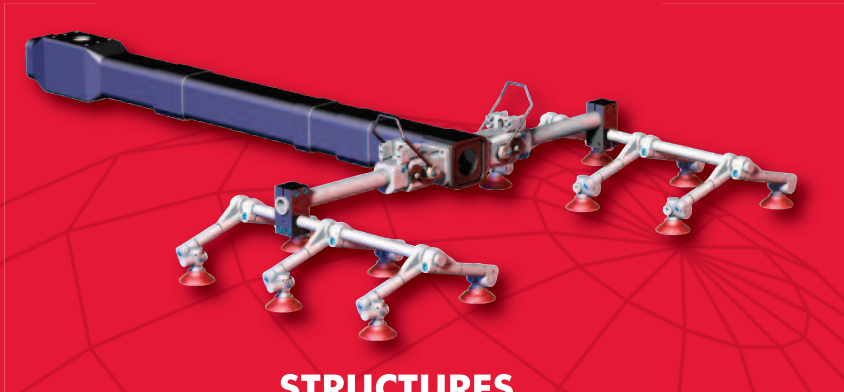




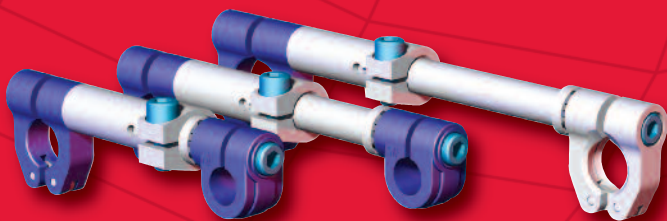
A DOVER COMPANY



STRUCTURES



TRANSITION BRACKETS AND BLOCKS



SWIVEL ARMS AND ACCESORIES

ROUND TOOLING COMPONENTS

APRIL 2009

www.destaco.com



CAD FILES
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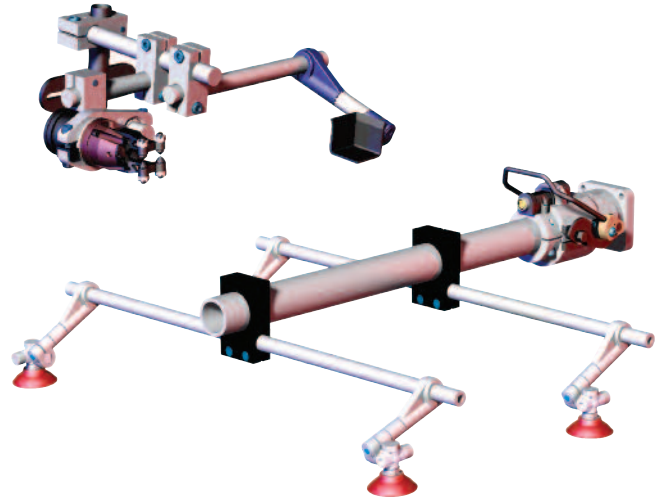
Round Tooling Components

Features

Ideal for small part handling, injection press unloading, pick-and-place applications, and unusual shaped objects.

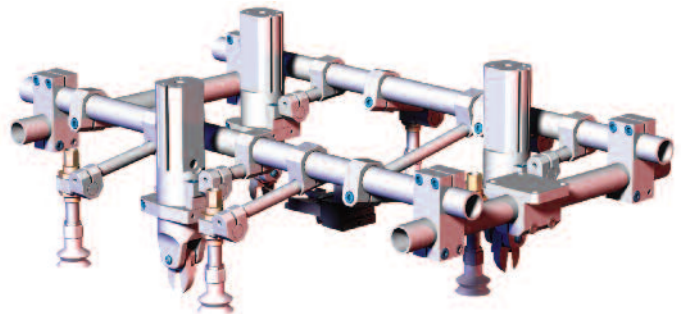
Standard Round Tooling Solutions

- Offers standard finger clamps for high volume, low cost, lightweight solutions.
- Part holding devices, such as grippers offer fast open/close cycle times and the best power to weight ratios.
- Other part holding devices include shovels and vacuum cups.
- Ideal for pick-and-place part handling, manual manipulating, packaging and palletizing.
- All tooling components are constructed of lightweight aluminum and can be re-used for future applications.



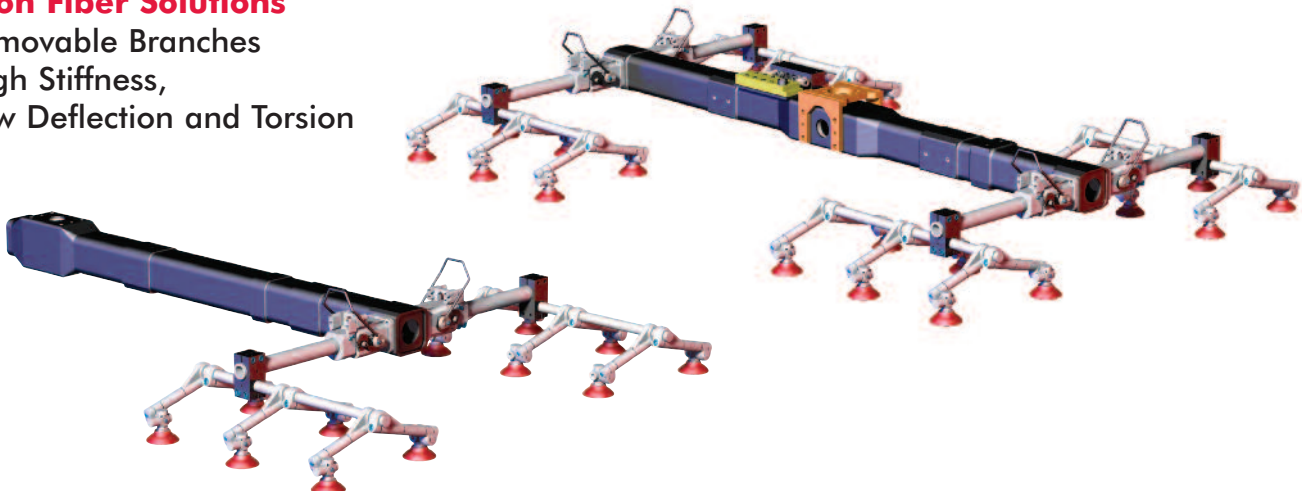
Customized Solutions

- 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

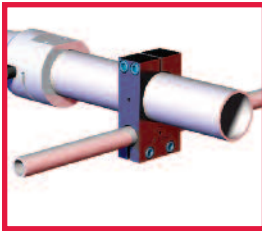


Round Tooling Components
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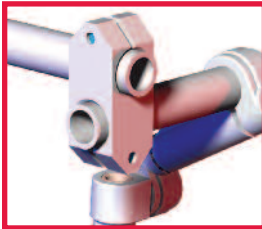
World Tool Booms

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Carbon Fiber End of Line/Destacker Main Boom Page 7
Carbon Fiber Tubing Page 7
Tapered Aluminum Main Boom Page 8



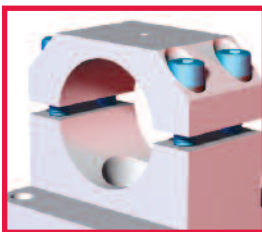
Aluminum Round Tooling Structures

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Transition Brackets and Blocks

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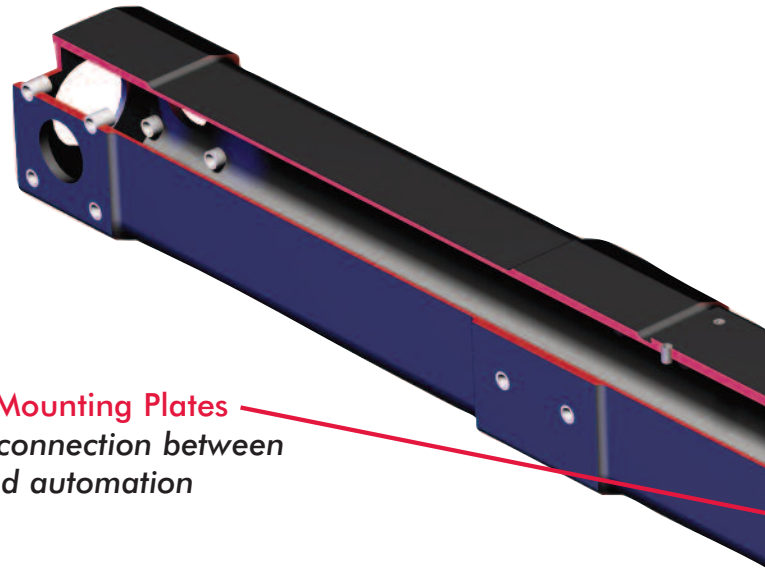
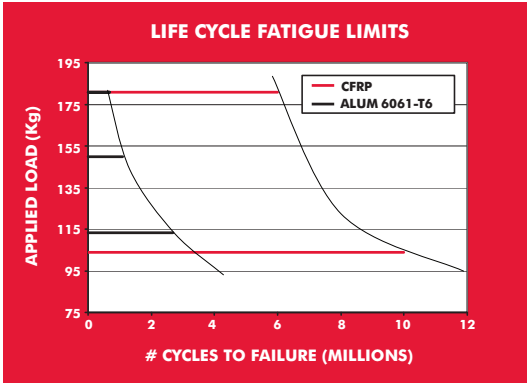


Swivel Arms and Accessories

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Transition Swivel Arms Page 62-71
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Carbon Fiber Reinforced Main Boom

Overview



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:

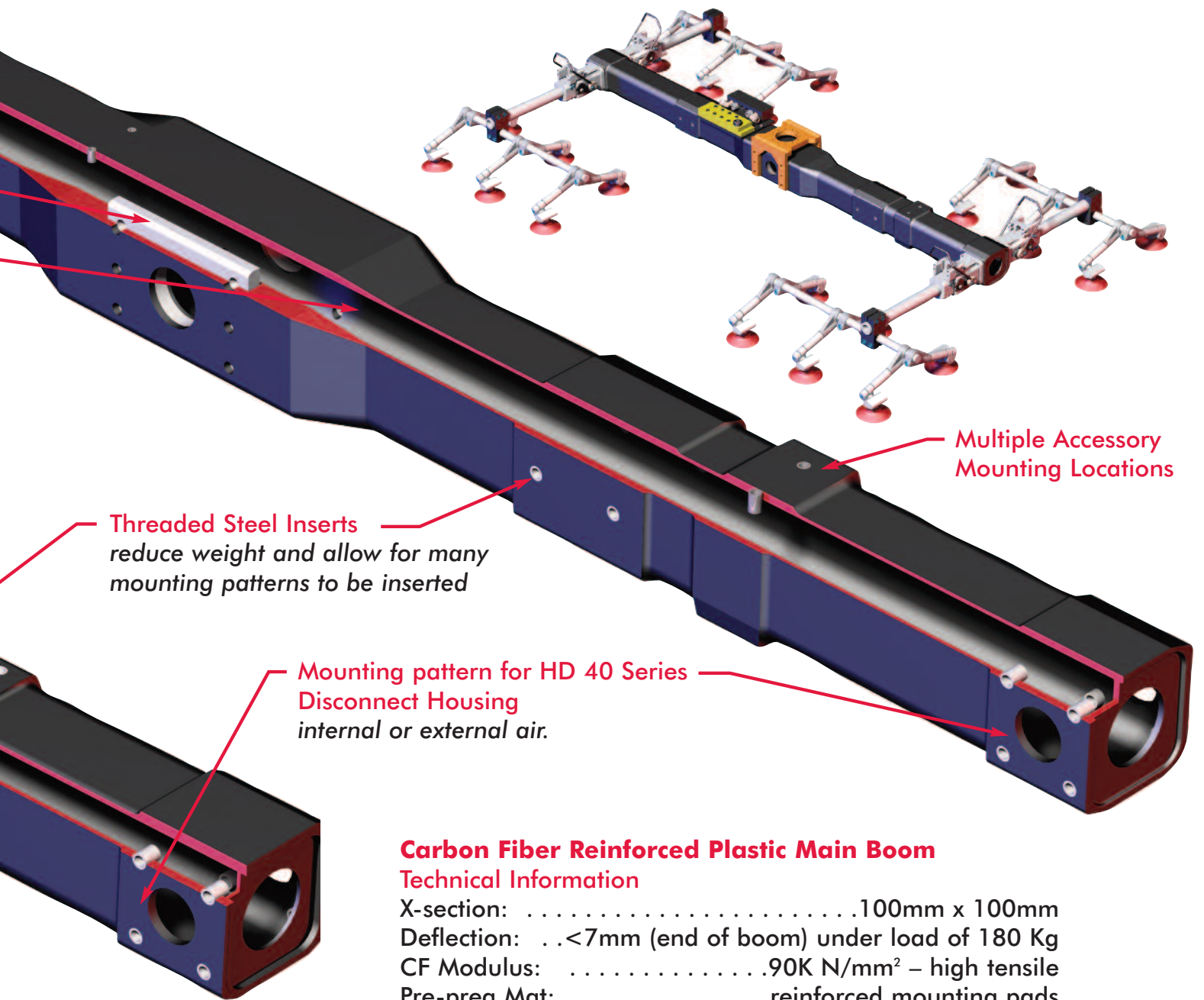
- M6 = 6 Nm [4.5 lbf-ft]
- M8 = 12 Nm [9.0 lbf-ft]
- M10 = 22 Nm [16 lbf-ft]

Carbon Fiber Reinforced Main Booms
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 Main Boom
Technical Information**

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

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

World Tool Booms

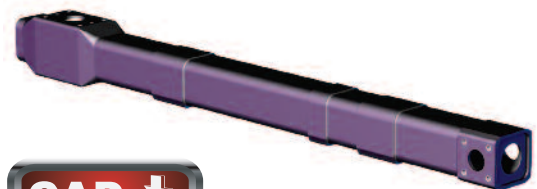
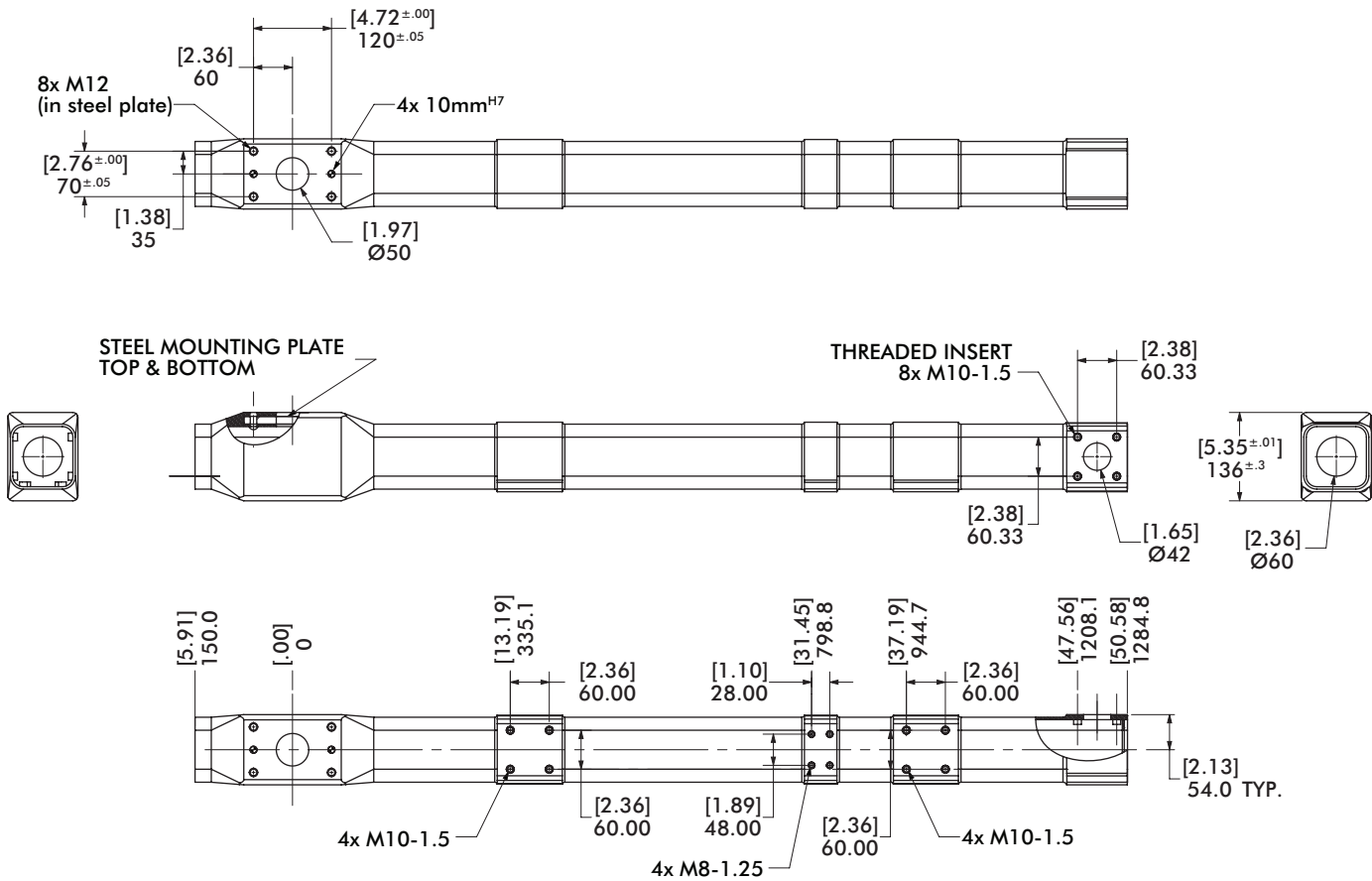
CFRP Interpress Main Boom

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



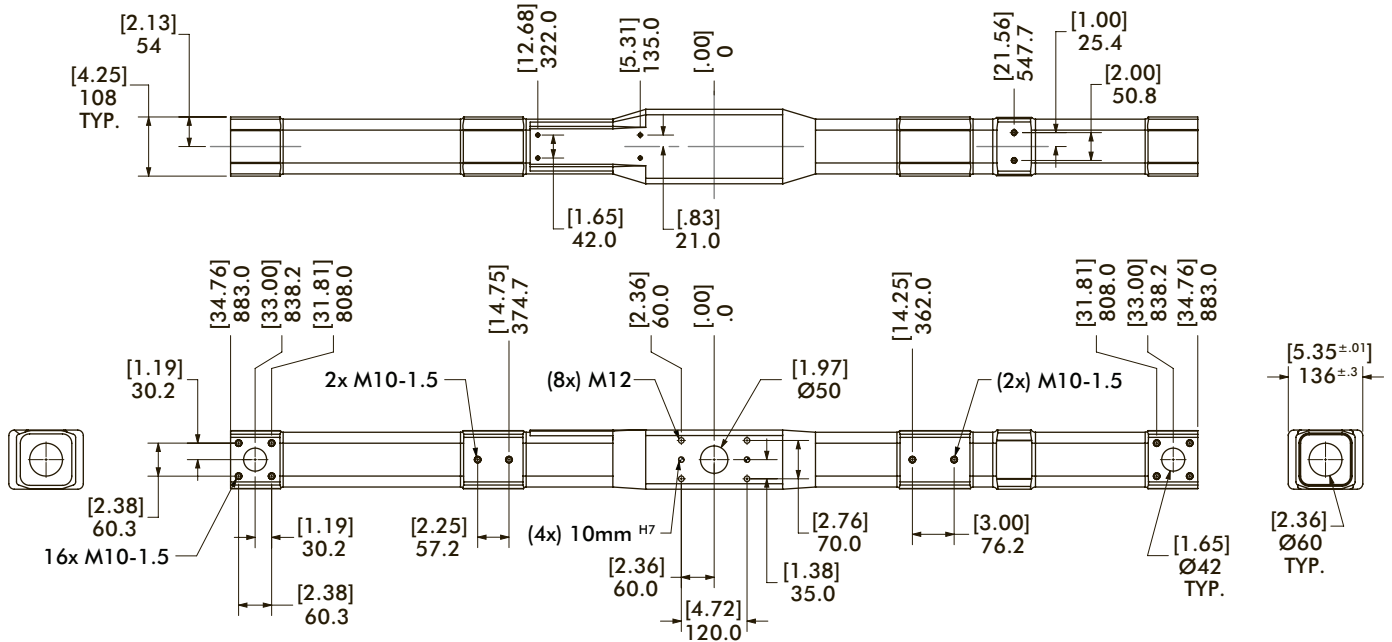
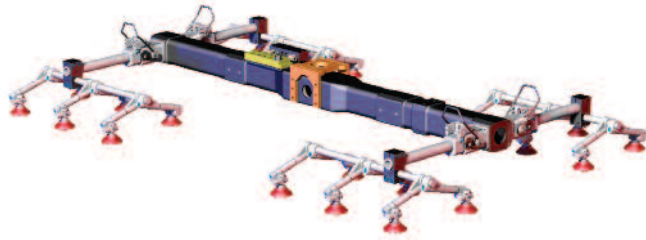
MODEL NUMBER	WEIGHT
CPI-CFRP-T1-1250	6.3 kg [13.9 lb]

Round Tooling Components



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

World Tool Booms CFRP End of Line/Destacker Main Boom

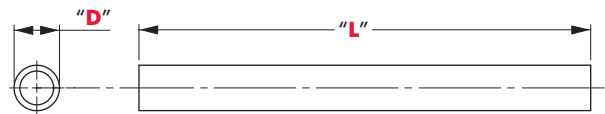


MODEL NUMBER	WEIGHT
CPI-CFRP-T2-1675	7.5 kg [16.5 lb]



"L" Specify Length
in 12.00" [300mm]
Increments
English Example:
12 = 12.00"
(CPI-PST-10-12)

Carbon Fiber Reinforced Plastic Tubing



CARBON FIBER REINFORCED PLASTIC TUBING					
MODEL	(Ø) "D"	WALL THICKNESS	WEIGHT	LINEAR DEFLECTION	TORSIONAL TWIST
CPI-PCT-15-"L"	1.50"(in)	6.1mm [0.24"]	1.0 kg/m [0.68 lb/ft]	4.9mm [0.195"] @ 50lb/24.00"	N/A
CPI-PCT-25-"L"	2.50"(in)	7.93mm [0.3125"]	2.1 kg/m [1.40 lb/ft]	16.5mm [0.65"] @ 150lb/48.00"	.004°



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

World Tool Booms

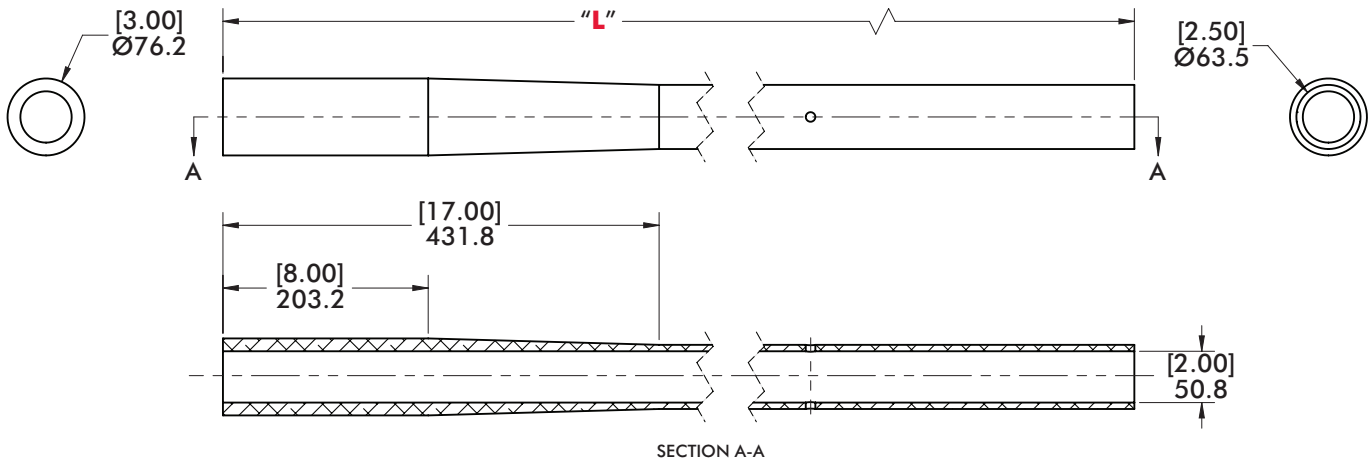
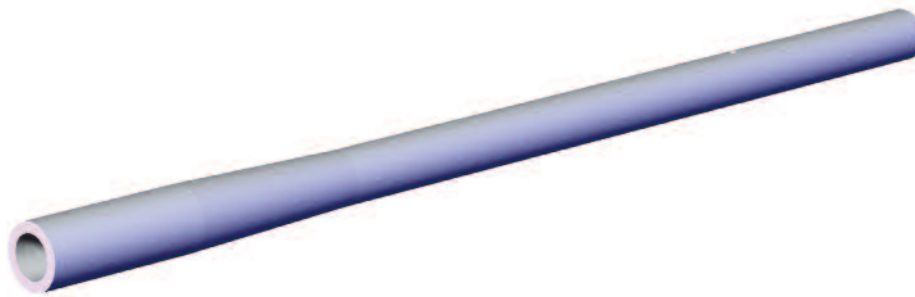
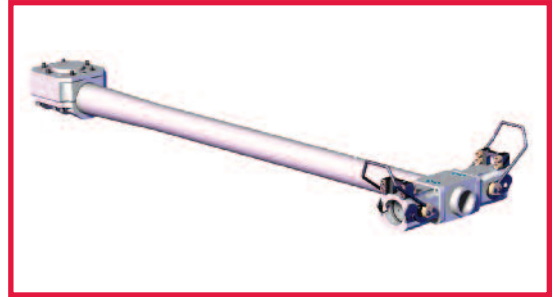
Tapered Aluminum Main Booms

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 .50" walls to Ø2.50" with .25" walls.

Specifications:

Material: Aluminum

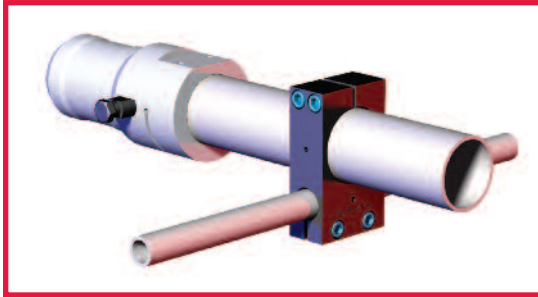


Ø3.00" TAPERED WORLD TOOL MAIN BOOM		
MODEL	"L"	WEIGHT
CPI-PAT-30TP-1M-55	[55.00] 1397.0	[12.08 lb] 5.48 kg
CPI-PAT-30TP-0M-60	[60.00] 1524.0	[12.95 lb] 5.87 kg



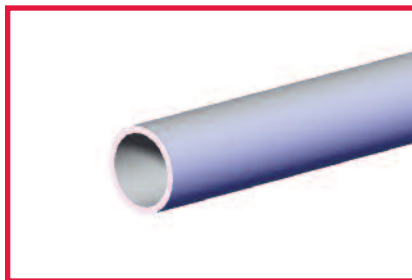
Nominal (Ø) given.
See chart on Page 13
for actual (Ø) size.

Round Tooling Structures Aluminum Tubing and Rods



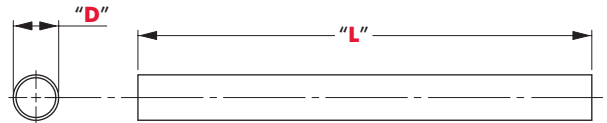
Specifications:
Material:
6061-T6 Aluminum

- 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 customers needs.

