-25-312F 312BBF without Keyway	2.50"(in)	[2.52 lb] 1.14 kg

# Flange End Mount Bracket and Blocks

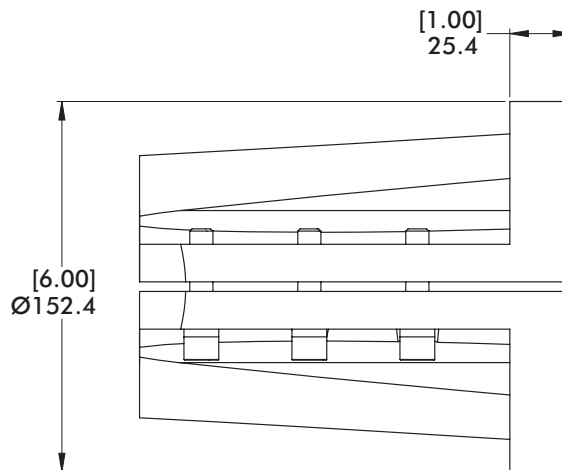
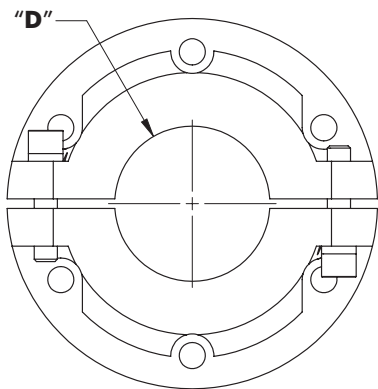
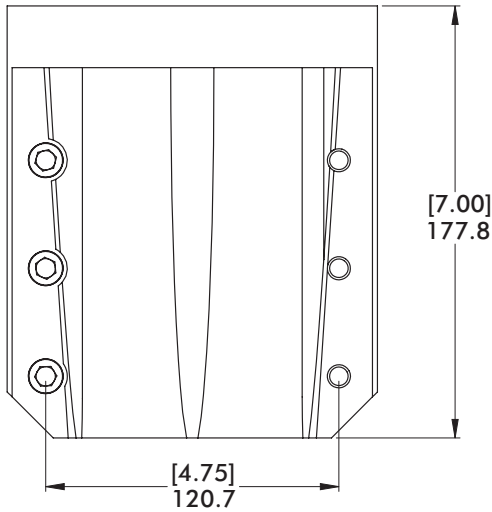
**CL** End Flange Mount with Ø125mm Bolt Pattern

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size



**Specifications:**

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



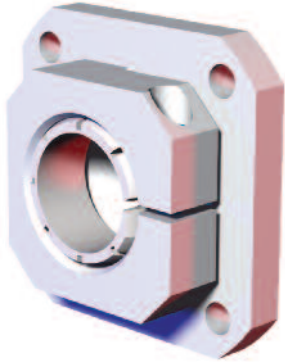
Model Number	(Ø) "D"	Weight
CPI-CL-60-125F	60mm	[9.86 lb] 4.47 kg
CPI-CL-250-125F	2.50"(in)	[10.20 lb] 4.63 kg
CPI-CL-300-125F	3.00"(in)	[8.70 lb] 3.95 kg



Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

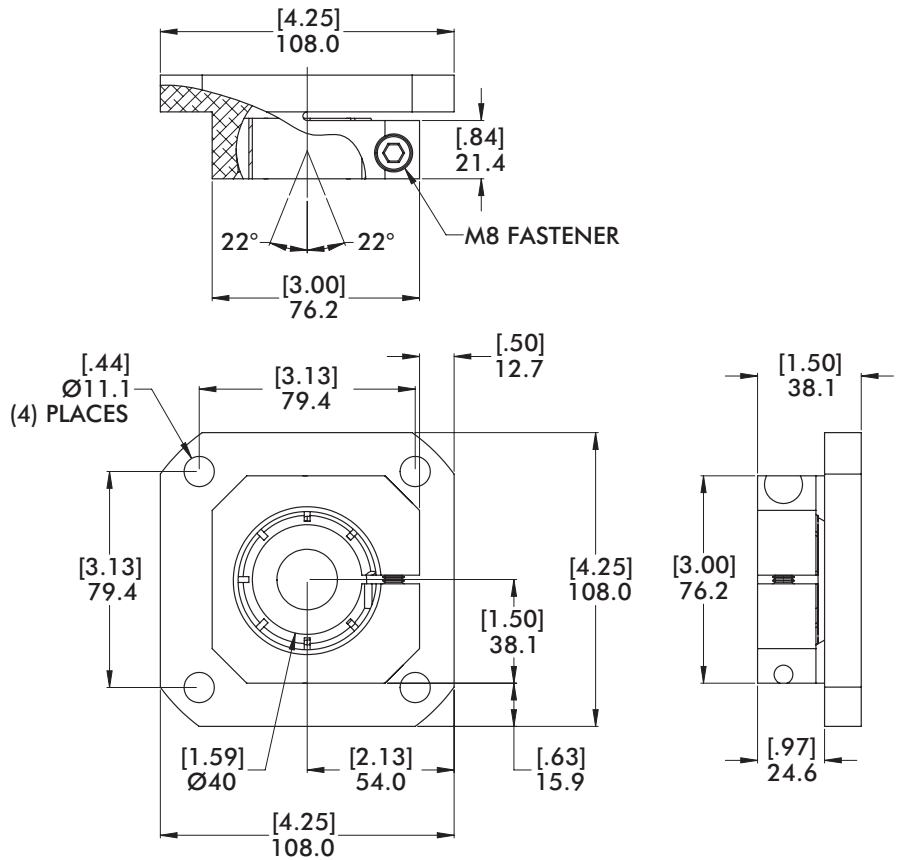
### Flange Mid Mounts Brackets and Blocks

**RJM** Flange Mount for Ø40mm Spherical Swivel Arm

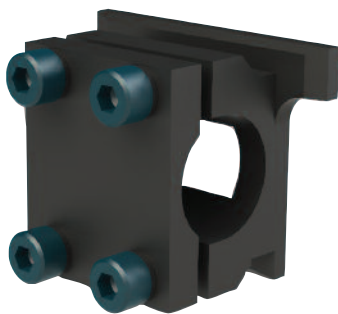


**Specifications:**  
Max. Static Clamp Load:  
203 N\*m [150 ft-lb]  
Material: Aluminum

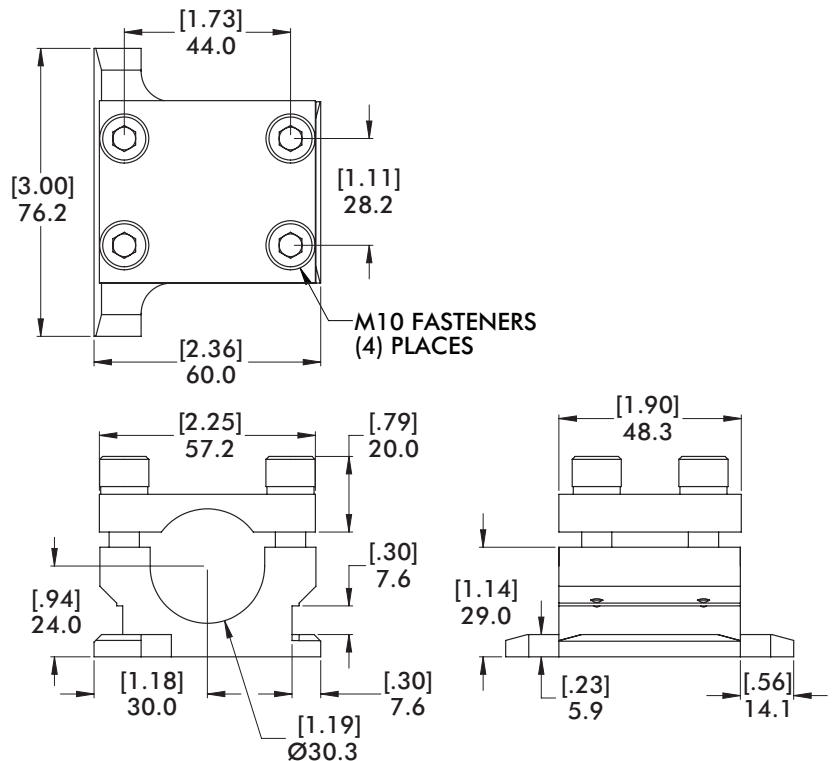
Model Number	Weight
CPI-RJM-78F-40S	[1.54 lb] .70 kg



### SGM-191 Guide Mount Bracket for Ø30mm Tube



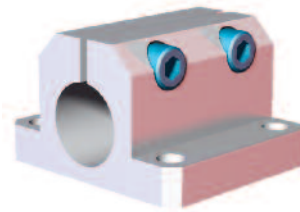
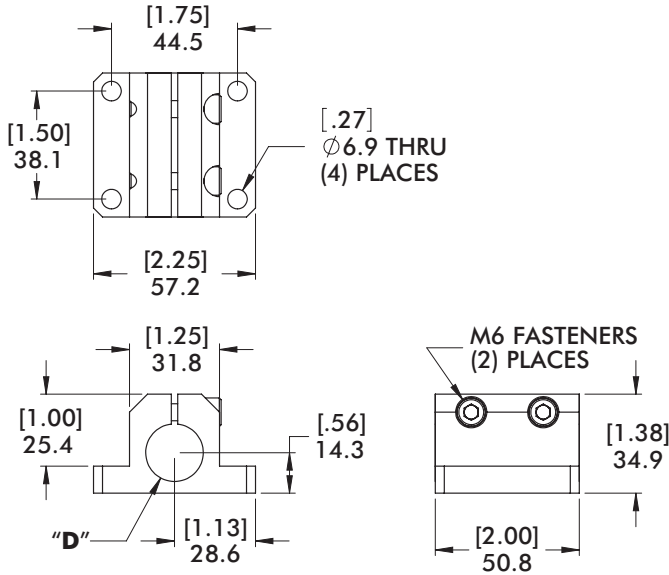
Model Number	Weight
CPI-SGM-191	[.51 lb] .23 kg



### Flange Mid Mount Brackets and Blocks

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

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

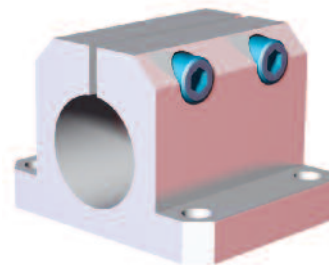
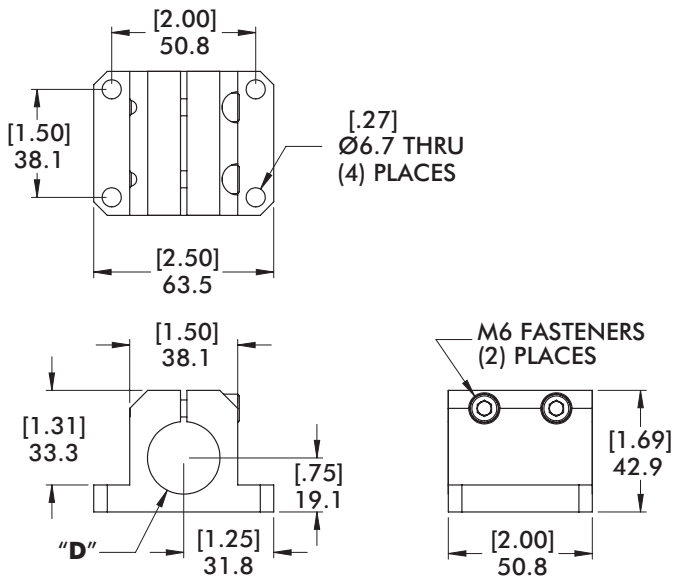


**Specifications:**

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)



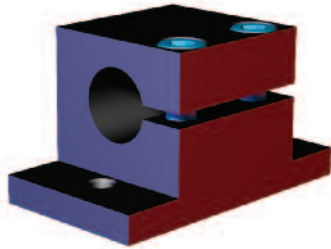
**Specifications:**

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

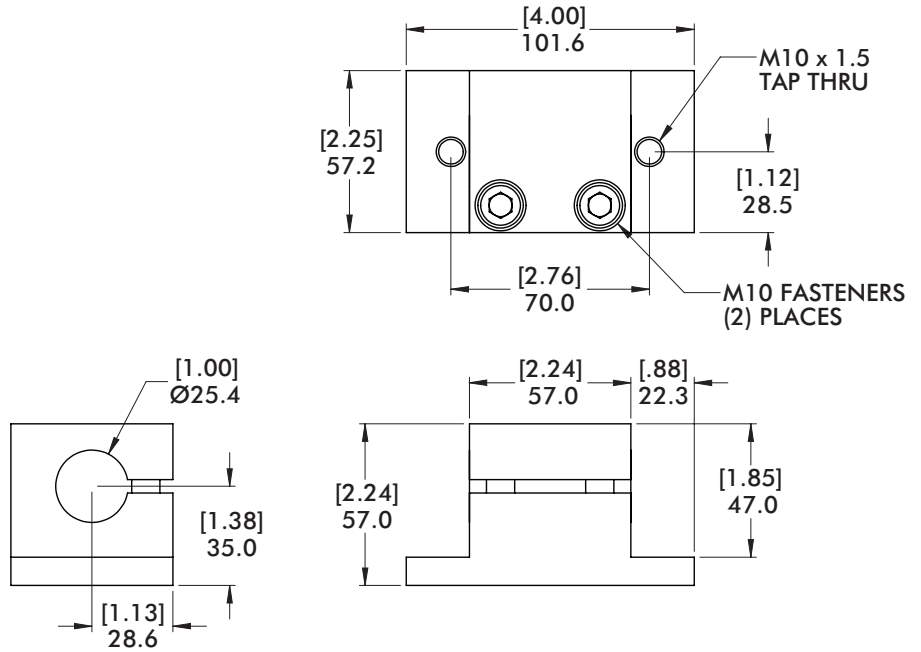
Model Number	(Ø) "D"	Weight
CPI-CLM-25M-152F-90	25mm	[.41 lb] .19 kg
CPI-CLM-10-152F-90	1.00"(in)	

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

Flange Mid Mount Brackets and blocks  
**M-1509** Inline End Flange Mount for Ø1.00" Tube

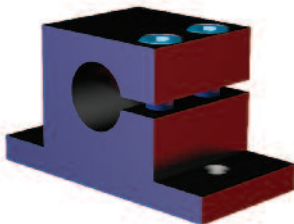


**Specifications:**  
Max. Static Clamp Load:  
203 N\*m [150 ft-lb]  
Material: Aluminum

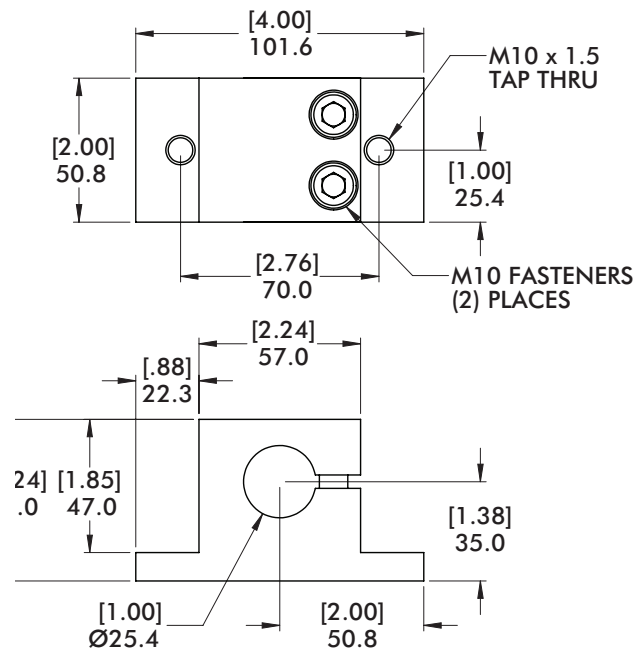


Model Number	Weight
<b>M1509</b>	[.99 lb] .45 kg

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



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

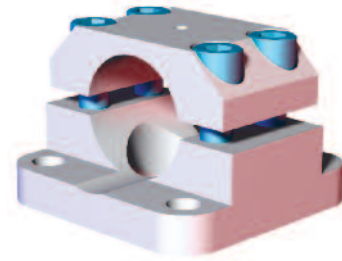
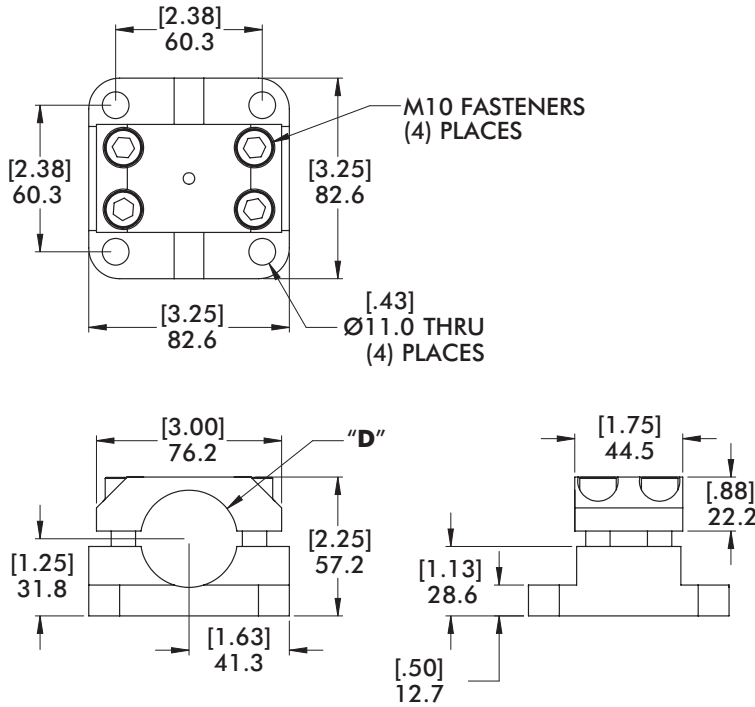


Model Number	Weight
<b>M1510</b>	[.87 lb] .39 kg

### Flange Mid Mount Brackets and Blocks

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

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

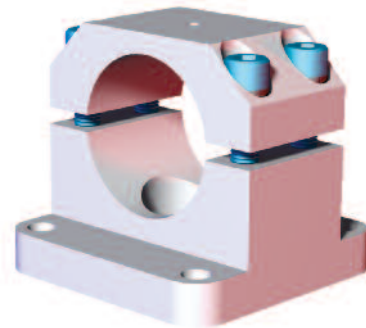
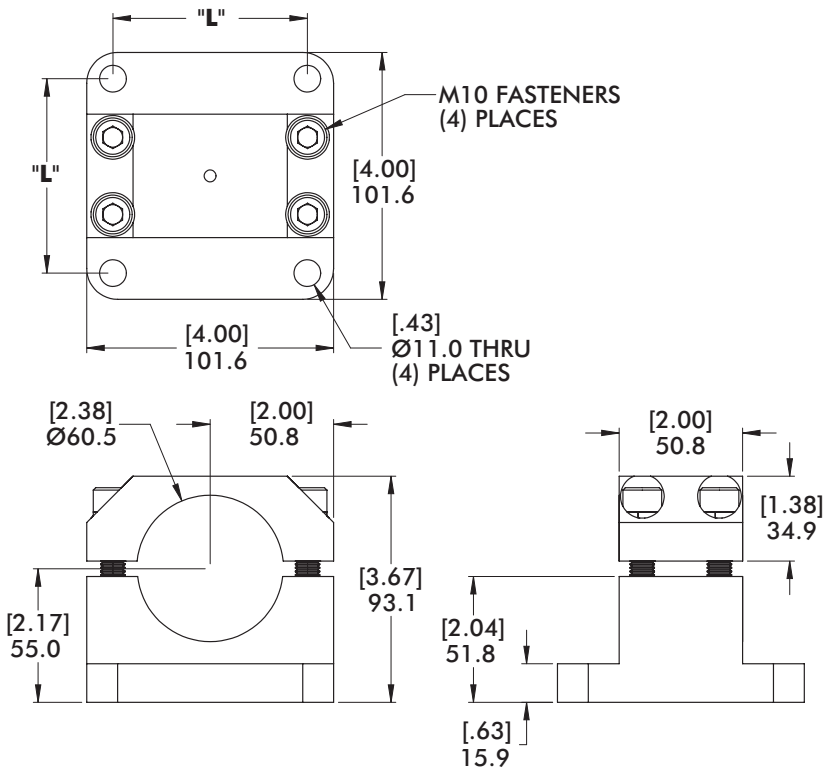


**Specifications:**

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:**

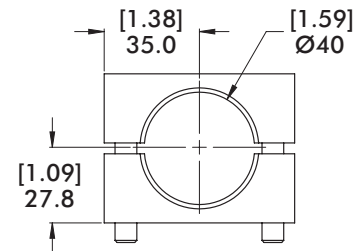
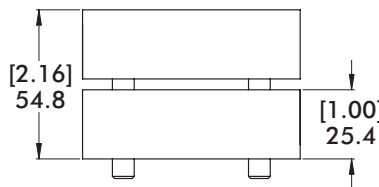
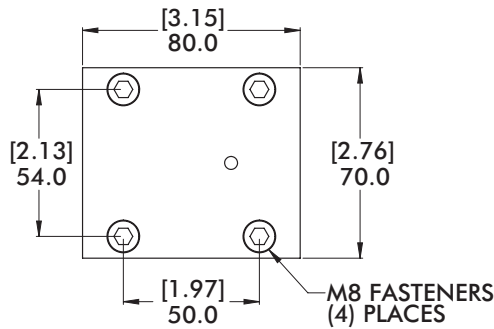
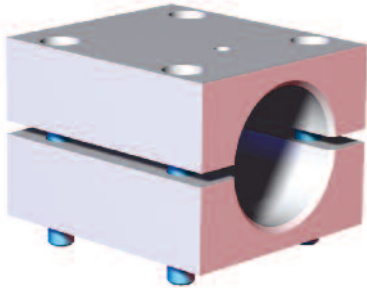
Max. Static Clamp Load:  
675 N\*m [500 ft-lb]  
Material: Aluminum

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



Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

Flange Mid Mount Brackets and Blocks  
**TP** Mid Flange Mount for Ø40mm Tube

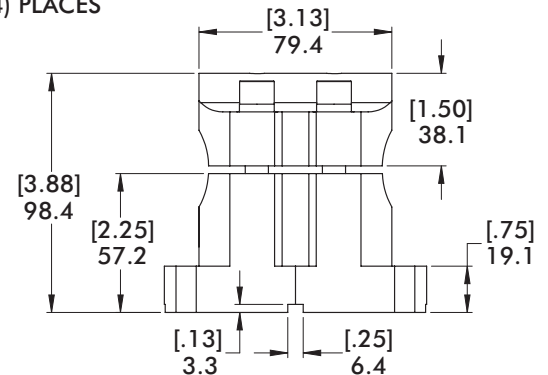
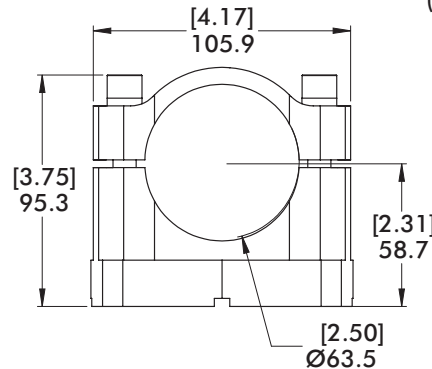
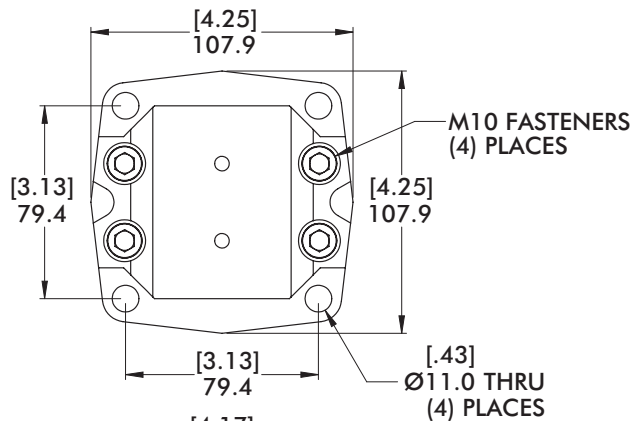
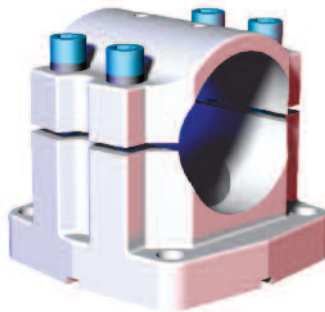


**Specifications:**

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

Model Number	Weight
CPI-TP-40M-100	[1.28 lb] .58 kg

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



**Specifications:**

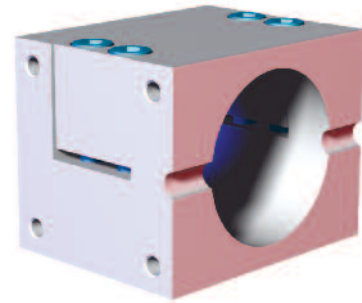
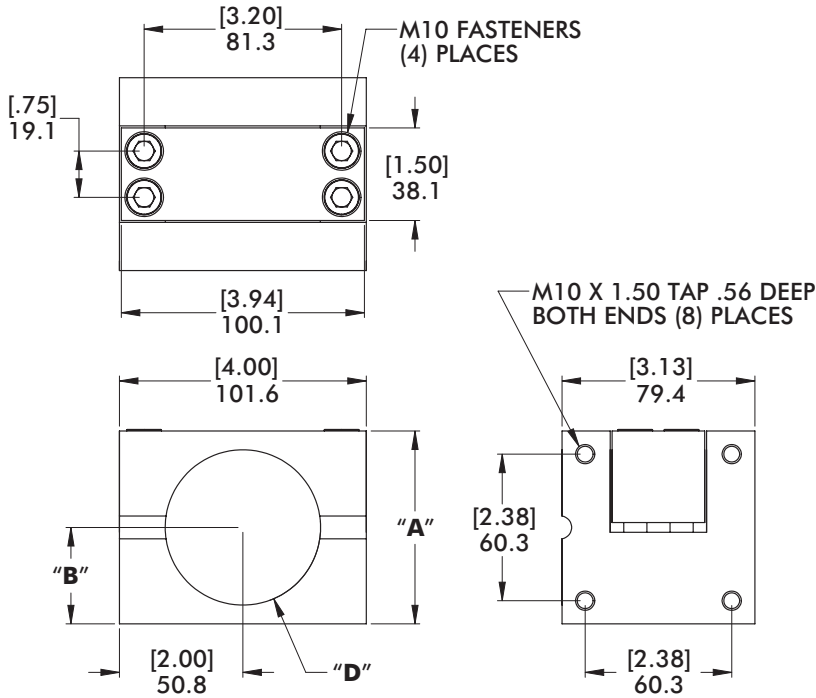
Max. Static Clamp Load:  
675 N\*m [500 ft-lb]  
Material: Aluminum