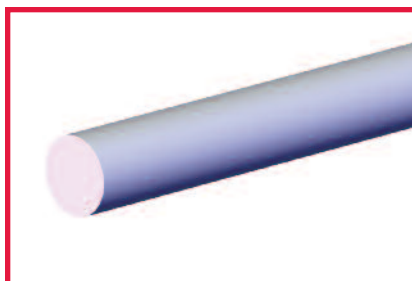


- "L" Standard Lengths**
- 04** = 4.00"
 - 06** = 6.00"
 - 08** = 8.00"
 - 10** = 10.00"
 - 12** = 12.00"
 - 24** = 24.00"
 - 36** = 36.00"

Aluminum Tubing

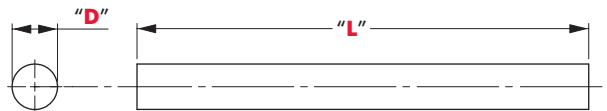


THIN WALL ROUND ALUMINUM TUBING			
MODEL	(Ø) "D"	WALL THICKNESS	WEIGHT
CPI-PAT-50T-"L"	0.50"(in)	[0.085"] 2.16mm	[0.13 lb/ft] 193.0 g/m
CPI-PAT-75T-"L"	0.75"(in)	[0.085"] 2.16mm	[0.20 lb/ft] 309.3 g/m
CPI-PAT-10T-"L"	1.00"(in)	[0.085"] 2.16mm	[0.28 lb/ft] 425.6 g/m



- "L" Specify Length**
in 6.00" [150mm]
Increments
English Example:
06 = 6.00"
(CPI-PAB-10-06)
Metric Example:
150 = 150mm
(CPI-PAB-25-150)

Aluminum Rods



CPI ROUND ALUMINUM BAR					
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

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

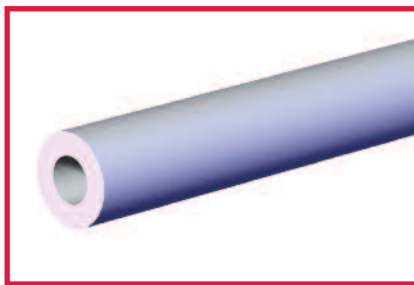
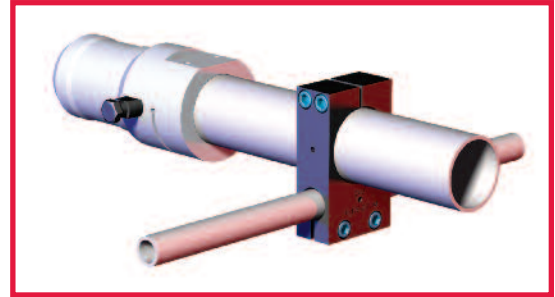
Round Tooling Structures Aluminum Tubing

Features:

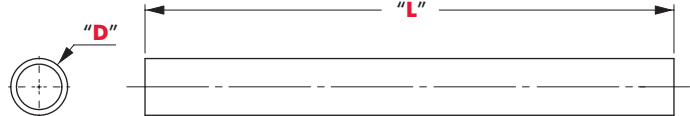
- Round Aluminum Tubing and Bar is used in conjunction with all Round tooling components and forms the background of a component based system.
- Round tooling products can be used with this product to create a wide variety of configurations to address a customers needs.

Specifications:

Material:
6061-T6 Aluminum



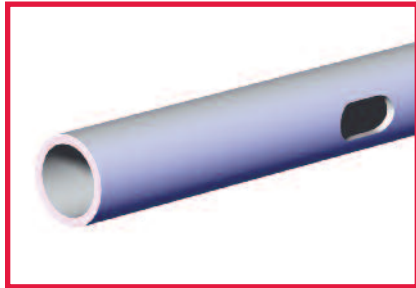
"L" Specify Length
in 6.00" [150mm]
Increments
English Example:
06 = 6.00"
(CPI-PAT-15-06)
Metric Example:
150 = 150mm
(CPI-PAT-40-150)



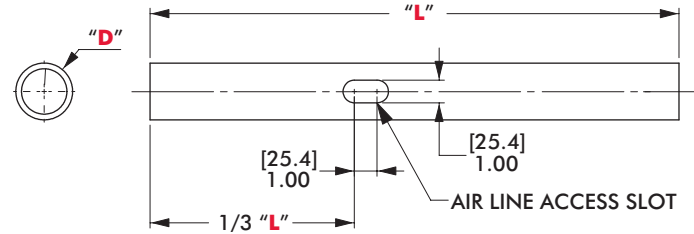
ROUND ALUMINUM TUBING						
MODEL	(Ø) "D"	WALL THICKNESS	WEIGHT	LINEAR DEFLECTION	TORSIONAL TWIST	
CPI-PAT-1025-"L"	1.00"(in)	[0.25"] 6.35mm	[0.7 lb/ft] 1.02 kg/m	1.27mm [0.05"] @ 50lb/12.00"	.002° @ 100ft-lbs	
CPI-PAT-125-"L"	1.25"(in)	[0.25"] 6.35mm	[0.9 lb/ft] 1.37kg/m			
CPI-PAT-15-"L"	1.50"(in)	[0.25"] 6.35mm	[1.2 lb/ft] 1.8 kg/m	4.8mm [0.19"] @ 100lb/24.00"	.003° @ 300ft-lbs	
CPI-PAT-40-"L" (Metric)	40mm	[0.20"] 5mm	[1.2 lb/ft] 1.8 kg/m	4.8mm [0.19"] @ 100lb/24.00"	.003° @ 300ft-lbs	
CPI-PAT-25-"L"	2.50"(in)	[0.25"] 6.35mm	[2.1 lb/ft] 3.1 kg/m	13.9mm [0.55"] @ 150lb/48.00"	.003° @ 600ft-lbs	
CPI-PAT-60-"L" (Metric)	60mm	[0.20"] 5mm	[2.1 lb/ft] 3.1 kg/m	13.9mm [0.55"] @ 150lb/48.00"	.003° @ 600ft-lbs	
CPI-PAT-2538-"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	

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

Round Tooling Structures Aluminum Slotted Tubing

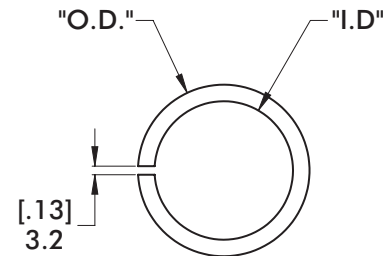
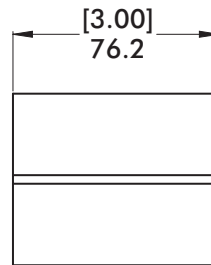
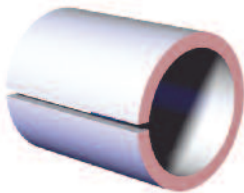


"L" Specify Length
in 6.00" [150mm]
Increments
English Example:
06 = 6.00"
(CPI-BTI-150-7S-06)
Metric Example:
150 = 150mm
(CPI-BTI-150-7S-150)



ROUND ALUMINUM SLOTTED TUBING					
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-BTI-40-7S-"L" (Metric)	40mm	[0.25"] 6.35mm	[1.2 lb/ft] 1.8 kg/m	4.8mm [0.19"] @ 100lb/24.00"	.003° @ 300ft-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

Aluminum Bushing



ALUMINUM BUSHINGS			
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

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

Round Tooling Structures

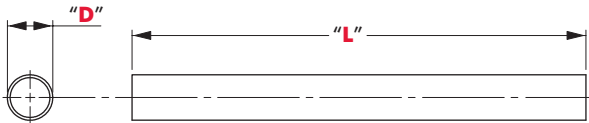
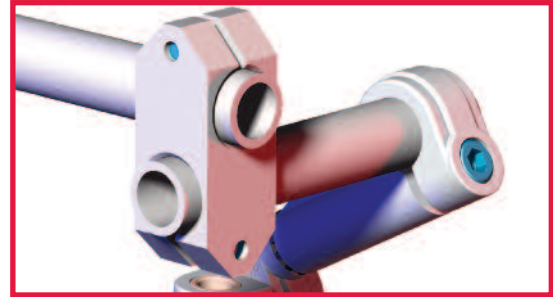
Steel Tubing

Features:

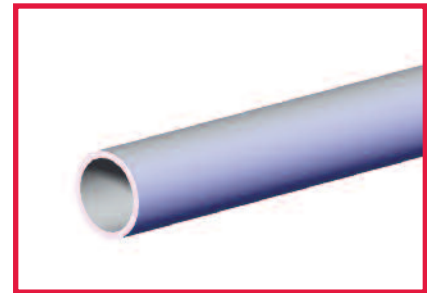
- Round Steel Tubing when used in conjunction with other steel Round tooling components can be positioned and welded into place.
- Round Tooling products can be used with this product to create a wide variety of configurations to address a customers needs.

Specifications:

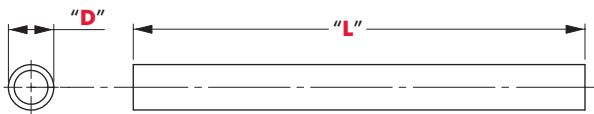
Material:
Hydraulic Steel Tubing



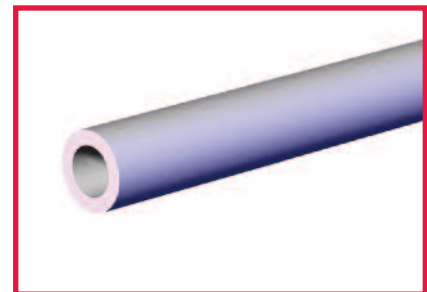
"L" Specify Length
in 6.00" [150mm]
Increments
Metric Example:
150 = 150mm
(CPI-PST-10-150)



ROUND STEEL TUBING					
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



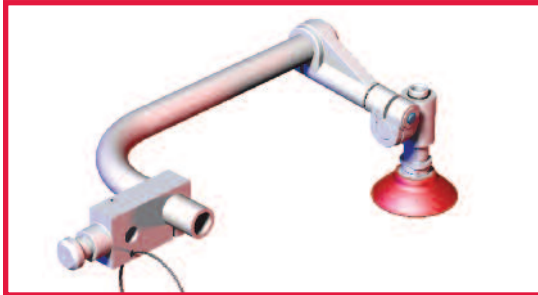
"L" Specify Length
in 6.00" [150mm]
Increments
English Example:
06 = 6.00"
(CPI-HYD-TUBE-06)



ROUND STEEL TUBING			
MODEL	(Ø) "D"	WALL THICKNESS	WEIGHT
CPI-HYD-TUBE-"L"	1.00" (in)	4.8mm [0.19"]	2.4 kg/m [1.63 lb/ft]
M1512-"L"	1.00" (in)	4.8mm [0.19"]	8.3 kg/m [5.52 lb/ft]

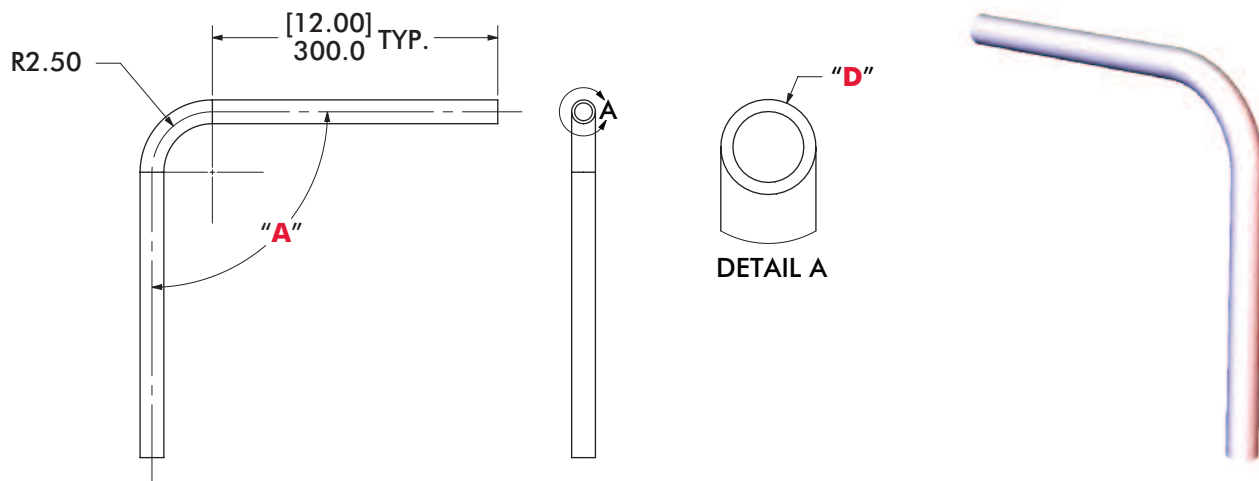
Nominal (Ø) given.
See chart on Page 13
for actual (Ø) size.

Round Tooling Structures 90° Bent Steel Tubing



Specifications:
Material:
Hydraulic 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.



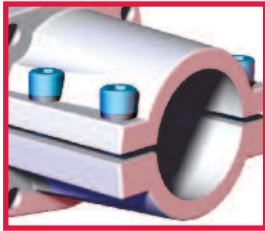
BENT STEEL TUBING			
MODEL	(Ø) "D"	"A"	WEIGHT
CPI-PST-10-300-300	1.00"(in)	90°	0.98 kg [2.16 lb]
CPI-PST-25-300-300-45	25mm	135°	0.96 kg [2.12 lb]
CPI-PST-25-300-300-90	25mm	90°	0.96 kg [2.12 lb]

Tube Tolerances

(Ø) "D" Tube Tolerances (Thin Wall)				(Ø) "D" Tube Tolerances (Typical)					
(Ø) "D"	Tolerance	(Ø) "D"	Tolerance	(Ø) "D"	Tolerance	(Ø) "D"	Tolerance	(Ø) "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

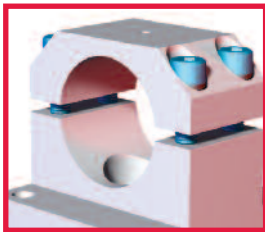
Transition Brackets and Blocks

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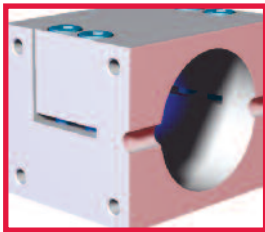
Flange End Mount Brackets and Blocks

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End Flange Mount for Ø25mm/1.00" Tube (Micro)	Page 16
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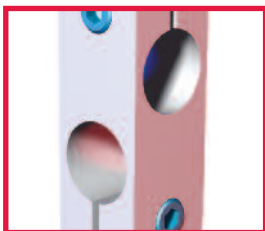
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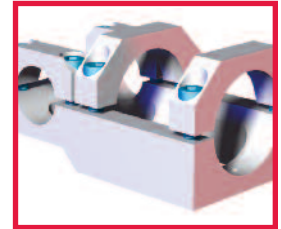
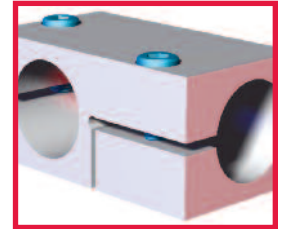


Transition Brackets and Blocks

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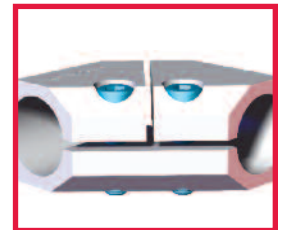
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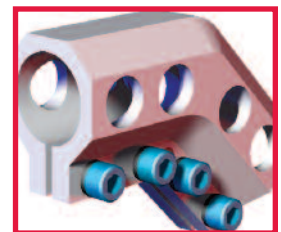
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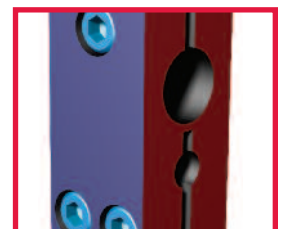
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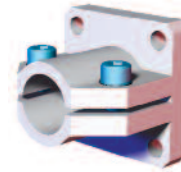
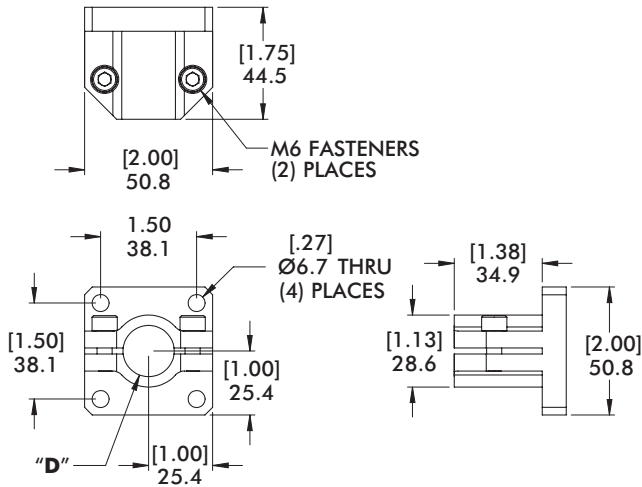


(Ø) "D" vs. Actual (Ø) Bore Sizes (Micro)				(Ø) "D" vs. Actual (Ø) Bore Sizes (Typical)					
(Ø) "D"	(Ø) Actual	(Ø) "D"	(Ø) Actual	(Ø) "D"	(Ø) Actual	(Ø) "D"	(Ø) Actual	(Ø) "D"	(Ø) Actual
.50"(in)	.508"(±.003)	12mm	12.22mm(±.08)	1.00"(in)	1.010"(±.003)	25mm	25.25mm(±.08)	1.25"(in)	1.260"(±.003")
.75"(in)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

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

Flange End Mount Bracket and Blocks

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



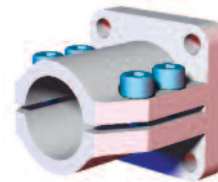
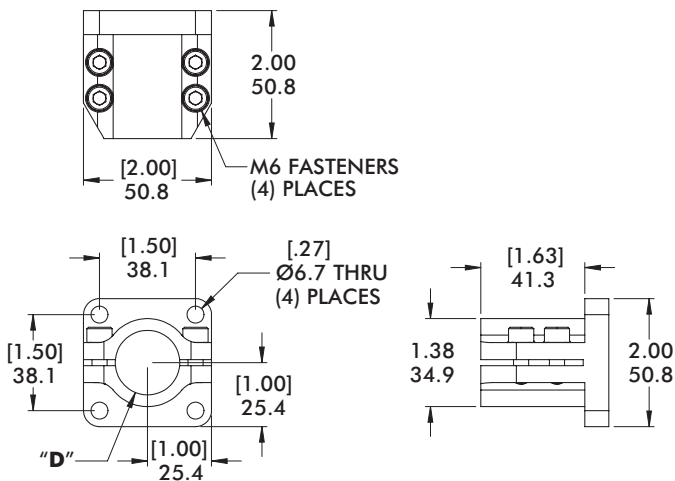
Specifications:

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



MODEL NUMBER	(Ø)"D"	WEIGHT
CPI-CLM-20M-15F	20mm	[.26 lb] .12 kg
CPI-CLM-75-15F-ATI	.75"(in)	[.32 lb] .14 kg

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



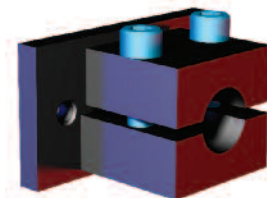
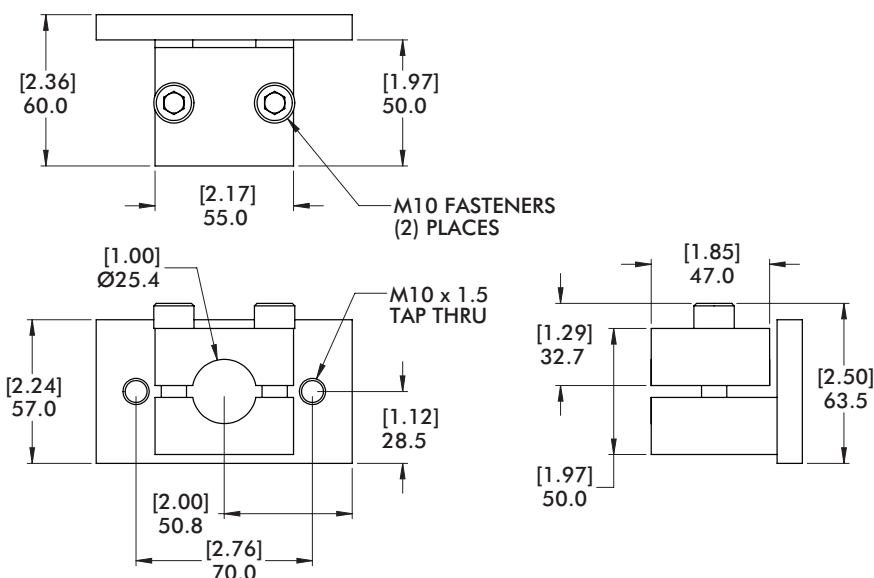
Specifications:

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



MODEL NUMBER	(Ø)"D"	WEIGHT
CPI-CLM-25M-15F	25mm	[.32 lb] .14 kg
CPI-CLM-10-15F	1.00"(in)	[.32 lb] .14 kg

M1511 End Flange Mount for Ø1.00" Tube



Specifications:

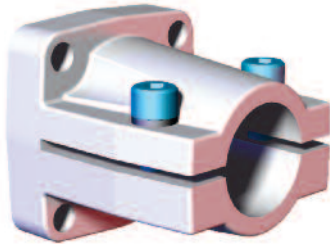
Max. Static Clamp Load:
203 N*m [150 ft-lb]
Material: Aluminum



MODEL NUMBER	WEIGHT
M1511	[1.08 lb] .49 kg

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

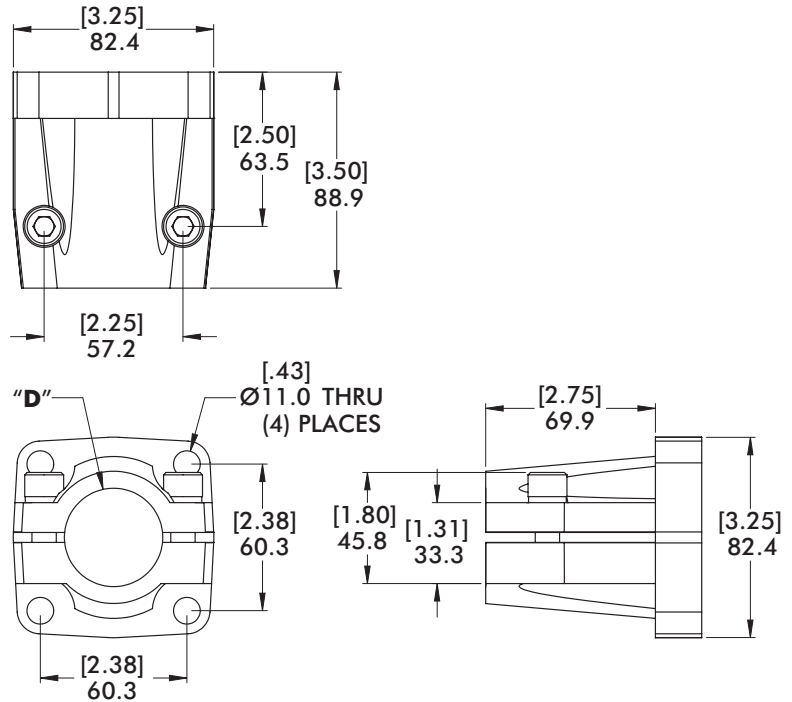
Flange End Mount Brackets and Blocks KF/CF End Flange Mount for Ø40mm/1.50" Tube



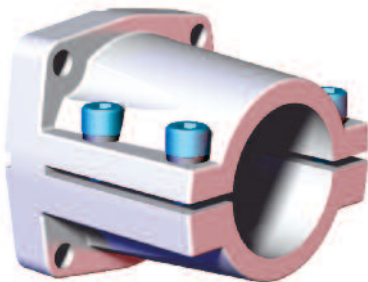
Specifications:
Max. Static Clamp Load:
203 N*m [150 ft-lb]
Material: Aluminum



MODEL NUMBER	(Ø)"D"	WEIGHT
CPI-KF-40-60F	40mm	[1.55 lb] .70 kg
CPI-CF-15-238F	1.50"(in)	[1.61 lb] .73 kg



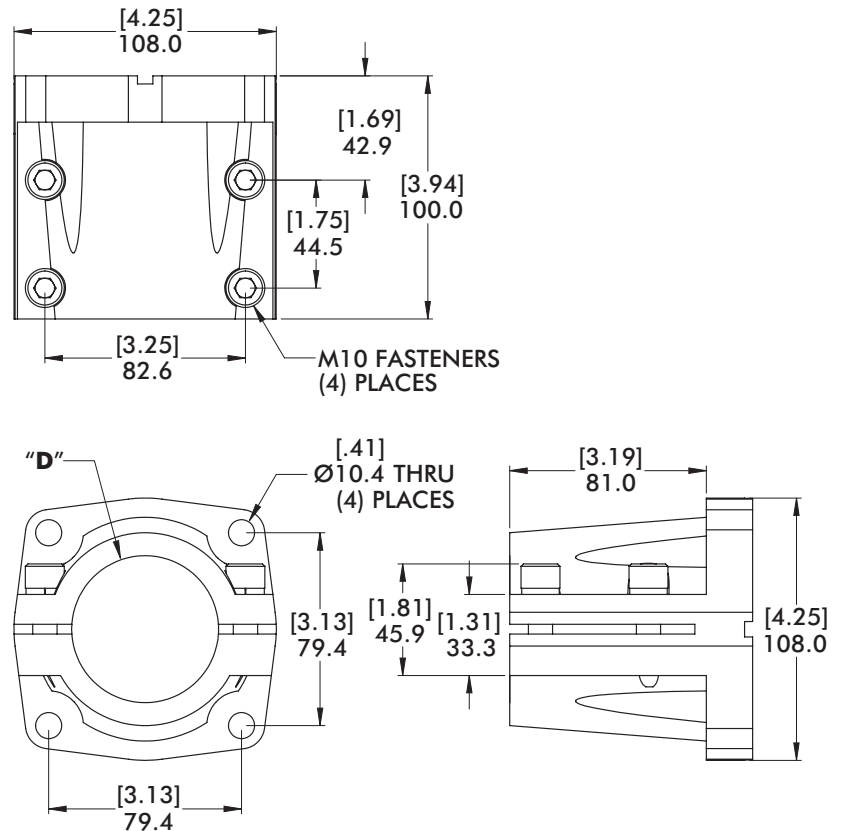
KF/CF End Flange Mount for Ø60mm/2.50" Tube



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

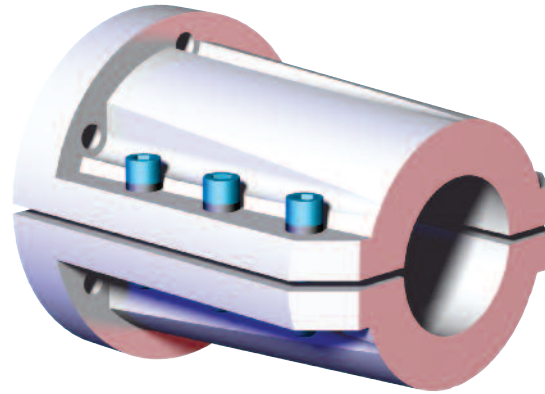
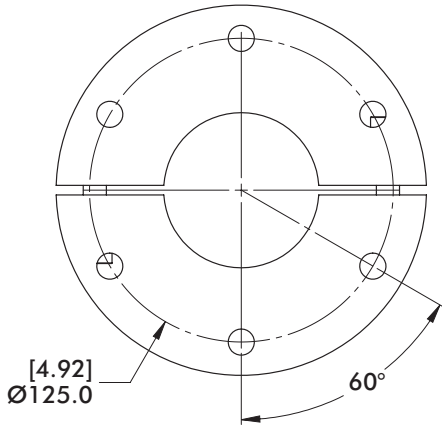


MODEL NUMBER	(Ø)"D"	WEIGHT
CPI-KL-60-78F	60mm	[2.73 lb] 1.24 kg
CPI-CL-25-312BBF	2.50"(in)	[2.51 lb] 1.14 kg
CPI-CL-25-312F 312BBF without Keyway	2.50"(in)	[2.52 lb] 1.14 kg

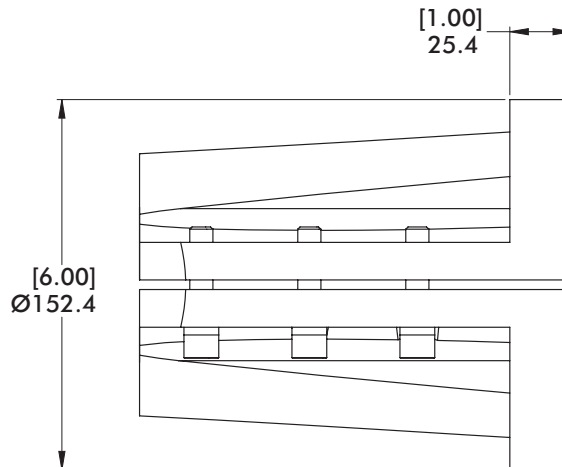
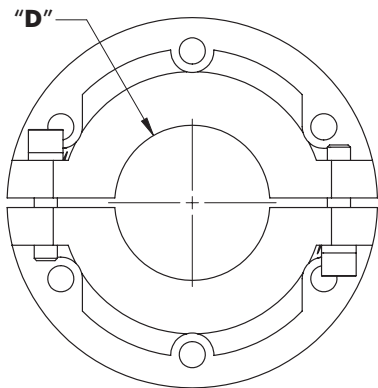
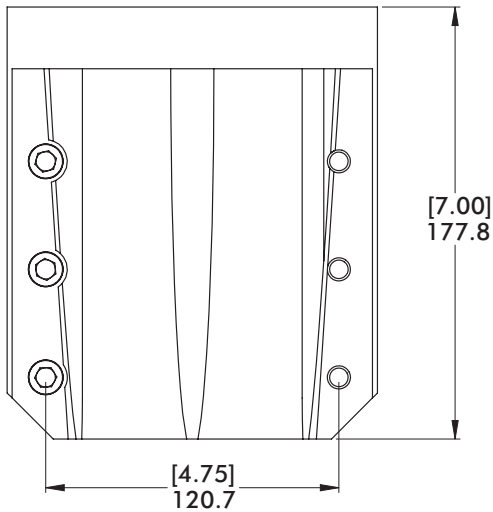


Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

Flange End Mount Brackets and Block CL End Flange Mount with Ø125mm Bolt Pattern



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



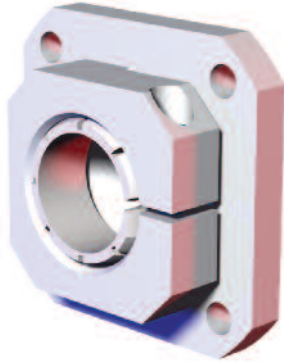
MODEL NUMBER	(Ø) "D"	WEIGHT
CPI-CL-60-125F	60mm	[9.86 lb] 4.47 kg
CPI-CL-250-125F	2.50"(in)	[10.20 lb] 4.63 kg
CPI-CL-300-125F	3.00"(in)	[8.70 lb] 3.95 kg



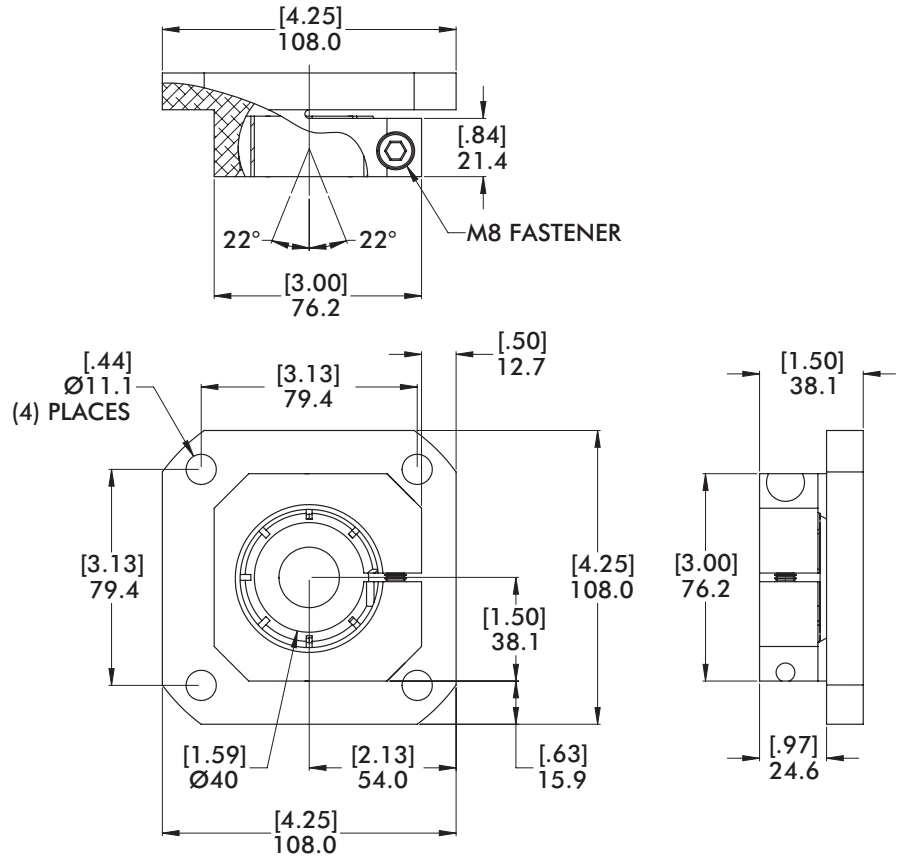
Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

Flange Mid Mounts Brackets and Blocks

RJM Flange Mount for Ø40mm Spherical Swivel Arm

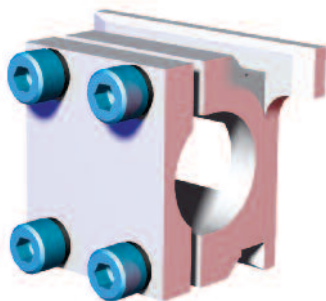


Specifications:
Max. Static Clamp Load:
203 N*m [150 ft-lb]
Material: Aluminum

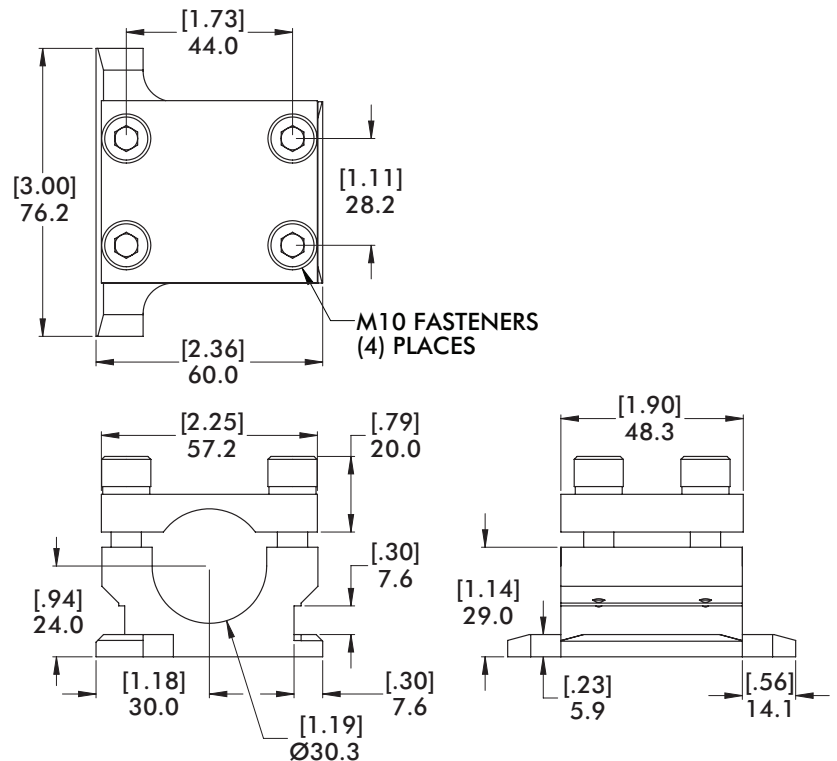


MODEL NUMBER	WEIGHT
CPI-RJM-78F-40S	[1.54 lb] .70 kg

SGM-191 Guide Mount Bracket for Ø30mm Tube



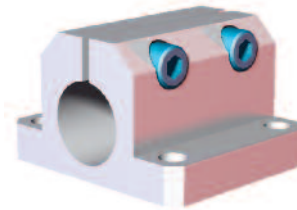
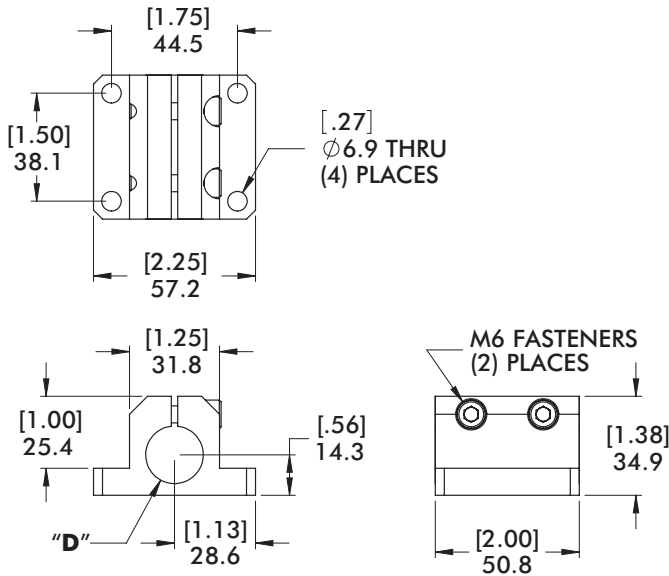
MODEL NUMBER	WEIGHT
CPI-SGM-191	[.51 lb] .23 kg



Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

Flange Mid Mount Brackets and Blocks

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



Specifications:

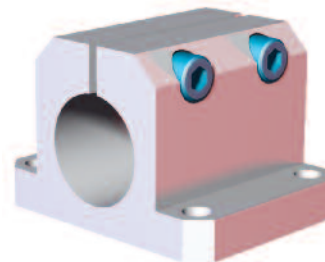
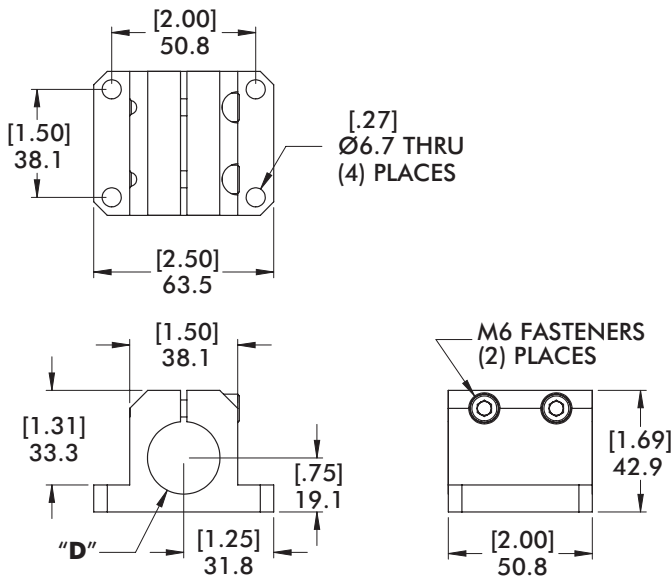
Max. Static Clamp Load:
47.5 N*m [35 ft-lb]

Material: Aluminum



MODEL NUMBER	(Ø)"D"	WEIGHT
CPI-CLM-20M-1517F-90	20mm	[.33 lb] .14 kg
CPI-CLM-75-1517F-90-ATI	.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]

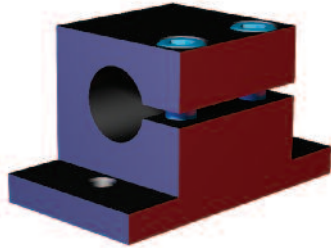
Material: Aluminum



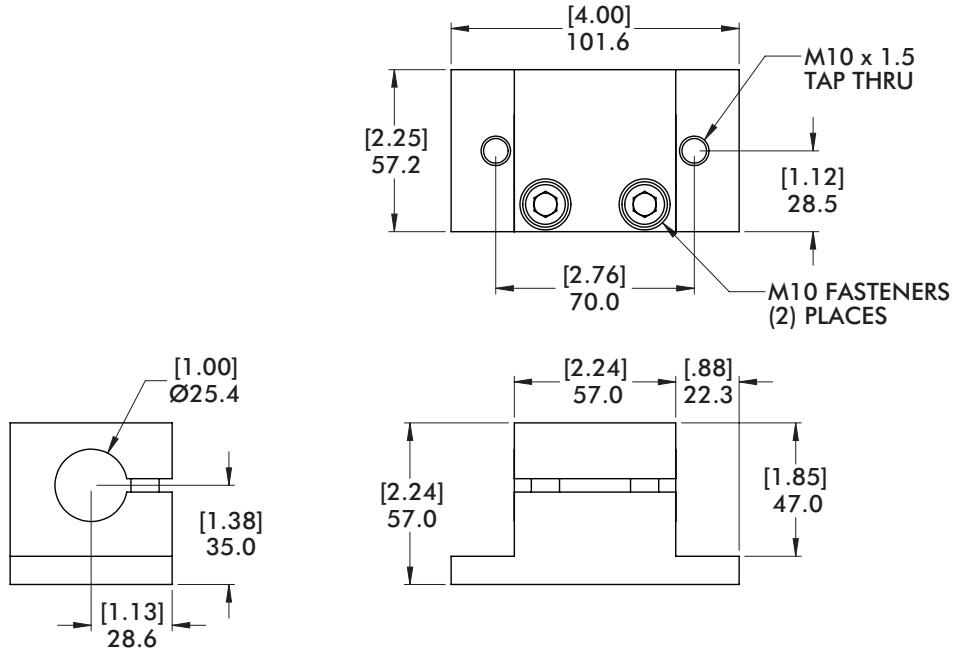
MODEL NUMBER	(Ø)"D"	WEIGHT
CPI-CLM-25M-152F-90	25mm	[.41 lb] .19 kg
CPI-CLM-10-152F-90	1.00"(in)	

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

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

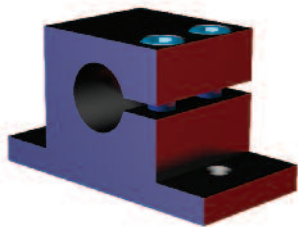


Specifications:
Max. Static Clamp Load:
203 N*m [150 ft-lb]
Material: Aluminum

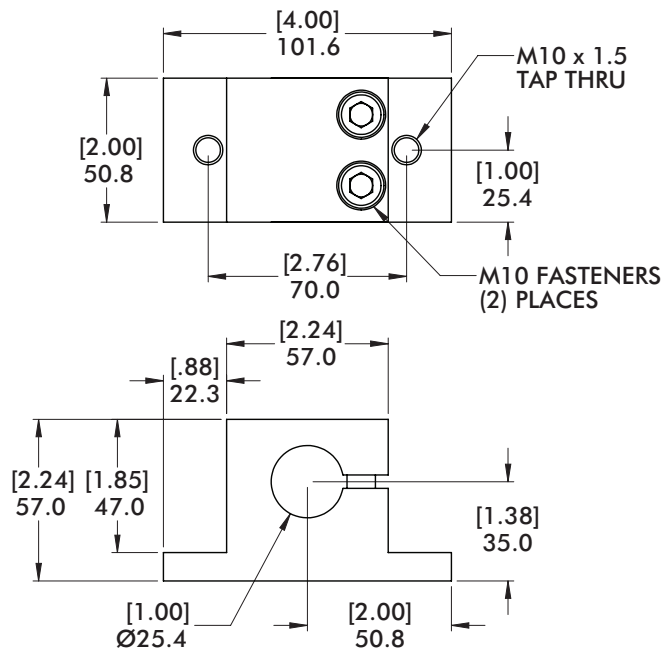


MODEL NUMBER	WEIGHT
M1509	[.99 lb] .45 kg

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



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

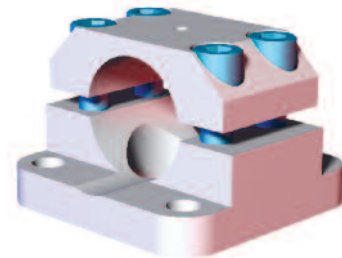
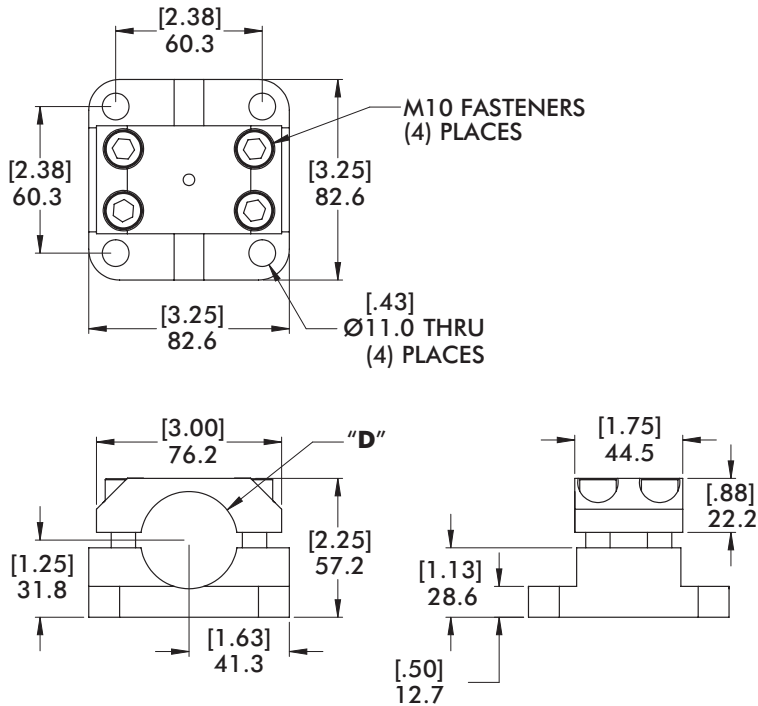


MODEL NUMBER	WEIGHT
M1510	[.87 lb] .39 kg

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

Flange Mid Mount Brackets and Blocks

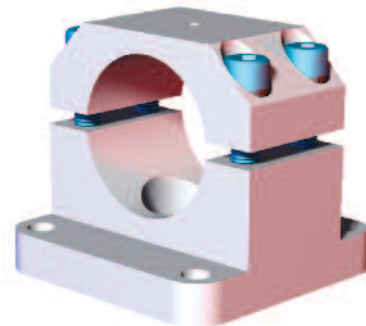
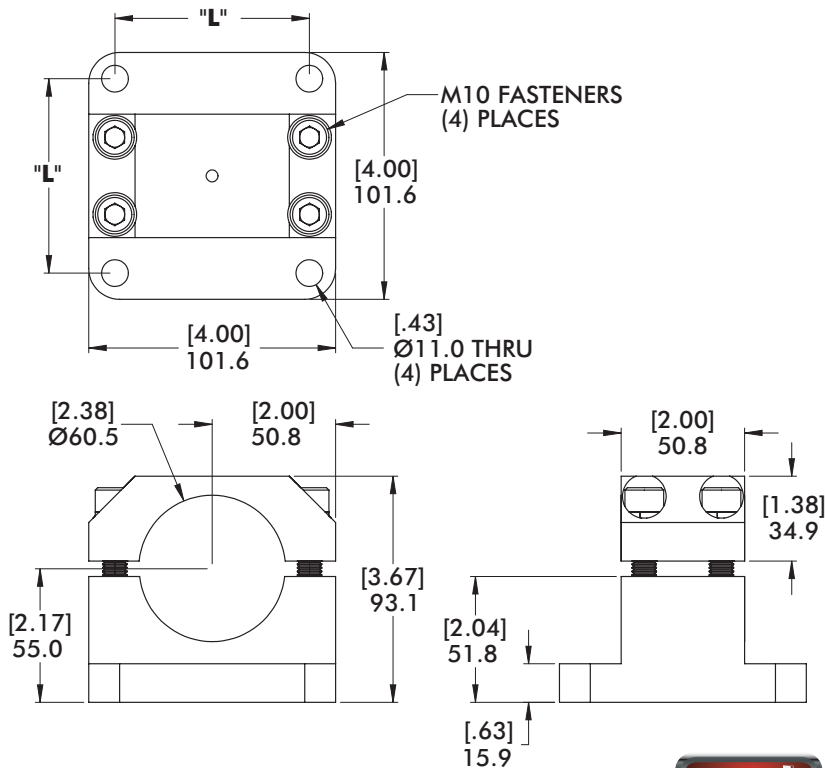
CL-xx-xxxF-90 Mid Flange Mount for Ø40mm/1.50" Tube



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

MODEL NUMBER	(Ø) "D"	WEIGHT
CPI-KL-40-60F-90	40mm	[1.09 lb] .49 kg
CPI-CL-15-238F-90	1.50"(in)	[1.11 lb] .50 kg

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



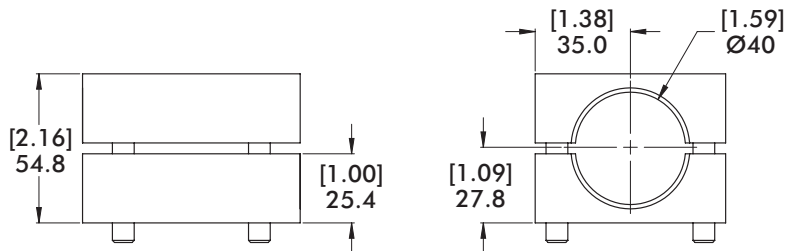
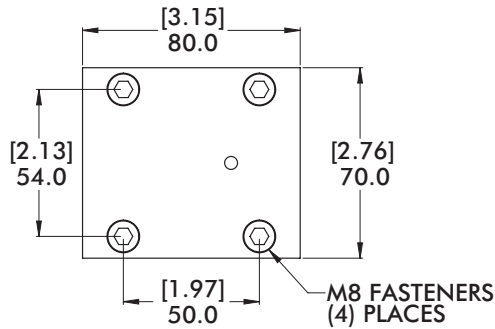
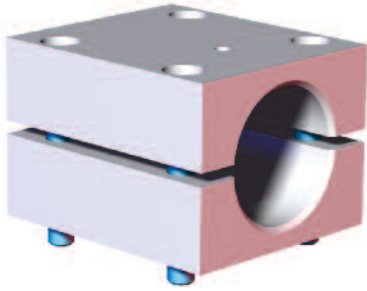
Specifications:
Max. Static Clamp Load:
675 N*m [500 ft-lb]
Material: Aluminum

MODEL NUMBER	"L"	WEIGHT
CPI-KL-60-78F-90	[3.07] 78	[2.24 lb] 1.02 kg
CPI-KL-60-80F-90	[3.15] 80	



Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

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



Specifications:

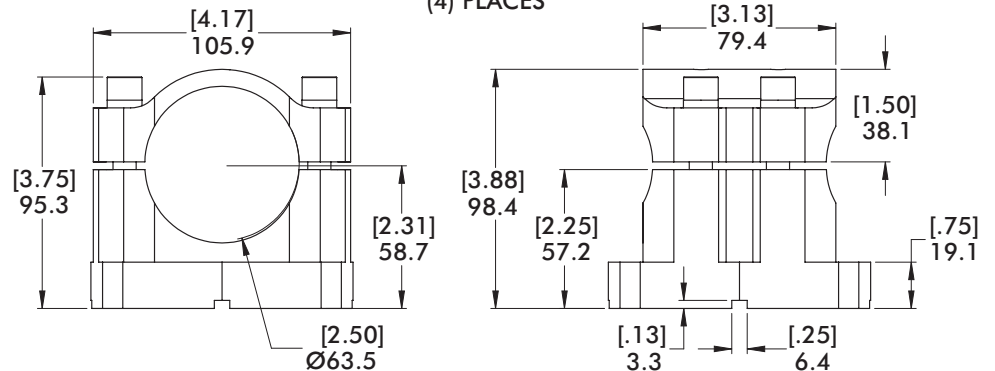
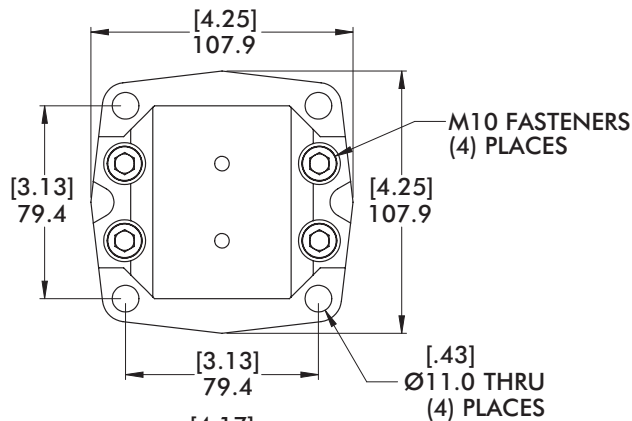
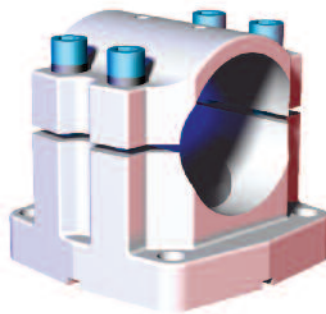
Max. Static Clamp Load:

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

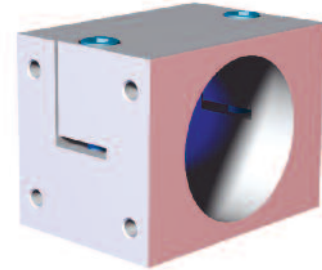
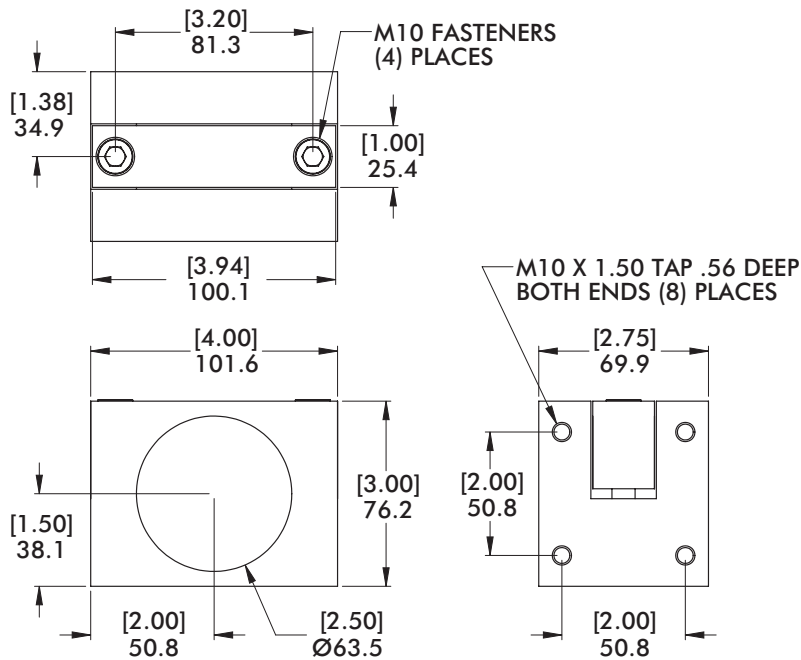