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

Direct Mount Brackets and Blocks

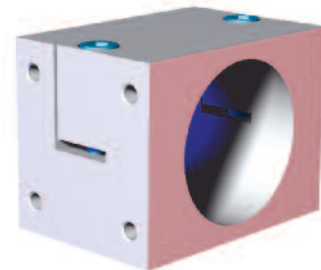
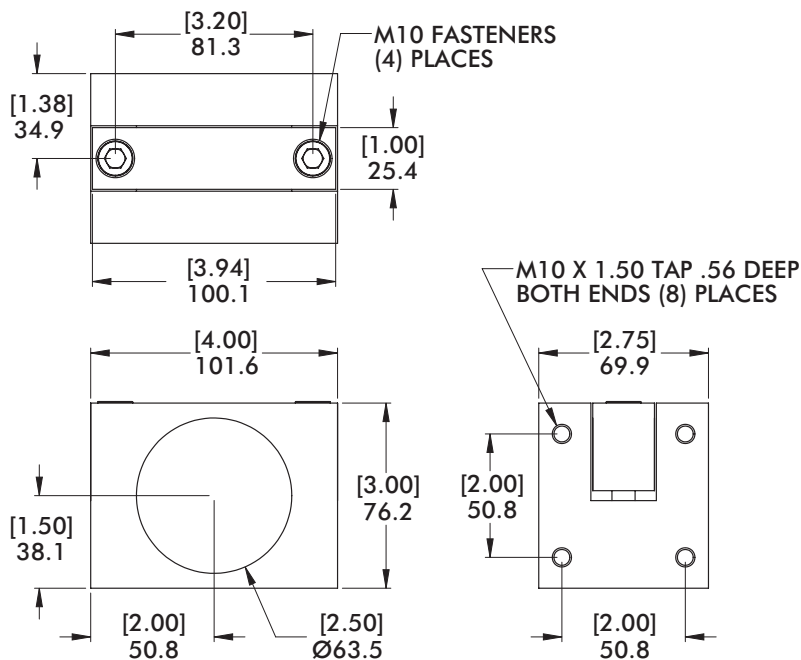
**CL-xx-DM-xxF** Direct Mount Bracket for Ø60mm/2.50" Tube

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size



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-25-DM-10F** Direct Mount Bracket for 2.50" Tube



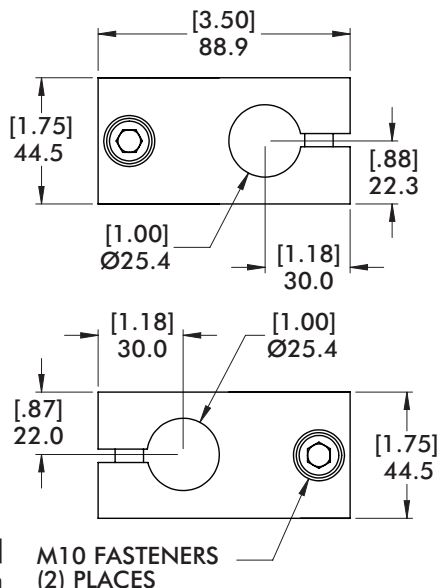
Model Number	Weight
CPI-CL-25-DM-10F	[1.89 lb] .86 kg



Cross Transition Brackets and Blocks

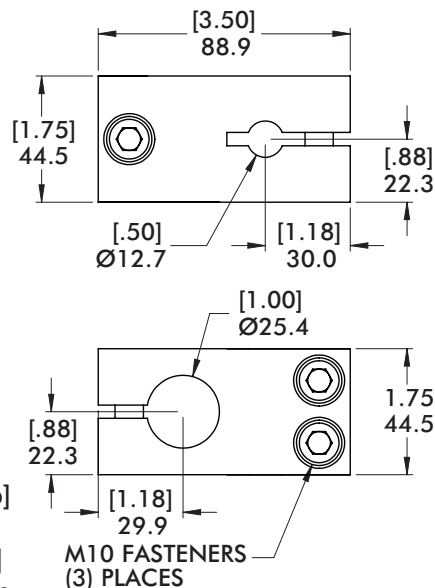
Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

**M1513** Ø1.00" to Ø1.00"



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

**M1563** Ø1.00" to Ø.50"

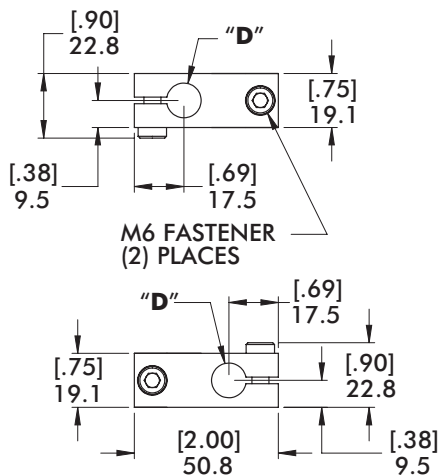


**Specifications:**  
Max. Static  
Clamp Load:  
Ø25mm/1.00":  
203 N\*m [150 ft-lb]  
Ø12mm/.50":  
13.6 N\*m [10 ft-lb]  
Material: Aluminum

Model Number	Weight
<b>M1513</b>	[.82 lb] .37 kg

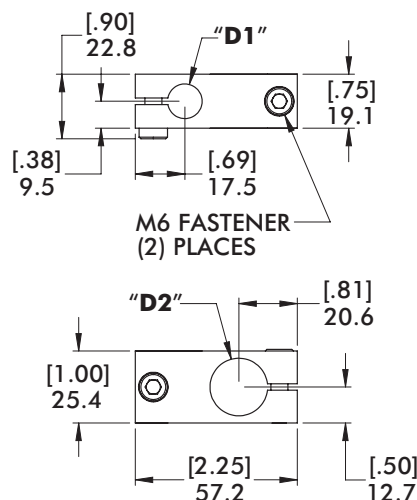
Model Number	Weight
<b>M1563</b>	[.94 lb] .43 kg

**CLM** Ø12mm/.50" to Ø12mm/.50"



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

**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)"D"	Weight
<b>CPI-CLM-12M-12M</b>	<b>12mm</b>	[.10 lb] .05 kg
<b>CPI-CLM-50-50</b>	<b>.50"(in)</b>	

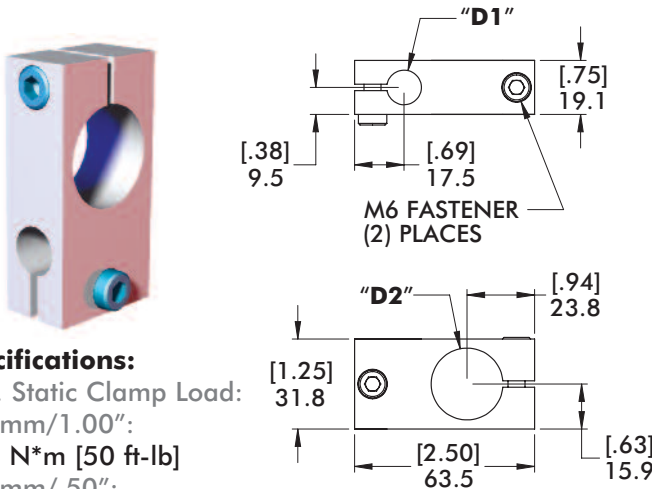
Model Number	(Ø)"D1"	(Ø)"D2"	Weight
<b>CPI-CLM-20M-12M</b>	<b>12mm</b>	<b>20mm</b>	[13 lb] .06 kg
<b>CPI-CLM-75-50</b>	<b>.50"(in)</b>	<b>.75 in</b>	



Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

Cross Transition Brackets and Blocks

**CLM** Ø25mm/1.00" to Ø12mm/.50"

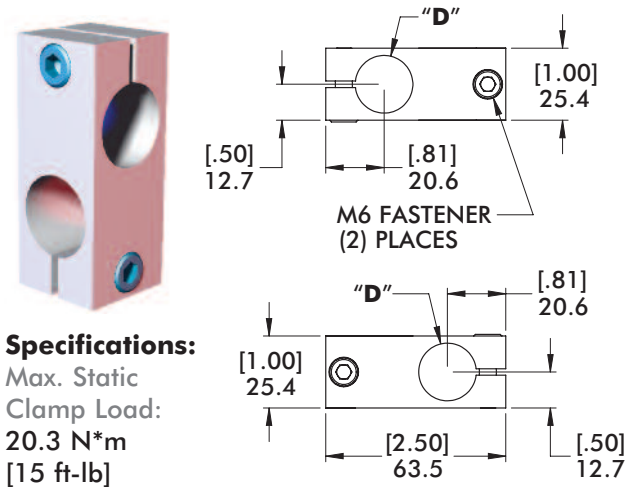


**Specifications:**

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"

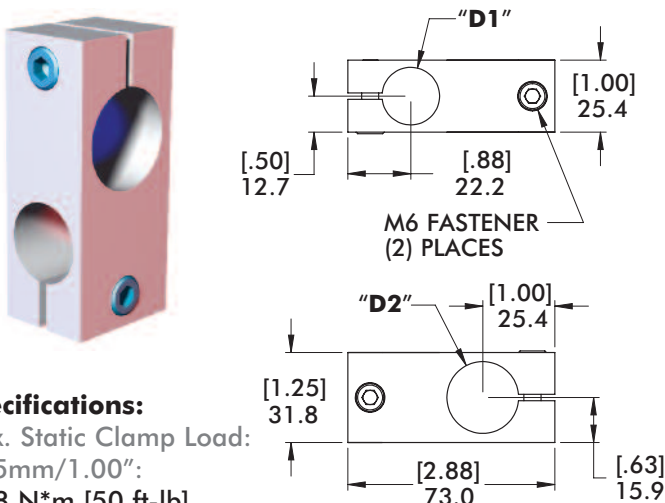


**Specifications:**

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

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

**CLM** Ø25mm/1.00" to Ø20mm/.75"

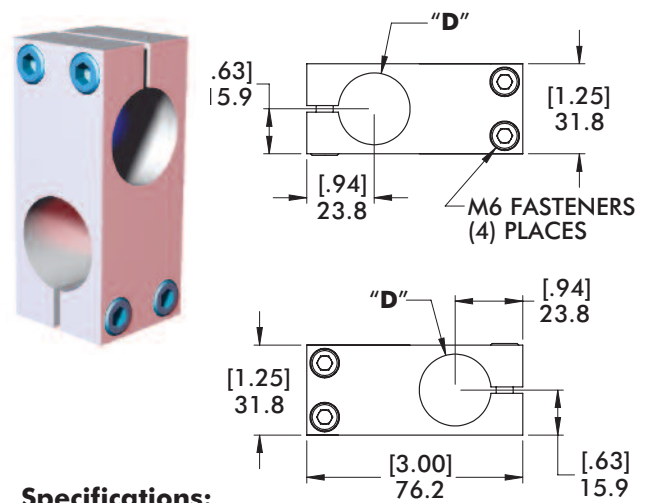


**Specifications:**

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)	

**CLM** Ø25mm/1.00" to Ø25mm/1.00"



**Specifications:**

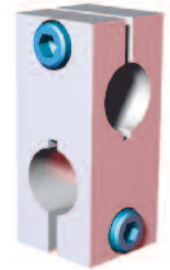
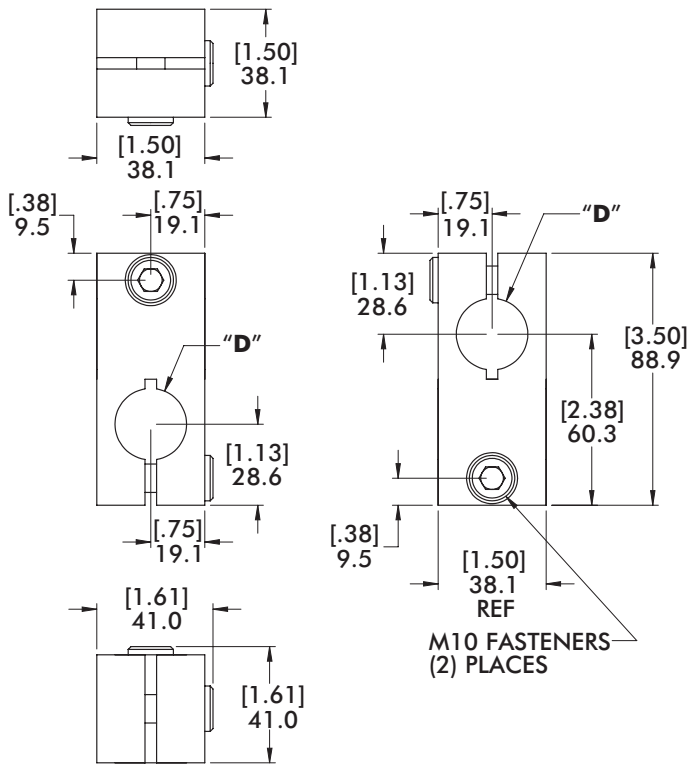
Max. Static Clamp Load:  
67.8 N\*m [50 ft-lb]  
Material: Aluminum

Model Number	(Ø)"D"	Weight
CPI-CLM-25M-25M	25mm	[.31 lb] .14 kg
CPI-CLM-10-10	1.00"(in)	

Cross Transition Bracket and Blocks

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

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

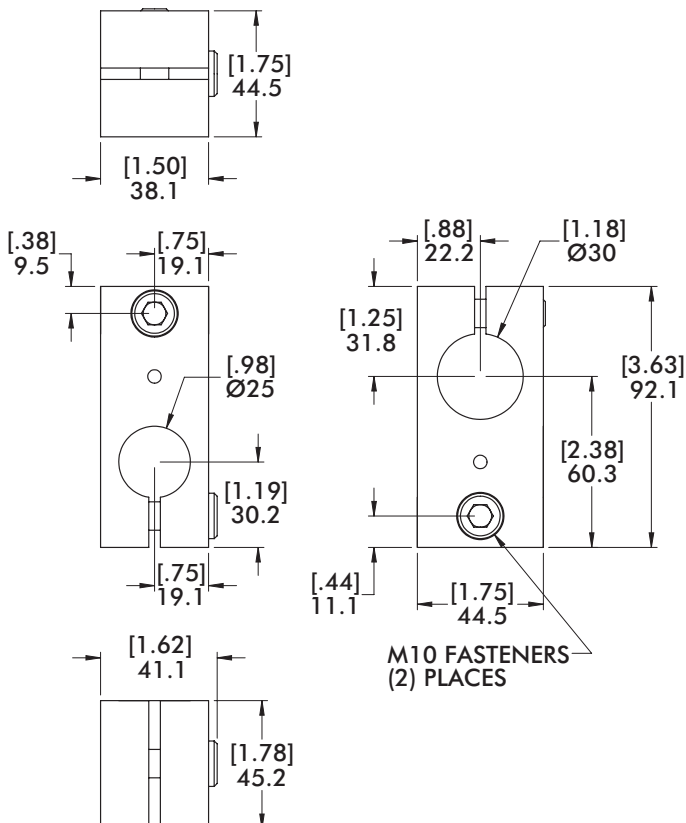


**Specifications:**

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

Model Number	(Ø)"D"	Weight	Finish
CPI-SC-25-25	25mm		SILVER
CPI-SC-25-25-BL	25mm	[.60 lb] .27 kg	BLUE
CPI-SC-10-10	1.00"(in)		SILVER

CPI-SC-25-30 Ø25mm to Ø30mm (Single Bolt)



**Specifications:**

Max. Static Clamp Load:  
Ø25mm:  
162 N\*m [120 ft-lb]  
Ø30mm:  
203 N\*m [150 ft-lb]  
Material: Aluminum

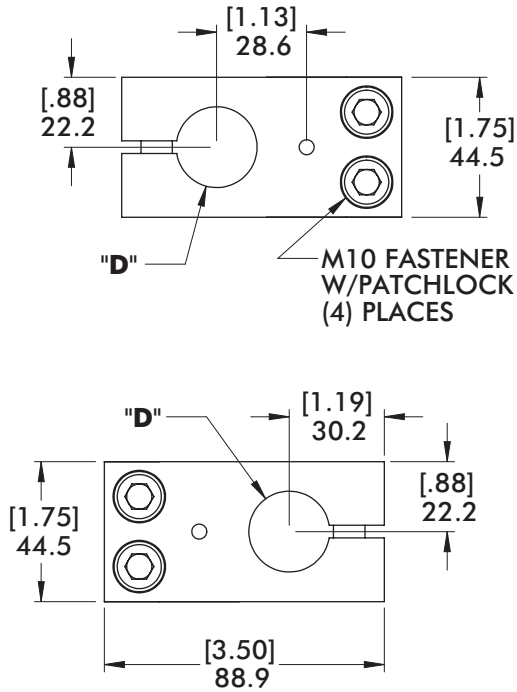
Model Number	Weight
CPI-SC-25-30	[.70 lb] .32 kg



### Cross Transition Brackets and Blocks

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

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

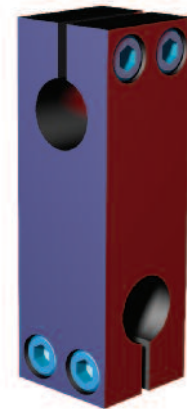
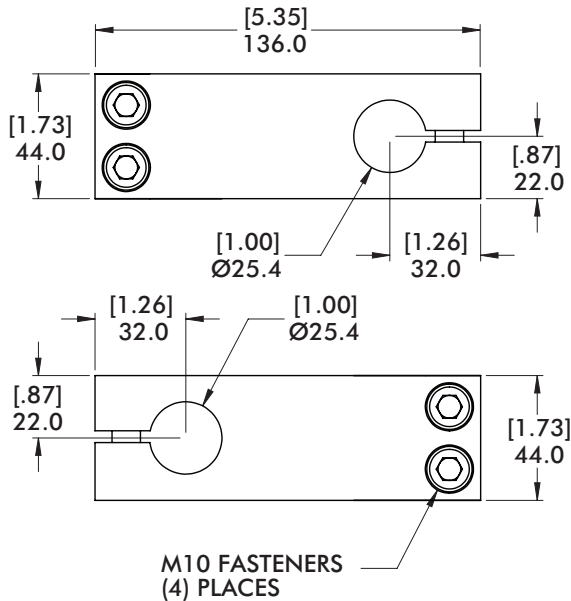


**Specifications:**

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

**M1584** Ø1.00" to Ø1.00" (Double Bolt)



**Specifications:**

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

Model Number	Weight
M1584	[1.43 lb] .65 kg

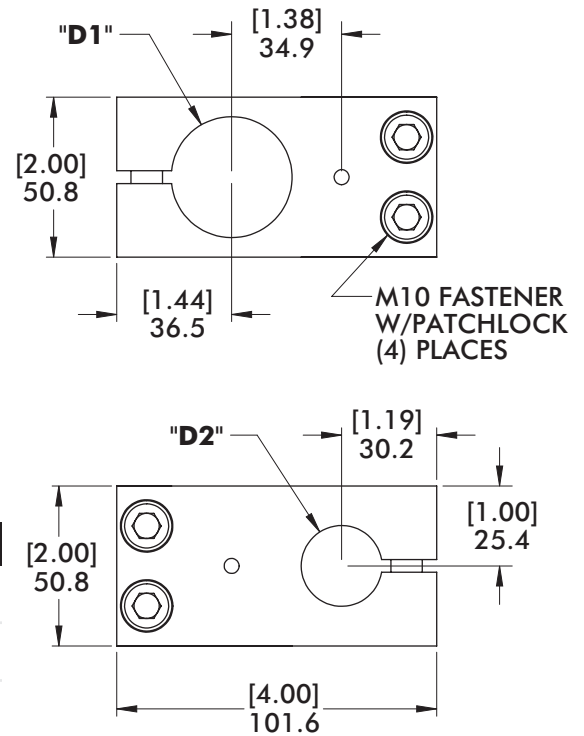
Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

Cross Transition Brackets and Blocks

**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

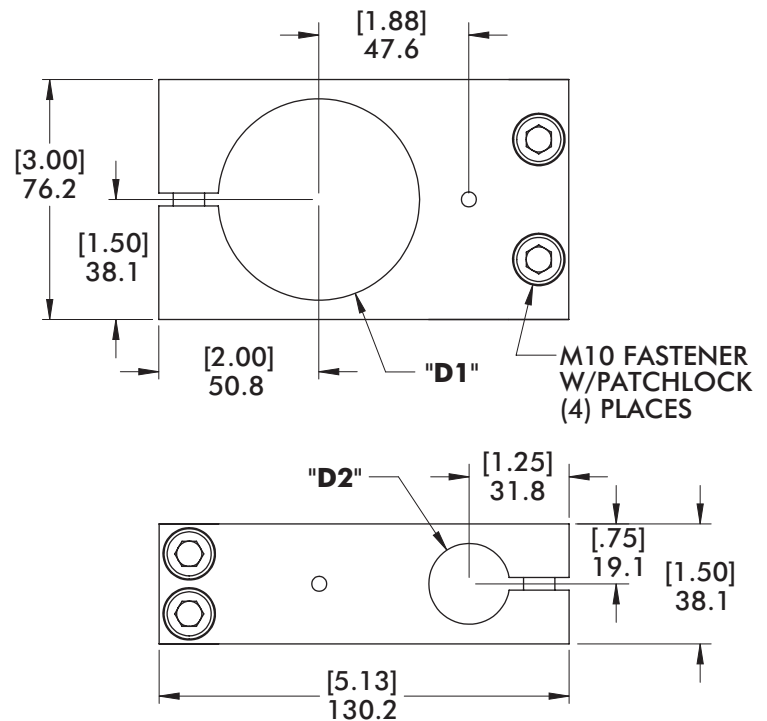


Model Number	(Ø)"D1"	(Ø)"D2"	Weight	Finish
M-10E-12E-M	1.25"(in)	1.00"(in)	[1.29 lb] .58 kg	BLACK
M-10E-15E-M	1.50"(in)	1.00"(in)	[1.18 lb] .54 kg	BLACK
M-25M-40M-M	40mm	25mm		BLUE

**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

### Cross Transition Brackets and Blocks

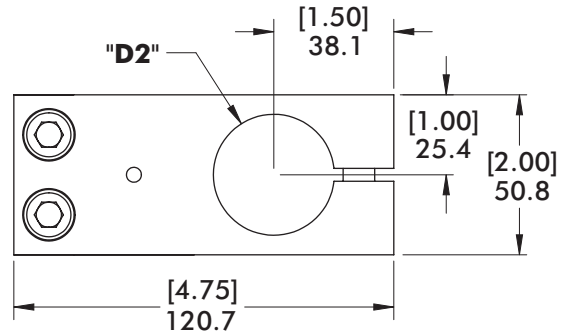
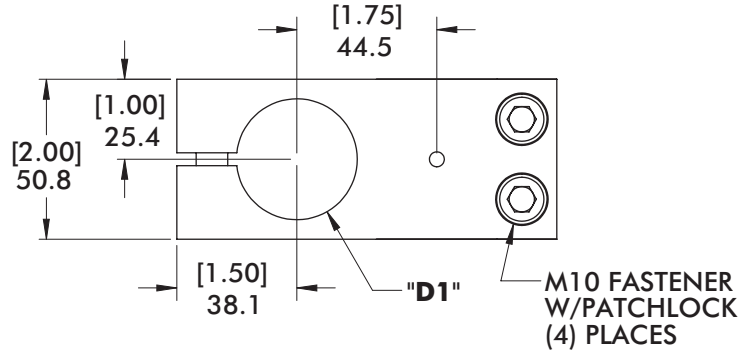
**M-xxx-xxx-M** Ø40mm/1.25"/1.50" to Ø40mm/1.25"/1.50" (Double Bolt)

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size



**Specifications:**

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



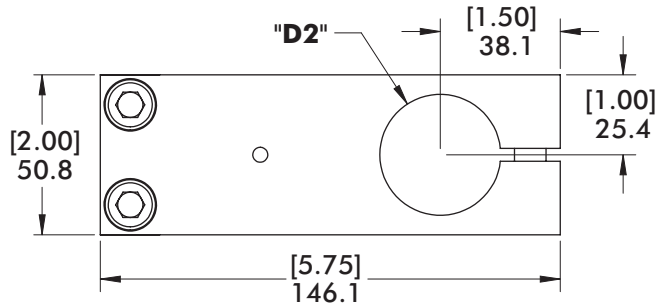
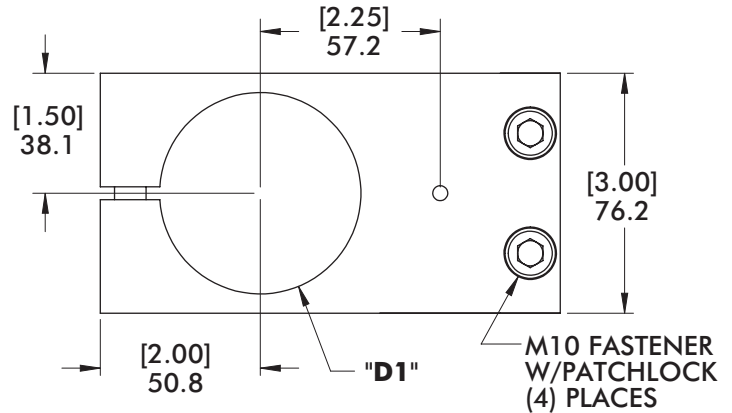
Model Number	(Ø)"D1"	(Ø)"D2"	Weight	Finish
M-12E-12E-M	1.25"(in)	1.25"(in)	[1.51 lb] .69 kg	BLACK
M-12E-15E-M	1.25"(in)	1.50"(in)	[1.41 lb] .64 kg	BLACK
M-15E-15E-M	1.50"(in)	1.50"(in)	[1.31 lb] .59 kg	BLACK
M-40M-40M-M	40mm	40mm	[1.23 lb] .56 kg	BLUE