MODEL NUMBER	WEIGHT
CPI-CL-25-312F-90	[2.51 lb] 1.14 kg

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

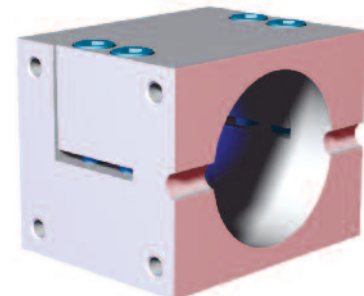
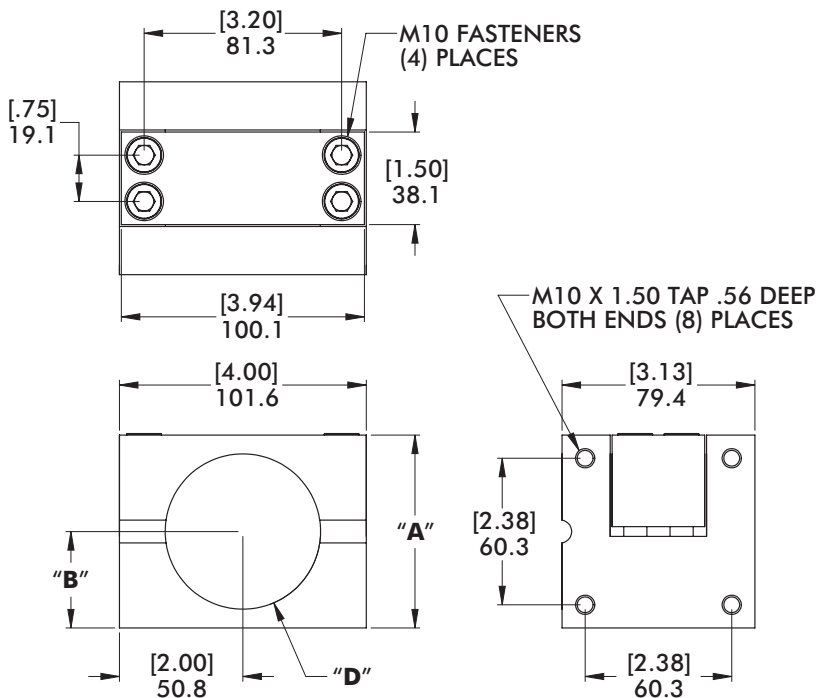
Direct Mount Brackets and Blocks

CL-25-DM-10F Ø2.50" Direct Mount Bracket for RDN-10 Housings



MODEL NUMBER	WEIGHT
CPI-CL-25-DM-10F	[1.89 lb] .86 kg

CL-xx-DM-xxF Ø60mm/2.50" Direct Mount Bracket for RDN-40 Housings

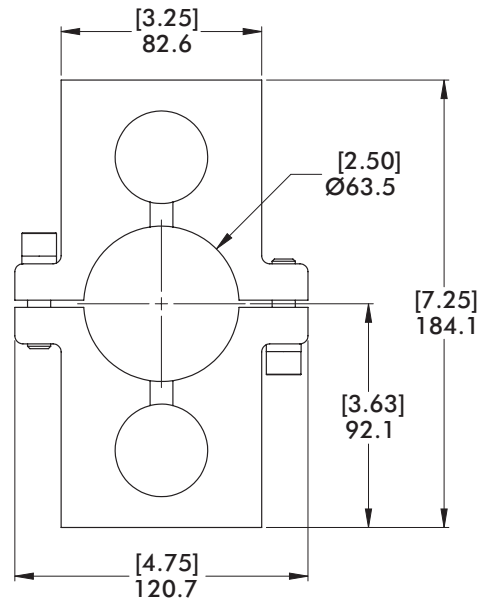
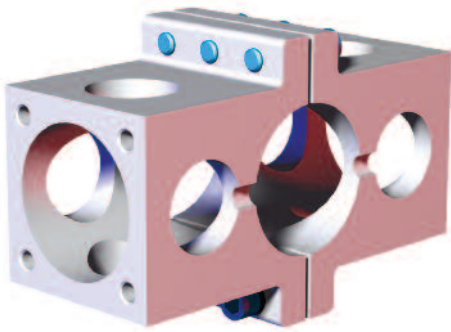
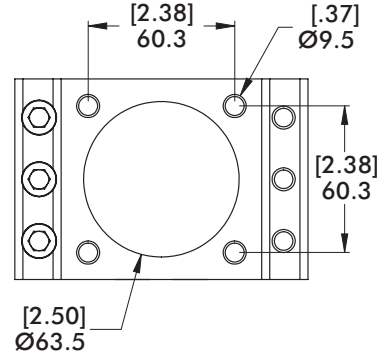
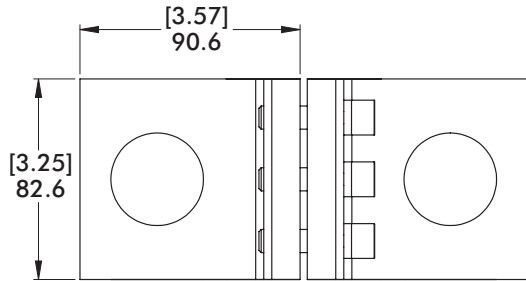


MODEL NUMBER	(Ø)"D"	A	B	WEIGHT
CPI-CL-60-DM-40F	60mm	[3.25] 82.6	[1.63] 41.3	[2.49 lb] 1.13 kg
CPI-CL-25-DM-15F	2.50"(in)	[3.13] 79.4	[1.58] 39.7	[2.36 lb] 1.07 kg

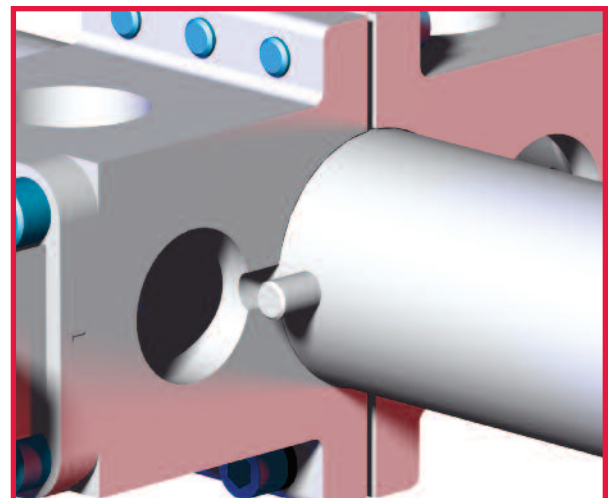
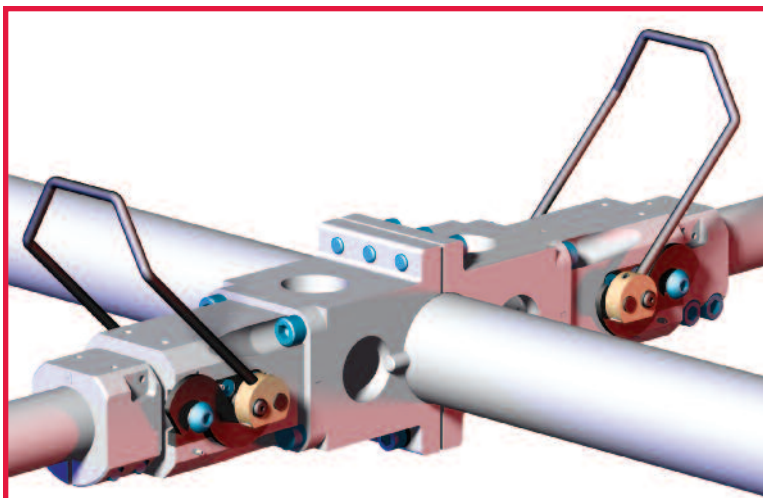
Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

Direct Mount Brackets and Blocks

CL-25EX-238F-90 Ø2.50" World Tool Direct Mount Bracket for RDN-40 Housings



MODEL NUMBER	WEIGHT
CPI-CL-25EX-238F-90	[3.64 lb] 1.65 kg



"CL" Direct Mount Brackets mounts flange style tool changer housings to both sides of boom.

CL-xx-DM-xxF/CL-25EX-238F-90 Direct Mount Brackets has slots, when engaged with dowels placed in the boom at assembly, helps prevent mounts from rotating during operation..

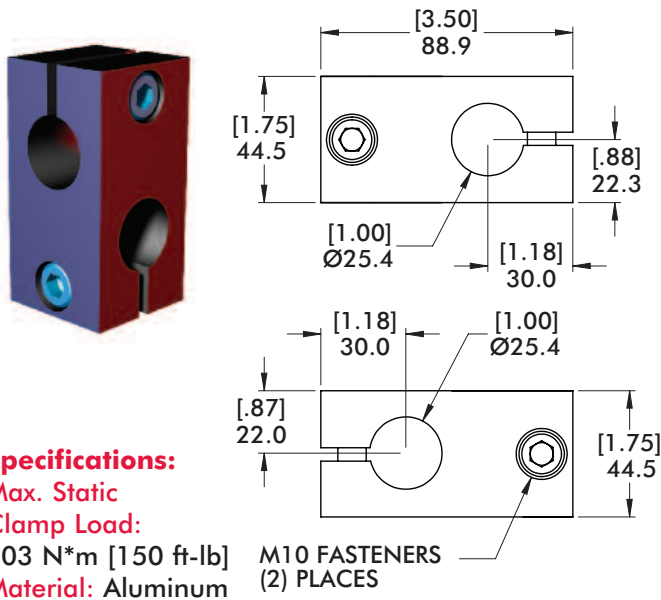
Round Tooling Components



Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

Cross Transition Brackets and Blocks

M1513 Ø1.00" to Ø1.00"

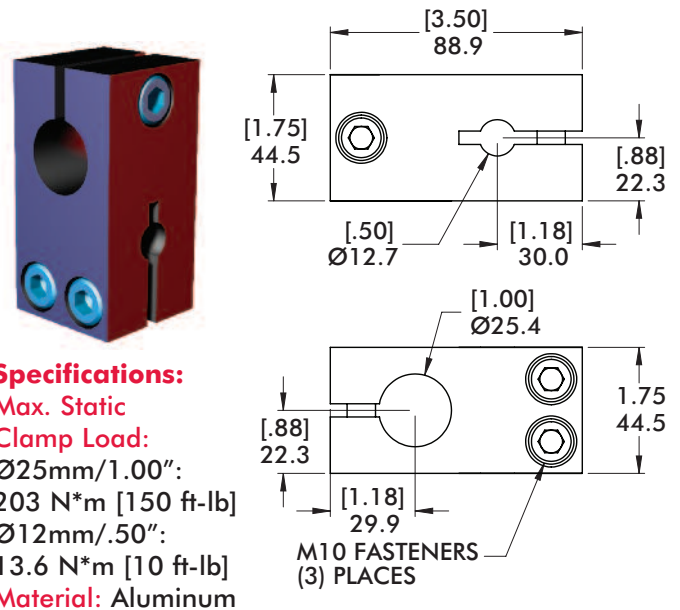


Specifications:
Max. Static
Clamp Load:
203 N*m [150 ft-lb]
Material: Aluminum

MODEL NUMBER	WEIGHT
M1513	[.82 lb] .37 kg



M1563 Ø1.00" to Ø.50"

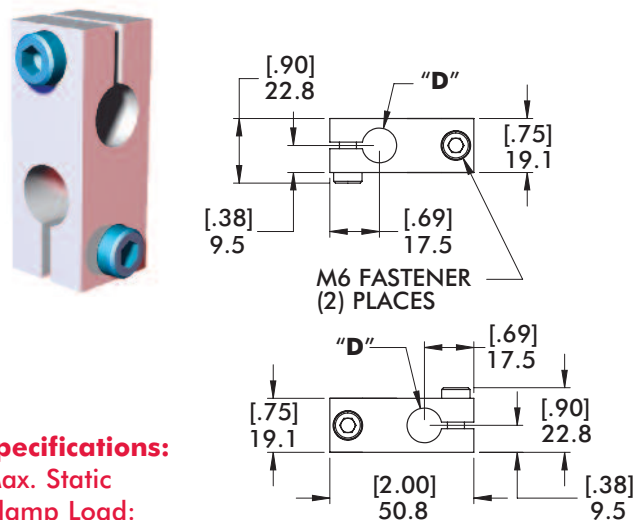


Specifications:
Max. Static
Clamp Load:
Ø25mm/1.00":
203 N*m [150 ft-lb]
Ø12mm/.50":
13.6 N*m [10 ft-lb]
Material: Aluminum

MODEL NUMBER	WEIGHT
M1563	[.94 lb] .43 kg



CLM Ø12mm/.50" to Ø12mm/.50"

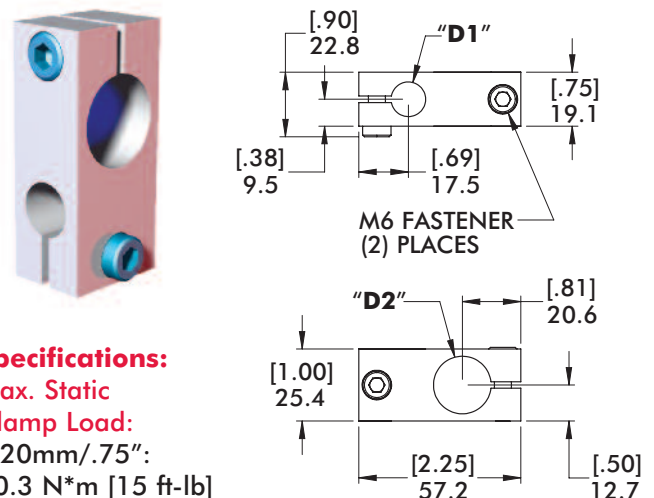


Specifications:
Max. Static
Clamp Load:
13.6 N*m [10 ft-lb]
Material: Aluminum



MODEL NUMBER	(Ø)"D"	WEIGHT
CPI-CLM-12M-12M	12mm	[.10 lb] .05 kg
CPI-CLM-50-50	.50"(in)	

CLM Ø20mm/.75" to Ø12mm/.50"



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

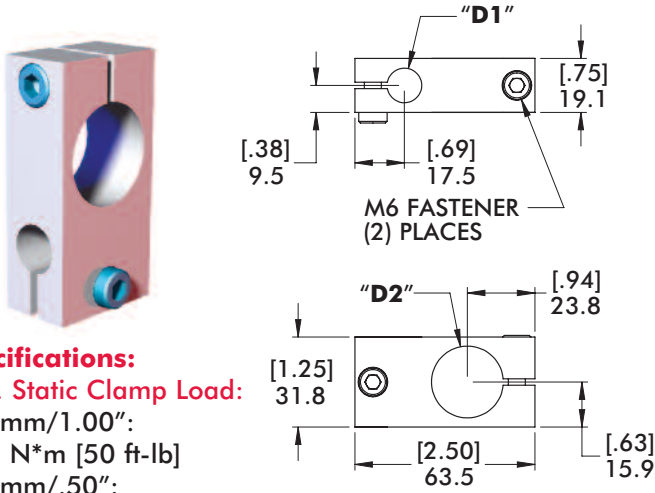


MODEL NUMBER	(Ø)"D1"	(Ø)"D2"	WEIGHT
CPI-CLM-20M-12M	12mm	20mm	[13 lb] .06 kg
CPI-CLM-75-50	.50"(in)	.75 in	

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

Cross Transition Bracket 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":

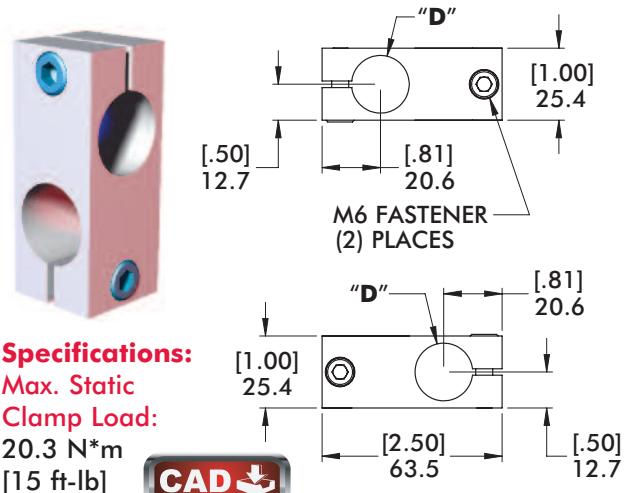
13.6 N*m [10 ft-lb]

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:

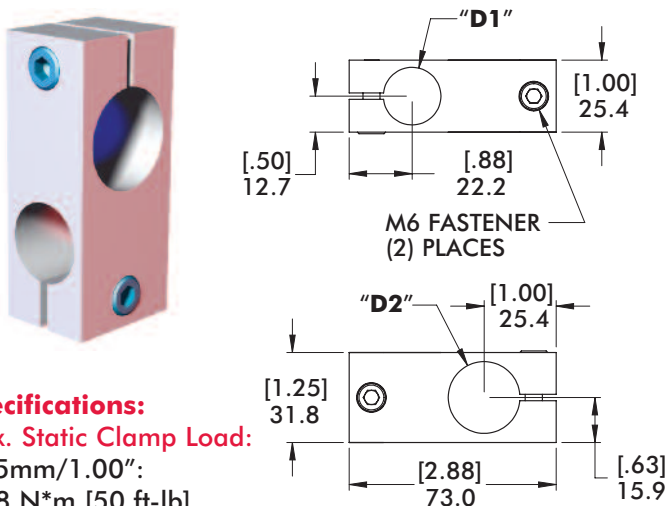
20.3 N*m

[15 ft-lb]



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

CLM Ø25mm/1.00" to Ø20mm/.75"



Specifications:

Max. Static Clamp Load:

Ø25mm/1.00":

67.8 N*m [50 ft-lb]

Ø20mm/.75":

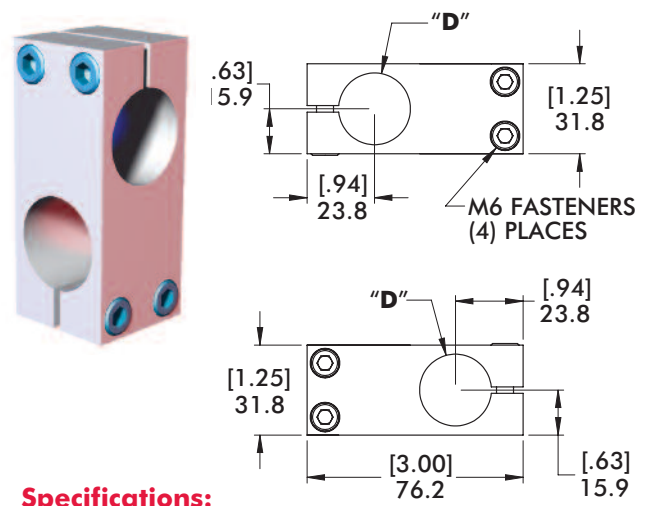
20.3 N*m [15 ft-lb]

Material: Aluminum



MODEL NUMBER	(Ø)"D1"	(Ø)"D2"	WEIGHT
CPI-CLM-25M-20M	20mm	25mm	[.23 lb] .11 kg
CPI-CLM-10-75	.75"(in)	1.00"(in)	

CLM Ø25mm/1.00" to Ø25mm/1.00"



Specifications:

Max. Static Clamp Load:

67.8 N*m [50 ft-lb]

Material: Aluminum

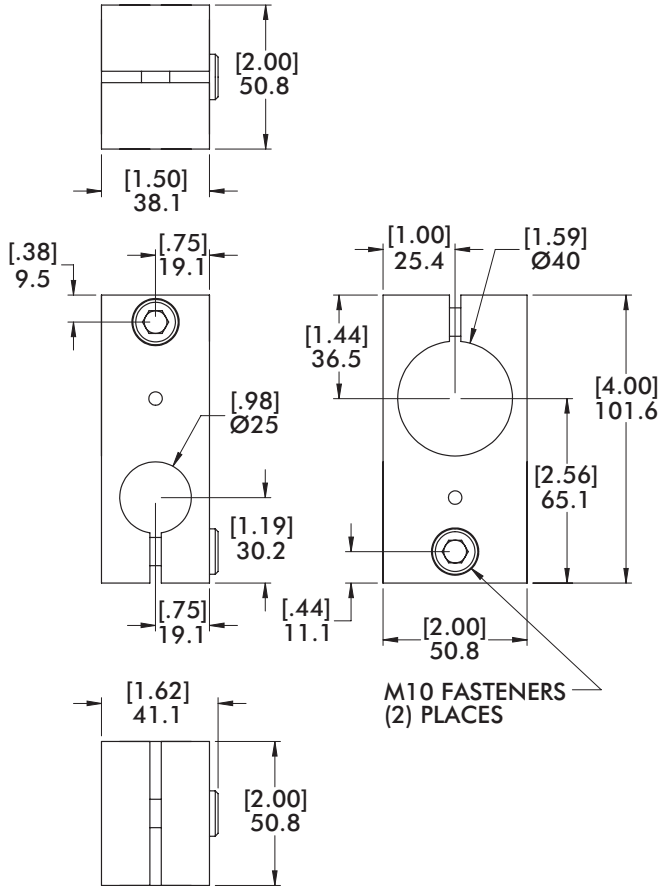


MODEL NUMBER	(Ø)"D"	WEIGHT
CPI-CLM-25M-25M	25mm	[.31 lb] .14 kg
CPI-CLM-10-10	1.00"(in)	

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

Cross Transition Brackets and Blocks

SC-25-40 Ø40mm to Ø25mm (Single Bolt)



Specifications:

Max. Static Clamp Load:

Ø25mm:
162 N*m [120 ft-lb]

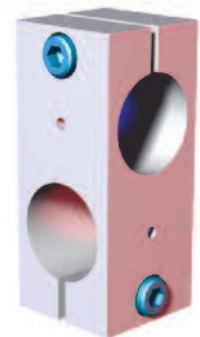
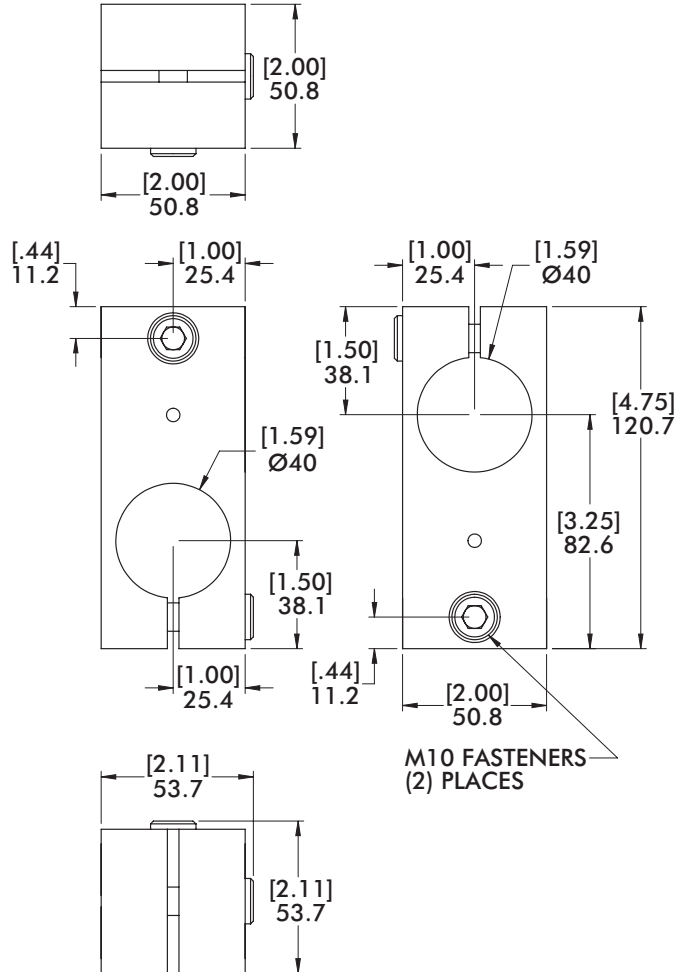
Ø40mm:
271 N*m [200 ft-lb]

Material: Aluminum



MODEL NUMBER	WEIGHT
CPI-SC-25-40	[.78 lb] .36 kg

SC-40-40 Ø40mm to Ø40mm (Single Bolt)



Specifications:

Max. Static Clamp Load:

Ø40mm:
271 N*m [200 ft-lb]

Material: Aluminum



MODEL NUMBER	WEIGHT
CPI-SC-40-40	[1.14 lb] .52 kg

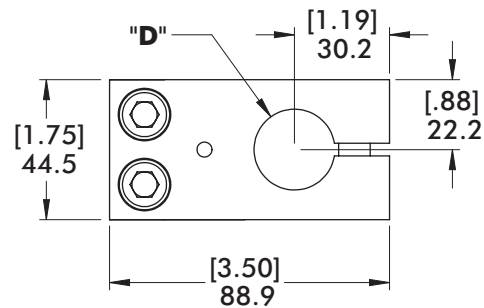
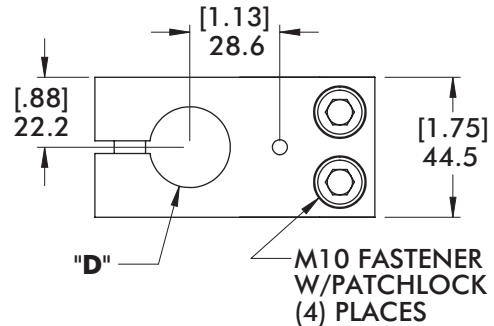
Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

Cross Transition Brackets and Blocks

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



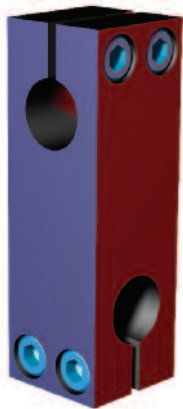
Specifications:
Max. Static Clamp Load:
Ø25mm/1.00":
434 N*m [320 ft-lb]
Material: Aluminum



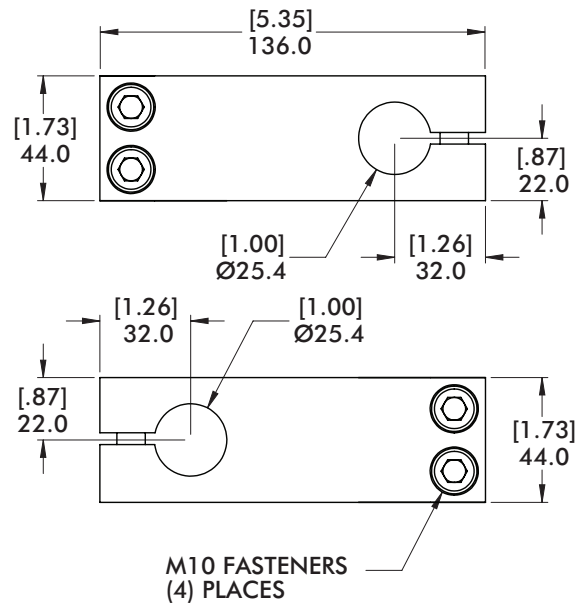
MODEL NUMBER	(Ø)"D"	WEIGHT	FINISH
M-25M-25M-M	25mm	[.93 lb] .42 kg	BLUE
M-10E-10E-M	1.00"(in)		BLACK

M-1584

Ø1.00" to Ø1.00" (Double Bolt)



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

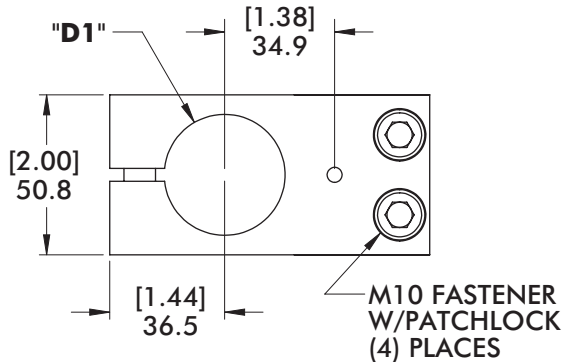


MODEL NUMBER	WEIGHT
M1584	[1.43 lb] .65 kg

Nominal (Ø) given.
See chart on Page 15
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:

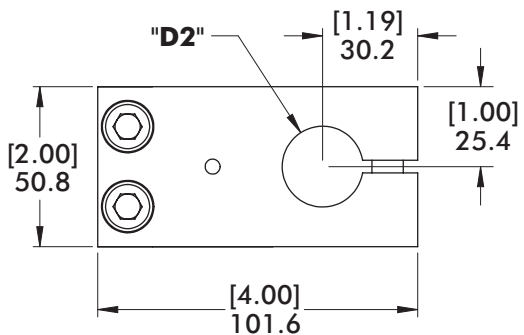
Ø25mm/1.00":

434 N*m [320 ft-lb]

Ø40mm/1.50":

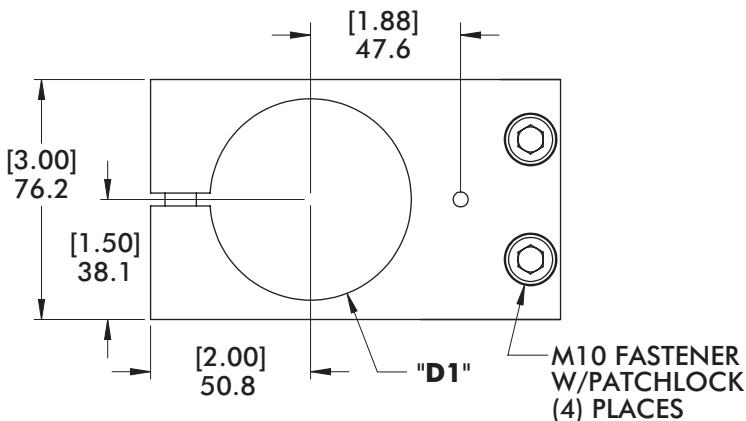
624 N*m [460 ft-lb]

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:

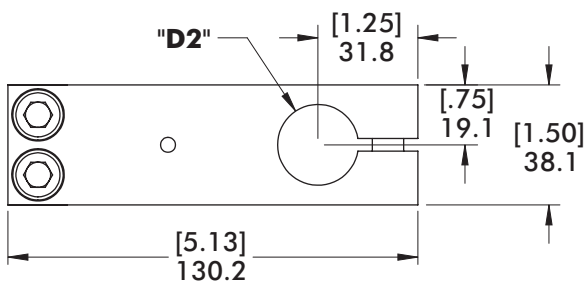
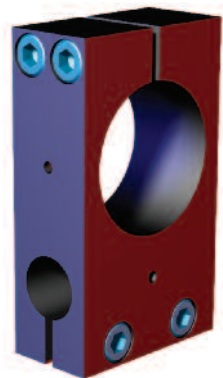
Ø25mm/1.00":

434 N*m [320 ft-lb]

Ø60mm/2.50":

813 N*m [600 ft-lb]

Material: Aluminum

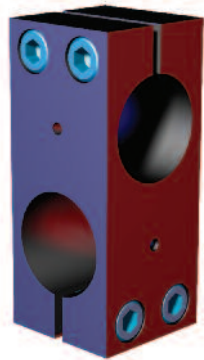


MODEL NUMBER	(Ø)"D1"	(Ø)"D2"	WEIGHT	FINISH
M-25M-60M-M	60mm	25mm	[1.52 lb] .69 kg	BLUE
M-10E-25E-M	2.50"(in)	1.00"(in)	[1.44 lb] .65 kg	BLACK

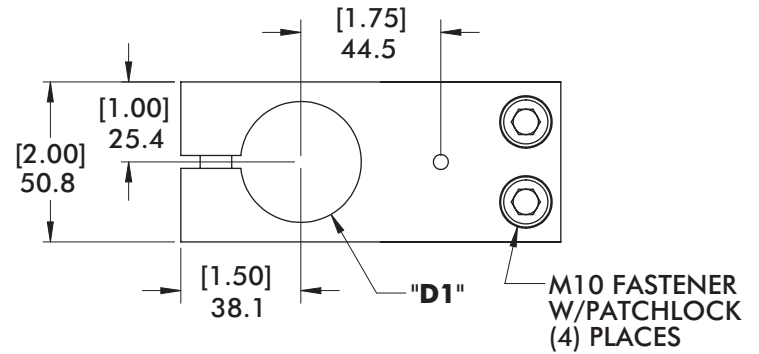
Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

Cross Transition Brackets and Blocks

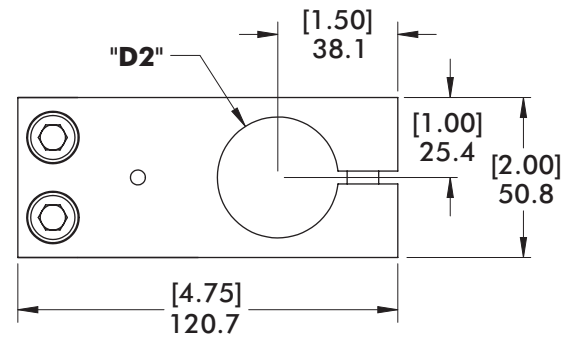
M-xxx-xxx-M Ø40mm/1.25"/1.50" to Ø40mm/1.25"/1.50" (Double Bolt)



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



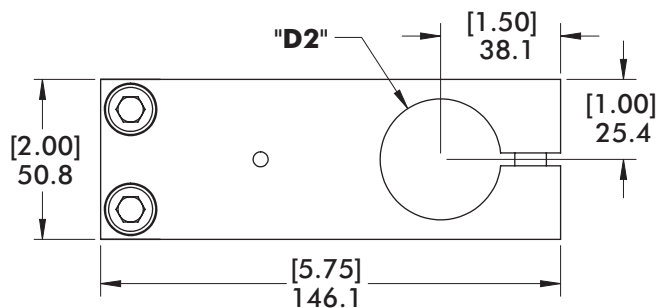
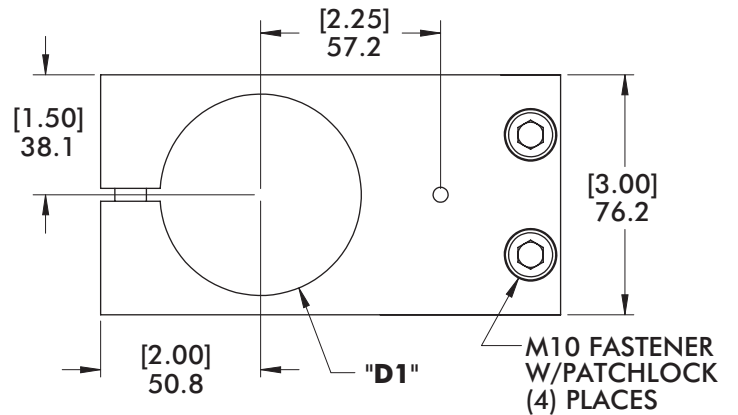
MODEL NUMBER	(Ø)"D1"	(Ø)"D2"	WEIGHT	FINISH
M-12E-12E-M	1.25"(in)	1.25"(in)	[1.51 lb] .69 kg	BLACK
M-12E-15E-M	1.25"(in)	1.50"(in)	[1.41 lb] .64 kg	BLACK
M-15E-15E-M	1.50"(in)	1.50"(in)	[1.31 lb] .59 kg	BLACK
M-40M-40M-M	40mm	40mm	[1.23 lb] .56 kg	BLUE



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



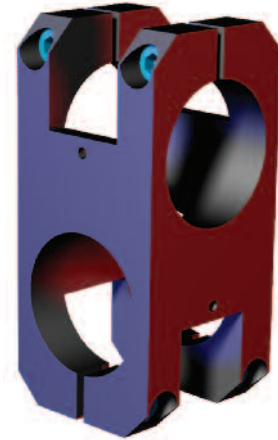
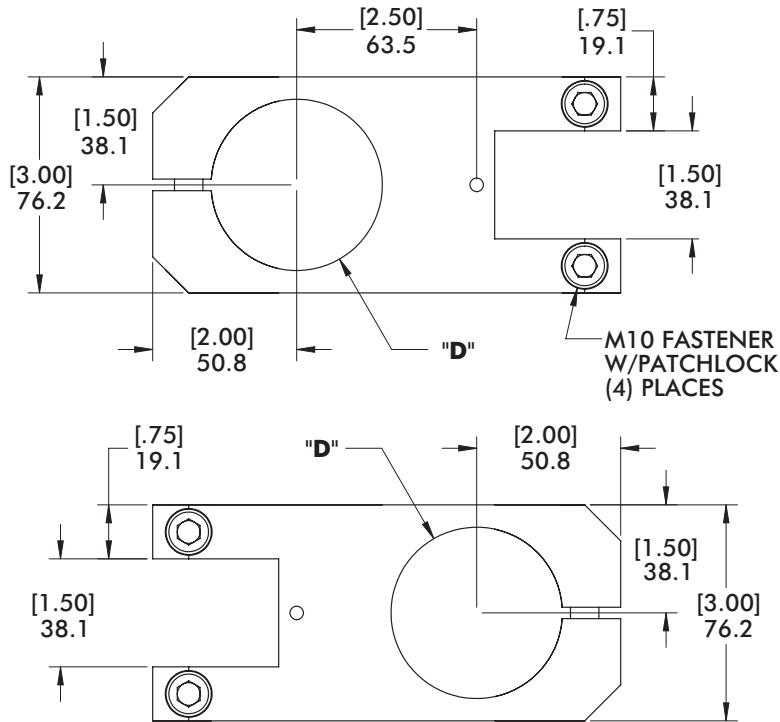
MODEL NUMBER	(Ø)"D1"	(Ø)"D2"	WEIGHT	FINISH
M-40M-60M-M	60mm	40mm	[2.08 lb] .95 kg	BLUE
M-15E-25E-M	2.50"(in)	1.50"(in)		BLACK



Nominal (Ø) given.
See chart on Page 15
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



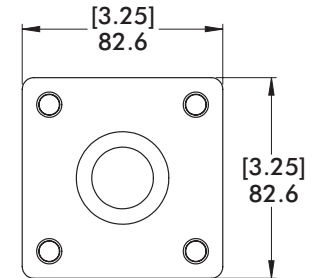
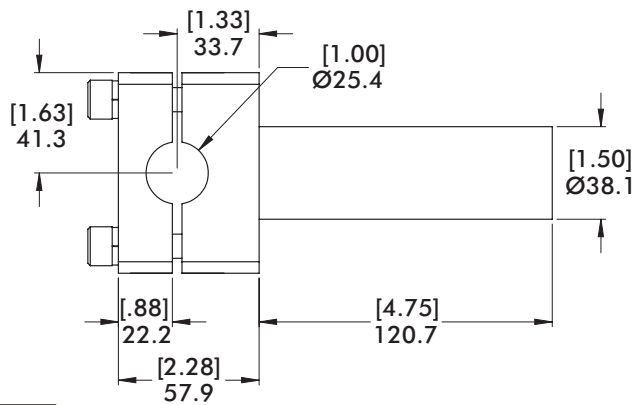
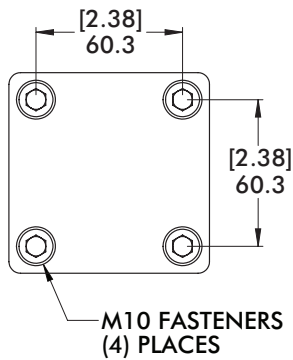
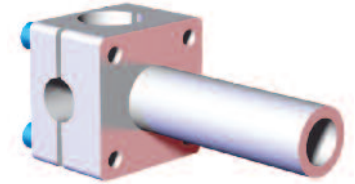
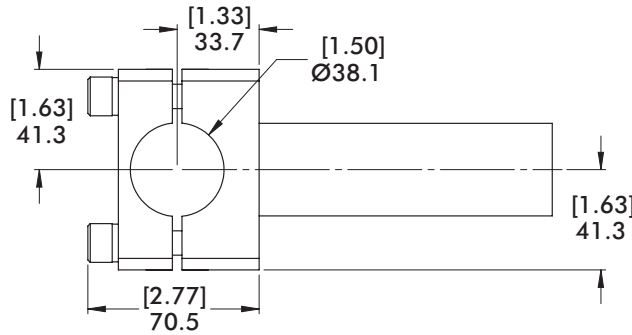
MODEL NUMBER	(Ø)"D"	WEIGHT	FINISH
M-60M-60M-M	60mm	[2.07 lb] .94 kg	BLUE
M-25E-25E-M	2.50"(in)	[2.03 lb] .92 kg	BLACK

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

T-Clamp Transition Brackets and Blocks

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

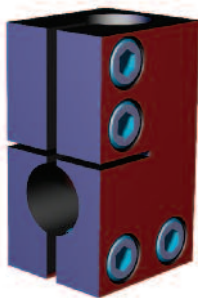
Specifications:
Max. Static Clamp Load:
Ø1.50":
271 N*m [200 ft-lb]
Ø1.00":
203 N*m [150 ft-lb]
Material: Aluminum



MODEL NUMBER	WEIGHT
CPI-TA15E-1015-M	[1.02 lb] 1.24 kg



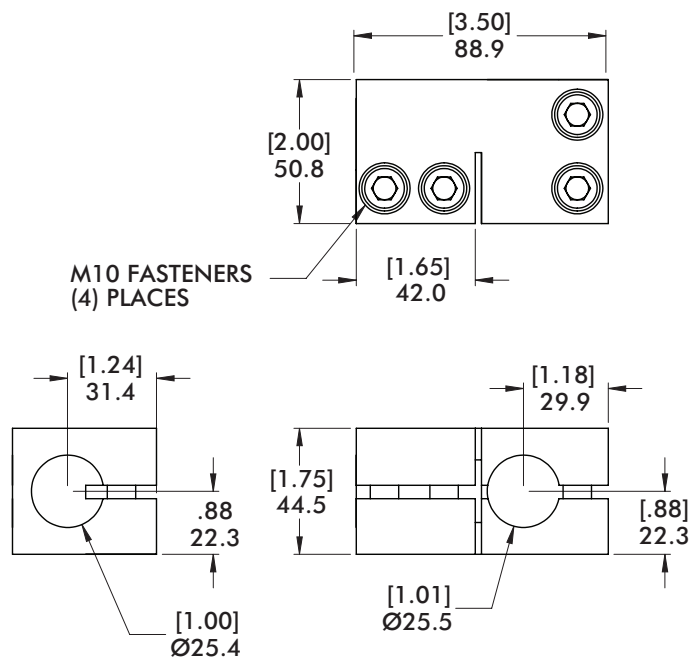
M1519 Ø1.00" to Ø1.00" (Double-Bolt)



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



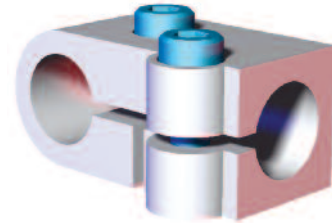
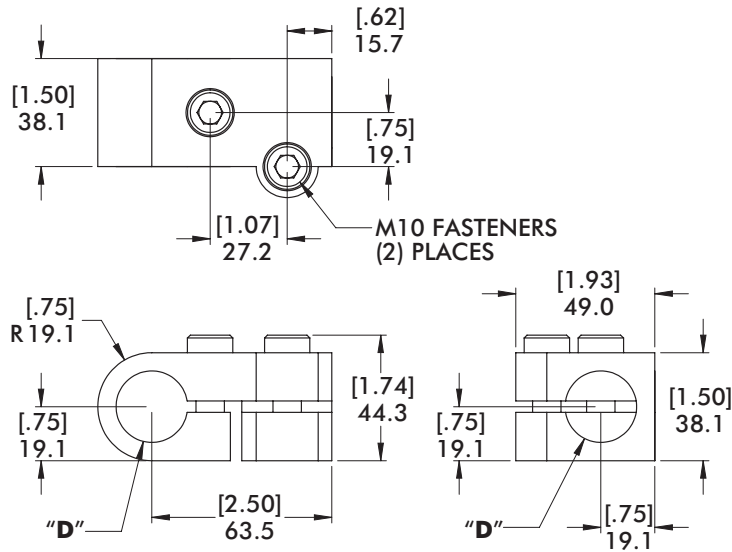
MODEL NUMBER	WEIGHT
M-1519	[1.02 lb] .46 kg



T-Clamp Transition Brackets and Blocks

TCA Ø25mm/1.00" to Ø25mm/1.00"

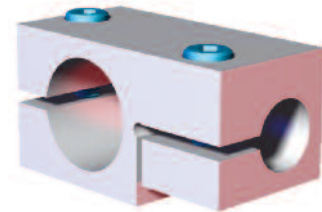
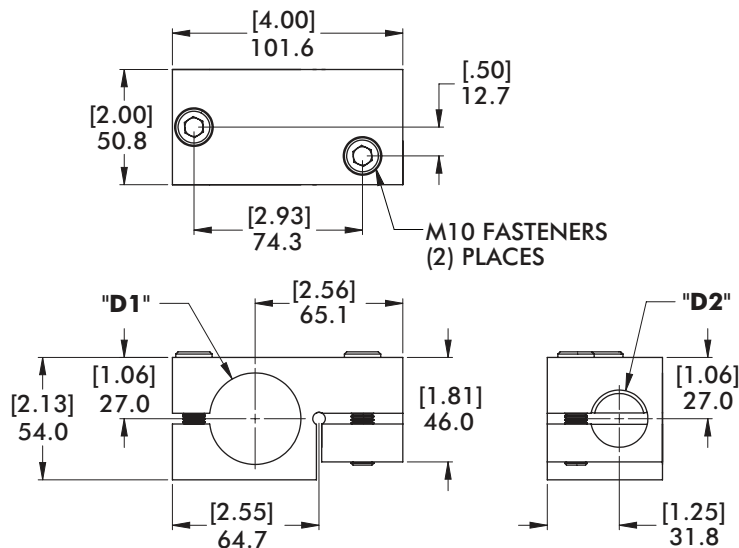
Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.



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

MODEL NUMBER	(Ø)"D"	WEIGHT
CPI-TCA-25-25	25mm	[.58 lb] .26 kg
CPI-TCA10-10	1.00"(in)	

TCA Ø25mm/1.00" to Ø40mm/1.50"



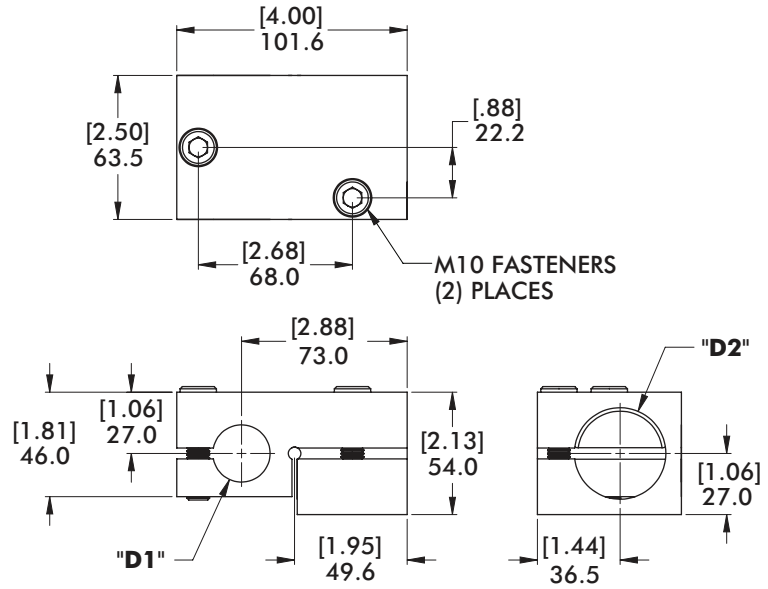
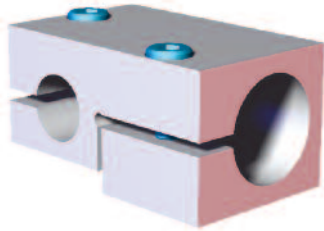
Specifications:
Max. Static Clamp Load:
Ø40mm:
271 N*m [200 ft-lb]
Ø25mm/1.00":
200 N*m [150 ft-lb]
Material: Aluminum

MODEL NUMBER	(Ø)"D1"	(Ø)"D2"	WEIGHT
CPI-TCA-25-40	40mm	25mm	[1.12 lb] .51 kg
CPI-TCA-10-15	1.50"(in)	1.00"(in)	

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

T-Clamp Transition Brackets and Blocks

TCA Ø40mm/1.50" to Ø40mm/1.50"



Specifications:

Max. Static Clamp Load:

Ø40mm:

271 N*m [200 ft-lb]

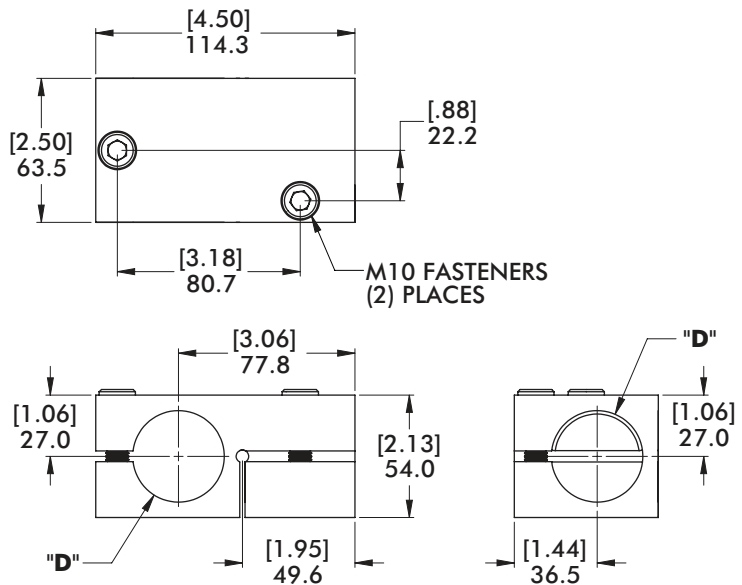
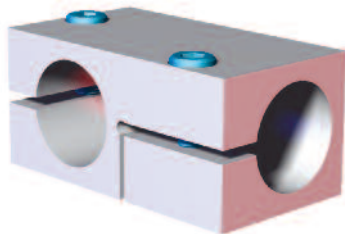
Ø25mm/1.00":

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:

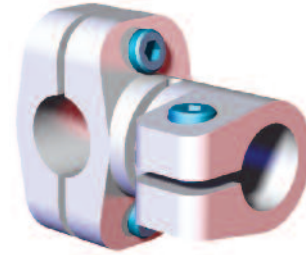
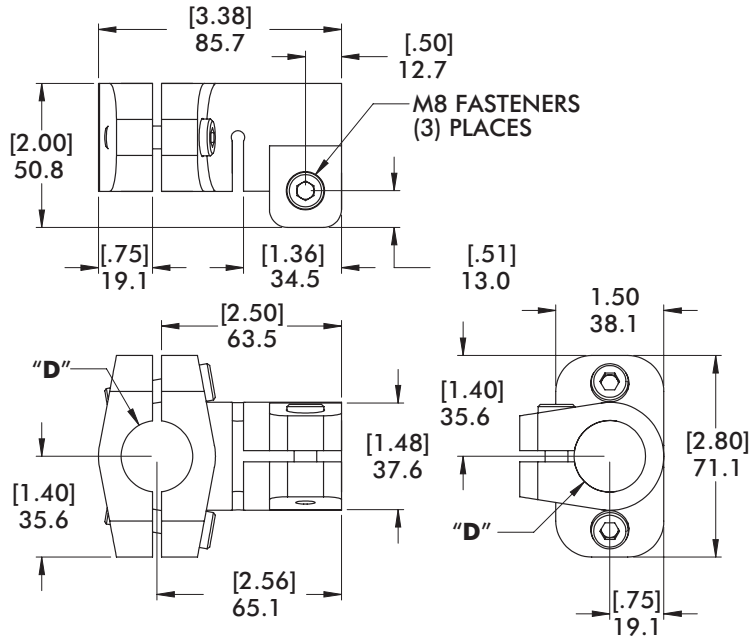
271 N*m [200 ft-lb]

Material: Aluminum

MODEL NUMBER	(Ø)"D"	WEIGHT
CPI-TCA-40-40	40mm	[1.51 lb] .68 kg
CPI-TCA-15-15	1.50"(in)	

T-Clamp Transition Brackets and Blocks TCA Ø25mm/1.00" to Ø25mm/1.00" for Crossbar Tooling

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

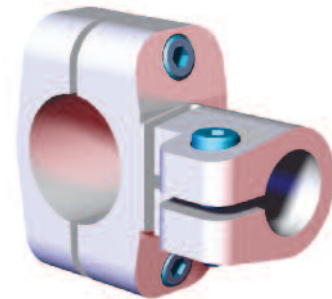
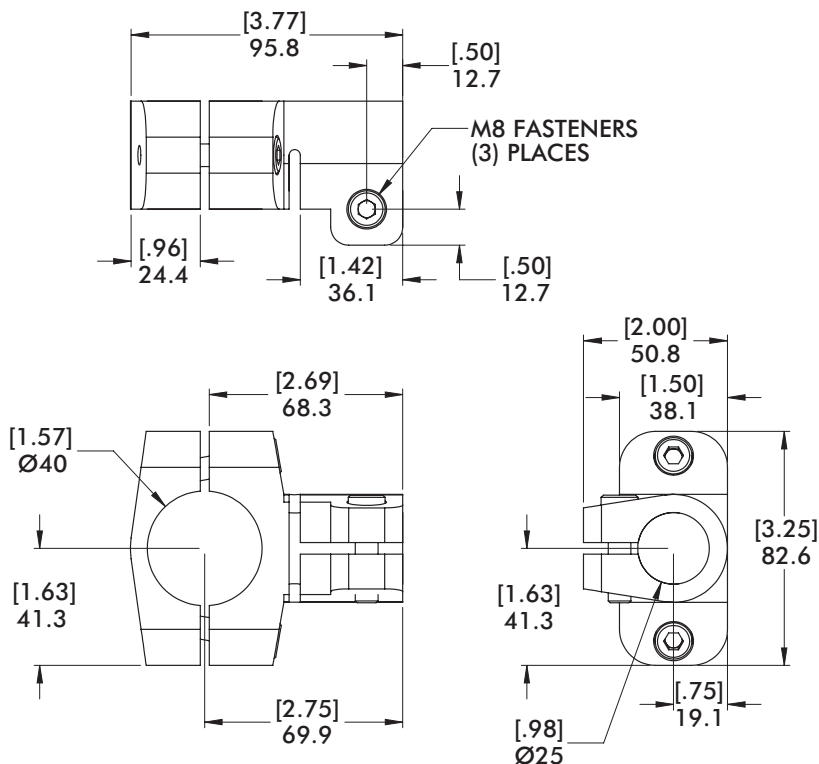


Specifications:
Max. Static Clamp Load:
203 N*m [150 ft-lb]
Material: Aluminum



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

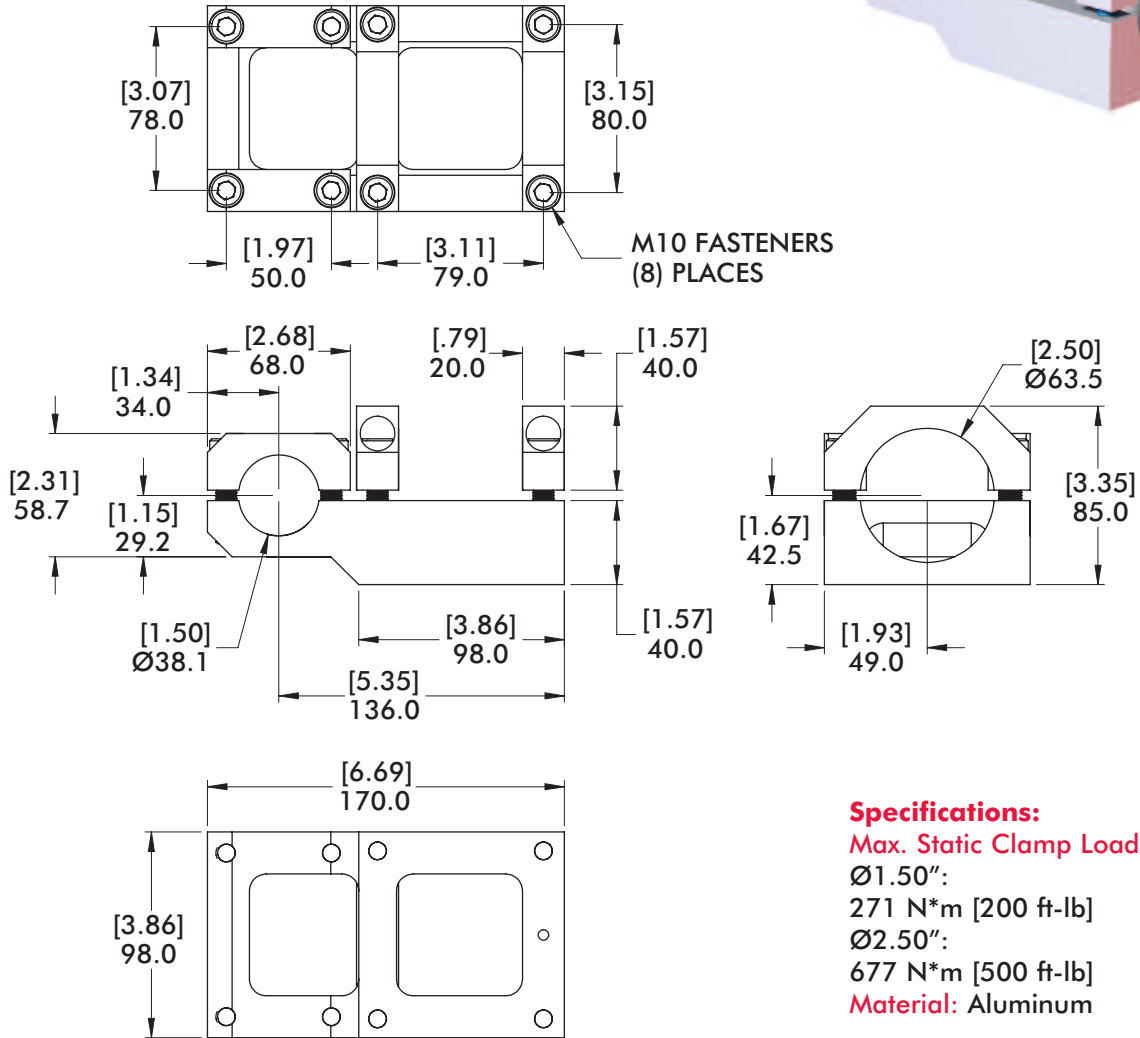
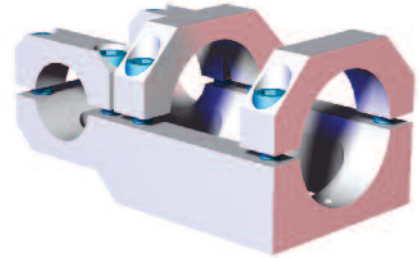