**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

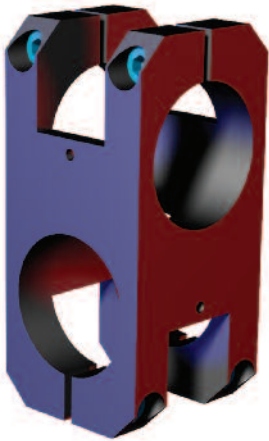


Model Number	(Ø)"D1"	(Ø)"D2"	Weight	Finish
M-40M-60M-M	60mm	40mm	[2.08 lb] .95 kg	BLUE
M-15E-25E-M	2.50"(in)	1.50"(in)		BLACK

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

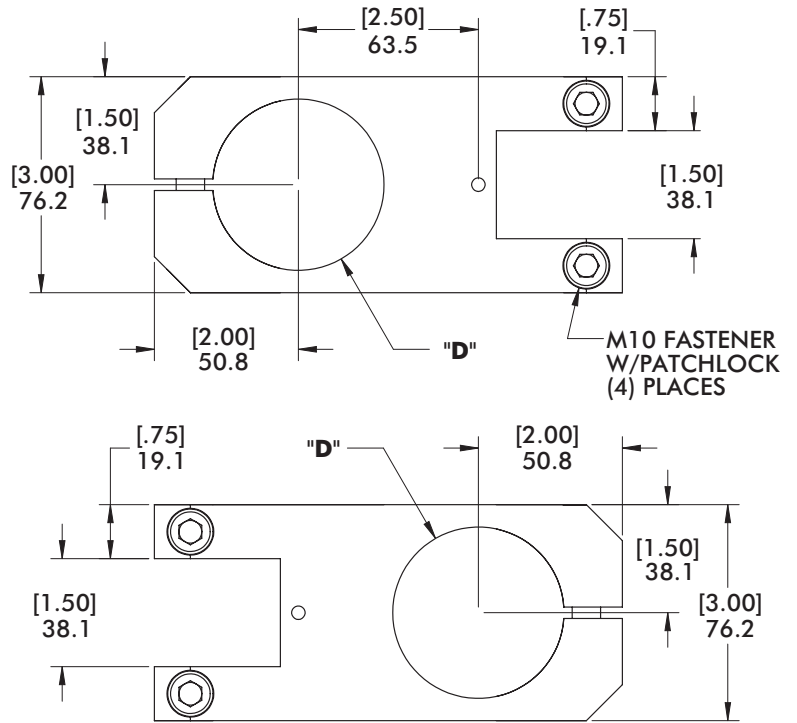
Cross Transition Brackets and Blocks

**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

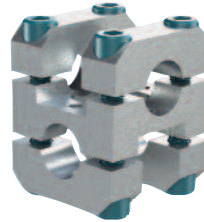
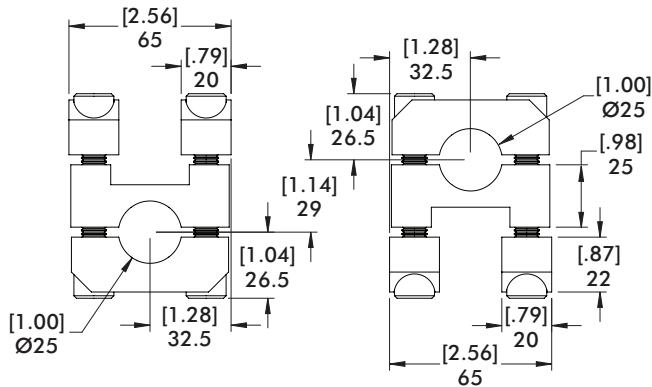
Model Number	(Ø)"D"	Weight	FINISH
M-60M-60M-M	60mm	[2.07 lb] .94 kg	BLUE
M-25E-25E-M	2.50"(in)	[2.03 lb] .92 kg	BLACK



Cross Transition Brackets and Blocks

**C-25M-25M-C** Duo-Clamp Ø25mm/1.00" to Ø25mm/1.00"

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

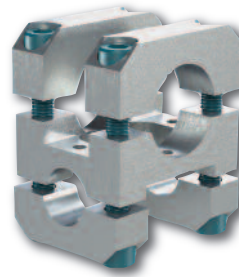
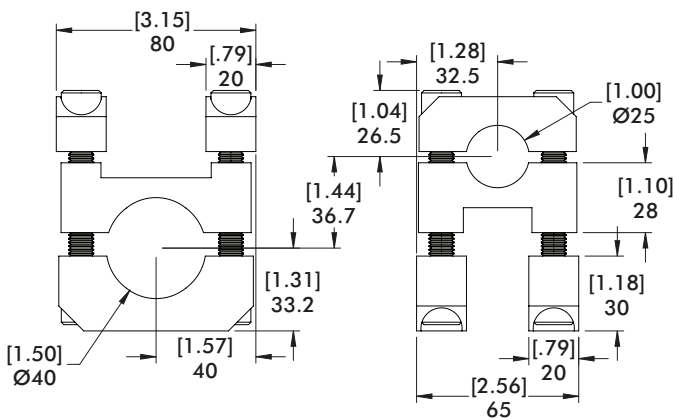


**Specifications:**

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

Model Number	Weight
C-25M-25M-C	[1.21 lb] .55 kg

**C-25M-40M-C** Duo-Clamp Ø25mm/1.00" to Ø40mm/1.50"

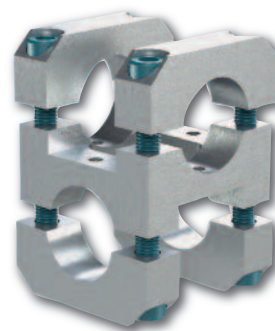
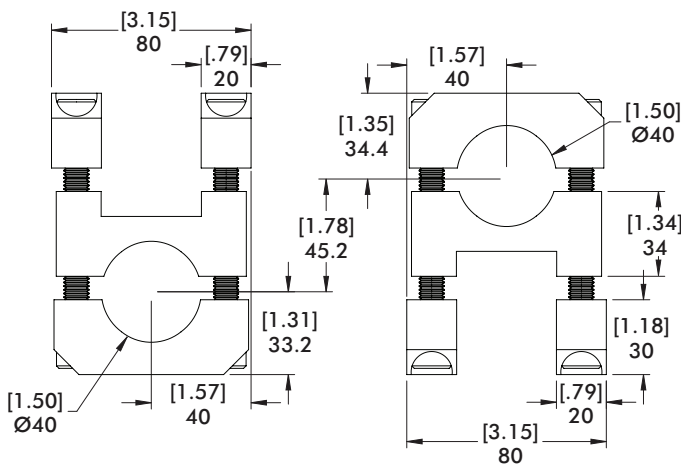


**Specifications:**

Max. Static Clamp Load:  
Ø25mm/1.00":  
271 N\*m [200 ft-lb]  
Ø40mm/1.50":  
515 N\*m [380 ft-lb]  
Material: Aluminum

Model Number	Weight
C-25M-40M-C	[1.46 lb] 0.66 kg

**C-40M-40M-C** Duo-Clamp Ø40mm/1.50" to Ø40mm/1.50"



**Specifications:**

Max. Static Clamp Load:  
515 N\*m [380 ft-lb]  
Material: Aluminum

Model Number	Weight
C-40M-40M-C	[1.87 lb] 0.85kg



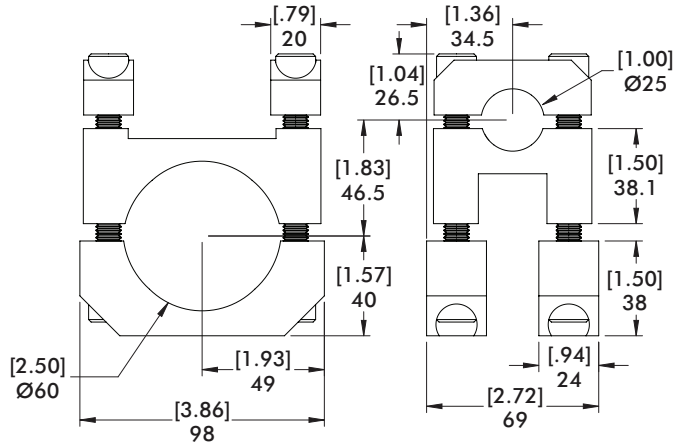
Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

Cross Transition Brackets and Blocks

**C-25M-60M-C** Duo-Clamp Ø25mm/1.00" to Ø60mm/2.50"

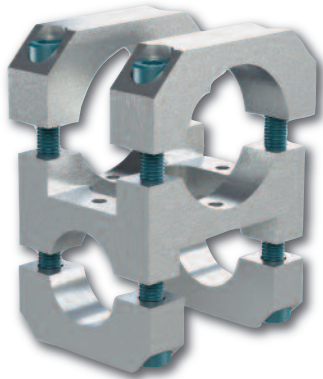


**Specifications:**  
Max. Static Clamp Load:  
Ø25mm/1.00":  
271 N\*m [200 ft-lb]  
Ø60mm/2.50":  
745 N\*m [550 ft-lb]  
Material: Aluminum

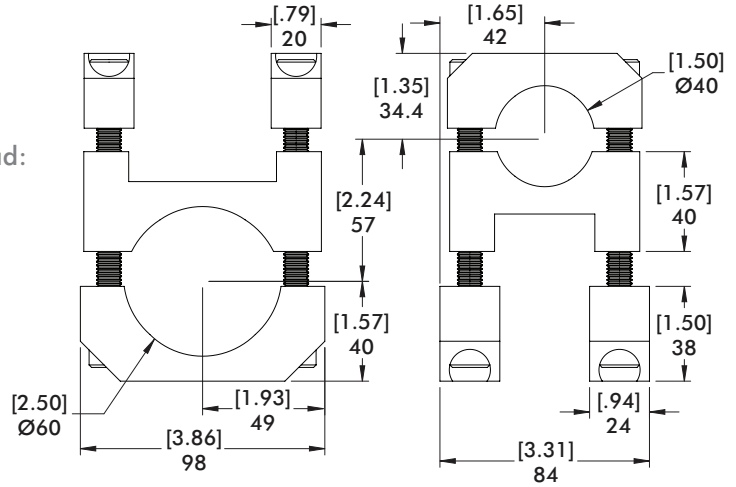


Model Number	Weight
C-25M-60M-C	[1.87 lb] 0.85 kg

**C-40M-60M-C** Duo-Clamp Ø40mm/1.50" to Ø60mm/2.50"

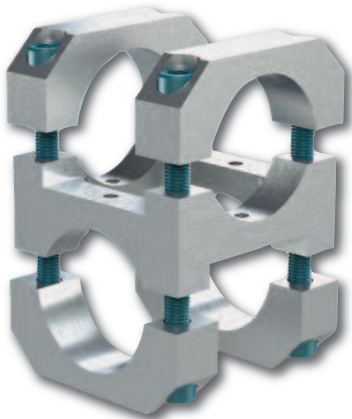


**Specifications:**  
Max. Static Clamp Load:  
Ø40mm/1.50":  
515 N\*m [380 ft-lb]  
Ø60mm/2.50":  
745 N\*m [550 ft-lb]  
Material: Aluminum

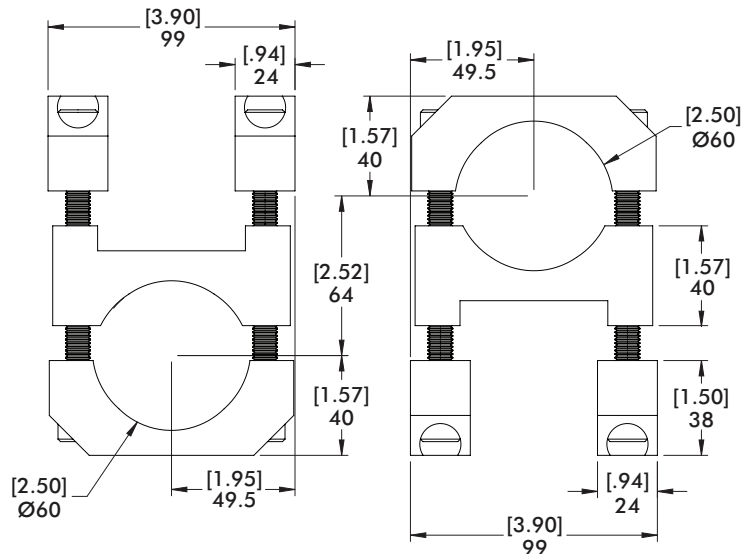


Model Number	Weight
C-40M-60M-C	[2.18 lb] 0.99kg

**C-60M-60M-C** Duo-Clamp Ø60mm/2.50" to Ø60mm/2.50"



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

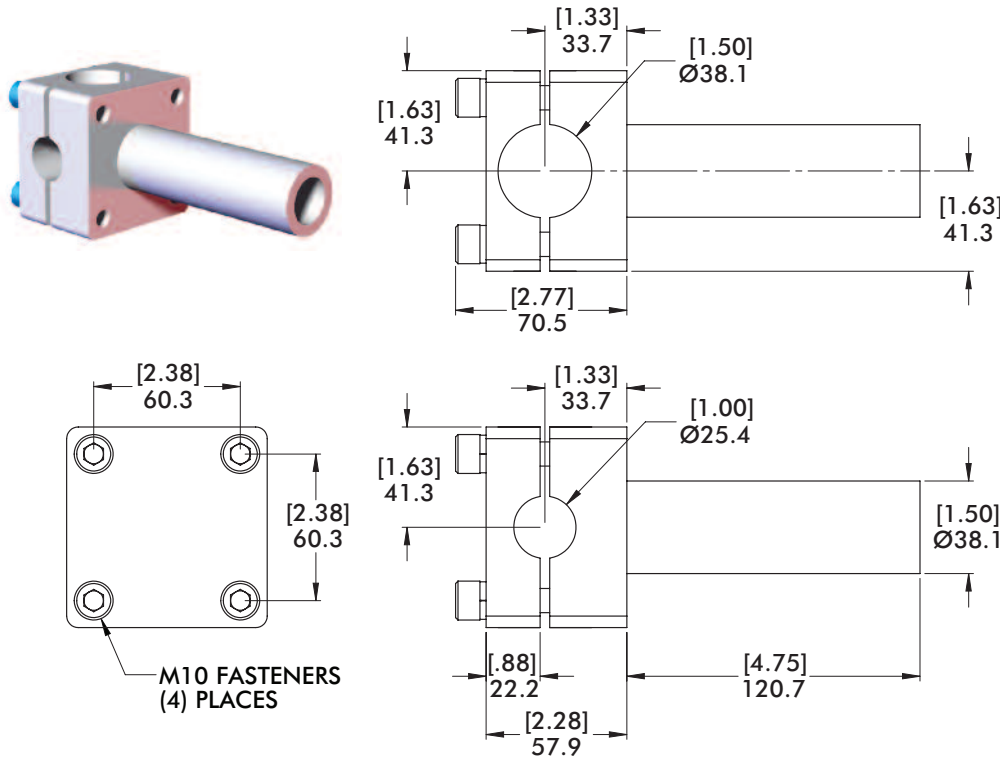


Model Number	Weight
C-60M-60M-C	[2.65 lb] 1.20kg

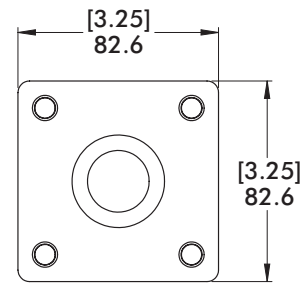
### T-Clamp Transition Brackets and Blocks

**TA** Ø1.50"/1.00" to Ø1.50" Single End Extension Bracket Assembly

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

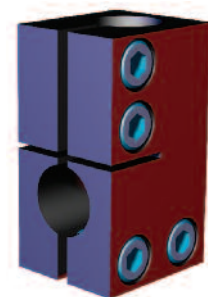
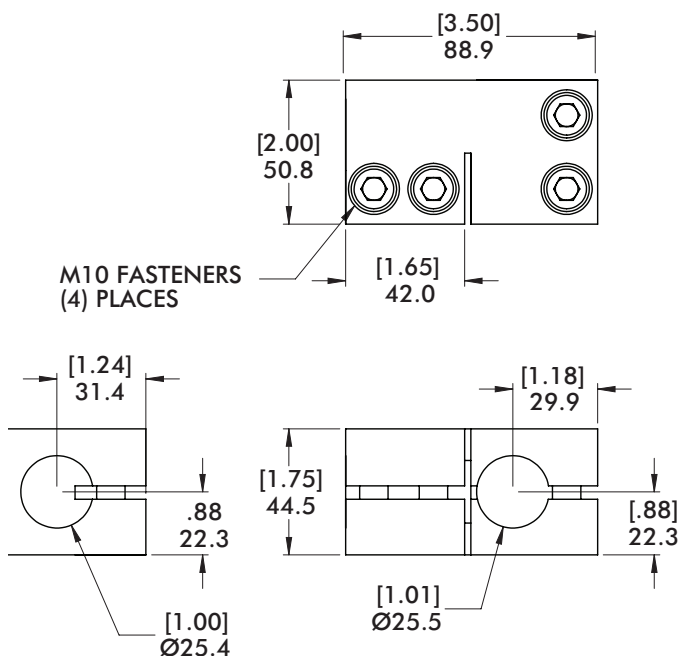


**Specifications:**  
Max. Static Clamp Load:  
Ø1.50":  
271 N\*m [200 ft-lb]  
Ø1.00":  
203 N\*m [150 ft-lb]  
Material: Aluminum



Model Number	Weight
CPI-TA15E-1015-M	[1.02 lb] 1.24 kg

**M-1519** Ø1.00" to Ø1.00" (Double-Bolt)



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

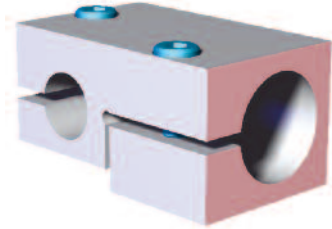
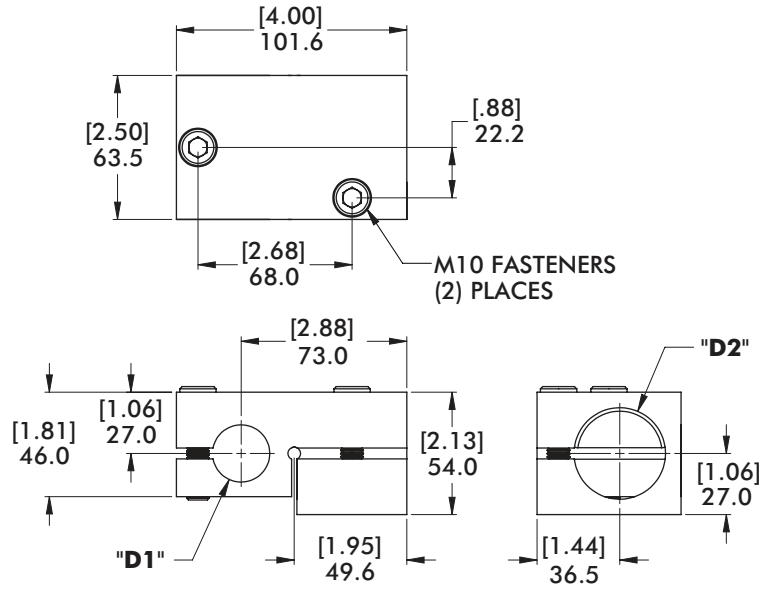
Model Number	Weight
M-1519	[1.02 lb] .46 kg



T-Clamp Transition Brackets and Blocks

TCA Ø40mm/1.50" to Ø40mm/1.50"

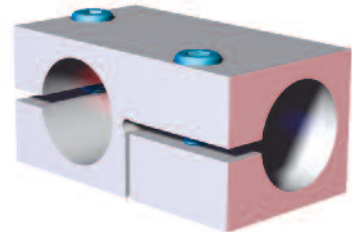
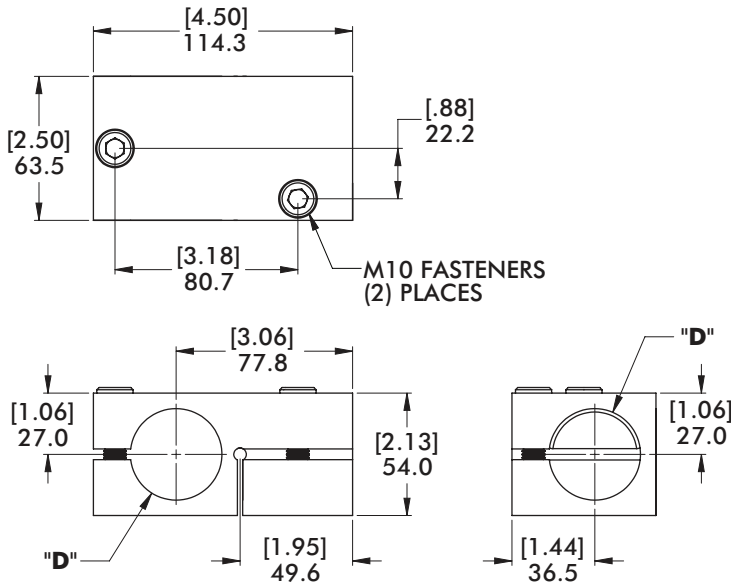
Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size



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

Model Number	(Ø)"D1"	(Ø)"D2"	Weight
CPI-TCA-40-25	25mm	40mm	[1.39 lb] .63 kg
CPI-TCA-15-10	1.00"(in)	1.50"(in)	

TCA Ø40mm/1.50" to Ø40mm/1.50"



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

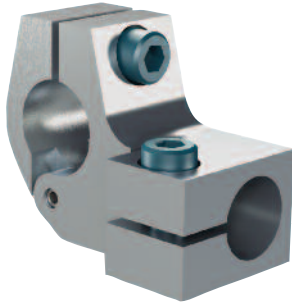
Model Number	(Ø)"D"	Weight
CPI-TCA-40-40	40mm	[1.51 lb] .68 kg
CPI-TCA-15-15	1.50"(in)	



Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

T-Clamp Transition Brackets and Blocks

**TCAH** Ø30mm to Ø25mm



**Specifications:**

Max. Static Clamp Load:

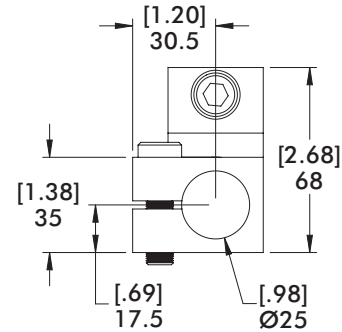
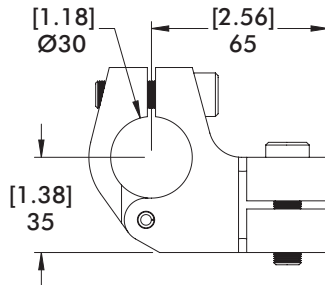
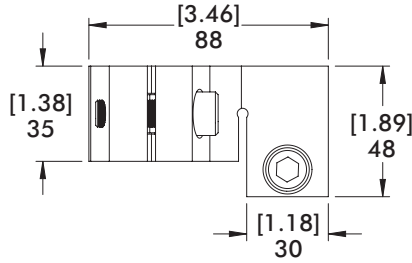
Ø30mm:

237 N\*m [175 ft-lb]

Ø25mm/1.00":

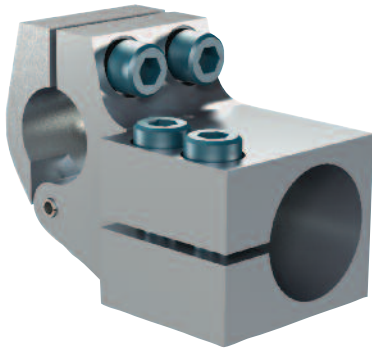
200 N\*m [150 ft-lb]

Material: Aluminum



Model Number	Weight
CPI-TCAH30M-25M	[1.87 lb] 0.85kg

**TCAH** Ø30mm to Ø40mm



**Specifications:**

Max. Static Clamp Load:

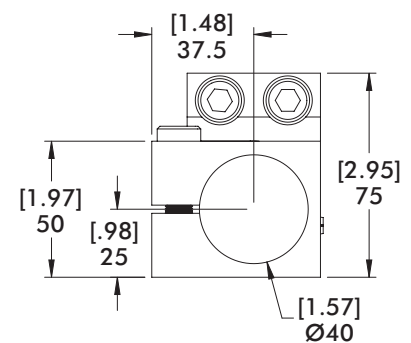
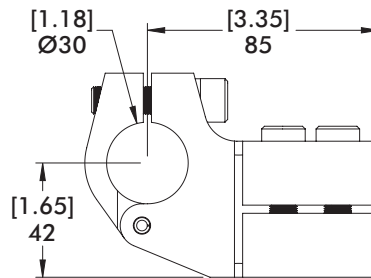
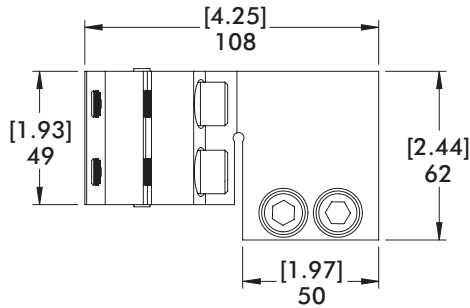
Ø30mm:

237 N\*m [175 ft-lb]

Ø40mm:

271 N\*m [200 ft-lb]

Material: Aluminum

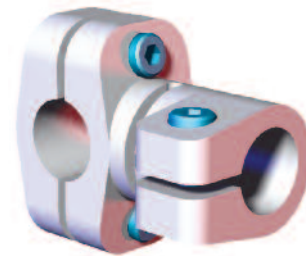
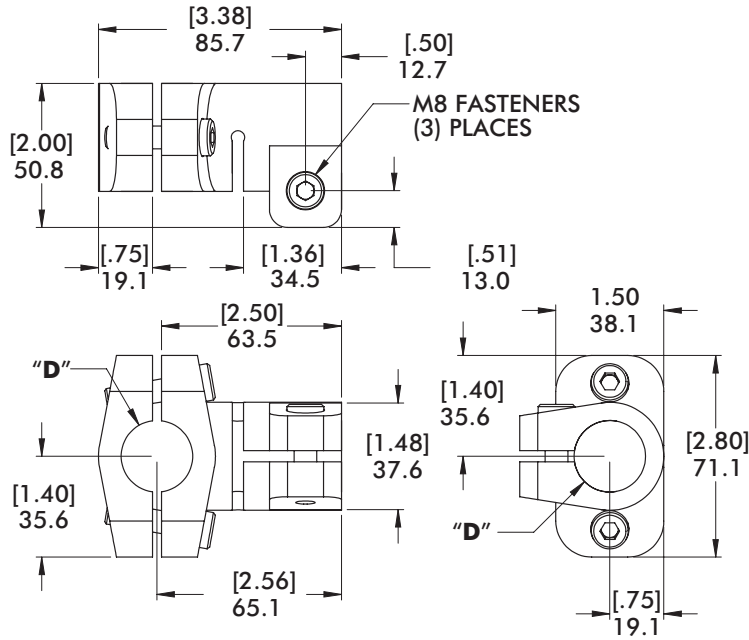


Model Number	Weight
CPI-TCAH30M-40M	[1.87 lb] 0.85kg

### T-Clamp Transition Brackets and Blocks

**TCA** Ø25mm/1.00" to Ø25mm/1.00" for Crossbar Tooling

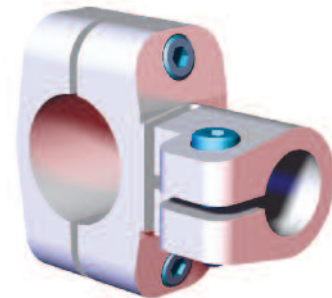
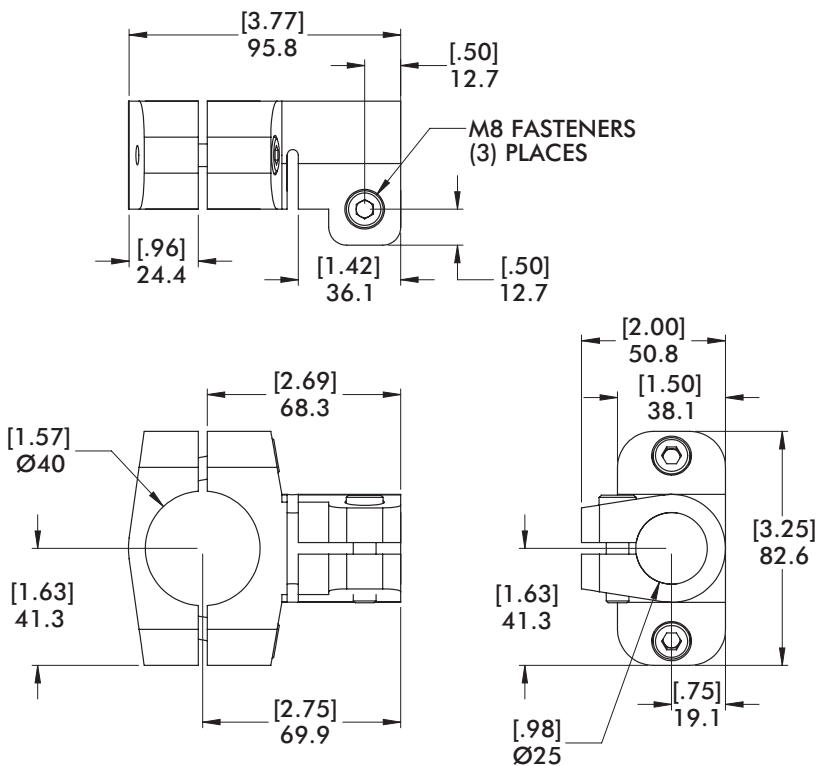
Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size



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

Model Number	(Ø) "D"	Weight
CPI-TCA25-25-SGM	25mm	[.72 lb] .33 kg
CPI-TCA10-10-SGM	1.00"(in)	

**TCA** Ø40mm to Ø25mm for Crossbar Tooling

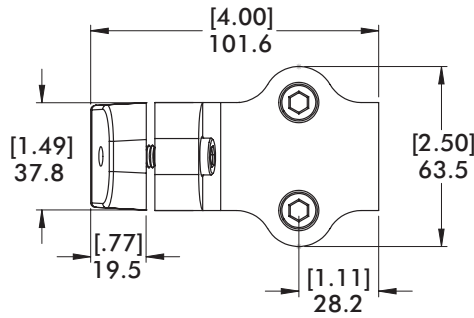
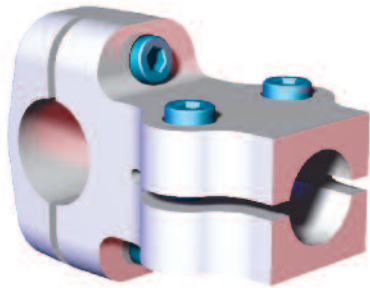


Specifications:  
Max. Static Clamp Load:  
Ø40mm:  
271 N\*m [200 ft-lb]  
Ø25mm/1.00":  
200 N\*m [150 ft-lb]  
Material: Aluminum

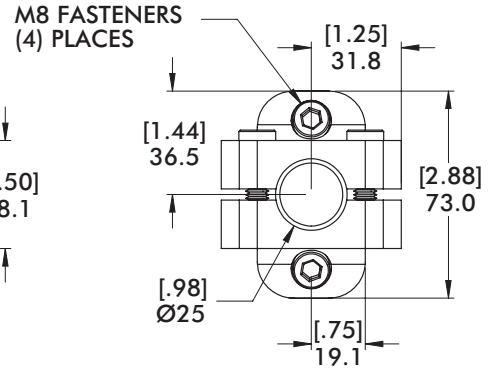
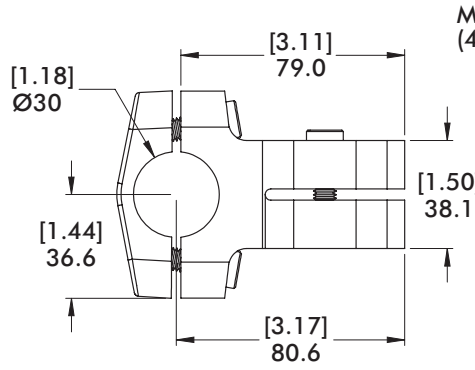
Model Number	Weight
CPI-TCA-25-40-SGM	[.90 lb] .41 kg

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

T-Clamp Transition Brackets and Blocks  
TCA Ø30mm to Ø25mm for Crossbar Tooling

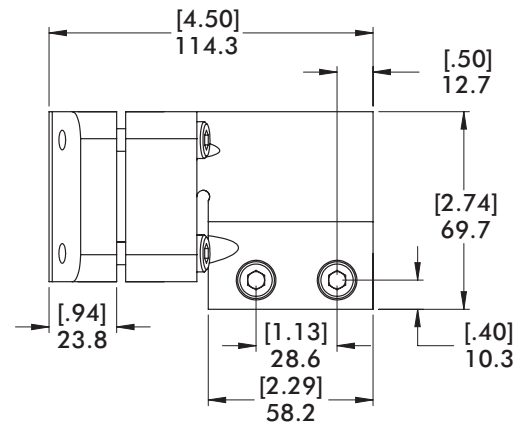
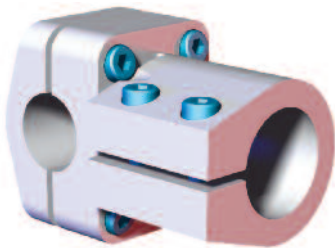


Specifications:  
Max. Static Clamp Load:  
Ø30mm:  
237 N\*m [175 ft-lb]  
Ø25mm/1.00":  
200 N\*m [150 ft-lb]  
Material: Aluminum

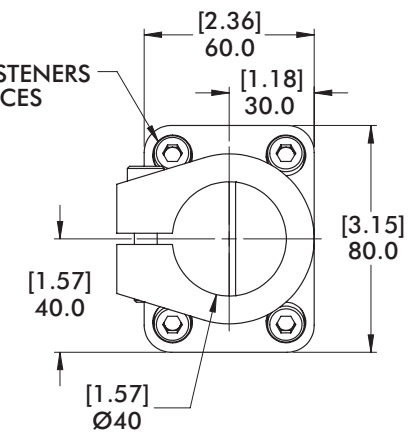
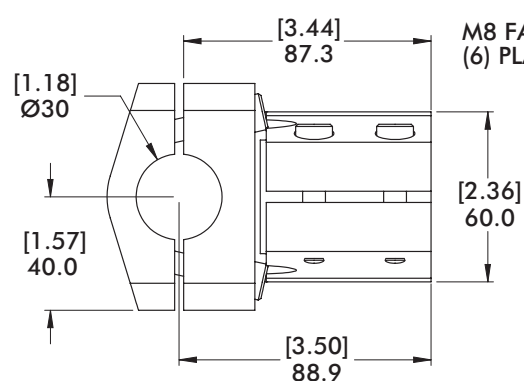


Model Number	Weight
CPI-TCA25-30-HD	[.95 lb] .43 kg

TCA Ø30mm to Ø40mm for Crossbar Tooling



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

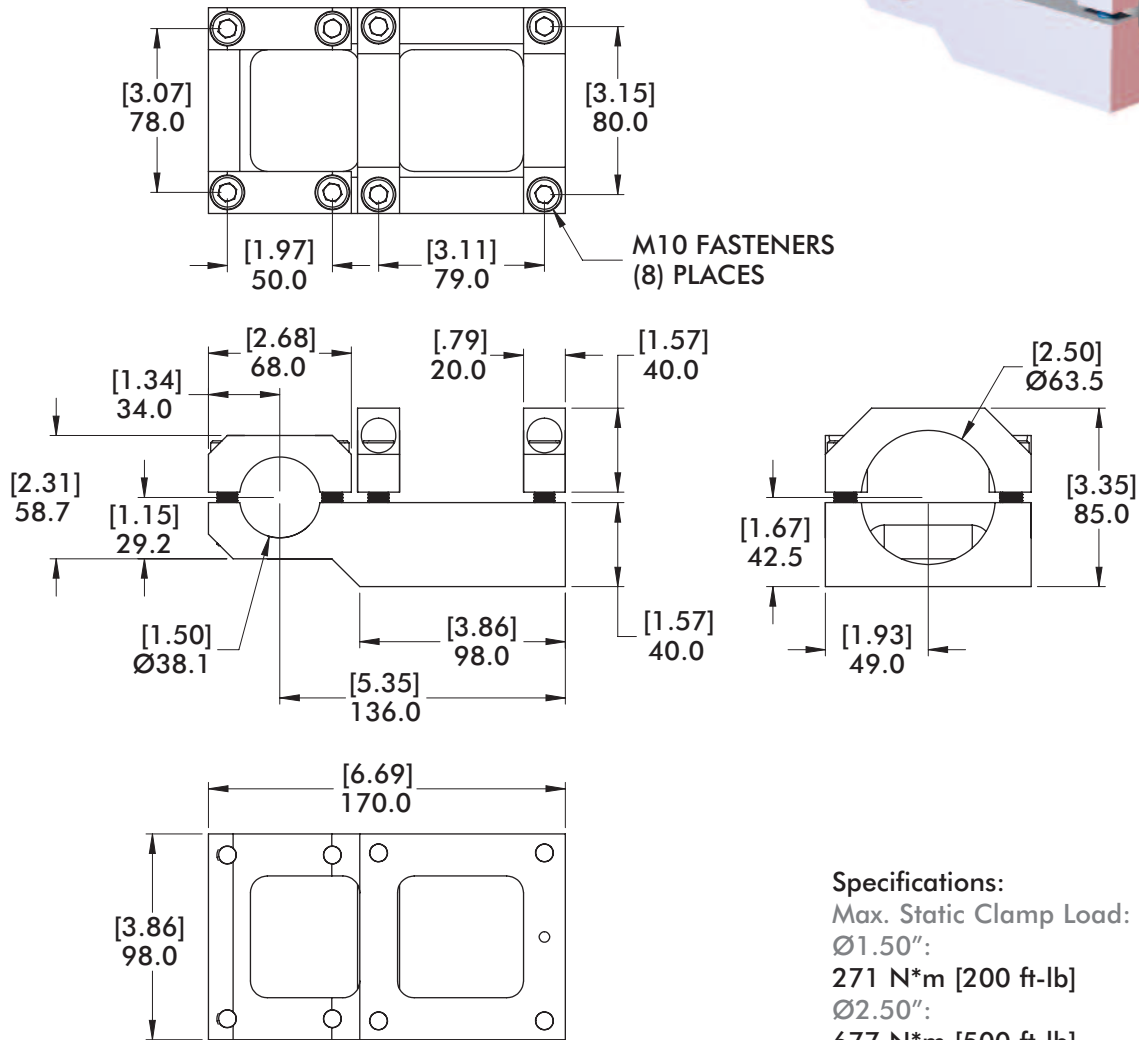
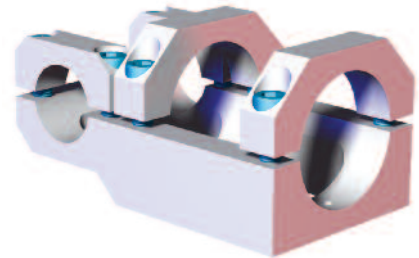


Model Number	Weight
CPI-TCA40-30	[1.97 lb] .89 kg

### T-Clamp Transition Brackets and Blocks

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

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size



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

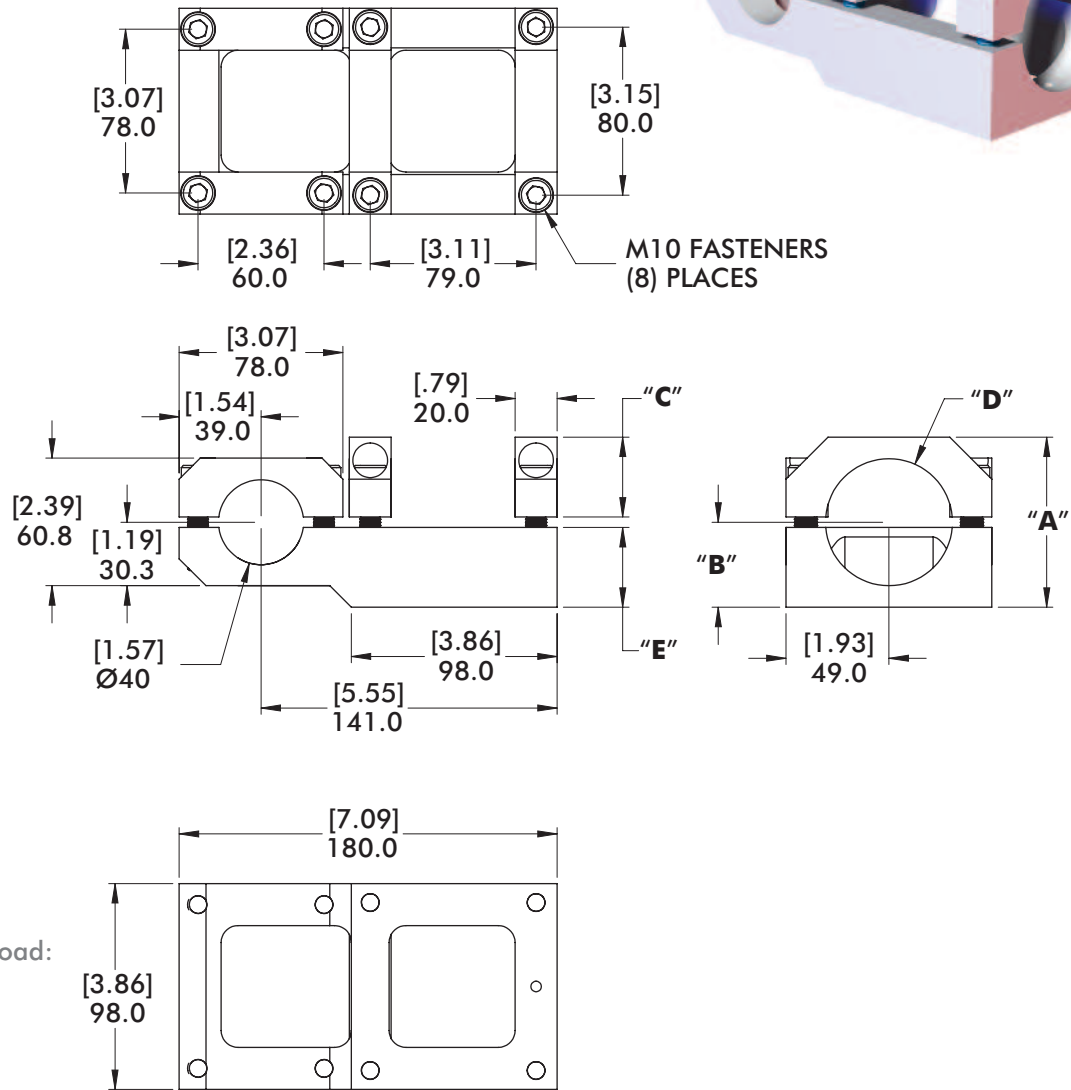
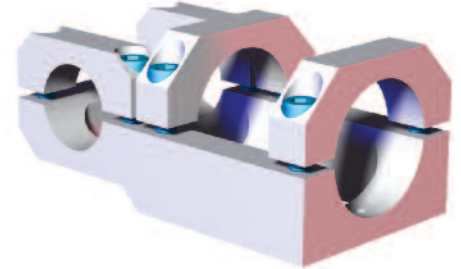
Model Number	Weight
CPI-TCA-250-150	[2.76 lb] 1.25 kg





Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

**T-Clamp Transition Brackets and Blocks**  
TCA Ø60mm/2.50" to Ø40mm T-Clamp Bracket Assembly



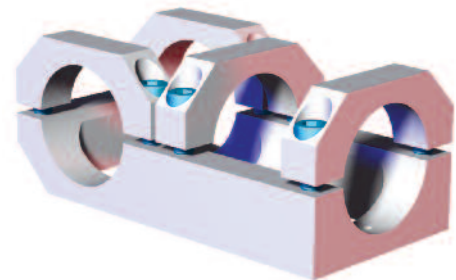
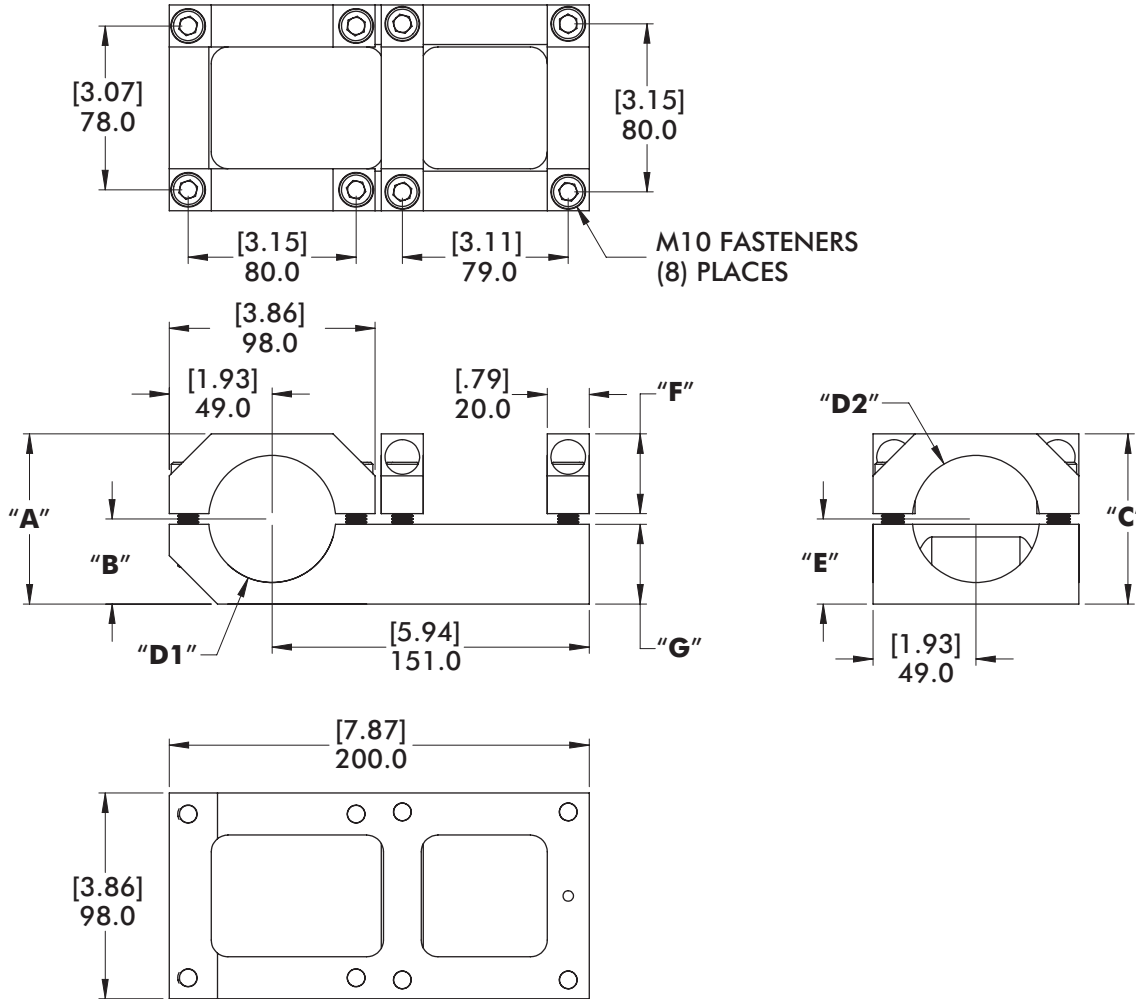
**Specifications:**  
Max. Static Clamp Load:  
Ø40mm:  
271 N\*m [200 ft-lb]  
Ø60mm/2.50":  
677 N\*m [500 ft-lb]  
Material: Aluminum

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
CPI-TCA-250-40M	2.50"(in)	[3.35] 85.0	[1.67] 42.5	[1.57] 40.0	[1.57] 40.0	[2.90 lb] 1.32 kg

### T-Clamp Transition Brackets and Blocks

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

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size



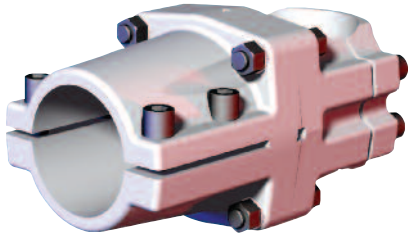
Specifications:  
Max. Static Clamp Load:  
813 N\*m [600 ft-lb]  
Material: Aluminum

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	

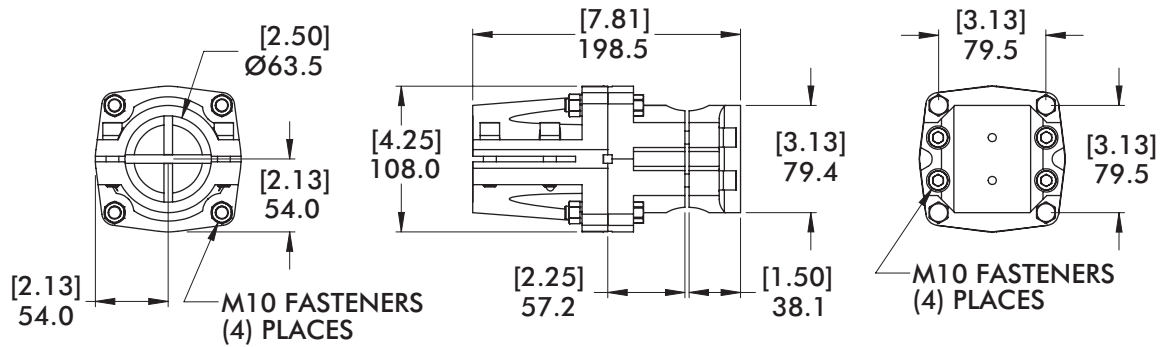
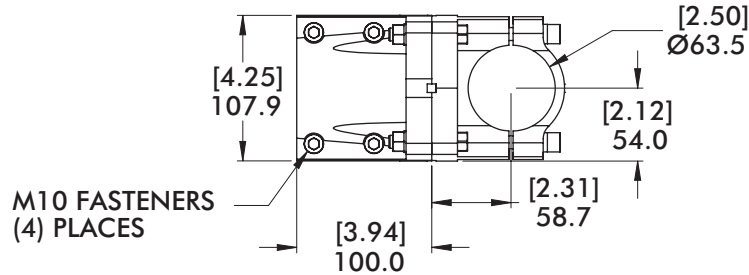
Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