MODEL NUMBER	WEIGHT
CPI-TCA-25-40-SGM	[.90 lb] .41 kg

T-Clamp Transition Brackets and Blocks

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

Nominal (Ø) given.
See chart on Page 15
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

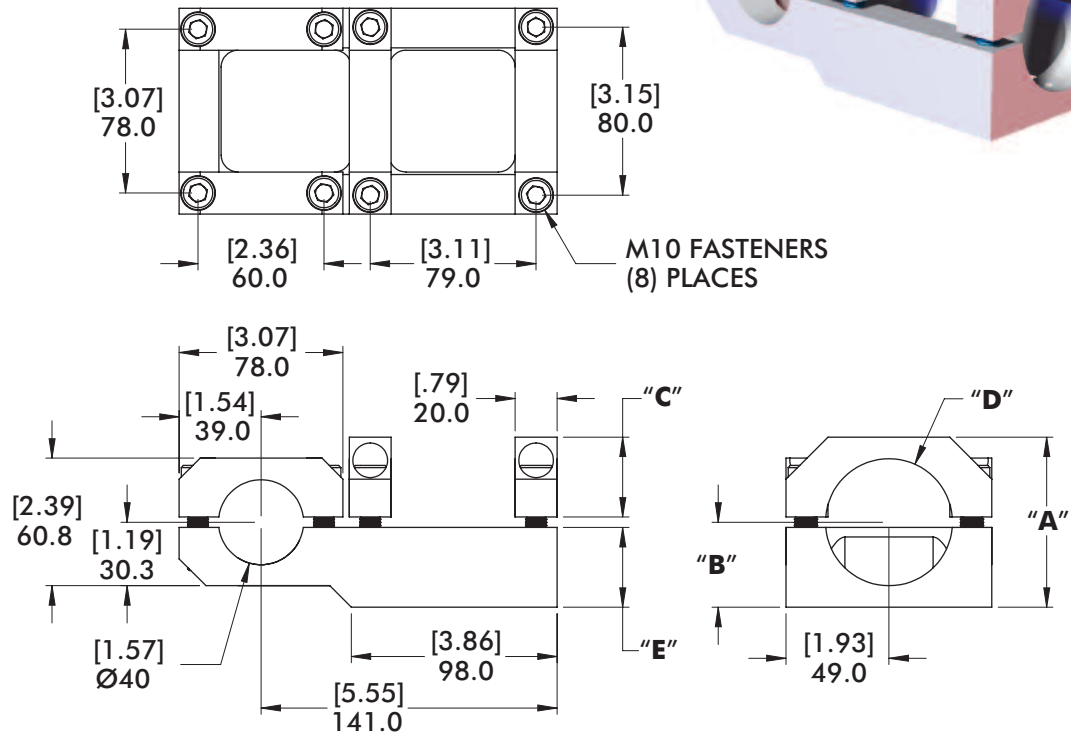
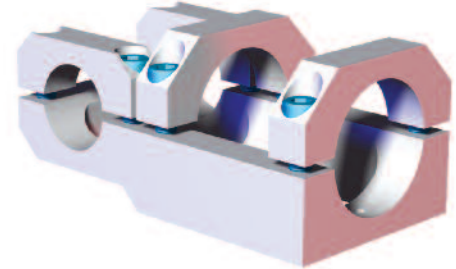


MODEL NUMBER	WEIGHT
CPI-TCA-250-150	[2.76 lb] 1.25 kg

Nominal (Ø) given.
See chart on Page 15
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

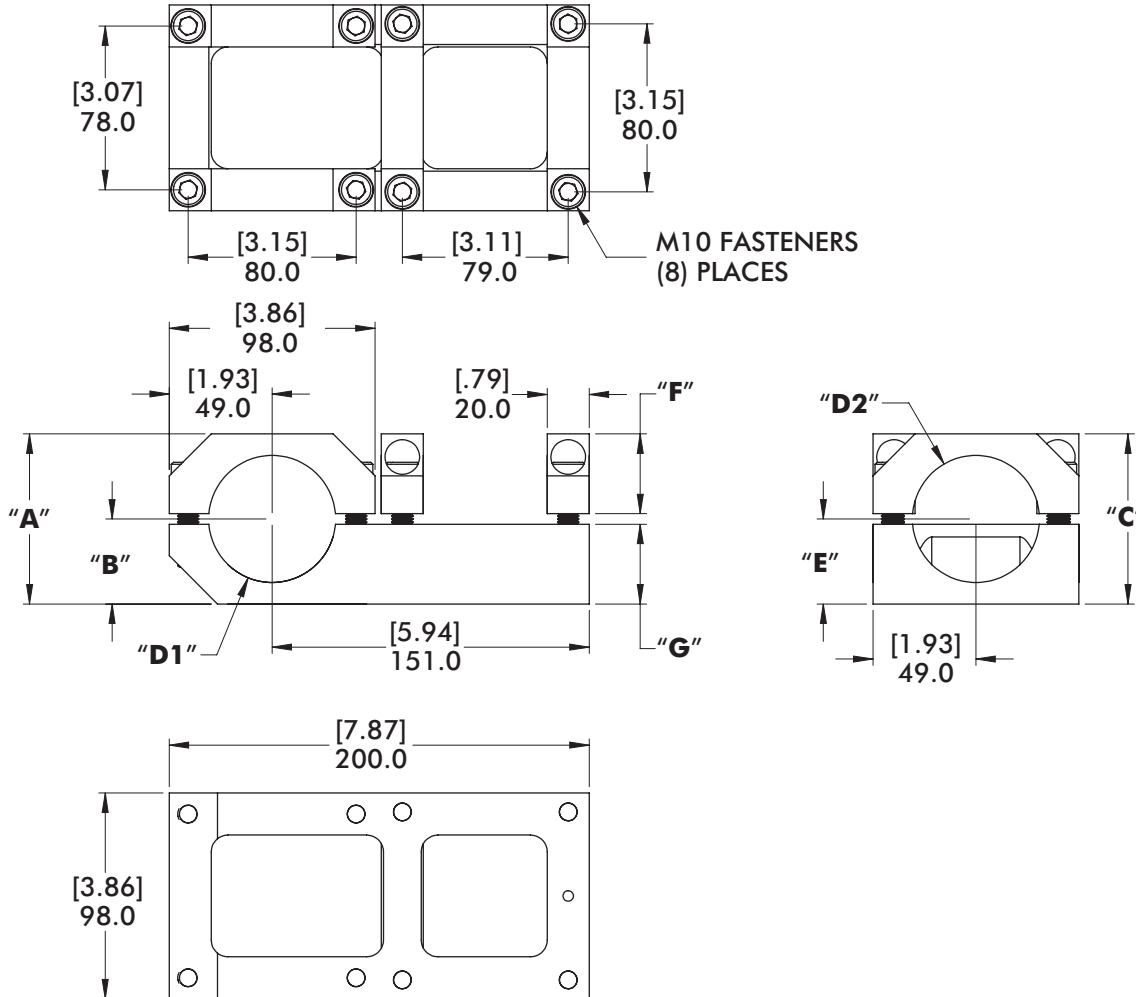


MODEL NUMBER	(Ø)"D"	"A"	"B"	"C"	"E"	WEIGHT
CPI-TCA-60M-40M	60mm	[3.19] 81.0	[1.59] 40.5	[1.50] 38.0	[1.50] 38.0	[2.89 lb] 1.31 kg
CPI-TCA-250-40M	2.50"(in)	[3.35] 85.0	[1.67] 42.5	[1.57] 40.0	[1.57] 40.0	[2.90 lb] 1.32 kg

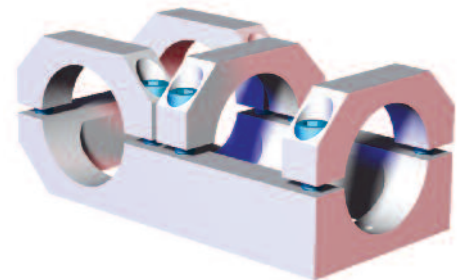
Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

T-Clamp Transition Brackets and Blocks

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



M10 FASTENERS
(8) PLACES



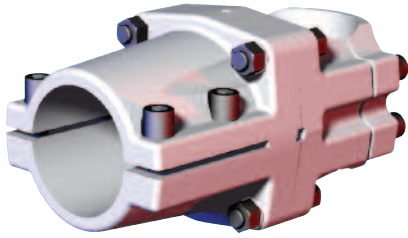
Specifications:
Max. Static Clamp Load:
813 N*m [600 ft-lb]
Material: Aluminum

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	

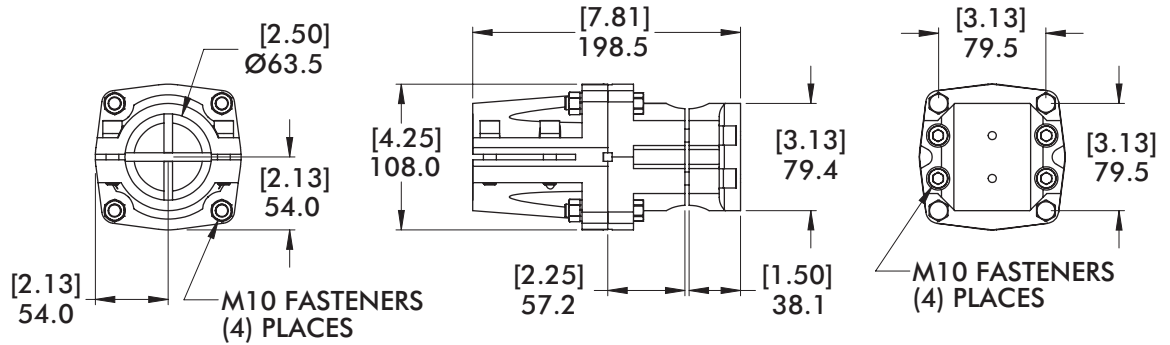
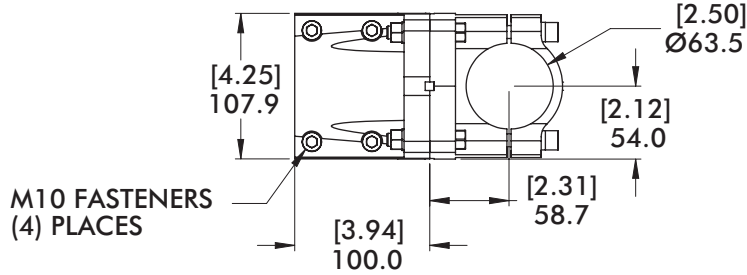
Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

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

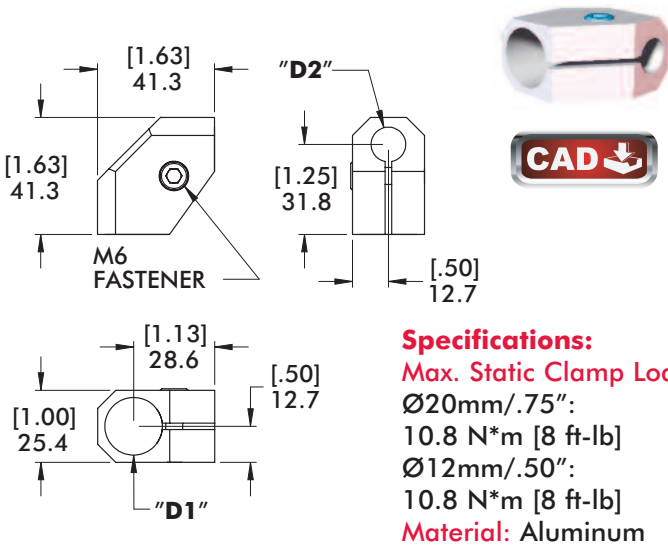


MODEL NUMBER	WEIGHT
CPI-HD-250-BBF	[5.56 lb] 2.52 kg

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

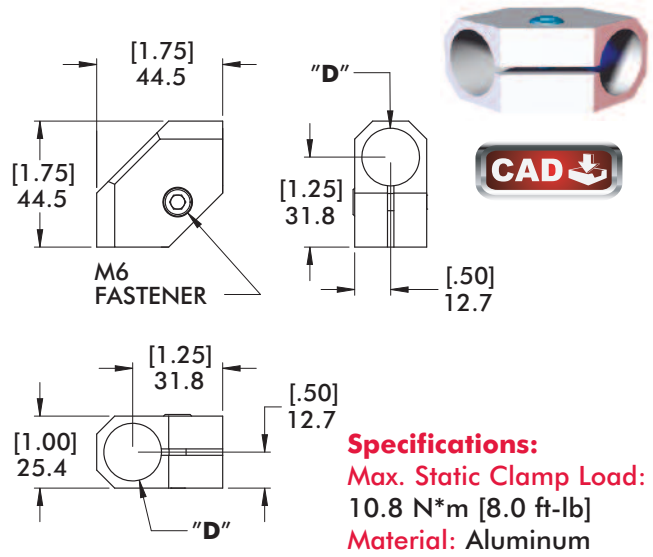
Low-Profile Wrist Brackets and Blocks

SECM Ø20mm/.75" to Ø12mm/.50"



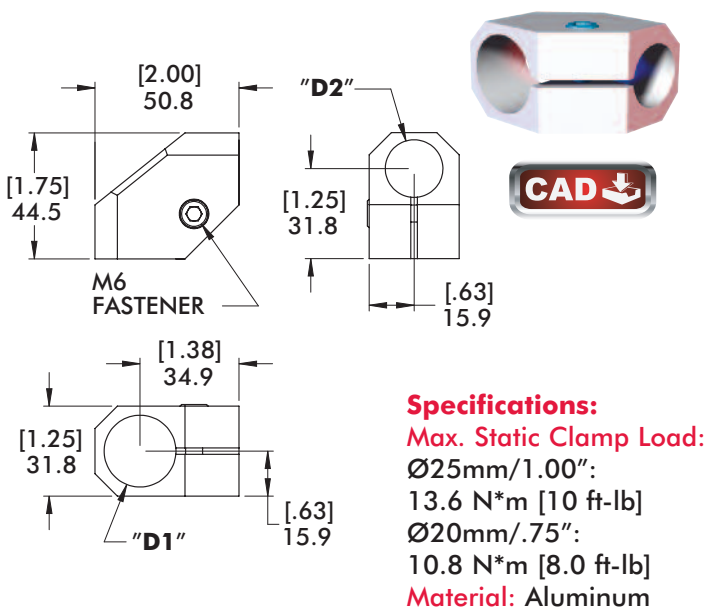
MODEL NUMBER	(Ø)"D1"	(Ø)"D2"	WEIGHT
CPI-SECM-2012M	12mm	20mm	[.12 lb] .05 kg
CPI-SECM-7550	.50"(in)	.75"(in)	

SECM Ø20mm/.75" to Ø20mm/.75"



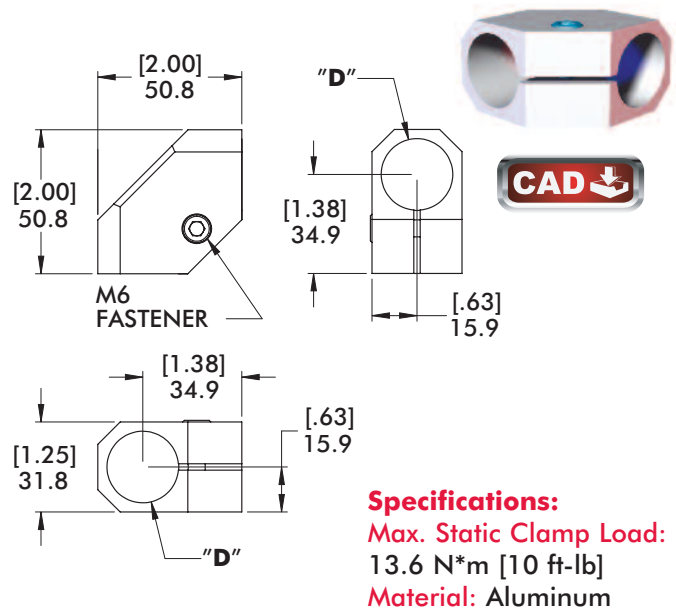
MODEL NUMBER	(Ø)"D"	WEIGHT
CPI-SECM-2020M	20mm	[.12 lb] .06 kg
CPI-SECM-7575	.75"(in)	

SECM Ø25mm/1.00" to Ø20mm/.75"



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

SECM Ø25mm/1.00" to Ø25mm/1.00"



MODEL NUMBER	(Ø)"D"	WEIGHT
CPI-SECM-2525M	25mm	[.17 lb] .08 kg
CPI-SECM-1010	1.00"(in)	

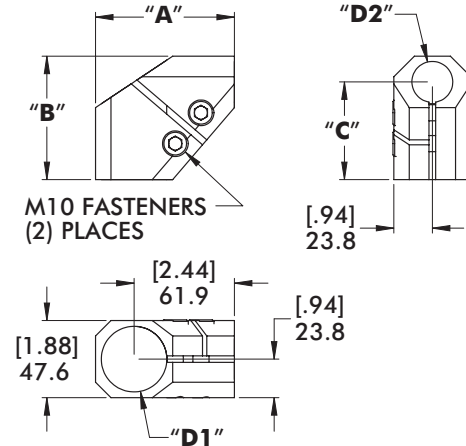
Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

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

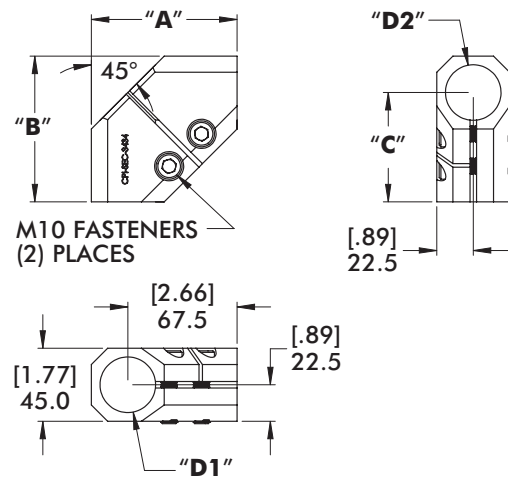


MODEL NUMBER	(Ø)"D1"	(Ø)"D2"	"A"	"B"	"C"	"E"	WEIGHT
CPI-SEC-1510	1.50"(in)	1.00"(in)	[3.25] 82.6	[2.38] 60.3	[1.75] 44.5	[.88] 22.2	[.67 lb] .31 kg
CPI-SLK-4025	40mm	25mm	[3.38] 85.7	[2.44] 61.9	[1.88] 47.6	[.94] 23.8	[.77 lb] .35 kg

SEC/SLK Ø34mm to Ø25mm/34mm



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

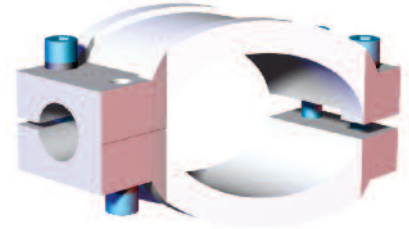
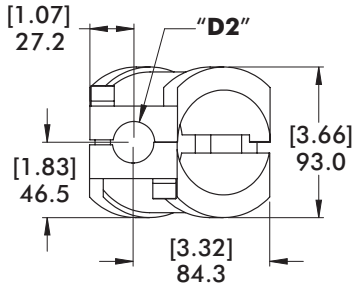
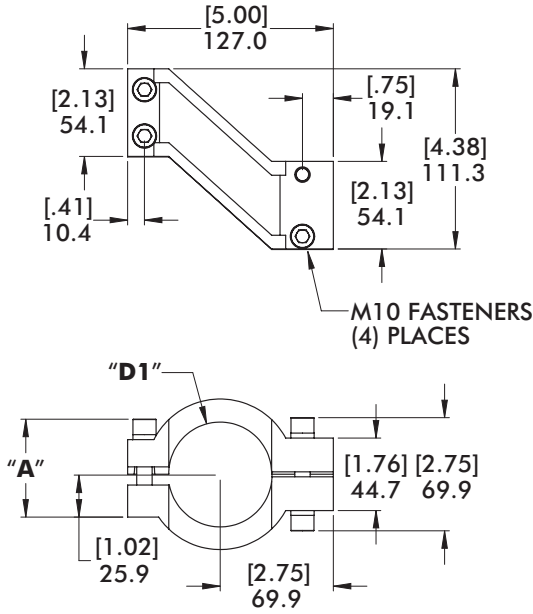


MODEL NUMBER	(Ø)"D1"	(Ø)"D2"	"A"	"B"	"C"	WEIGHT
CPI-SEC-3425	25mm	34mm	[3.37] 85.5	[3.17] 80.5	[2.28] 58.0	[.84 lb] .38 kg
CPI-SEC-3434	34mm	34mm	[3.54] 90.0	[3.54] 90.0	[2.66] 67.5	[.90 lb] .41 kg

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

Low-Profile Wrist Brackets and Blocks

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

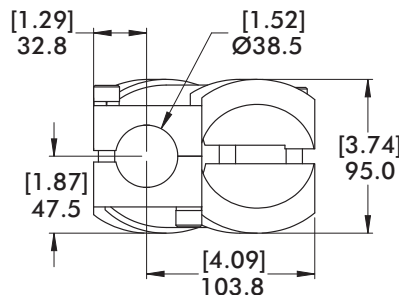
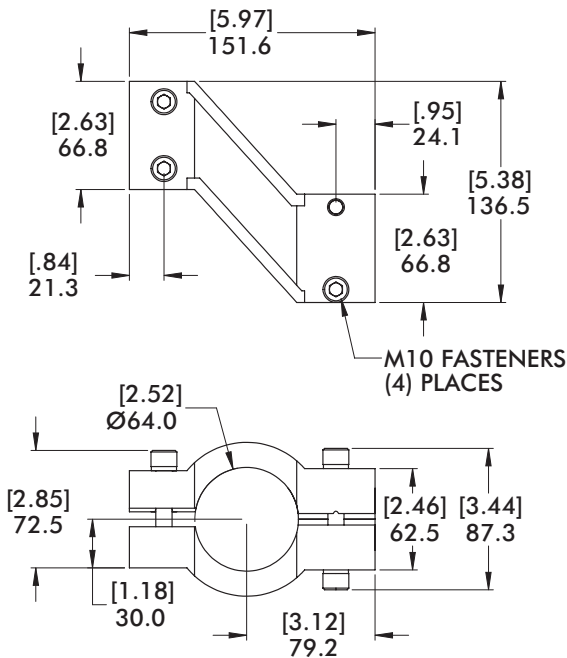


Specifications:
Max. Static Clamp Load:
Ø25mm/1.00":
149 N*m [110 ft-lb]
Ø60mm/2.50":
677 N*m [500 ft-lb]
Material: Aluminum



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

SEC Ø2.50" to Ø1.50" Wrist Bracket



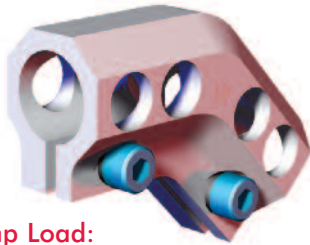
Specifications:
Max. Static Clamp Load:
Ø40mm/1.50":
271 N*m [200 ft-lb]
Ø60mm/2.50":
677 N*m [500 ft-lb]
Material: Aluminum



MODEL NUMBER	WEIGHT
CPI-SEC-2515	[2.72 lb] 1.23 kg

Round Tooling Components

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

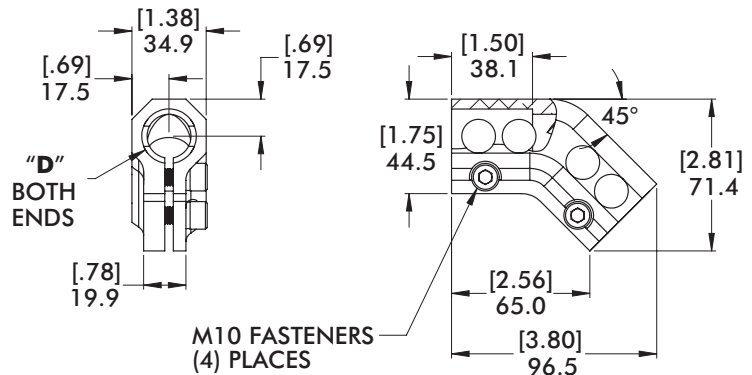


Specifications:
Max. Static Clamp Load:
203 N*m [150 ft-lb]
Material: Aluminum

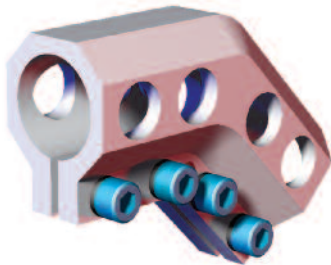
MODEL NUMBER	(Ø)"D"	WEIGHT
CPI-DC-2525M-45	25mm	[.35 lb] .16 kg
CPI-DC-1010-45	1.00"(in)	