## T-Clamp Transition Brackets and Blocks

**HD** Ø2.50" to Ø2.50" Adjustable T-Clamp Bracket Assembly



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

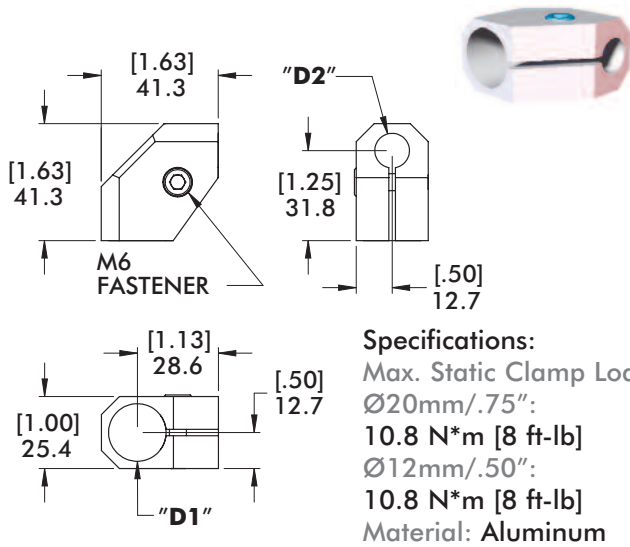


Model Number	Weight
CPI-HD-250-BBF	[5.56 lb] 2.52 kg

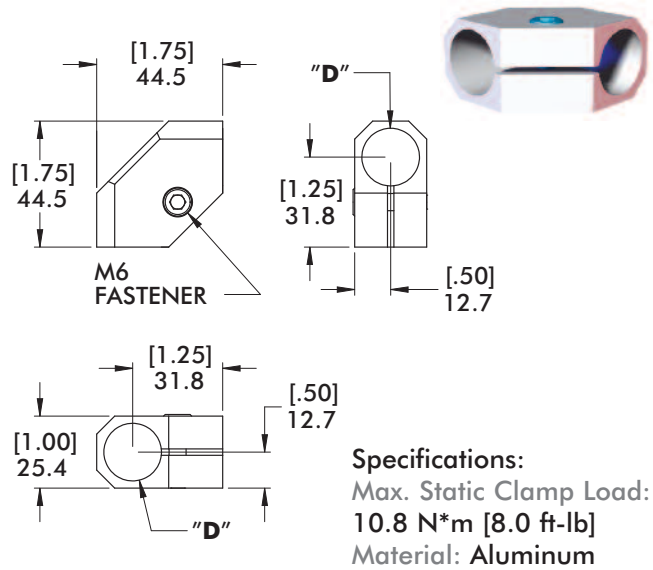
Low-Profile Wrist Brackets and Blocks

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

**SECM** Ø20mm/.75" to Ø12mm/.50"



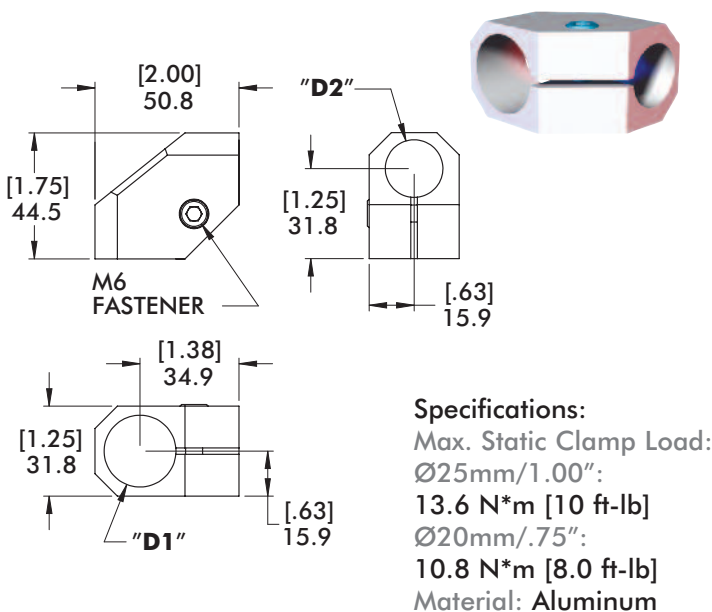
**SECM** Ø20mm/.75" to Ø20mm/.75"



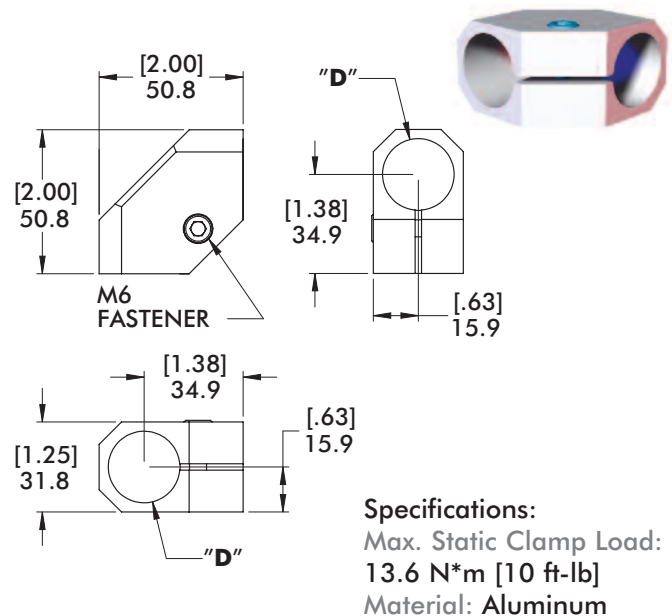
Model Number	(Ø)"D1"	(Ø)"D2"	Weight
CPI-SECM-2012M	12mm	20mm	[.12 lb] .05 kg
CPI-SECM-7550	.50"(in)	.75"(in)	

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"



**SECM** Ø25mm/1.00" to Ø25mm/1.00"



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

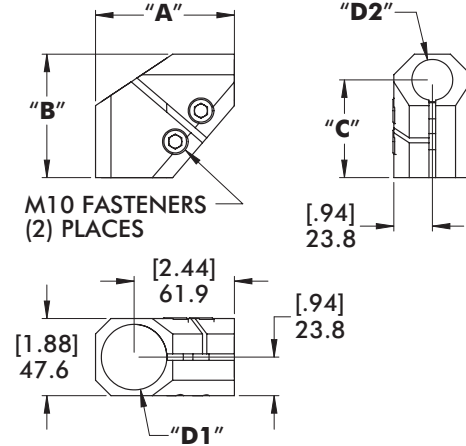
Model Number	(Ø)"D"	Weight
CPI-SECM-2525M	25mm	[.17 lb] .08 kg
CPI-SECM-1010	1.00"(in)	

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

Low-Profile Wrist Brackets and Blocks  
**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

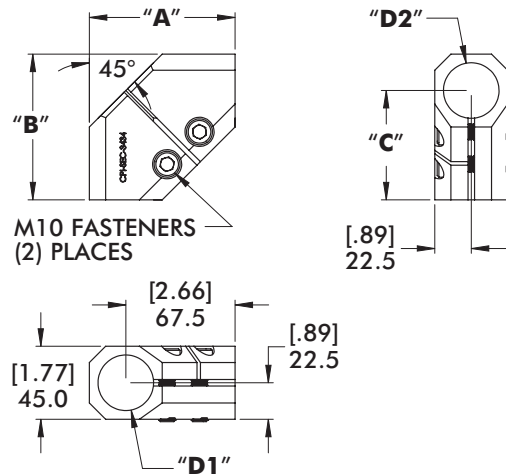


Model Number	(Ø)"D1"	(Ø)"D2"	"A"	"B"	"C"	"E"	Weight
CPI-SEC-1510	1.50"(in)	1.00"(in)	[3.25] 82.6	[2.38] 60.3	[1.75] 44.5	[.88] 22.2	[.67 lb] .31 kg
CPI-SLK-4025	40mm	25mm	[3.38] 85.7	[2.44] 61.9	[1.88] 47.6	[.94] 23.8	[.77 lb] .35 kg

**SEC/SLK** Ø34mm to Ø25mm/34mm



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

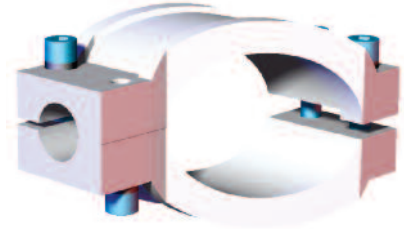
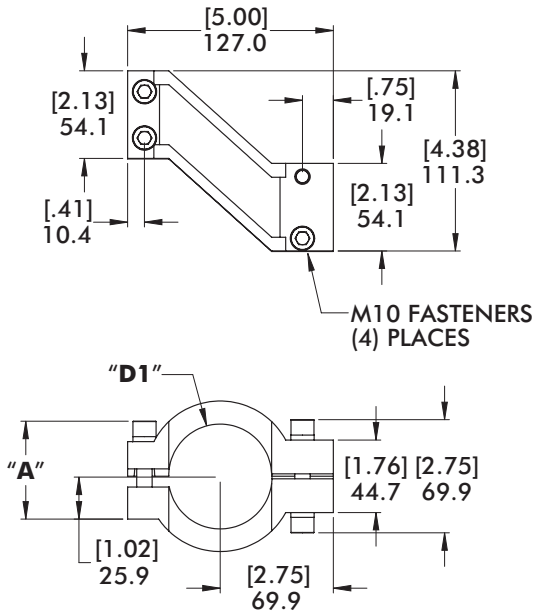


Model Number	(Ø)"D1"	(Ø)"D2"	"A"	"B"	"C"	Weight
CPI-SEC-3425	25mm	34mm	[3.37] 85.5	[3.17] 80.5	[2.28] 58.0	[.84 lb] .38 kg
CPI-SEC-3434	34mm	34mm	[3.54] 90.0	[3.54] 90.0	[2.66] 67.5	[.90 lb] .41 kg

Low-Profile Wrist Brackets and Blocks

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

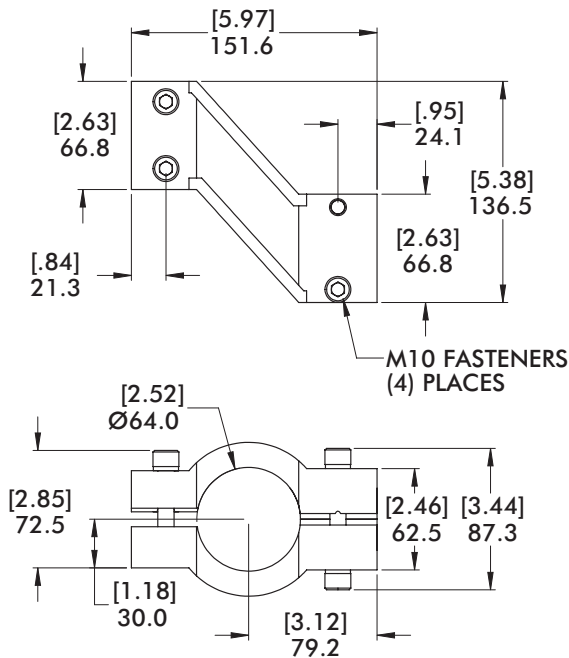
Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size



**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

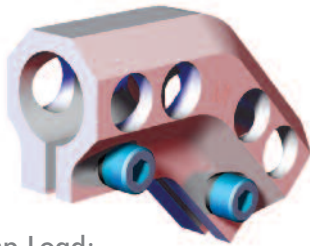
**SEC** Ø2.50" to Ø1.50" Wrist Bracket



**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

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

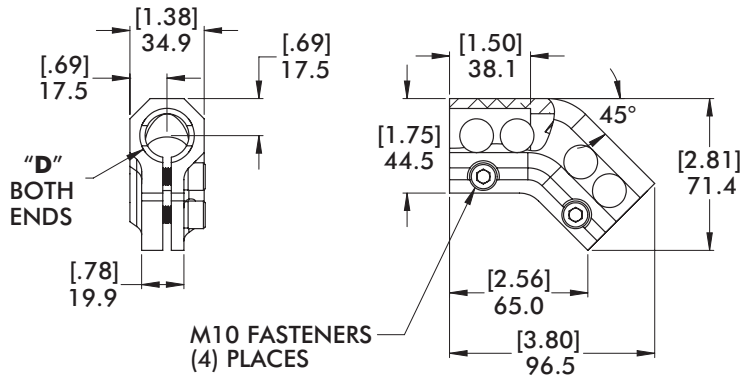


Specifications:  
Max. Static Clamp Load:  
203 N\*m [150 ft-lb]  
Material: Aluminum

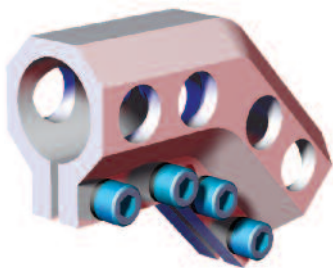
Model Number	(Ø)“D”	Weight
CPI-DC-2525M-45	25mm	[.35 lb] .16 kg
CPI-DC-1010-45	1.00”(in)	

### Elbow and Straight Transition Brackets

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

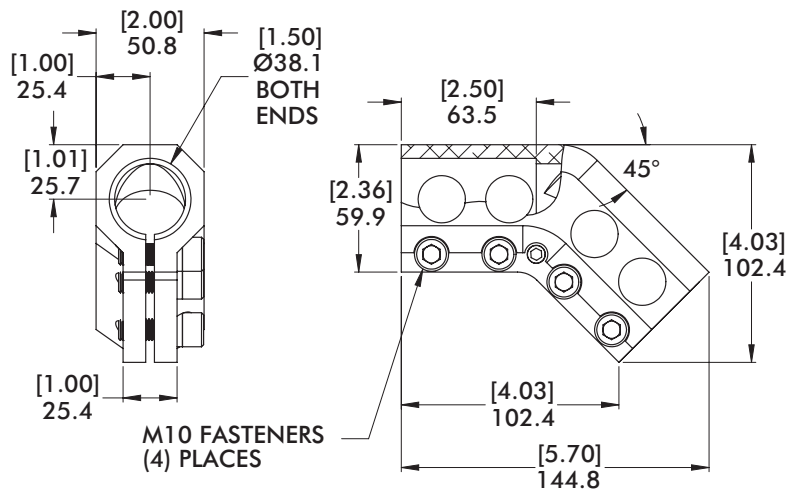


### DC Ø1.50” to Ø1.50” 45° Elbow

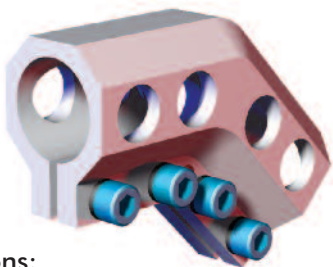


Specifications:  
Max. Static Clamp Load:  
271 N\*m [200 ft-lb]  
Material: Aluminum

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

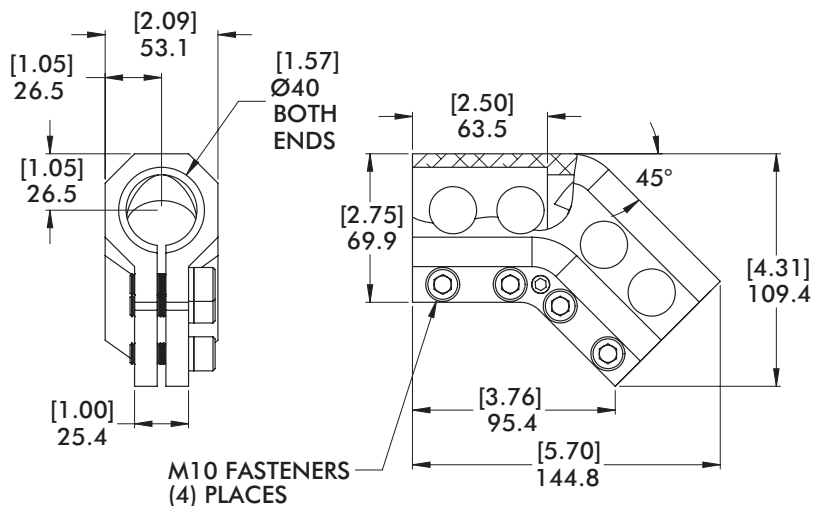


### DC Ø40mm to Ø40mm 45° Elbow



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

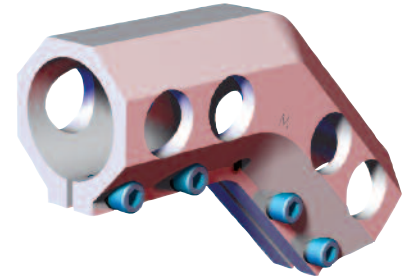
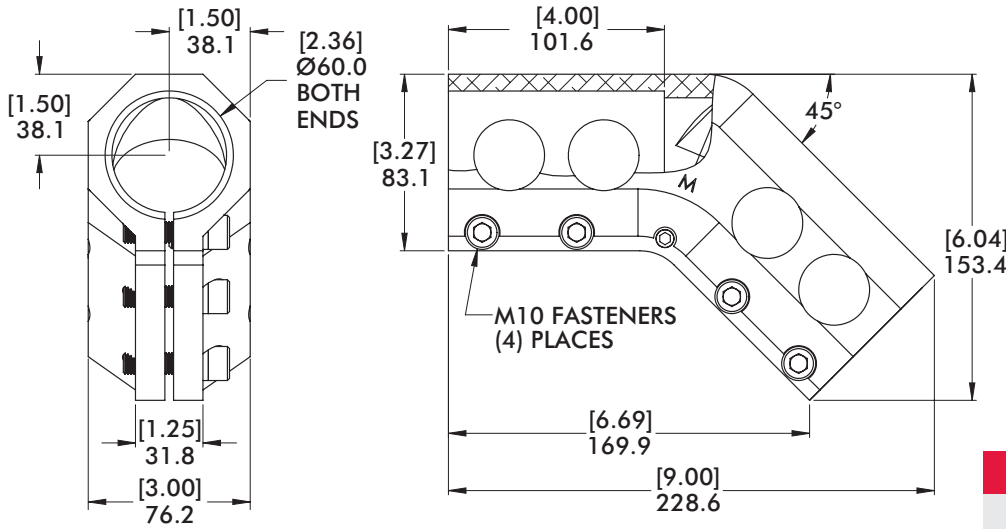
Model Number	Weight
CPI-DC-40-40-45	[1.41 lb] .64 kg



### Elbow and Straight Transition Brackets

**DC** Ø60mm to Ø60mm 45° Elbow

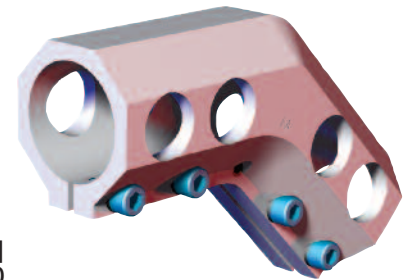
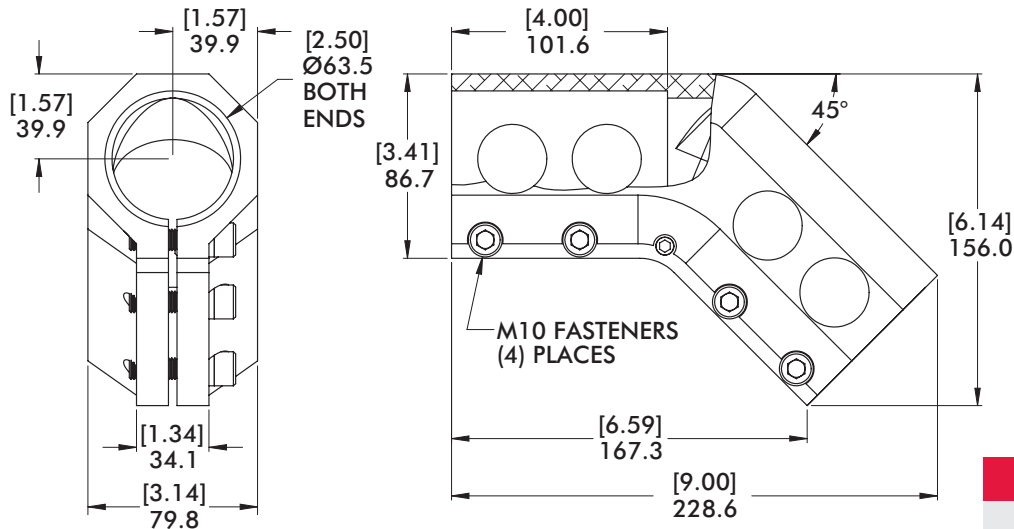
Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size



**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

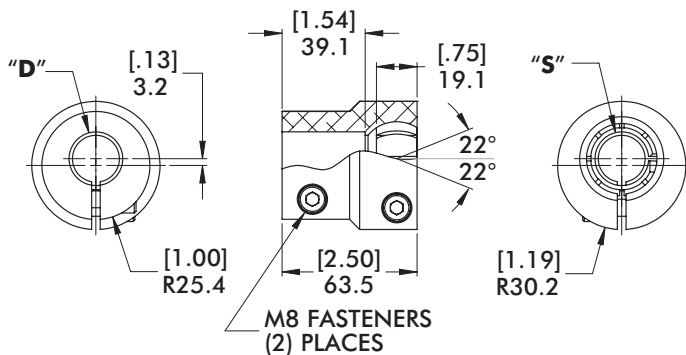
**DC** Ø2.50" to Ø2.50" 45° Elbow



**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)	



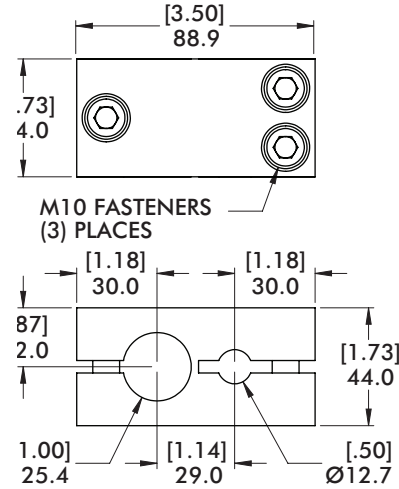
Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

Parallel Transition Brackets and Blocks

**M1581** Ø1.00" to Ø.50" Parallel Block



Specifications:  
Max. Static Clamp Load:  
Ø25mm/1.00":  
203 N\*m [150 ft-lb]  
Ø12mm/.50":  
13.6 N\*m [10 ft-lb]  
Material: Aluminum

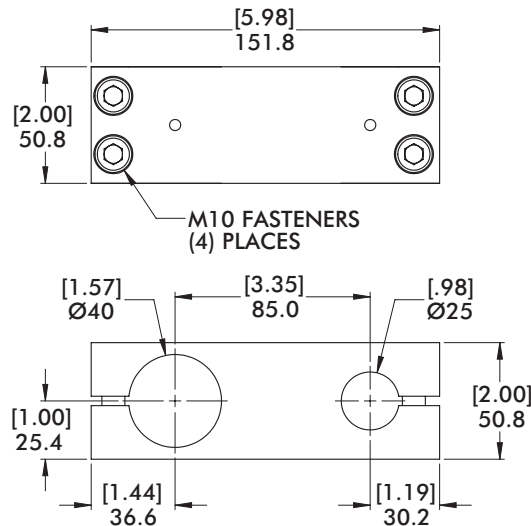


Model Number	Weight
<b>M1581</b>	[.92 lb] .42 kg

**PC** Ø40mm/1.50" to Ø25mm/1.00" Parallel Block

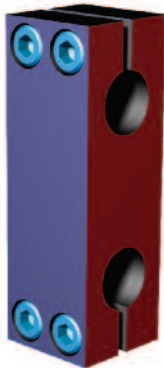


Specifications:  
Max. Static Clamp Load:  
Ø40mm:  
406 N\*m [300 ft-lb]  
Ø25mm:  
203 N\*m [150 ft-lb]  
Material: Aluminum

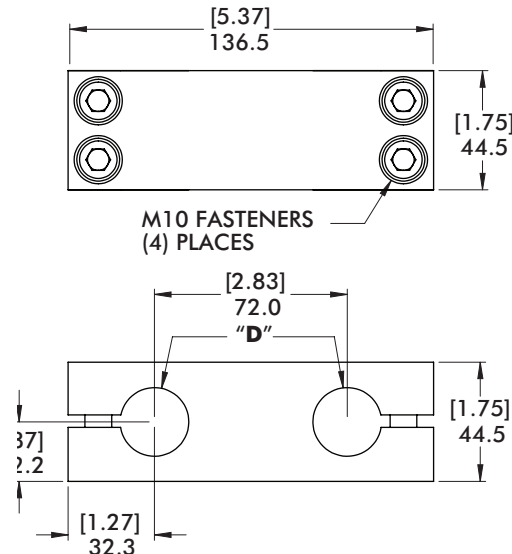


Model Number	Weight
<b>CPI-PC-25-40</b>	[1.92 lb] .87 kg

**M1523/M-1523-MT** Ø25mm/1.00" to Ø25mm/1.00" Parallel Block



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

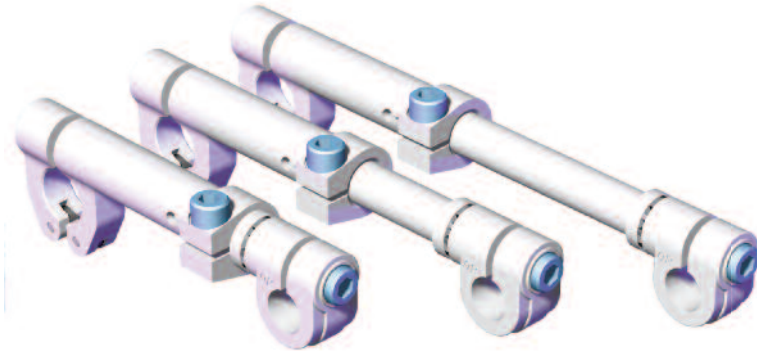


Model Number	(Ø)"D"	Weight
<b>M-1523-MT</b>	<b>25mm</b>	[1.47 lb] .67 kg
<b>M1523</b>	<b>1.00"(in)</b>	[1.43 lb] .65 kg

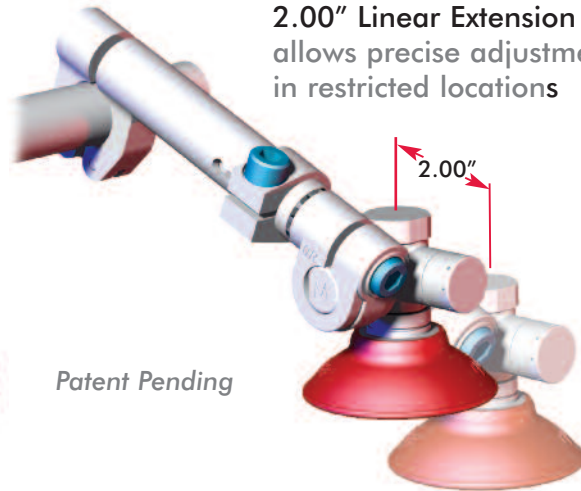
## Swivel Arms and Single End Extensions Features and Benefits

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

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



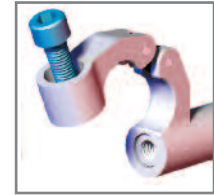
2.00" Linear Extension allows precise adjustment in restricted locations



Patent Pending

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

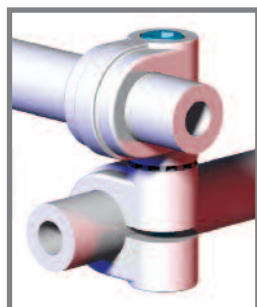
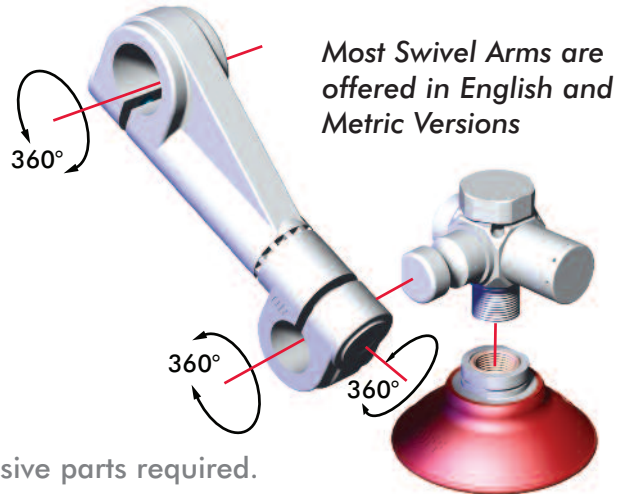
Double-Hinge Design provides even clamping force to better hold mounting position. End opens to allow mounting in the center of tube/bar without removing existing components. These features reduce downtime for setup and adjustment



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

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

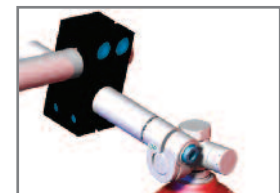
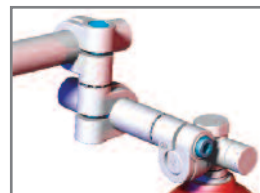
360° of adjustment in (3) different axes  
Easily locate cups on most panels. No special or expensive parts required.



**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

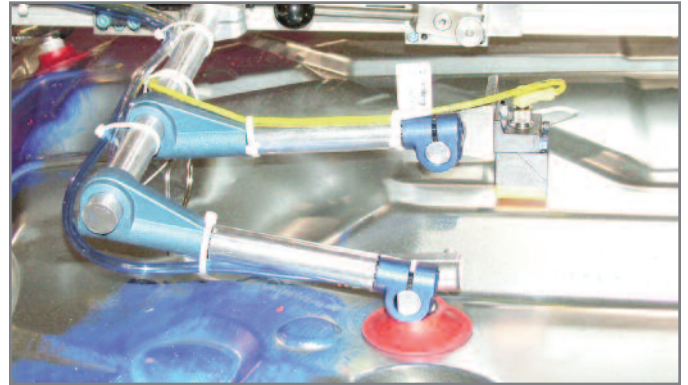
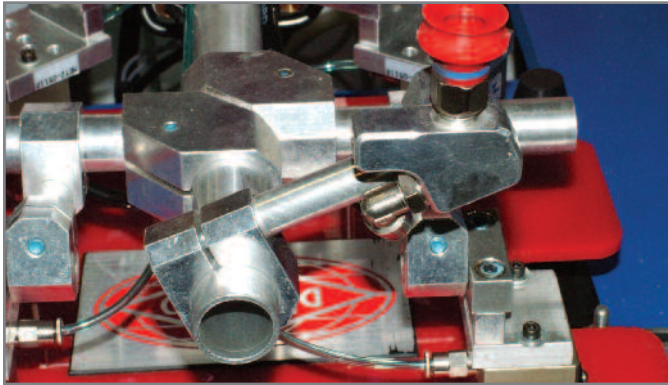
**Single End Extensions** can be used to add linear adjustment to the 360° (3) axes adjustment, when used in conjunction with Transition Swivel Arms or Transition Blocks.





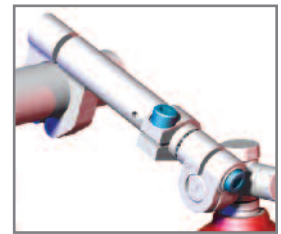
Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

Swivel Arms and Single End Extensions  
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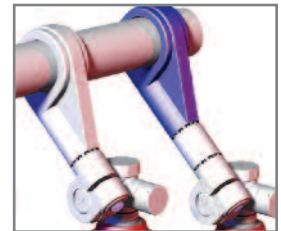
**“Extend Arm” Swivel Arms**

Ø25mm/1.00" for Ø19.1mm [.75"] Apple Core . . . . .	Page 52
Ø40mm/1.50" for Ø19.1mm [.75"] Apple Core . . . . .	Page 53
Ø25mm/1.00" for Ø28.6mm [1.125"] Spherical Swivel Ball . . . . .	Page 54
Ø40mm/1.50" for Ø28.6mm [1.125"] Spherical Swivel Ball . . . . .	Page 55



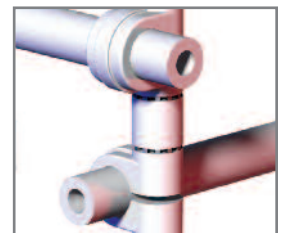
**Standard Swivel Arms**

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Ø25mm/1.00" for Ø12.5mm [.50"] Apple Core (Micro) . . . . .	Page 57
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**Transition Swivel Arms**

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**Single End Extensions**

Ø25mm/1.00" Rod End Extension . . . . .	Page 72
Ø40mm/1.50" Rod End Extension . . . . .	Page 72
Ø12.7mm/0.50" Mounting End Extension (Micro) . . . . .	Page 73
Ø25mm/1.00" Mounting End Extension . . . . .	Page 73
Ø40mm/1.50" Mounting End Extension . . . . .	Page 73



### “Extend-Arm” Swivel Arms

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

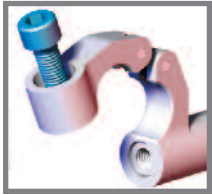
Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

**Features:**

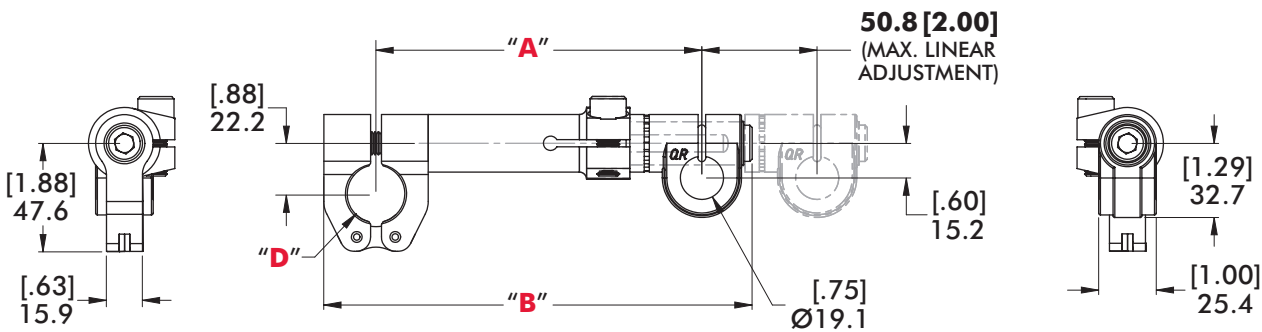
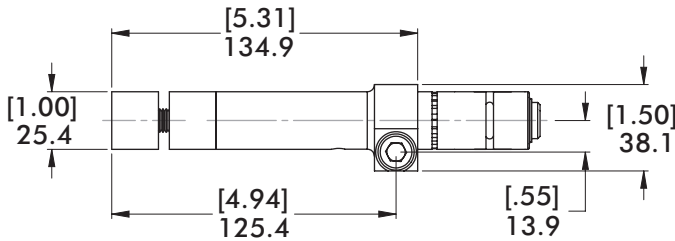
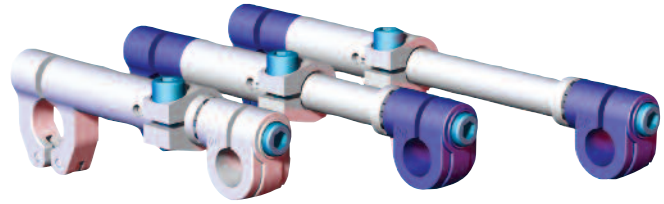
- Mounts apple core accessories to Ø25mm/1.00” round tube
- 50.8 [2.00] linear extension allows for precise adjustment
- Provides 360° of rotational adjustments along (3) axes
- Used to mount venturi, bumpers, round locators, and proximity switches

**Specifications:**

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



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]	[7.44]	[0.83 lb]	SILVER
CPI-140-25-TSA	25mm	143.7	188.9	0.38 kg	BLUE
CPI-75-1-TSA	1.00”(in)	[7.66]	[9.44]	[0.90 lb]	SILVER
CPI-190-25-TSA	25mm	194.5	239.7	0.41 kg	BLUE
CPI-95-1-TSA	1.00”(in)	[9.66]	[11.44]	[0.98 lb]	SILVER
CPI-240-25-TSA	25mm	245.3	290.5	0.44 kg	BLUE



Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

“Extend-Arm” Swivel Arms

**M-1509** Ø40mm/1.50” for Ø19mm [.75”] Apple Core

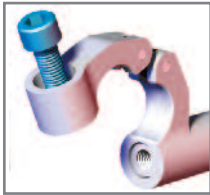


Features:

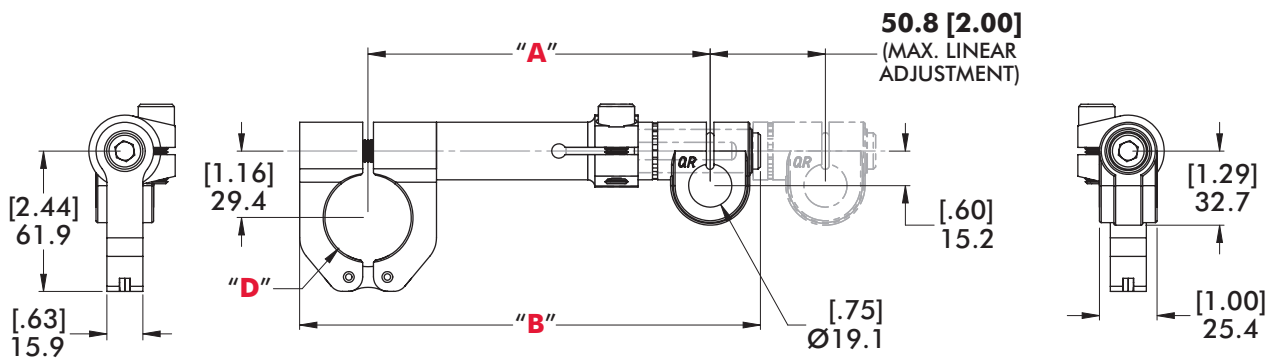
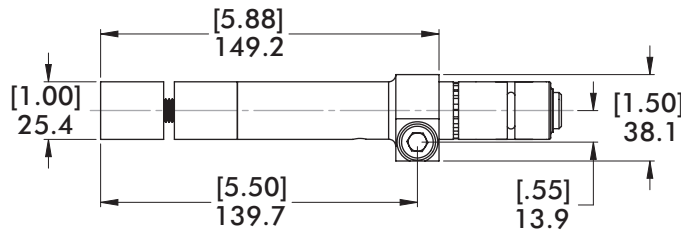
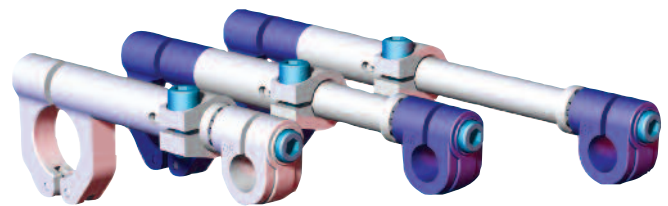
- Mounts apple core accessories to Ø40mm/1.50” round tube
- 50.8 [2.00] linear extension allows for precise adjustment
- Provides 360° of rotational adjustments along (3) axes
- Used to mount venturi, bumpers, round locators, and proximity switches

Specifications:

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



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]	[8.00]	[0.99 lb]	SILVER
CPI-140-40-TSA	40mm	150.9	203.2	0.45 kg	BLUE
CPI-75-150-TSA	1.50"(in)	[7.94]	[10.00]	[1.06 lb]	SILVER
CPI-190-40-TSA	40mm	201.7	254.0	0.48 kg	BLUE
CPI-95-150-TSA	1.50"(in)	[9.94]	[12.00]	[1.13 lb]	SILVER
CPI-240-40-TSA	40mm	252.5	304.8	0.51 kg	BLUE

### “Extend-Arm” Swivel Arms

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

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

**Features:**

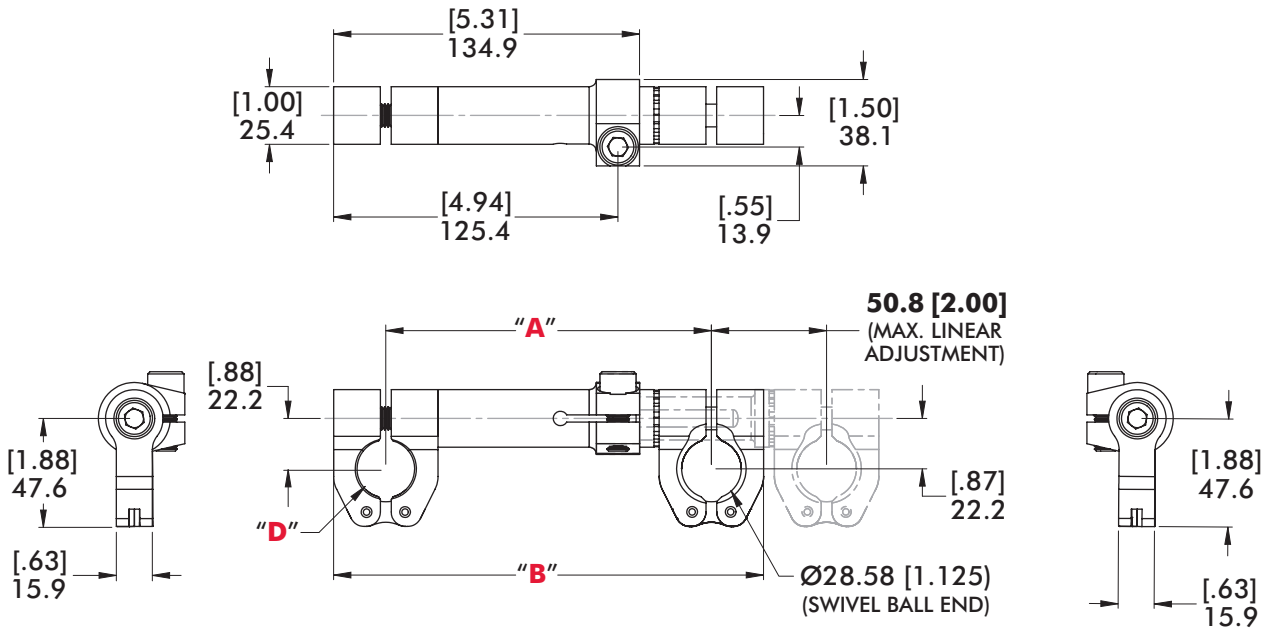
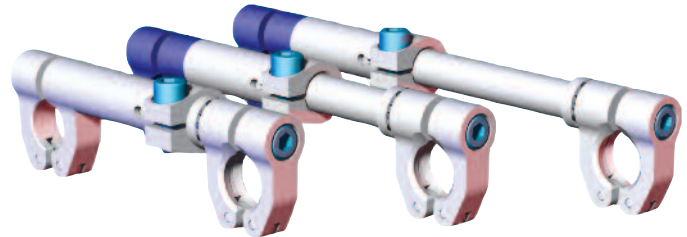
- Mounts swivel ball accessories to Ø25mm/1.00” round tube
- 50.8 [2.00] linear extension allows for precise adjustment
- Provides 360° of rotational adjustments along (3) axes
- Used to mount venturi, bumpers, round locators, and proximity switches

**Specifications:**

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



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



Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

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

"Extend-Arm" Swivel Arms

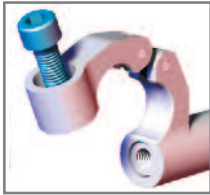


Features:

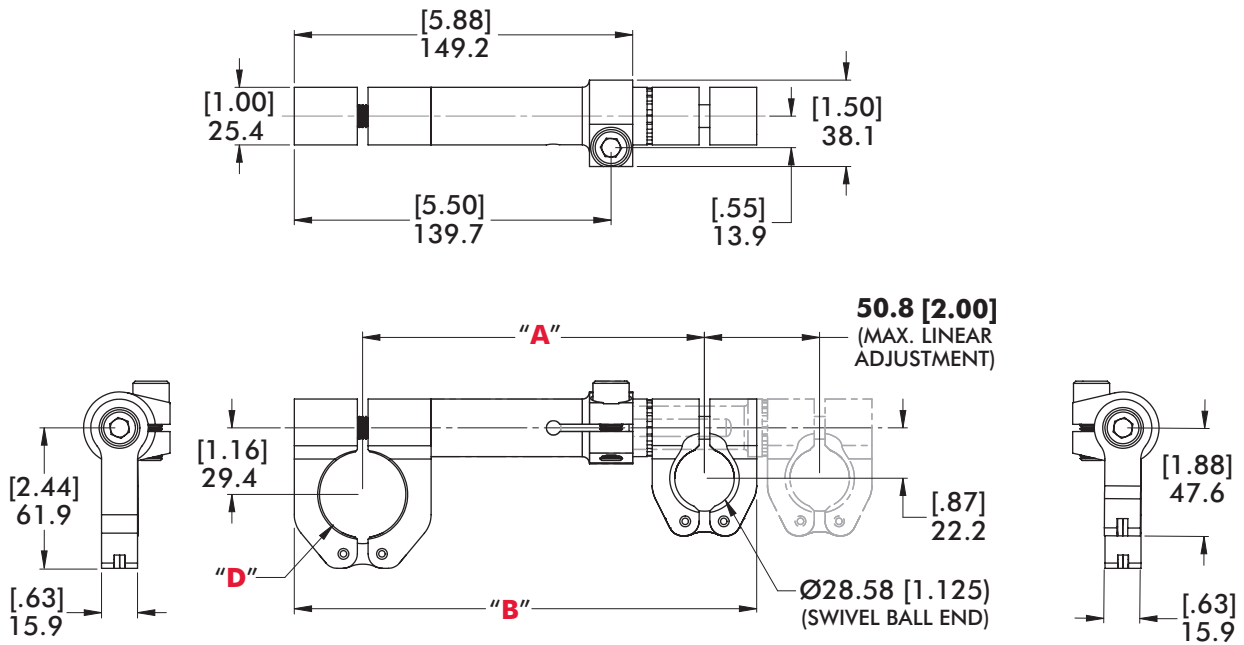
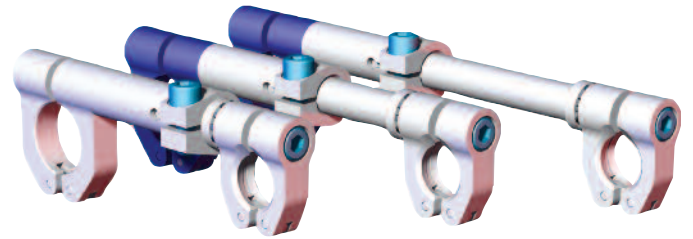
- Mounts swivel ball accessories to Ø40mm/1.50" round tube
- 50.8 [2.00] linear extension allows for precise adjustment
- Provides 360° of rotational adjustments along (3) axes
- Used to mount venturi, bumpers, round locators, and proximity switches

Specifications:

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



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]	[8.03]	[1.03 lb]	SILVER
CPI-140-40-TSA-B112	40mm	150.7	203.9	0.47 kg	BLUE
CPI-75-150-TSA-B112	1.50"(in)	[7.93]	[10.03]	[1.10 lb]	SILVER
CPI-190-40-TSA-B112	40mm	201.5	254.7	0.50 kg	BLUE
CPI-95-150-TSA-B112	1.50"(in)	[9.93]	[12.03]	[1.17 lb]	SILVER
CPI-240-40-TSA-B112	40mm	252.3	305.5	0.53 kg	BLUE

### Standard Swivel Arms

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

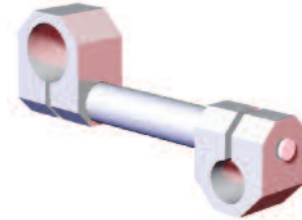
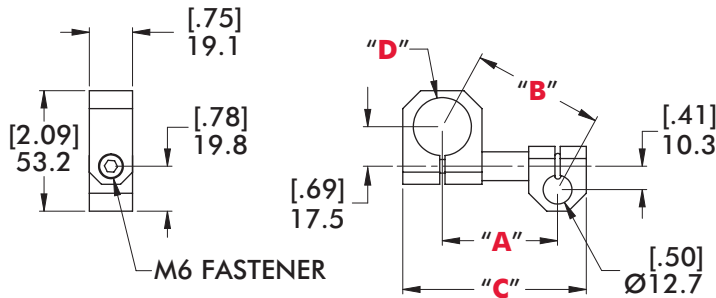
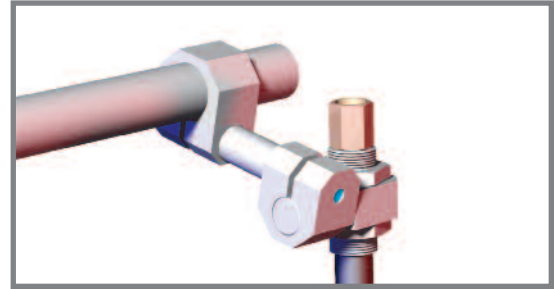
Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

**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



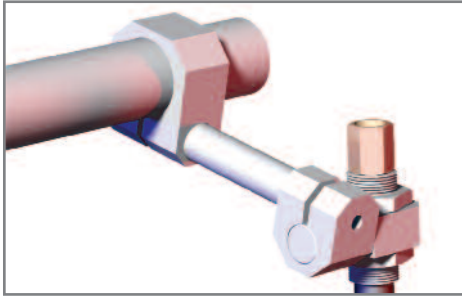
Model Number	(Ø)"D"	"A"	"B"	"C"	Weight
CPI-200-7550-MSA	.75"(in)	[2.00]	[2.28]	[3.19]	[0.16 lb]
CPI-200-20M50-MSA	20mm	50.8	57.9	81.0	0.07kg
CPI-300-7550-MSA	.75"(in)	[3.00]	[3.19]	[4.19]	[0.19 lb]
CPI-300-20M50-MSA	20mm	76.2	81.1	106.4	0.08kg
CPI-400-7550-MSA	.75"(in)	[4.00]	[4.15]	[5.19]	[0.21 lb]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



Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

Standard Swivel Arms

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

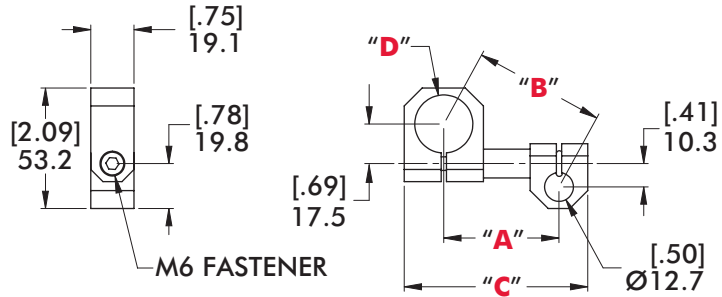
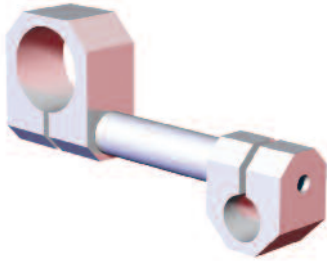


Features:

- 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



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

### Standard Swivel Arms

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

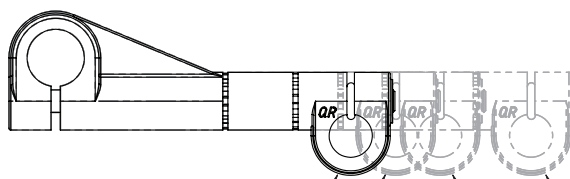
Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

**Features:**

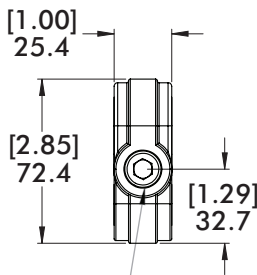
- Mounts apple core accessories to Ø25mm/1.00" round tube
- Provides 360° of rotational adjustments along (3) axes
- Used to mount venturi, bumpers, round locators, and proximity switches

**Specifications:**

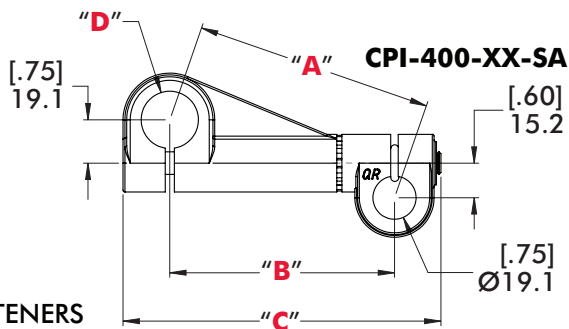
Maximum Clamp Load:  
200 ft-lb [271 Nm]  
Material:  
Body:  
Cast Aluminum  
Spacer:  
Machined Aluminum



CPI-500-XX-SA      CPI-800-XX-SA  
CPI-600-XX-SA      CPI-700-XX-SA



M10 FASTENERS



CPI-400-XX-SA



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

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

Standard Swivel Arms

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

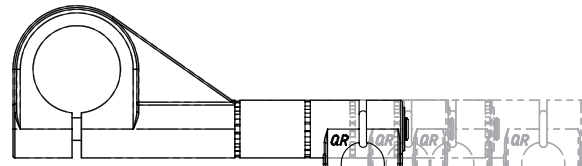
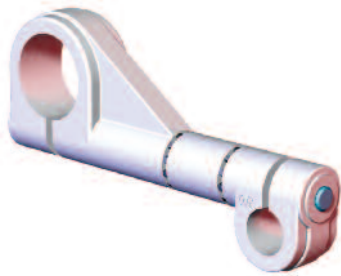


Features:

- 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

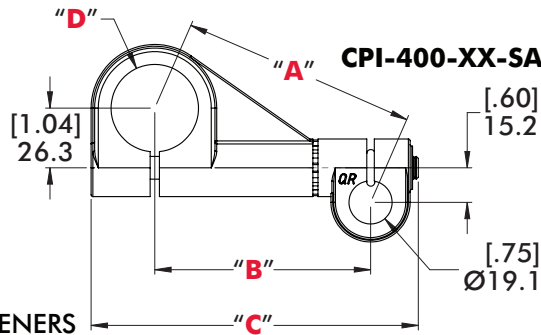
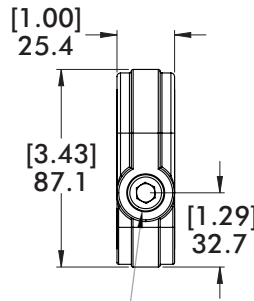