Elbow and Straight Transition Brackets

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

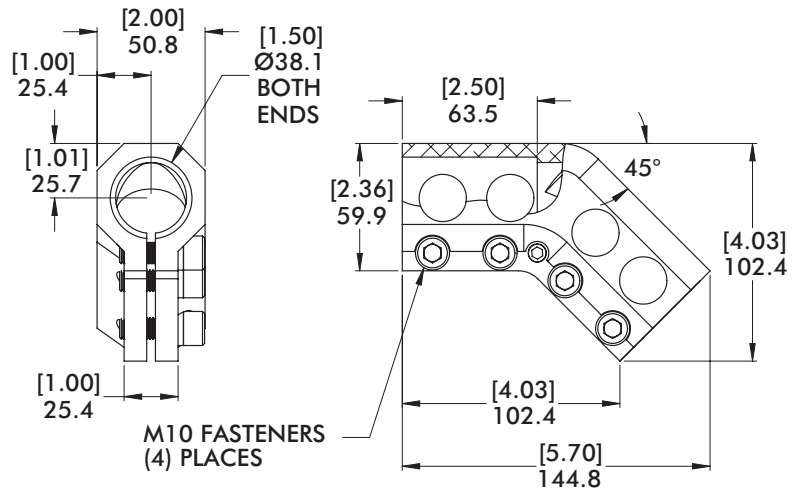


DC Ø1.50" to Ø1.50" 45° Elbow

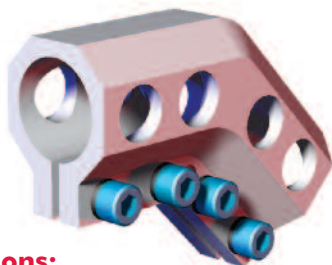


Specifications:
Max. Static Clamp Load:
271 N*m [200 ft-lb]
Material: Aluminum

MODEL NUMBER	WEIGHT
CPI-DC-1515-45	[1.41 lb] .64 kg

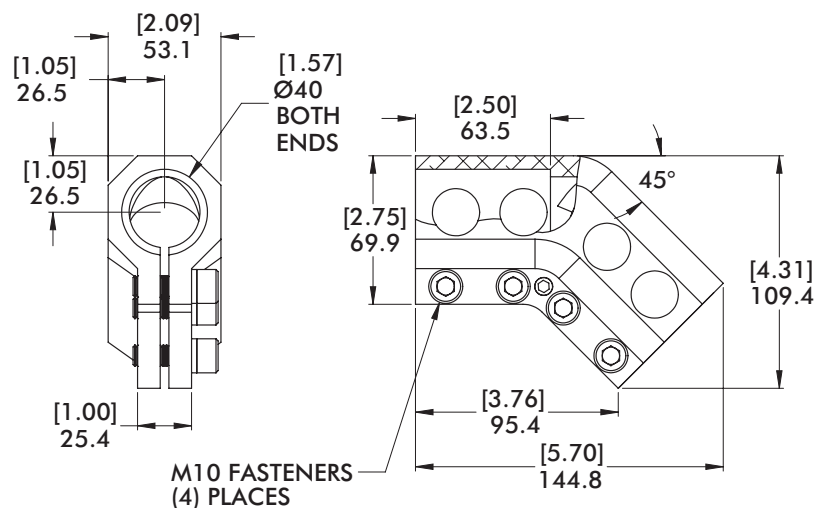


DC Ø40mm to Ø40mm 45° Elbow



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

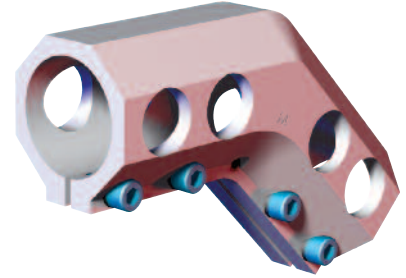
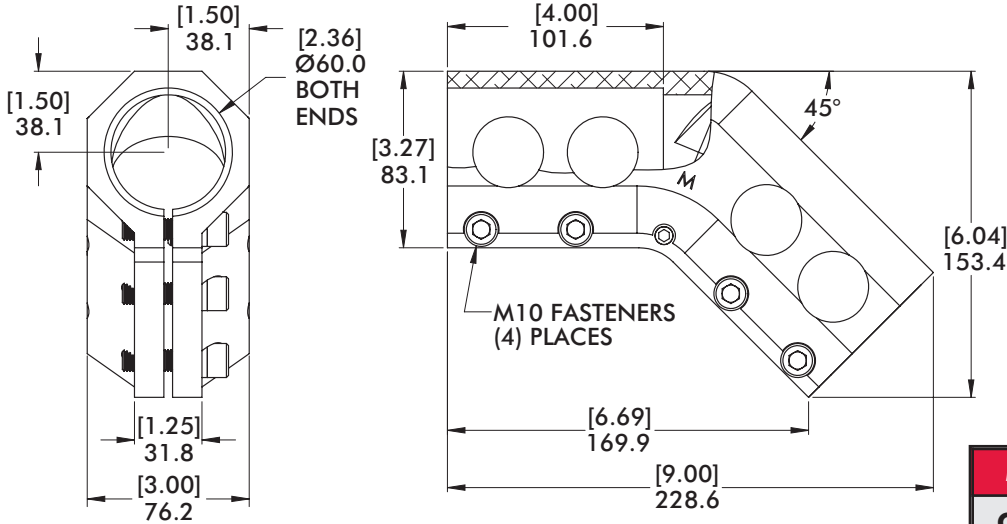
MODEL NUMBER	WEIGHT
CPI-DC-40-40-45	[1.41 lb] .64 kg



Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

Elbow and Straight Transition Brackets

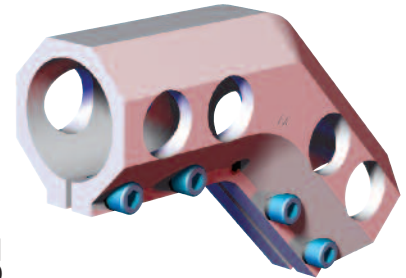
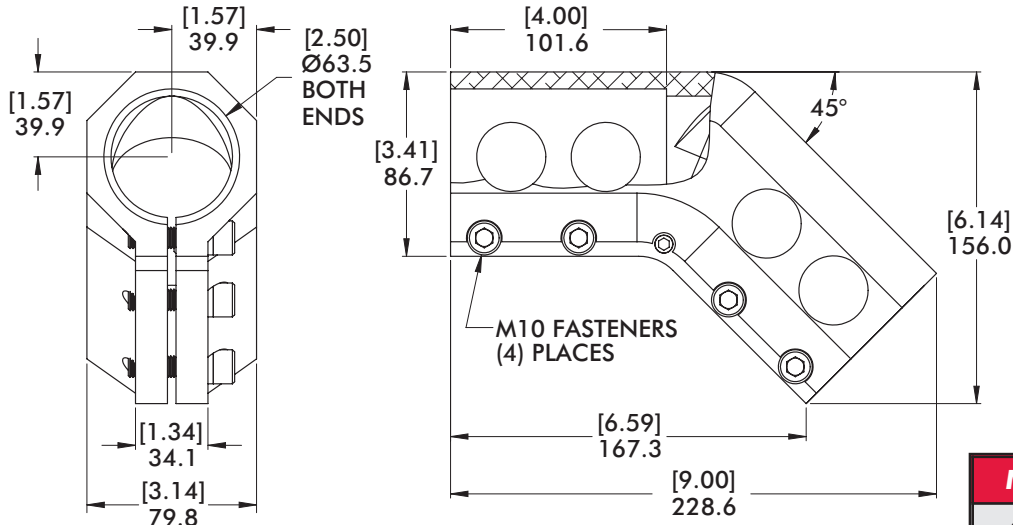
DC Ø60mm to Ø60mm 45° Elbow



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

MODEL NUMBER	WEIGHT
CPI-DC-6060M-45	[2.94 lb] 1.33 kg

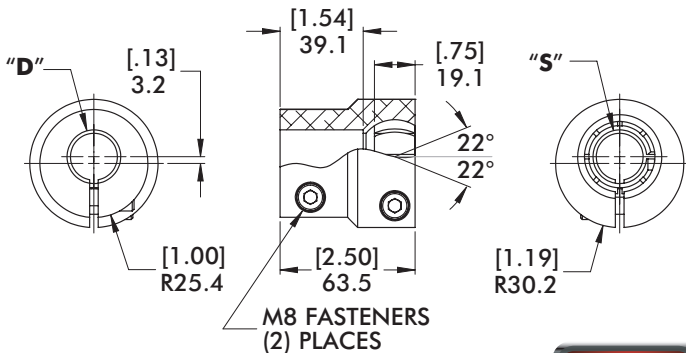
DC Ø2.50" to Ø2.50" 45° Elbow



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

MODEL NUMBER	WEIGHT
CPI-DC-2525-45	[3.19 lb] 1.46 kg

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



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



MODEL NUMBER	(Ø)"D"	(Ø)"S"	WEIGHT
CPI-DC-2525S-8	25mm	25mm	[.80 lb] .36 kg
CPI-DC-1010S-8	1.00"(in)	1.00"(in)	



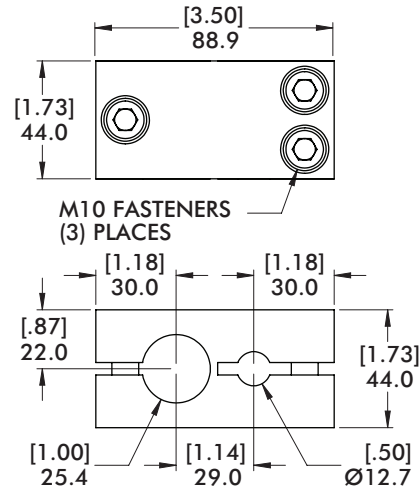
Round Tooling Components

Nominal (Ø) given.
See chart on Page 15
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

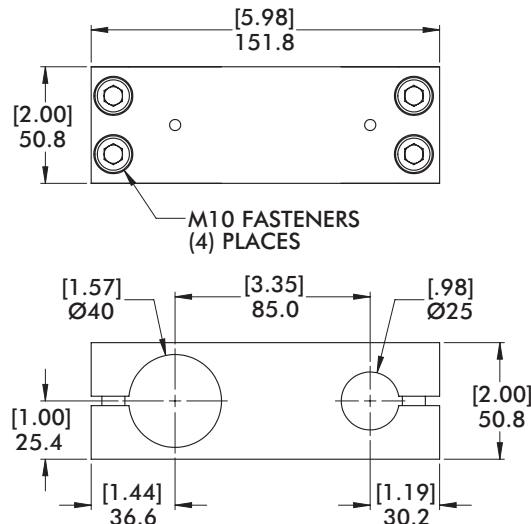


MODEL NUMBER	WEIGHT
M1581	[.92 lb] .42 kg

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

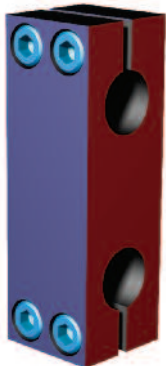


Specifications:
Max. Static Clamp Load:
Ø40mm:
406 N*m [300 ft-lb]
Ø25mm:
203 N*m [150 ft-lb]
Material: Aluminum

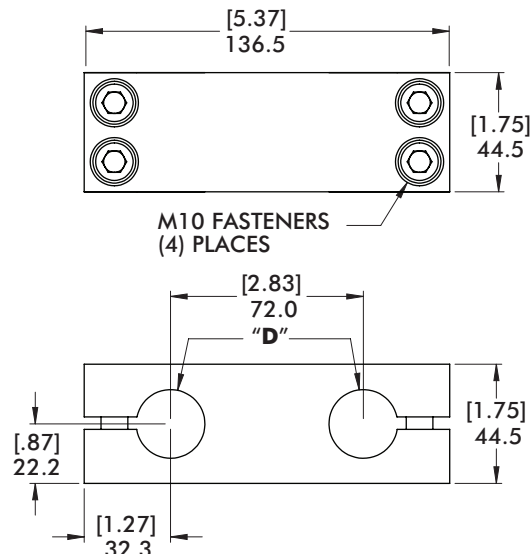


MODEL NUMBER	WEIGHT
CPI-PC-25-40	[1.92 lb] .87 kg

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

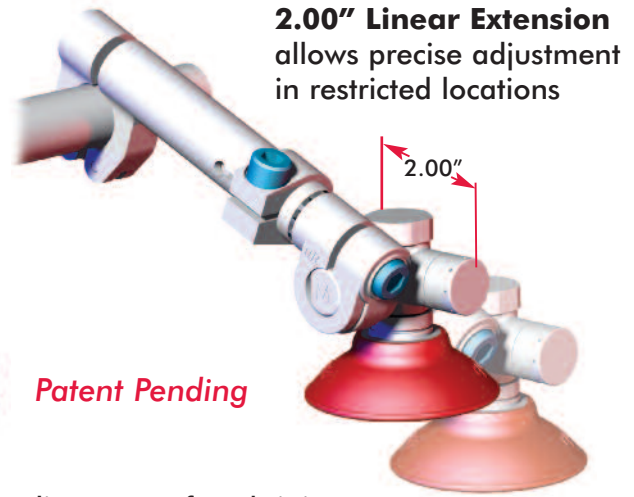
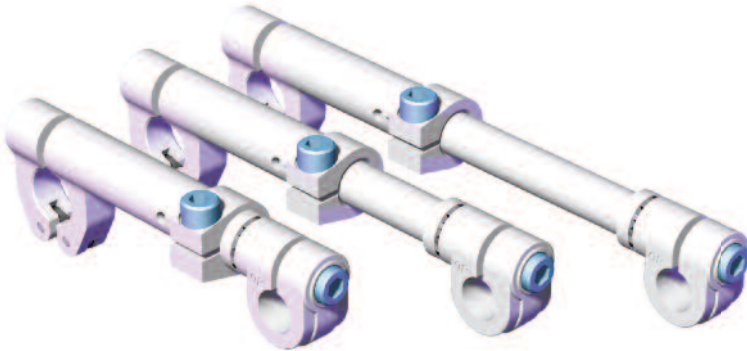


MODEL NUMBER	(Ø)"D"	WEIGHT
M-1523-MT	25mm	[1.47 lb] .67 kg
M1523	1.00"(in)	[1.43 lb] .65 kg

Swivel Arms and Single End Extensions

Features and Benefits

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



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.



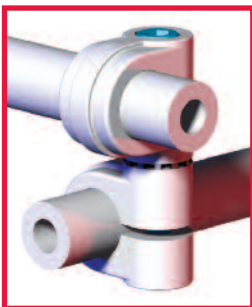
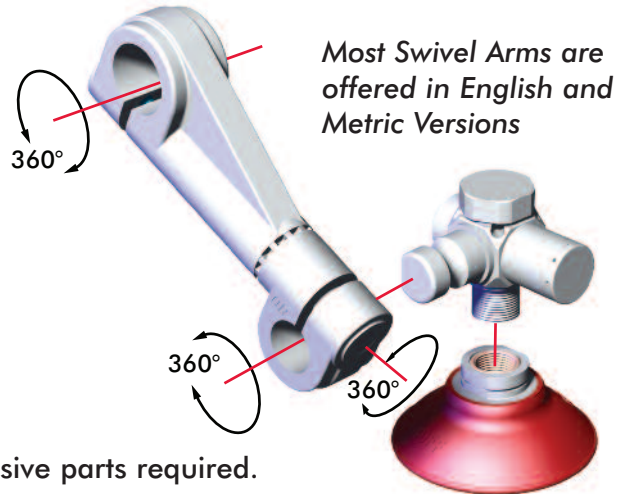
Standard Swivel Arms offers a versatile attachment point for vacuum generators and adaptors, proximity switches and nest mounts brackets.

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.



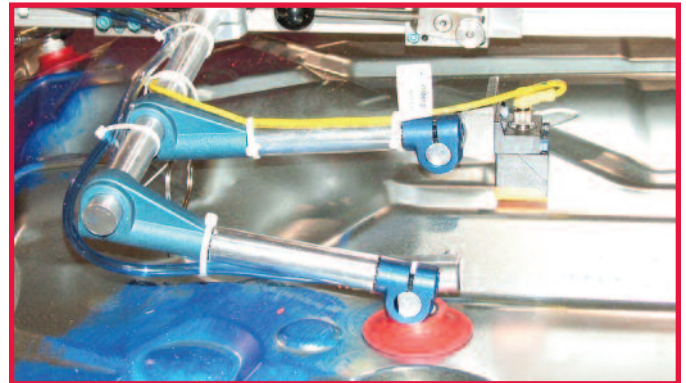
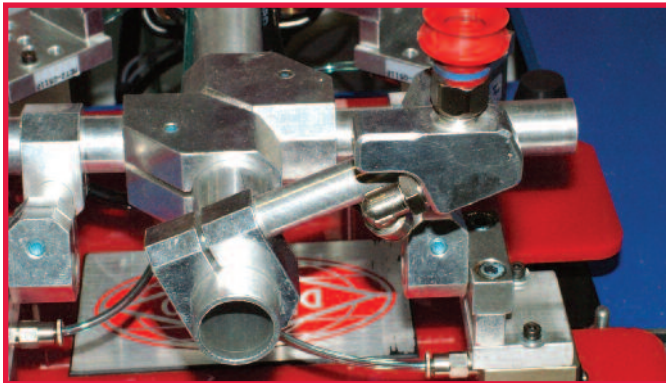
Transition Swivel Arms can be used in the same fashion as a Standard Swivel Arm or as a transition junction from tube to Single End Extensions or tube

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.

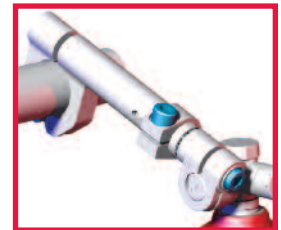


Swivel Arms and Single End Extensions
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 Ø40mm/1.50" for Ø19.1mm [.75"] Apple Core Accessories Page 53
 Ø25mm/1.00" for Ø28.6mm [1.125"] Swivel Ball Accessories. Page 54
 Ø40mm/1.50" for Ø28.6mm [1.125"] Swivel Ball Accessories. Page 55



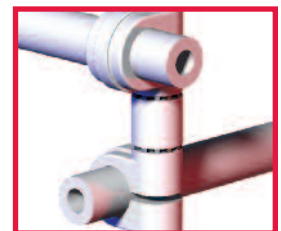
Standard Swivel Arms

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 Ø25mm/1.00" for Ø28.6mm [1.125"] Swivel Ball Accessories. Page 60
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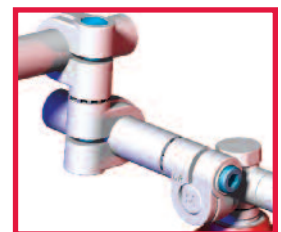
Transition Swivel Arms

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Single End Extensions

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



Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

"Extend-Arm" Swivel Arms

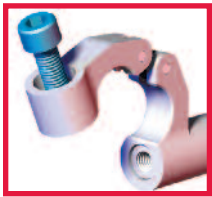
Ø25mm/1.00" for Ø19mm [.75"] Apple Core Accessories

Features:

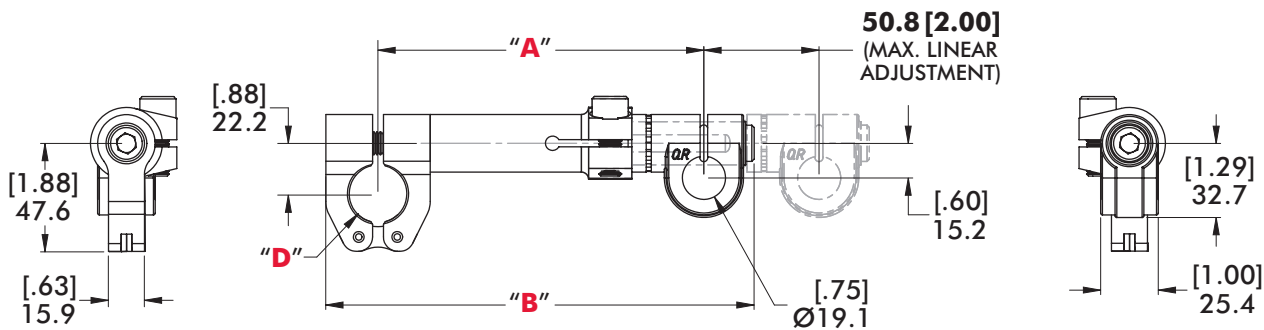
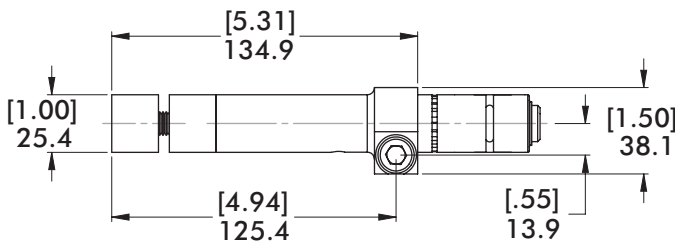
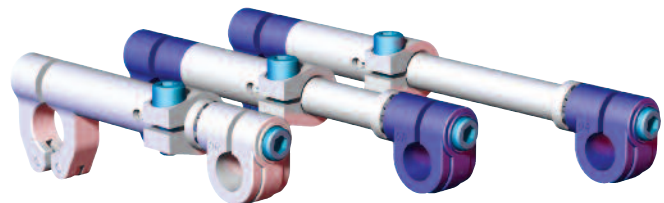
- Mounts apple core accessories to Ø25mm/1.00" round tube.
- 50.8 [2.00] linear extension allows for precise adjustment.
- Provides 360° of rotational adjustments along (3) axes.
- Used to mount venturi, bumpers, round locators, and proximity switches.

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

Round Tooling Components



Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

"Extend-Arm" Swivel Arms

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



Specifications:

Maximum Clamp Load:
140 ft-lb [190 Nm]

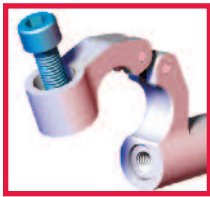
Material:

Body and Insert:
Machined Aluminum

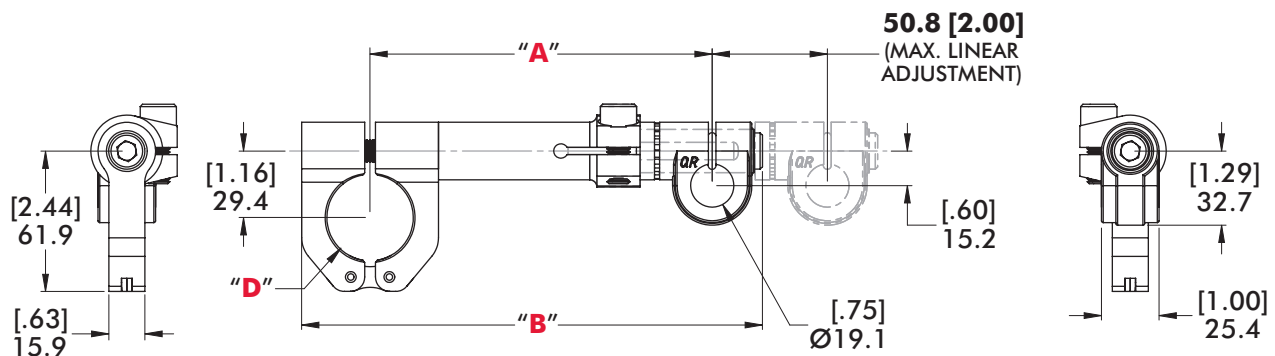
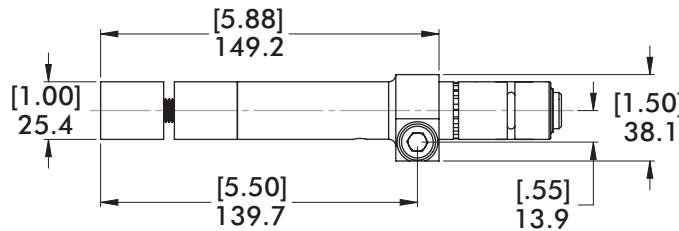
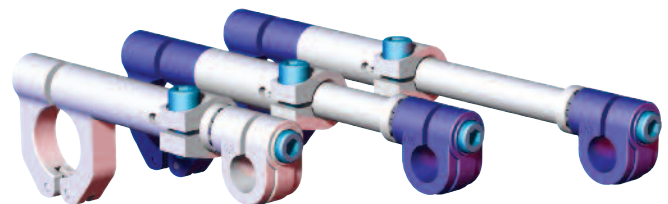
End:
Cast Aluminum

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.



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



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

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

"Extend-Arm" Swivel Arms

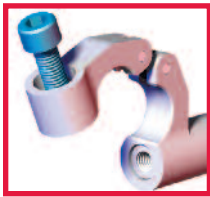
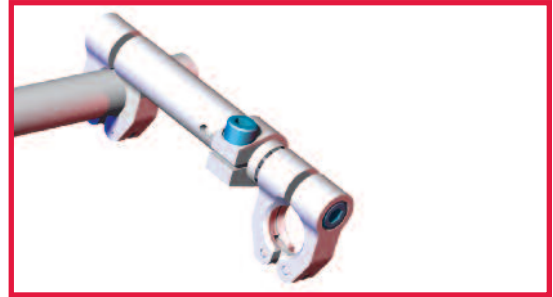
Ø25mm/1.00" for Ø28.6mm [1.125"] Spherical Swivel Ball Accessories

Features:

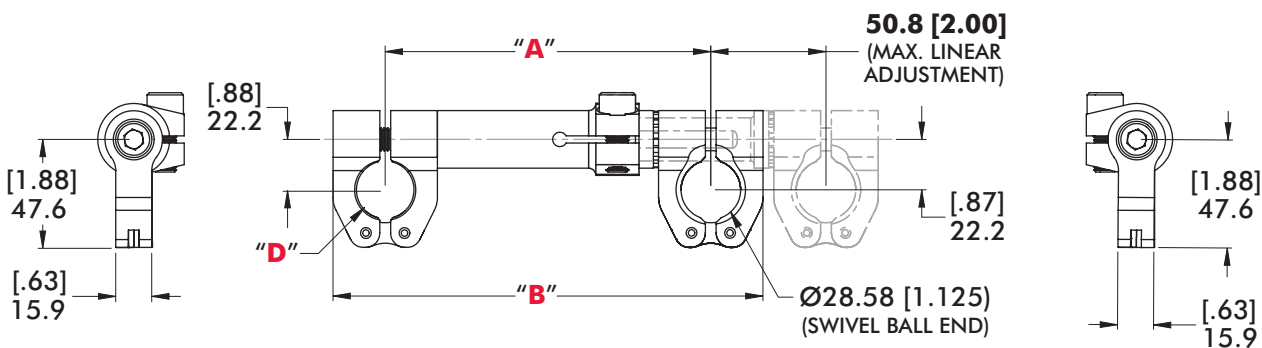
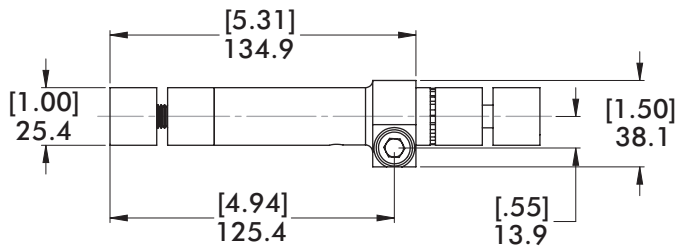
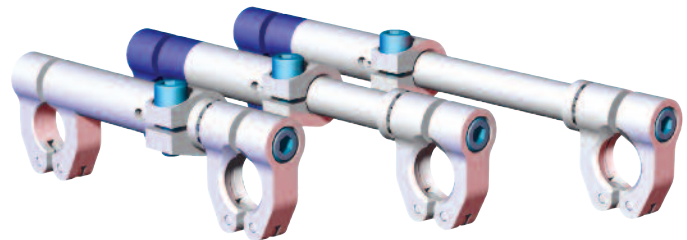
- Mounts swivel ball accessories to Ø25mm/1.00" round tube.
- 50.8 [2.00] linear extension allows for precise adjustment.
- Provides 360° of rotational adjustments along (3) axes.
- Used to mount venturi, bumpers, round locators, and proximity switches.