CPI-500-XX-SA

CPI-800-XX-SA

CPI-600-XX-SA

CPI-700-XX-SA



CPI-400-XX-SA



Model Number	(Ø) "D"	"A"	"B"	"C"	Weight	FINISH
CPI-400-15-SA	1.50"(in)	[4.09]	[3.75]	[5.68]	[0.78 lb]	SILVER
CPI-100-40-SA	40mm	103.8	95.2	144.3	0.35 kg	BLUE
CPI-500-15-SA	1.50"(in)	[5.23]	[4.97]	[6.86]	[0.89 lb]	SILVER
CPI-140-40-SA	40mm	132.8	126.1	174.3	0.41 kg	BLUE
CPI-600-15-SA	1.50"(in)	[5.97]	[5.75]	[7.65]	[0.97 lb]	SILVER
CPI-160-40-SA	40mm	151.8	146.0	194.3	0.44 kg	BLUE
CPI-700-15-SA	1.50"(in)	[6.72]	[6.52]	[8.44]	[1.05 lb]	SILVER
CPI-180-40-SA-SA	40mm	170.7	165.5	214.3	0.54 kg	BLUE
CPI-800-15-SA	1.50"(in)	[8.26]	[8.10]	[10.01]	[1.20 lb]	SILVER
CPI-200-40-SA	40mm	209.8	205.6	254	0.55 kg	BLUE

### Standard Swivel Arms

#### SA-B112 for Ø28.6mm [1.125"] Spherical Swivel Ball

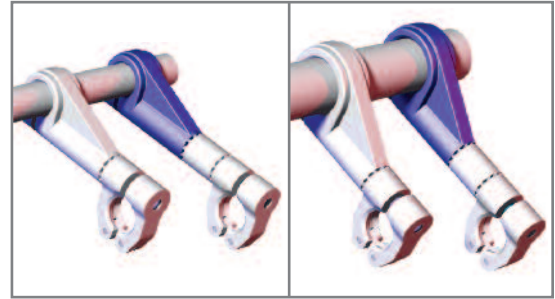
Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

**Features:**

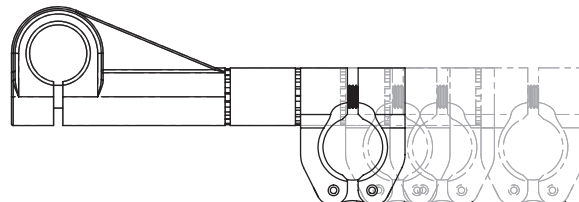
- Mounts swivel ball accessories to round tube
- Provides 360° of rotational adjustments along (3) axes
- Used to mount venturi, bumpers, round locators, and proximity switches

**Specifications:**

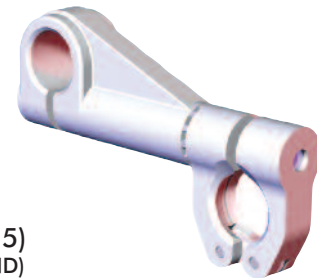
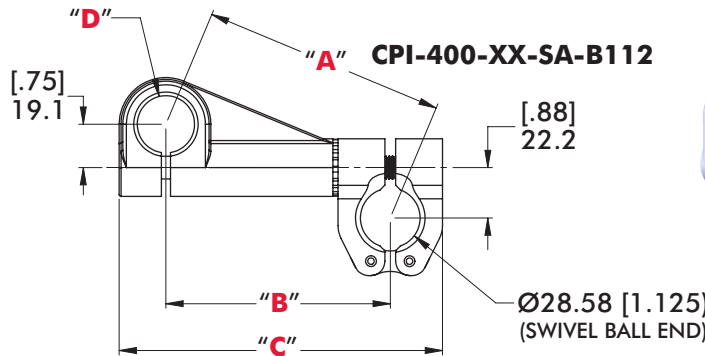
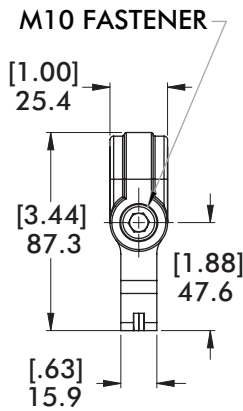
Maximum Clamp Load:  
200 ft-lb [271 Nm]  
Material:  
Body:  
Cast Aluminum  
Spacer:  
Machined Aluminum



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



CPI-500-XX-SA-B112      CPI-600-XX-SA-B112      CPI-700-XX-SA-B112      CPI-800-XX-SA-B112

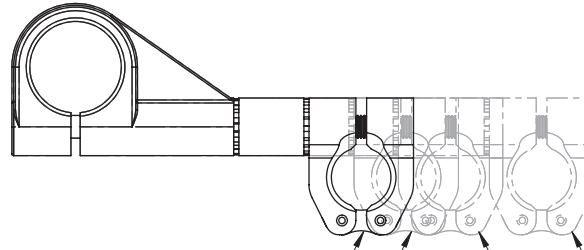


Model Number	(Ø) "D"	"A"	"B"	"C"	Weight	FINISH
CPI-400-1-SA-B112	1.00"(in)	[4.22]	[3.90]	[5.61]	[0.74 lb]	SILVER
CPI-100-25-SA-B112	25mm	107.2	98.9	142.6	0.34 kg	BLUE
CPI-500-1-SA-B112	1.00"(in)	[5.37]	[5.12]	[6.83]	[0.86 lb]	SILVER
CPI-140-25-SA-B112	25mm	136.3	129.9	173.5	0.39 kg	BLUE
CPI-600-1-SA-B112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

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

Standard Swivel Arms

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

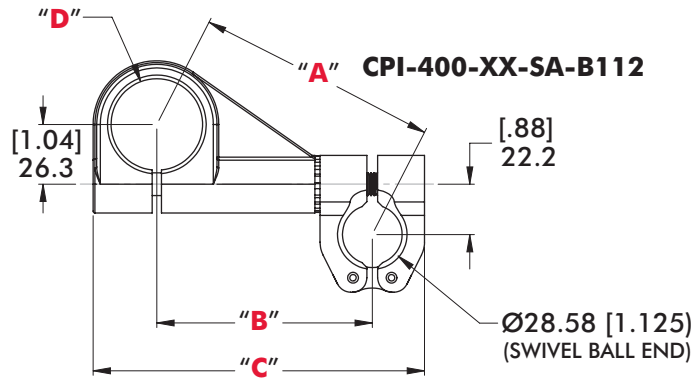
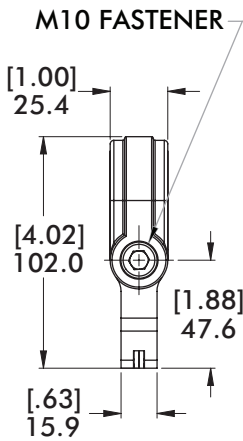


CPI-500-XX-SA-B112

CPI-800-XX-SA-B112

CPI-600-XX-SA-B112

CPI-700-XX-SA-B112



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

### Transition Swivel Arms

**SA/ED** Single-Bolt and Double Bolt for Ø25mm/1.00"

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

**Features:**

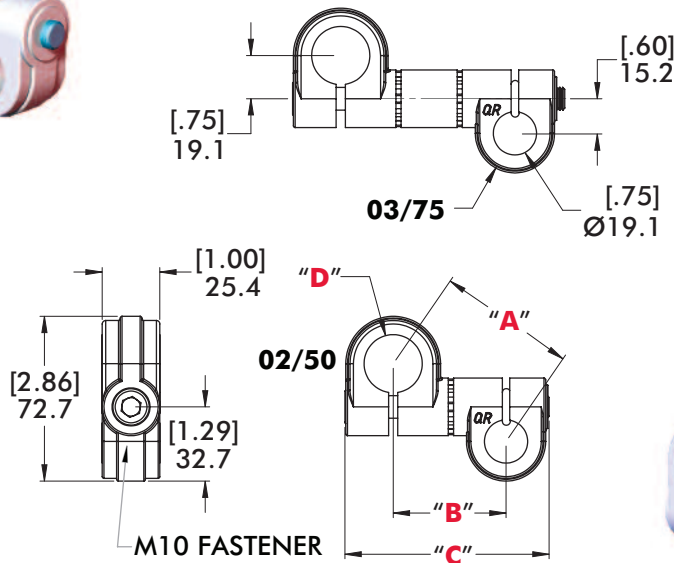
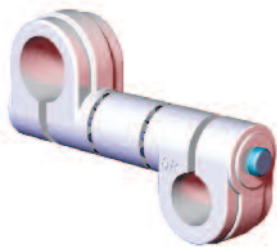
- Mounts apple core accessories to Ø25mm/1.00" round tube
- Provides 360° of rotational adjustments along (3) axes
- Used to mount venturi, bumpers, round locators, and proximity switches

**Specifications:**

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



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

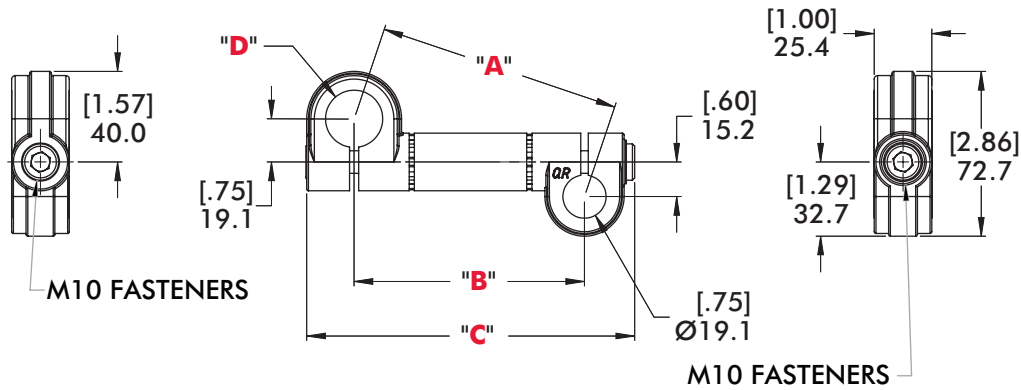


Model Number	(Ø)"D"	"A"	"B"	"C"	Weight	FINISH
CPI-SA10-100-075-02	1.00"(in)	[2.38]	[1.96]	[3.54]	[0.46 lb]	SILVER
CPI-SA25-25-19-50	25mm	60.4	49.8	90.0	0.21 kg	BLUE
CPI-SA10-100-075-03	1.00"(in)	[3.31]	[3.02]	[4.72]	[0.57 lb]	SILVER
CPI-SA25-25-19-75	25mm	84.1	76.8	120.0	0.26 kg	BLUE

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

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

Transition Swivel Arms

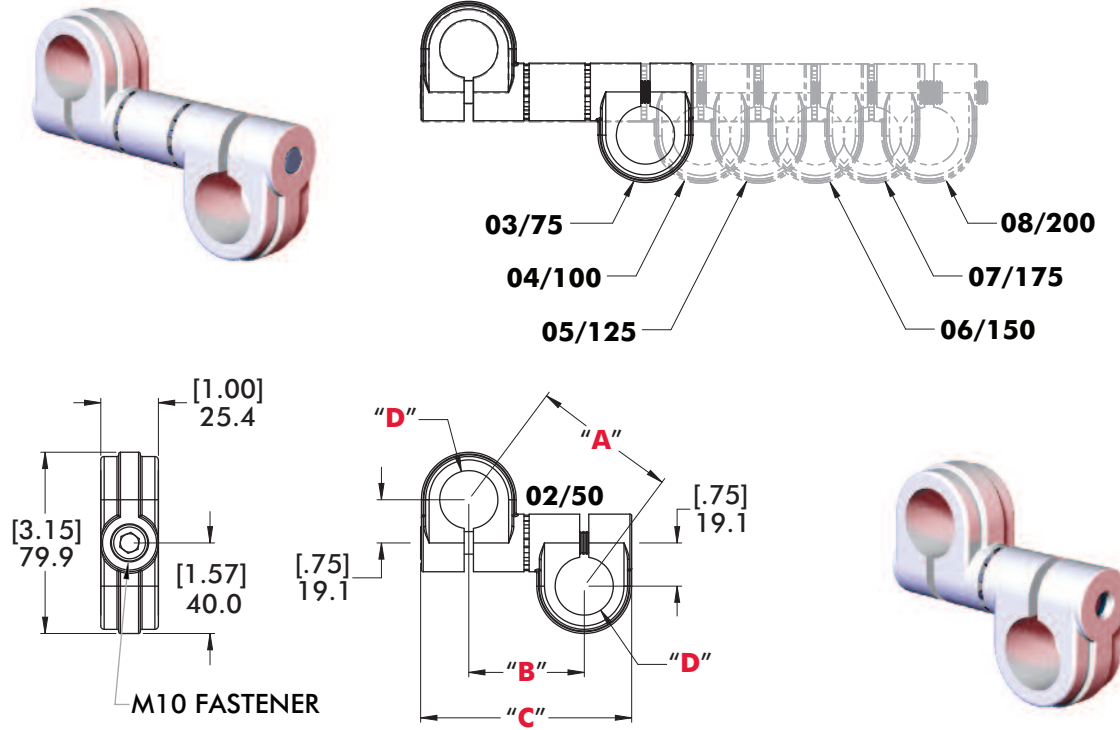


Model Number	(Ø)"D"	"A"	"B"	"C"	Weight	FINISH
CPI-ED10-100-075-04	1.00"(in)	[4.27] 108.4	[4.05] 102.9	[5.74] 145.9	[0.65 lb] 0.29 kg	SILVER
CPI-ED25-25-19-100	25mm	[4.22] 107.2	[4.00] 101.6	[5.69] 144.6		BLUE
CPI-ED10-100-075-05	1.00"(in)	[5.23] 132.8	[5.05] 128.3	[6.74] 171.3	[0.71 lb] 0.32 kg	SILVER
CPI-ED10-100-075-06	1.00"(in)	[6.20] 157.4	[6.05] 153.7	[7.74] 196.7	[0.78 lb] 0.36 kg	SILVER
CPI-ED25-25-19-150	25mm	[6.13] 155.7	[5.98] 151.9	[7.67] 194.2		BLUE
CPI-ED10-100-075-07	1.00"(in)	[7.18] 182.3	[7.05] 179.1	[8.74] 222.1	[0.85 lb] 0.39 kg	SILVER
CPI-ED10-100-075-08	1.00"(in)	[8.16] 207.3	[8.05] 204.5	[9.74] 247.5	[0.92 lb] 0.42 kg	SILVER
CPI-ED25-25-19-200	25mm	[8.06] 204.8	[7.95] 201.9	[9.64] 244.9		BLUE
CPI-ED10-100-075-09	1.00"(in)	[9.15] 232.4	[9.05] 229.9	[10.74] 272.9	[0.99 lb] 0.45 kg	SILVER
CPI-ED10-100-075-10	1.00"(in)	[10.14] 257.6	[10.05] 255.3	[11.74] 298.3	[1.06 lb] 0.48 kg	SILVER
CPI-ED25-25-19-250	25mm	[10.01] 254.3	[9.92] 252.0	[11.61] 295.0		BLUE
CPI-ED10-100-075-11	1.00"(in)	[11.13] 282.7	[11.05] 280.7	[12.74] 323.7	[1.13 lb] 0.51 kg	SILVER
CPI-ED10-100-075-12	1.00"(in)	[12.13] 308.0	[12.05] 306.1	[13.74] 349.0	[1.20 lb] 0.54 kg	SILVER
CPI-ED25-25-19-300	25mm	[11.97] 303.9	[11.89] 302.0	[13.58] 345.0		BLUE
CPI-ED10-100-075-13	1.00"(in)	[13.12] 338.2	[13.05] 331.5	[14.74] 374.5	[1.27 lb] 0.58 kg	SILVER
CPI-ED10-100-075-14	1.00"(in)	[14.11] 358.5	[14.05] 356.9	[15.74] 399.9	[1.34 lb] 0.61 kg	SILVER
CPI-ED25-25-19-350	25mm	[13.92] 353.4	[13.85] 351.8	[15.54] 394.8		BLUE
CPI-ED10-100-075-15	1.00"(in)	[15.11] 383.8	[15.05] 382.3	[16.74] 425.3	[1.41 lb] 0.64 kg	SILVER
CPI-ED10-100-075-16	1.00"(in)	[16.11] 409.1	[16.05] 407.7	[17.74] 450.7	[1.48 lb] 0.67 kg	SILVER
CPI-ED25-25-19-400	25mm	[15.88] 403.3	[15.82] 401.8	[17.51] 444.9		BLUE

Transition Swivel Arms

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

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

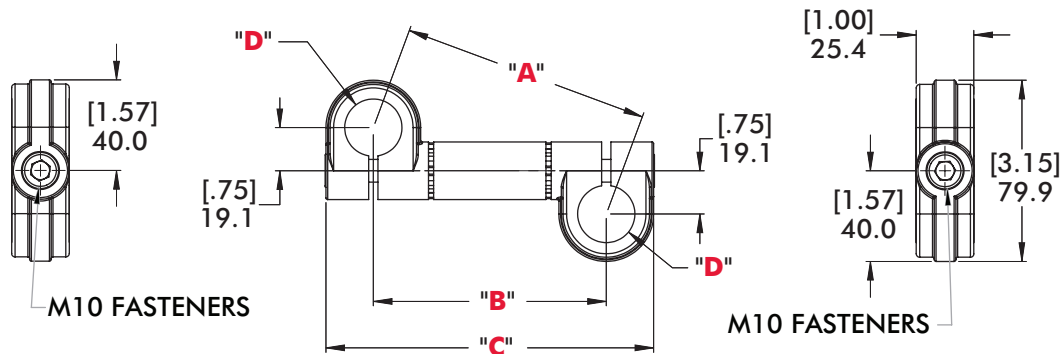


Model Number	(Ø)"D"	"A"	"B"	"C"	Weight	FINISH
CPI-SA10-100-100-02	1.00"(in)	[2.50]	[2.00]	[3.66]	[0.49 lb]	SILVER
CPI-SA25-25-25-50	25mm	63.6	50.9	93.1	0.22 kg	BLUE
CPI-SA10-100-100-03	1.00"(in)	[3.42]	[3.07]	[4.73]	[0.60 lb]	SILVER
CPI-SA25-25-25-75	25mm	86.7	77.9	120.1	0.27 kg	BLUE
CPI-SA10-100-100-04	1.00"(in)	[4.31]	[4.04]	[5.70]	[0.69 lb]	SILVER
CPI-SA25-25-25-100	25mm	109.6	102.7	144.9	0.31 kg	BLUE
CPI-SA10-100-100-05	1.00"(in)	[5.25]	[5.03]	[6.69]	[0.79 lb]	SILVER
CPI-SA25-25-25-125	25mm	133.4	127.9	170.0	0.36 kg	BLUE
CPI-SA10-100-100-06	1.00"(in)	[6.21]	[6.02]	[7.68]	[0.88 lb]	SILVER
CPI-SA25-25-25-150	25mm	157.7	153.0	195.2	0.40 kg	BLUE
CPI-SA10-100-100-07	1.00"(in)	[7.16]	[7.00]	[9.06]	[1.00 lb]	SILVER
CPI-SA25-25-25-175	25mm	181.9	177.9	230.0	0.45 kg	BLUE
CPI-SA10-100-100-08	1.00"(in)	[8.13]	[7.99]	[9.84]	[1.09 lb]	SILVER
CPI-SA25-25-25-200	25mm	206.6	203.0	250.0	0.50 kg	BLUE



Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

Transition Swivel Arms  
EDxx Double-Bolt Ø25mm/1.00" to Ø25mm/1.00"



Model Number	(Ø)"D"	"A"	"B"	"C"	Weight	FINISH
CPI-ED10-100-100-04	1.00"(in)	[4.36] 110.7	[4.09] 104.0	[5.74] 145.8	[0.67 lb] 0.30 kg	SILVER
CPI-ED25-25-25-100	25mm	[4.31] 109.6	[4.04] 102.7	[5.69] 144.5		BLUE
CPI-ED10-100-100-05	1.00"(in)	[5.31] 134.9	[5.09] 129.4	[6.74] 171.2	[0.74 lb] 0.34 kg	SILVER
CPI-ED10-100-100-06	1.00"(in)	[6.28] 159.4	[6.09] 154.8	[7.74] 196.6	[0.81 lb] 0.37 kg	SILVER
CPI-ED25-25-25-150	25mm	[6.21] 157.7	[6.02] 153.0	[7.67] 194.8		BLUE
CPI-ED10-100-100-07	1.00"(in)	[7.25] 184.2	[7.09] 180.2	[8.74] 222.0	[0.88 lb] 0.40 kg	SILVER
CPI-ED10-100-100-08	1.00"(in)	[8.23] 209.1	[8.09] 205.6	[9.74] 247.4	[0.95 lb] 0.43 kg	SILVER
CPI-ED25-25-25-200	25mm	[8.13] 206.6	[7.99] 203.0	[9.64] 244.9		BLUE
CPI-ED10-100-100-09	1.00"(in)	[9.22] 234.1	[9.09] 231.0	[10.74] 272.8	[1.02 lb] 0.46 kg	SILVER
CPI-ED10-100-100-10	1.00"(in)	[10.20] 259.2	[10.09] 256.4	[11.74] 298.2	[1.09 lb] 0.49 kg	SILVER
CPI-ED25-25-25-250	25mm	[10.08] 255.9	[9.96] 253.1	[11.61] 294.9		BLUE
CPI-ED10-100-100-11	1.00"(in)	[11.19] 284.4	[11.09] 281.8	[12.74] 323.6	[1.15 lb] 0.52 kg	SILVER
CPI-ED10-100-100-12	1.00"(in)	[12.19] 309.5	[12.09] 307.2	[13.74] 349.0	[1.22 lb] 0.56 kg	SILVER
CPI-ED25-25-25-300	25mm	[12.03] 305.5	[11.93] 303.1	[13.58] 344.9		BLUE
CPI-ED10-100-100-13	1.00"(in)	[13.18] 334.8	[13.09] 332.6	[14.74] 374.4	[1.29 lb] 0.59 kg	SILVER
CPI-ED10-100-100-14	1.00"(in)	[14.17] 360.0	[14.09] 358.0	[15.74] 399.8	[1.36 lb] 0.62 kg	SILVER
CPI-ED25-25-25-350	25mm	[13.97] 355.0	[13.89] 352.9	[15.54] 394.7		BLUE
CPI-ED10-100-100-15	1.00"(in)	[15.17] 385.3	[15.09] 383.4	[16.74] 425.2	[1.43 lb] 0.65 kg	SILVER
CPI-ED10-100-100-16	1.00"(in)	[16.16] 410.6	[16.09] 408.8	[17.74] 450.6	[1.50 lb] 0.68 kg	SILVER
CPI-ED25-25-25-400	25mm	[15.93] 404.7	[15.86] 402.9	[17.51] 444.8		BLUE

### Transition Swivel Arms

**SA/ED** Single-Bolt and Double Bolt for Ø40mm/1.50"

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

**Features:**

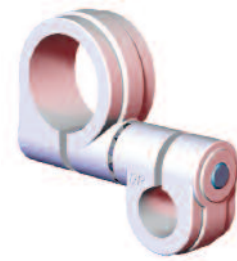
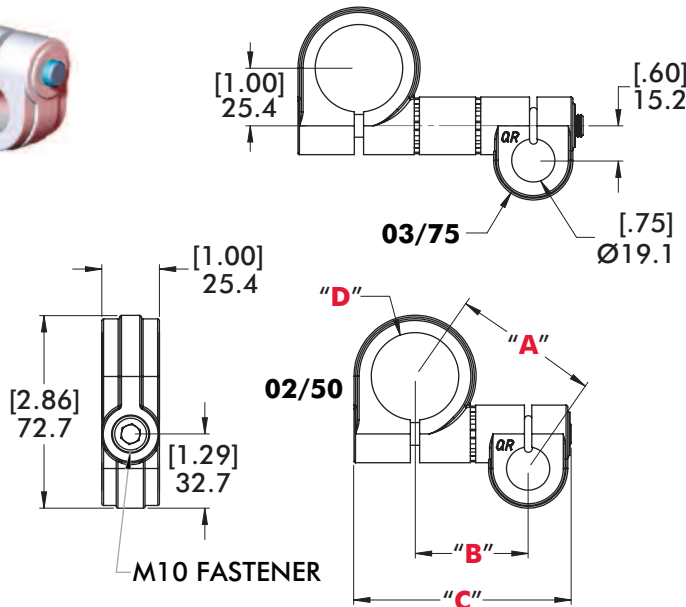
- Mounts apple core accessories to Ø40mm/1.50" round tube
- Provides 360° of rotational adjustments along (3) axes
- Used to mount venturi, bumpers, round locators, and proximity switches

**Specifications:**

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



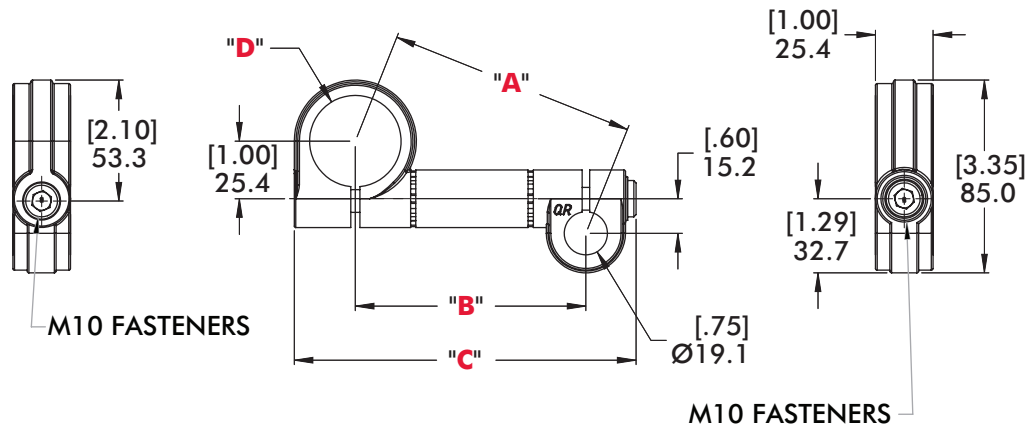
**S**Axx Single-Bolt Ø40mm/1.50" for Ø19.1mm [.75"] Apple Core



Model Number	(Ø) "D"	"A"	"B"	"C"	Weight	FINISH
CPI-SA10-150-075-02	1.50"(in)	[2.53]	[1.96]	[3.77]	[0.50 lb]	SILVER
CPI-SA25-40-19-50	40mm	64.3	49.8	95.9	0.23 kg	BLUE
CPI-SA10-150-075-03	1.50"(in)	[3.42]	[3.03]	[4.95]	[0.62 lb]	SILVER
CPI-SA25-40-19-75	40mm	87.0	76.9	125.9	0.28 kg	BLUE

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

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

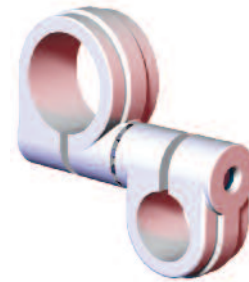
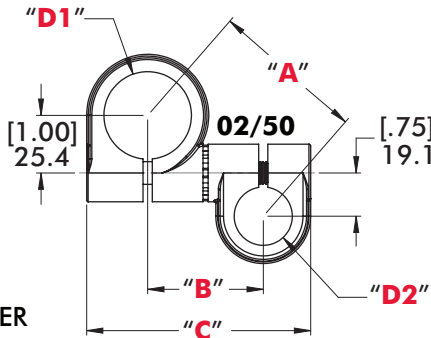
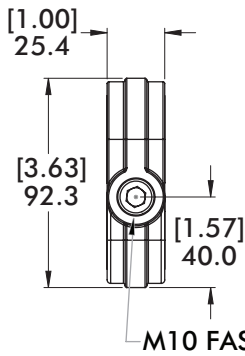
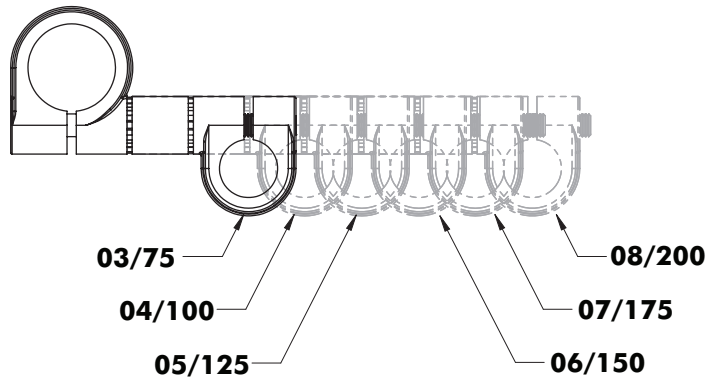
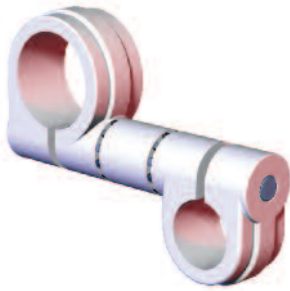


Model Number	(Ø)"D"	"A"	"B"	"C"	Weight	FINISH
CPI-ED10-150-075-04	1.50"(in)	[4.36] 110.7	[4.05] 102.9	[5.98] 152.0	[0.69 lb] 0.31 kg	SILVER
CPI-ED25-40-19-100	40mm	[4.31] 109.5	[4.00] 101.7	[5.93] 150.7		BLUE
CPI-ED10-150-075-05	1.50"(in)	[5.30] 134.6	[5.05] 128.3	[6.98] 177.4	[0.76 lb] 0.34 kg	SILVER
CPI-ED10-150-075-06	1.50"(in)	[6.26] 159.0	[6.05] 153.7	[7.98] 202.8	[0.83 lb] 0.38 kg	SILVER
CPI-ED25-40-19-150	40mm	[6.19] 157.3	[5.98] 152.0	[7.91] 201.0		BLUE
CPI-ED10-150-075-07	1.50"(in)	[7.23] 183.7	[7.05] 179.1	[8.98] 228.2	[0.90 lb] 0.41 kg	SILVER
CPI-ED10-150-075-08	1.50"(in)	[8.21] 208.5	[8.05] 204.5	[9.98] 253.6	[0.97 lb] 0.44 kg	SILVER
CPI-ED25-40-19-200	40mm	[8.11] 206.0	[7.95] 202.0	[9.88] 251.0		BLUE
CPI-ED10-150-075-09	1.50"(in)	[9.19] 233.5	[9.05] 229.9	[10.98] 279.0	[1.03 lb] 0.47 kg	SILVER
CPI-ED10-150-075-10	1.50"(in)	[10.18] 258.5	[10.05] 255.3	[11.98] 304.4	[1.10 lb] 0.50 kg	SILVER
CPI-ED25-40-19-250	40mm	[10.05] 255.3	[9.92] 252.0	[11.85] 308.1		BLUE
CPI-ED10-150-075-11	1.50"(in)	[11.17] 283.7	[11.05] 280.7	[12.98] 329.8	[1.17 lb] 0.53 kg	SILVER
CPI-ED10-150-075-12	1.50"(in)	[12.16] 308.8	[12.05] 306.1	[13.98] 355.2	[1.24 lb] 0.56 kg	SILVER
CPI-ED25-40-19-300	40mm	[12.00] 304.8	[11.89] 302.1	[13.82] 351.1		BLUE
CPI-ED10-150-075-13	1.50"(in)	[13.15] 334.0	[13.05] 331.5	[14.98] 380.6	[1.31 lb] 0.59 kg	SILVER
CPI-ED10-150-075-14	1.50"(in)	[14.14] 359.2	[14.05] 356.9	[15.98] 406.0	[1.38 lb] 0.63 kg	SILVER
CPI-ED25-40-19-350	40mm	[13.94] 354.2	[13.85] 351.9	[15.78] 400.9		BLUE
CPI-ED10-150-075-15	1.50"(in)	[15.14] 384.5	[15.05] 382.3	[16.98] 431.4	[1.45 lb] 0.66 kg	SILVER
CPI-ED10-150-075-16	1.50"(in)	[16.13] 409.8	[16.05] 407.7	[17.98] 456.8	[1.52 lb] 0.69 kg	SILVER
CPI-ED25-40-19-400	40mm	[15.90] 403.9	[15.82] 401.9	[18.00] 450.9		BLUE

Transition Swivel Arms

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

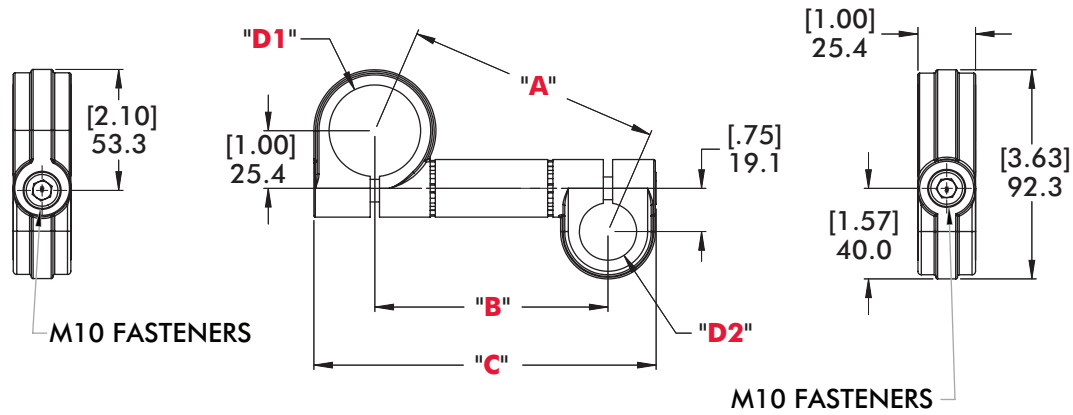
Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size



Model Number	(Ø)"D1"	(Ø)"D2"	"A"	"B"	"C"	Weight	FINISH
CPI-SA10-150-100-02	1.50"(in)	1.00"(in)	[2.66]	[2.01]	[3.89]	[0.53 lb]	SILVER
CPI-SA25-40-25-50	40mm	25mm	67.6	51.0	98.8	0.24 kg	BLUE
CPI-SA10-150-100-03	1.50"(in)	1.00"(in)	[3.53]	[3.07]	[4.95]	[0.64 lb]	SILVER
CPI-SA25-40-25-75	40mm	25mm	89.8	78.0	125.7	0.29 kg	BLUE
CPI-SA10-150-100-04	1.50"(in)	1.00"(in)	[4.41]	[4.05]	[5.93]	[0.73 lb]	SILVER
CPI-SA25-40-25-100	40mm	25mm	112.0	102.8	150.6	0.33 kg	BLUE
CPI-SA10-150-100-05	1.50"(in)	1.00"(in)	[5.33]	[5.04]	[6.92]	[0.83 lb]	SILVER
CPI-SA25-40-25-125	40mm	25mm	135.4	127.9	175.8	0.38 kg	BLUE
CPI-SA10-150-100-06	1.50"(in)	1.00"(in)	[6.28]	[6.03]	[7.91]	[0.93 lb]	SILVER
CPI-SA25-40-25-150	40mm	25mm	159.4	153.1	200.9	0.42 kg	BLUE
CPI-SA10-150-100-07	1.50"(in)	1.00"(in)	[7.22]	[7.01]	[8.89]	[1.04 lb]	SILVER
CPI-SA25-40-25-175	40mm	25mm	183.4	178.0	225.8	0.47 kg	BLUE
CPI-SA10-150-100-08	1.50"(in)	1.00"(in)	[8.19]	[8.00]	[9.88]	[1.13 lb]	SILVER
CPI-SA25-40-25-200	40mm	25mm	207.9	203.1	251.0	0.51 kg	BLUE

Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

Transition Swivel Arms  
EDxx Double-Bolt Ø40mm/1.50" to Ø25mm/1.00"

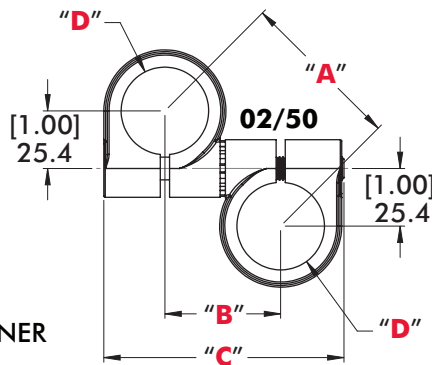
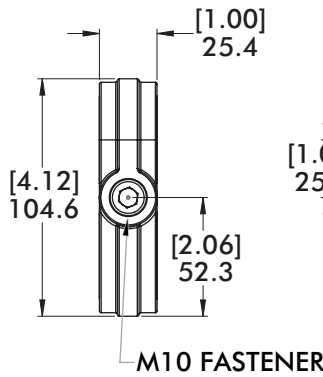
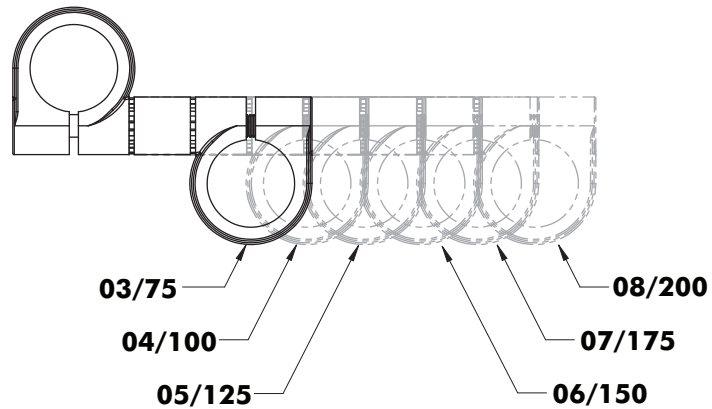
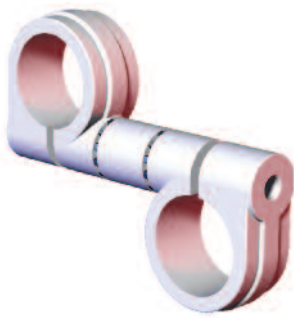


Model Number	(Ø)"D1"	(Ø)"D2"	"A"	"B"	"C"	Weight	FINISH
CPI-ED10-150-100-04	1.50"(in)	1.00"(in)	[4.46] 113.2	[4.10] 104.1	[5.98] 151.9	[0.71 lb] 0.32 kg	SILVER
CPI-ED25-40-25-100	40mm	25mm	[4.41] 112.8	[4.05] 102.8	[5.93] 150.6		BLUE
CPI-ED10-150-100-05	1.50"(in)	1.00"(in)	[5.39] 136.9	[5.10] 129.5	[6.98] 177.3	[0.78 lb] 0.36 kg	SILVER
CPI-ED10-150-100-06	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-ED25-40-25-150	40mm	25mm	[6.28] 159.4	[6.03] 153.1	[7.91] 200.9		BLUE
CPI-ED10-150-100-07	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-ED10-150-100-08	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-ED25-40-25-200	40mm	25mm	[8.19] 207.9	[8.00] 203.1	[9.88] 251.0		BLUE
CPI-ED10-150-100-09	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-ED10-150-100-10	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-ED25-40-25-250	40mm	25mm	[10.12] 257.03	[9.97] 253.2	[11.85] 301.0		BLUE
CPI-ED10-150-100-11	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-ED10-150-100-12	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-ED25-40-25-300	40mm	25mm	[12.06] 306.4	[11.94] 303.2	[13.82] 351.03		BLUE
CPI-ED10-150-100-13	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-ED10-150-100-14	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-ED25-40-25-350	40mm	25mm	[14.00] 355.8	[13.90] 353.0	[15.78] 400.8		BLUE
CPI-ED10-150-100-15	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-ED10-150-100-16	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-ED25-40-25-400	40mm	25mm	[15.96] 405.5	[15.87] 403.0	[17.75] 450.9		BLUE

Transition Swivel Arms

**SAxx** Single-Bolt  $\varnothing$ 40mm/1.50" to  $\varnothing$ 40mm/1.50"

Nominal ( $\varnothing$ ) given  
See chart on Page 13  
for actual ( $\varnothing$ ) size

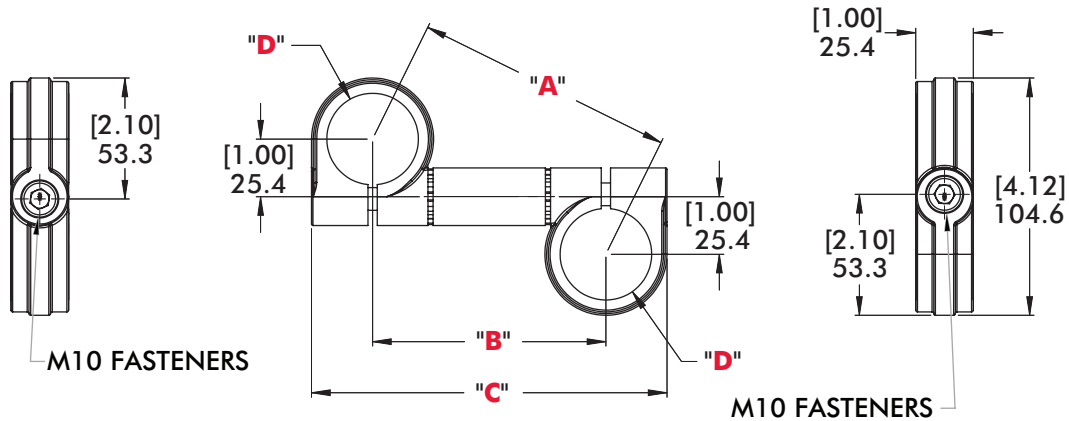


Model Number	( $\varnothing$ ) "D"	"A"	"B"	"C"	Weight	FINISH
CPI-SA10-150-150-02	1.50"(in)	[2.84]	[2.01]	[4.17]	[0.59 lb]	SILVER
CPI-SA25-40-40-50	40mm	72.0	51.1	105.9	0.27 kg	BLUE
CPI-SA10-150-150-03	1.50"(in)	[3.67]	[3.07]	[5.19]	[0.69 lb]	SILVER
CPI-SA25-40-40-75	40mm	93.2	78.1	131.9	0.31 kg	BLUE
CPI-SA10-150-150-04	1.50"(in)	[4.52]	[4.05]	[6.17]	[0.79 lb]	SILVER
CPI-SA25-40-40-100	40mm	114.7	102.9	156.7	0.36 kg	BLUE
CPI-SA10-150-150-05	1.50"(in)	[5.42]	[5.04]	[7.16]	[0.88 lb]	SILVER
CPI-SA25-40-40-125	40mm	137.7	128.0	181.9	0.40 kg	BLUE
CPI-SA10-150-150-06	1.50"(in)	[6.35]	[6.03]	[8.15]	[0.97 lb]	SILVER
CPI-SA25-40-40-150	40mm	161.4	153.2	207.0	0.44 kg	BLUE
CPI-SA10-150-150-07	1.50"(in)	[7.29]	[7.01]	[9.13]	[1.09 lb]	SILVER
CPI-SA25-40-40-175	40mm	185.2	178.1	231.9	0.49 kg	BLUE
CPI-SA10-150-150-08	1.50"(in)	[8.25]	[8.00]	[10.12]	[0.54 lb]	SILVER
CPI-SA25-40-40-200	40mm	209.5	203.2	257.0	1.18 kg	BLUE



Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

Transition Swivel Arms  
EDxx Double-Bolt Ø40mm/1.50" to Ø40mm/1.50"



Model Number	(Ø) "D"	"A"	"B"	"C"	Weight	FINISH
CPI-ED10-150-150-04	1.50"(in)	[4.56] 115.9	[4.10] 104.1	[6.22] 158.0	[0.76 lb] 0.34 kg	SILVER
CPI-ED25-40-40-100	40mm	[4.52] 114.7	[4.05] 102.9	[6.17] 156.7		BLUE
CPI-ED10-150-150-06	1.50"(in)	[6.42] 163.1	[6.10] 154.9	[8.22] 208.8	[0.90 lb] 0.41 kg	SILVER
CPI-ED25-40-40-150	40mm	[6.35] 161.4	[6.03] 153.2	[8.15] 207.0		BLUE
CPI-ED10-150-150-08	1.50"(in)	[8.34] 211.9	[8.10] 205.7	[10.22] 259.6	[1.03 lb] 0.47 kg	SILVER
CPI-ED25-40-40-200	40mm	[8.25] 209.5	[8.00] 203.2	[10.12] 257.0		BLUE
CPI-ED10-150-150-10	1.50"(in)	[10.30] 261.5	[10.10] 256.4	[12.22] 310.4	[1.17 lb] 0.53 kg	SILVER
CPI-ED25-40-40-250	40mm	[10.17] 258.3	[9.97] 253.2	[12.09] 307.1		BLUE
CPI-ED10-150-150-12	1.50"(in)	[12.27] 311.5	[12.10] 307.3	[14.22] 361.2	[1.31 lb] 0.59 kg	SILVER
CPI-ED25-40-40-300	40mm	[12.11] 307.5	[11.94] 303.3	[14.06] 357.1		BLUE
CPI-ED10-150-150-14	1.50"(in)	[14.24] 361.7	[14.10] 358.1	[16.22] 411.98	[1.45 lb] 0.66 kg	SILVER
CPI-ED25-40-40-350	40mm	[14.03] 356.7	[13.90] 353.1	[16.02] 406.9		BLUE
CPI-ED10-150-150-16	1.50"(in)	[16.22] 412.1	[16.10] 408.9	[18.22] 462.7	[1.59 lb] 0.72 kg	SILVER
CPI-ED25-40-40-400	40mm	[16.00] 406.3	[15.87] 403.1	[18.00] 457.0		BLUE

Bore Size Chart

(Ø) "D" vs. Actual (Ø) Bore Sizes (Micro)				(Ø) "D" vs. Actual (Ø) Bore Sizes (Typical)			
(Ø) "D"	(Ø) Actual	(Ø) "D"	(Ø) Actual	(Ø) "D"	(Ø) Actual	(Ø) "D"	(Ø) Actual
.50"(in)	.508"(±.003)	12mm	12.22mm(±.08)	1.00"(in)	1.010"(±.003)	25mm	25.25mm(±.08)
.75"(in)	.758"(±.003)	20mm	20.32mm(±.08)	1.50"(in)	1.514"(±.003)	40mm	40.36mm(±.08)
1.00"(in)	1.008"(±.003)	25mm	25.32mm(±.08)	2.50"(in)	2.518"(±.003)	60mm	60.45mm(±.08)

## Single End Extensions

### ES Rod End and Mounting Extensions

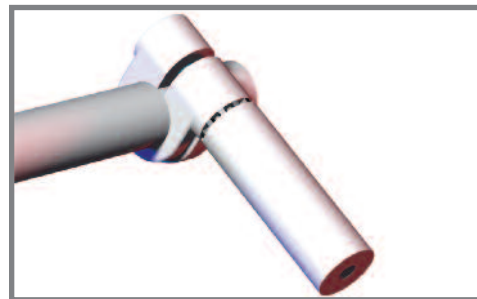
Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

#### Features:

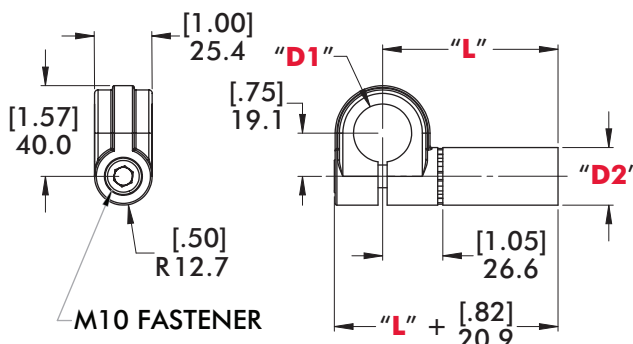
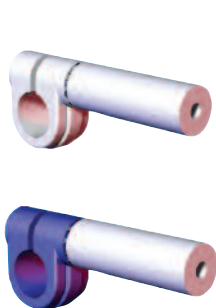
- Mounts to round tube for extended mounting options
- Provides 360° of rotational adjustments along a single axis

#### 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

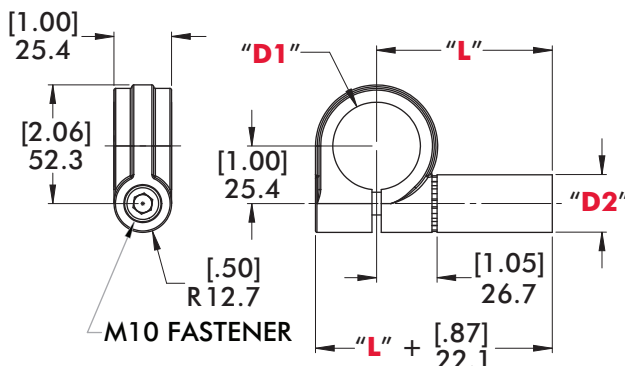
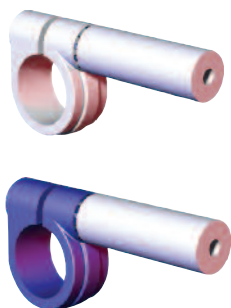
Order Example  
CPI-ES10-100-06 (6.00" Length)

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-ES10-100-"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-ES25-25-"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-ES10-150-"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-ES25-40-"L"	40mm	25mm	Base Length "L" 100 = 0.23 kg [0.51 lb] Add .061 kg [.134 lb] per additional increment	BLUE



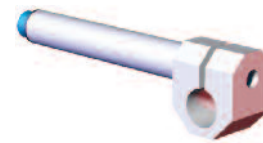
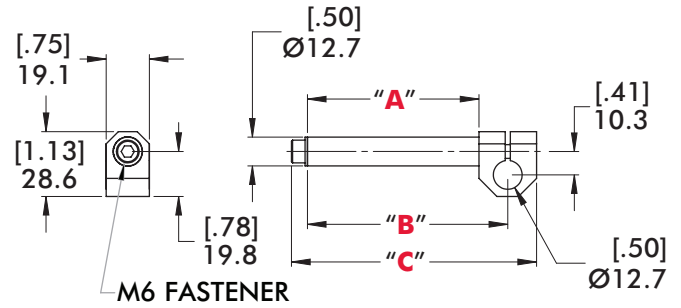
Nominal (Ø) given  
See chart on Page 13  
for actual (Ø) size

Single End Extensions

**MSE** Ø12.7mm [.50"] Extension (Micro)



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



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

"L" = Specify Length from Below

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

English Lengths:

From 03(3.00") to 28(28.00")  
in 1.00" Increments

Order Example

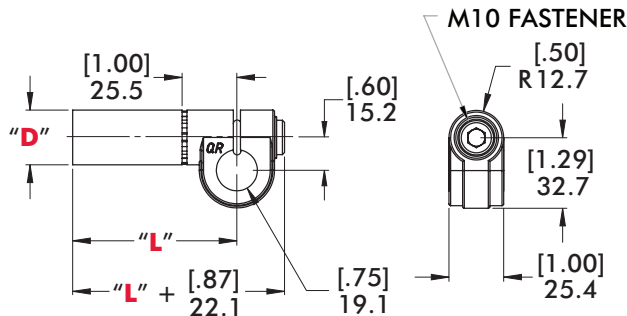
CPI-ES10-075-06 (6.00" Length)

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-ES10-075-"L"	1.00"(in)	Base Length "L" 03 = 0.17 kg [0.38 lb] Add .031 kg [.068 lb] per additional increment	SILVER
CPI-ES25-19-"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

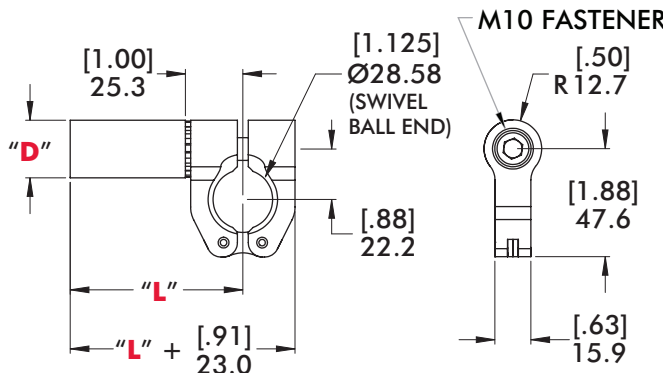
CPI-ES10-B112-06 (6.00" Length)

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-ES10-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-ES25-B112-"L"	25mm	Base Length "L" 100 = 0.23 kg [0.51 lb] Add .029 kg [.064 lb] per additional increment	BLUE



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