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]	[7.47]	[0.93 lb]	SILVER
CPI-140-25-TSA-B112	25mm	143.6	189.6	0.42 kg	BLUE
CPI-75-1-TSA-B112	1.00"(in)	[7.65]	[9.47]	[1.00 lb]	SILVER
CPI-190-25-TSA-B112	25mm	194.4	240.4	0.45 kg	BLUE
CPI-95-1-TSA-B112	1.00"(in)	[9.65]	[11.47]	[1.07 lb]	SILVER
CPI-240-25-TSA-B112	25mm	245.2	291.2	0.49 kg	BLUE

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

"Extend-Arm" Swivel Arms

Ø40mm/1.50" for Ø28.6mm [1.125"] Spherical Swivel Ball Accessories



Specifications:

Maximum Clamp Load:
140 ft-lb [190 Nm]

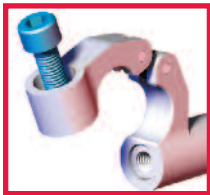
Material:

Body and Insert:
Machined Aluminum

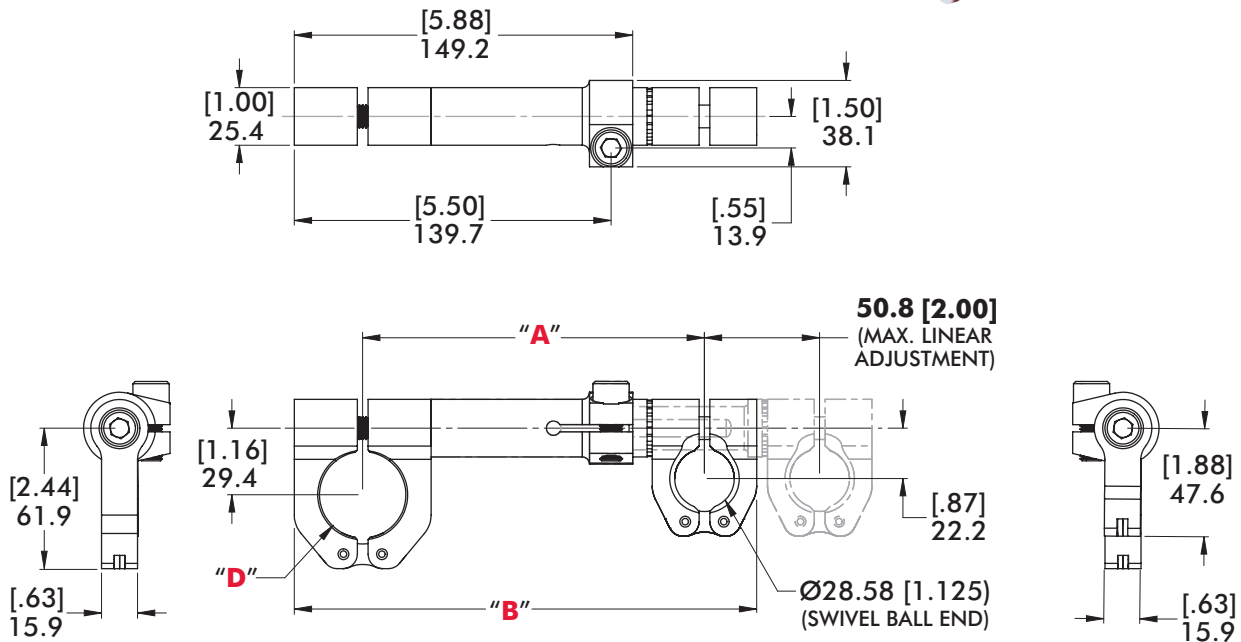
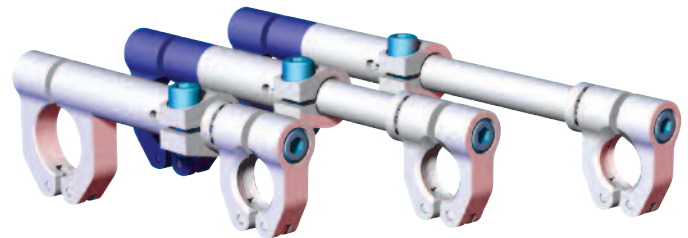
End:
Cast Aluminum

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.



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



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

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

Standard Swivel Arms

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

Features:

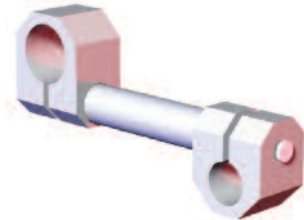
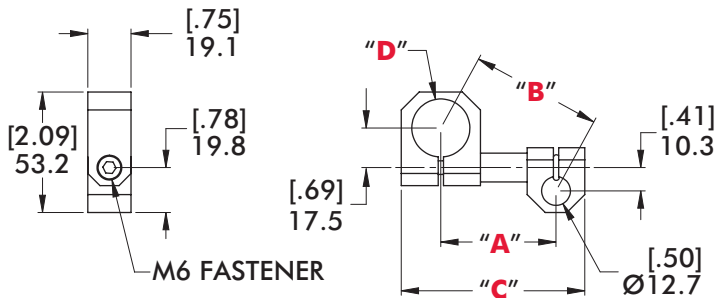
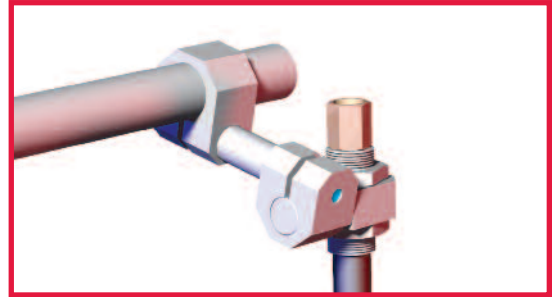
- Mounts micro apple core accessories to Ø20mm/.75" Round tube.
- Provides 360° of rotational adjustments along (3) axes.
- Used to mount venturi, bumpers, round locators, and proximity switches.

Specifications:

Maximum Clamp Load:
120 ft-lb [163 Nm]

Material:

Body and Spacer:
Machined Aluminum

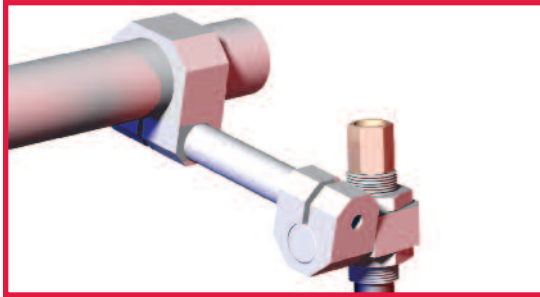


MODEL NUMBER	(Ø)"D"	"A"	"B"	"C"	WEIGHT
CPI-200-7550-MSA	.75"(in)	[2.00] 50.8	[2.28] 57.9	[3.19] 81.0	[0.16 lb] 0.07 kg
CPI-200-20M50-MSA	20mm				
CPI-300-7550-MSA	.75"(in)	[3.00] 76.2	[3.19] 81.1	[4.19] 106.4	[0.19 lb] 0.08 kg
CPI-300-20M50-MSA	20mm				
CPI-400-7550-MSA	.75"(in)	[4.00] 101.7	[4.15] 105.4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

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

Standard Swivel Arms

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



Specifications:

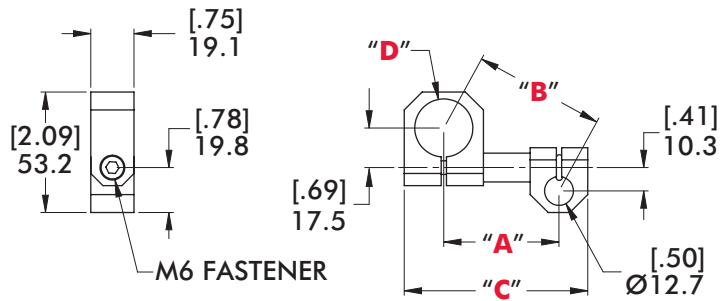
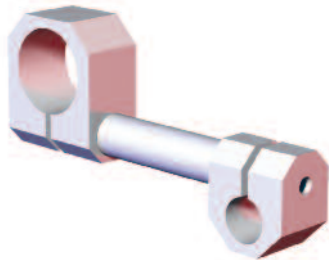
Maximum Clamp Load:
120 ft-lb [163 Nm]

Material:

Body and Spacer:
Machined Aluminum

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.



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

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

Standard Swivel Arms

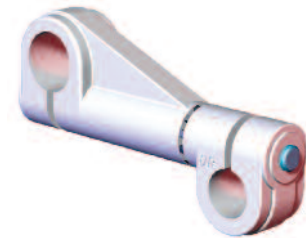
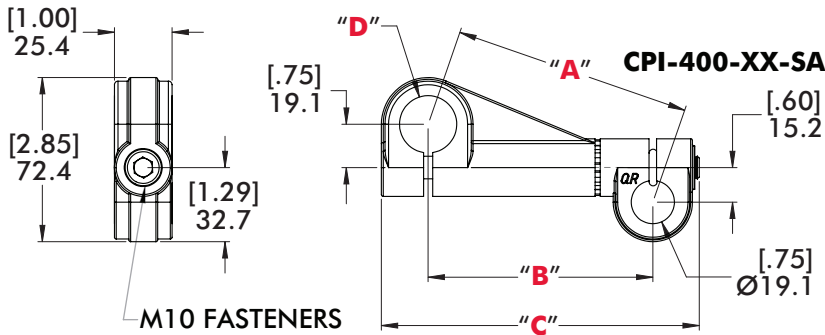
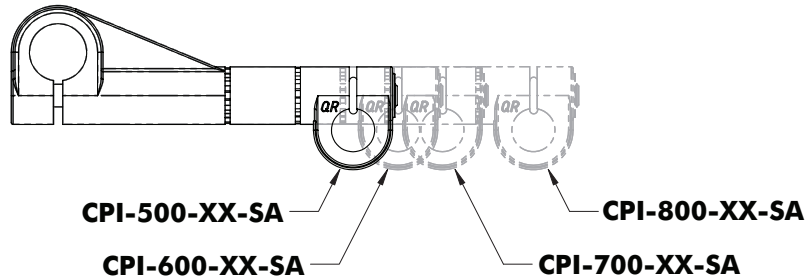
Ø25mm/1.00" for Ø19.1mm [.75"] Apple Core Accessories

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



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 15
for actual (Ø) size.

Standard Swivel Arms

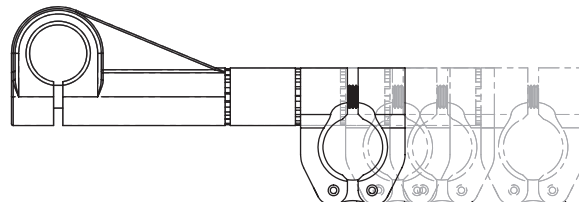
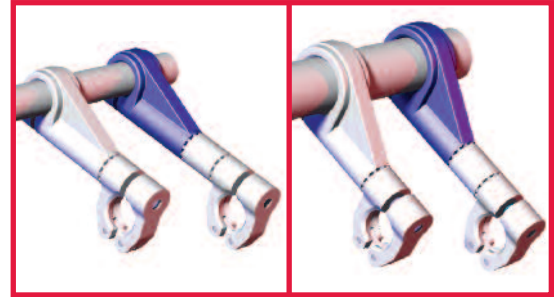
Ø25mm/1.00" for Ø28.6mm [1.125"] Spherical Swivel Ball Accessories

Features:

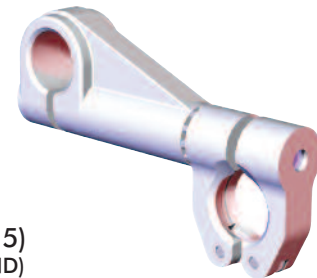
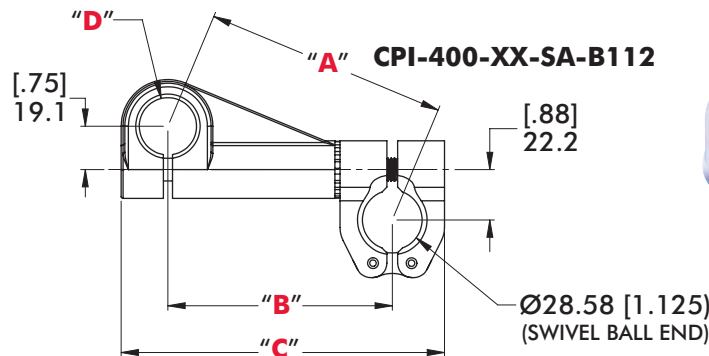
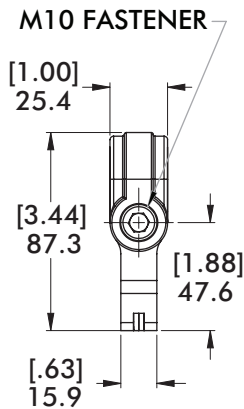
- Mounts swivel ball accessories to round tube.
- Provides 360° of rotational adjustments along (3) axes.
- Used to mount venturi, bumpers, round locators, and proximity switches.

Specifications:

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



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

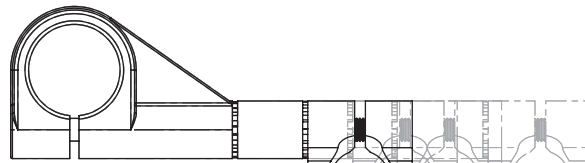


MODEL NUMBER	(Ø)"D"	"A"	"B"	"C"	WEIGHT	FINISH
CPI-400-1-SA-B112	1.00"(in)	[4.22]	[3.90]	[5.61]	[0.74 lb]	SILVER
CPI-100-25-SA-B112	25mm	107.2	98.9	142.6	0.34 kg	BLUE
CPI-500-1-SA-B112	1.00"(in)	[5.37]	[5.12]	[6.83]	[0.86 lb]	SILVER
CPI-140-25-SA-B112	25mm	136.3	129.9	173.5	0.39 kg	BLUE
CPI-600-1-SA-B112	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 15
for actual (Ø) size.

Standard Swivel Arms

Ø40mm/1.50" for Ø28.6mm [1.125"] Spherical Swivel Ball Accessories

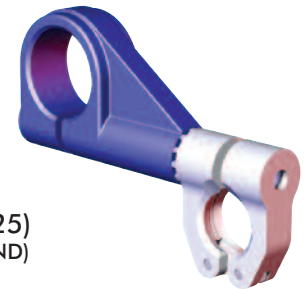
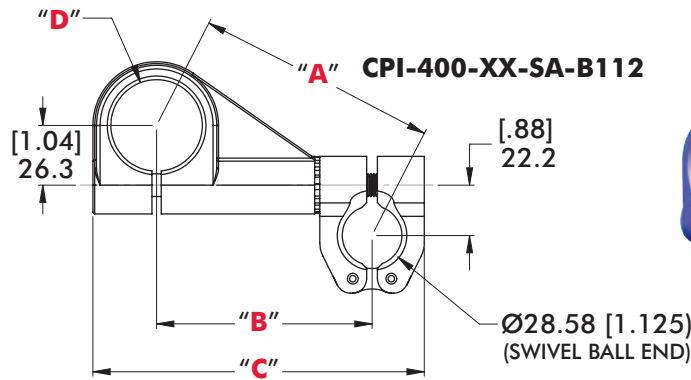
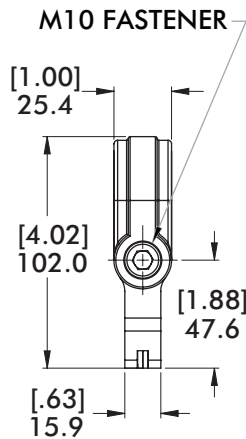


CPI-500-XX-SA-B112

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

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

Transition Swivel Arms

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

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.

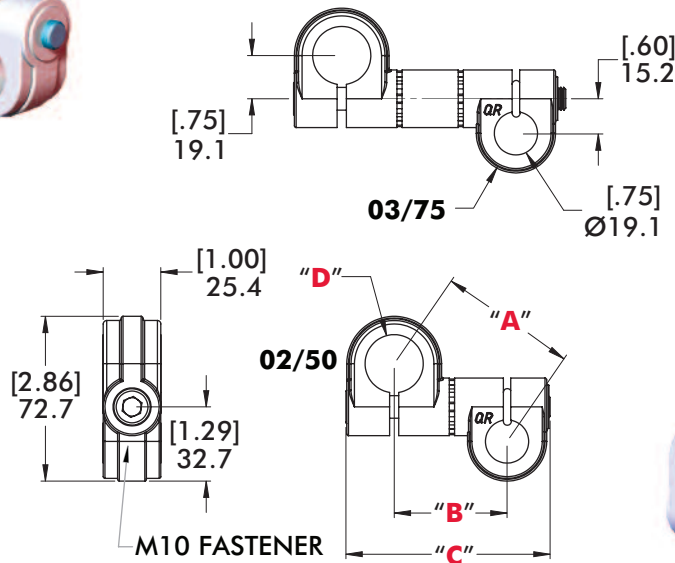
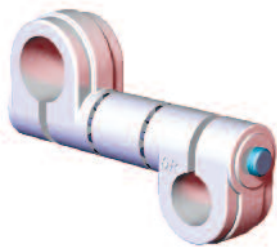
Specifications:

Maximum Clamp Load:
200 ft-lb [271 Nm]

Material:

Body:
Cast Aluminum

Spacer:
Machined Aluminum



MODEL NUMBER	(Ø)"D1"	"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

Round Tooling Components

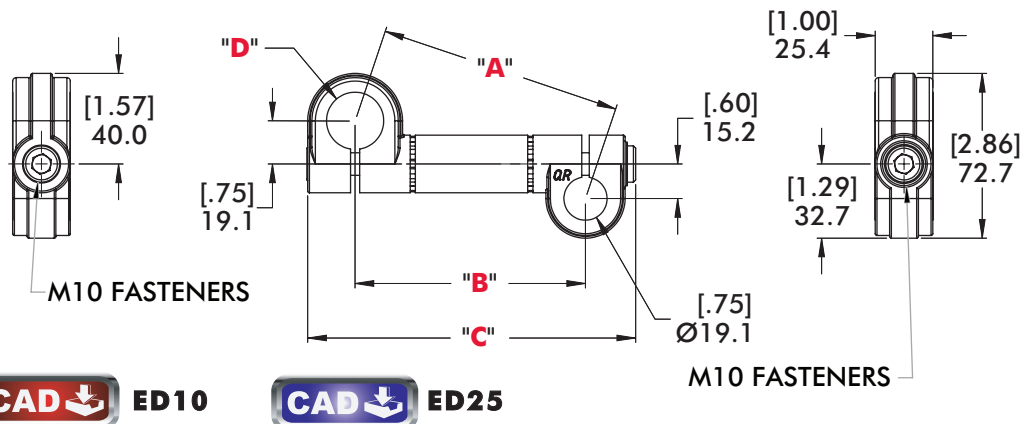


A DOVER COMPANY

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

Transition Swivel Arms

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

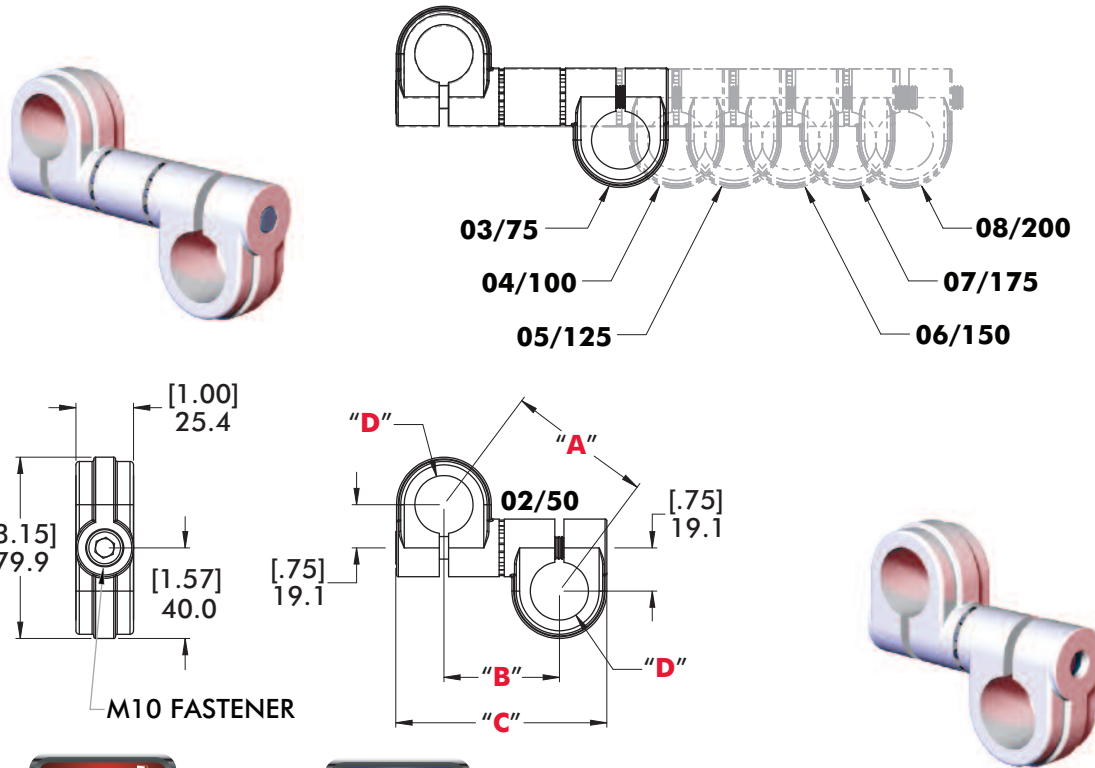


MODEL NUMBER	(Ø)"D"	"A"	"B"	"C"	WEIGHT	FINISH
CPI-ED10-100-075-04	1.00"(in)	[4.27] 108.4	[4.05] 102.9	[5.74] 145.9	[0.65 lb] 0.29 kg	SILVER
CPI-ED25-25-19-100	25mm	[4.22] 107.2	[4.00] 101.6	[5.69] 144.6		BLUE
CPI-ED10-100-075-05	1.00"(in)	[5.23] 132.8	[5.05] 128.3	[6.74] 171.3	[0.71 lb] 0.32 kg	SILVER
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

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

Transition Swivel Arms

Single-Bolt - Ø25mm/1.00" to 25MM/Ø1.00" Transition Swivel Arm



CAD SA10

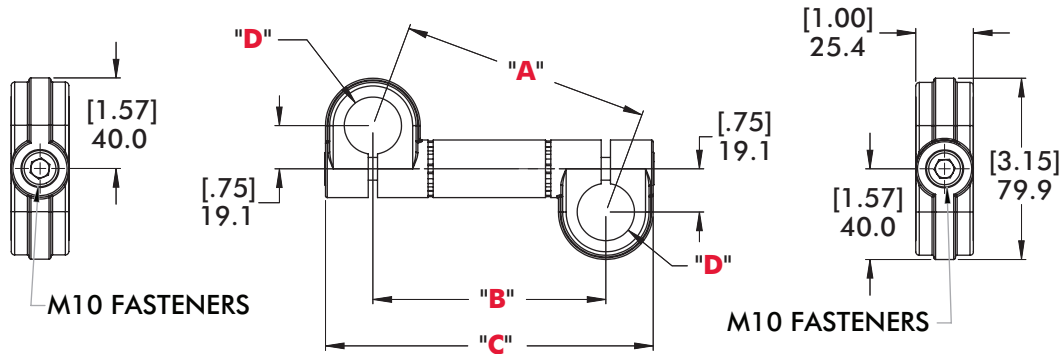
CAD SA25

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 15
for actual (Ø) size.

Transition Swivel Arms

Double-Bolt - Ø25mm/1.00" to Ø25mm/1.00" Transition Swivel Arm



ED10



ED25

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

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

Transition Swivel Arms

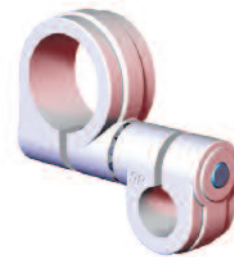
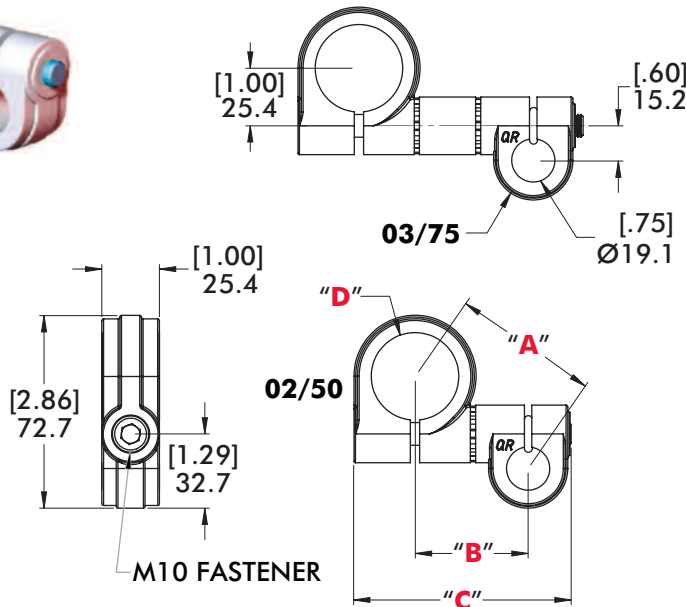
Single-Bolt - Ø40mm/1.50" for Ø19.1mm [.75"] Apple Core Accessories

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



SA10



SA25

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

Round Tooling Components

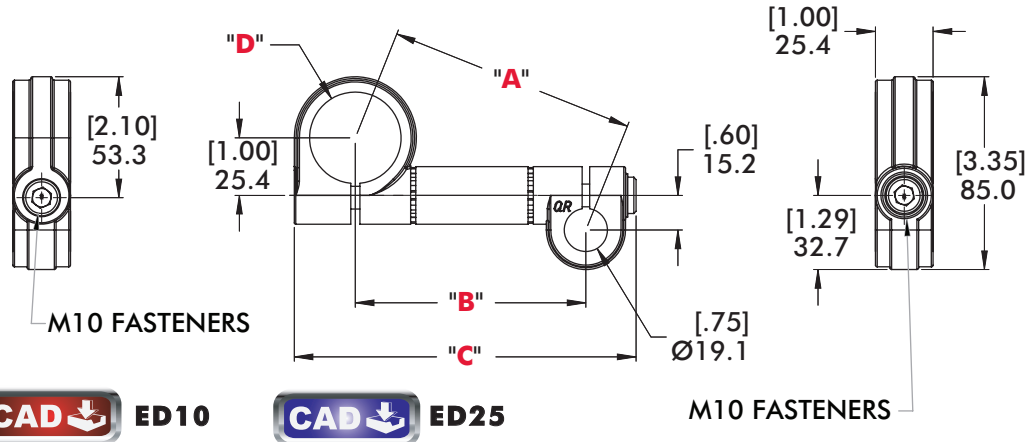


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Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

Single-Bolt Transition Swivel Arms

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

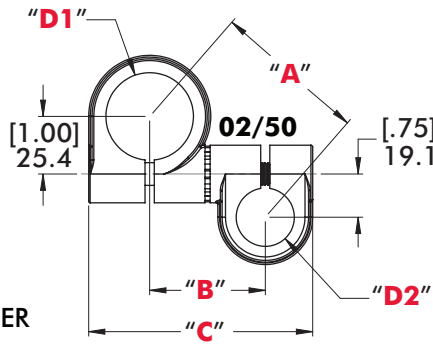
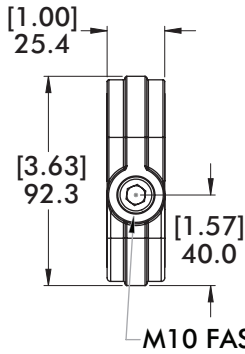
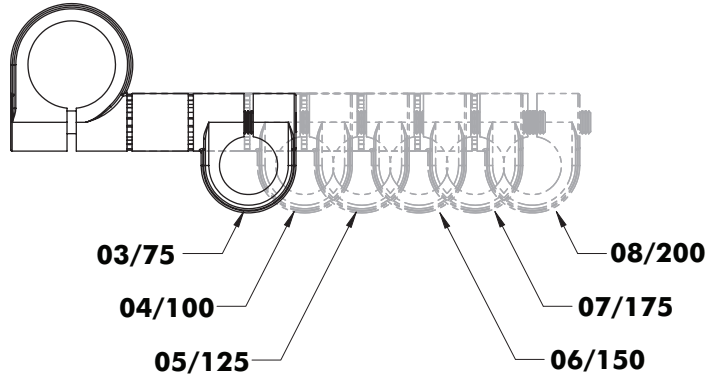
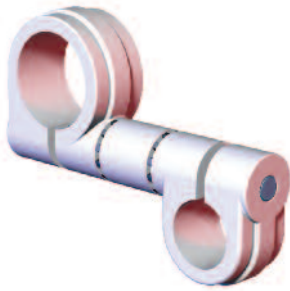


MODEL NUMBER	(Ø)"D"	"A"	"B"	"C"	WEIGHT	FINISH
CPI-ED10-150-075-04	1.50"(in)	[4.36] 110.7	[4.05] 102.9	[5.98] 152.0	[0.69 lb] 0.31 kg	SILVER
CPI-ED25-40-19-100	40mm	[4.31] 109.5	[4.00] 101.7	[5.93] 150.7		BLUE
CPI-ED10-150-075-05	1.50"(in)	[5.30] 134.6	[5.05] 128.3	[6.98] 177.4	[0.76 lb] 0.34 kg	SILVER
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

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

Transition Swivel Arms

Single-Bolt - Ø40mm/1.50" to Ø25mm/1.00" Transition Swivel Arm

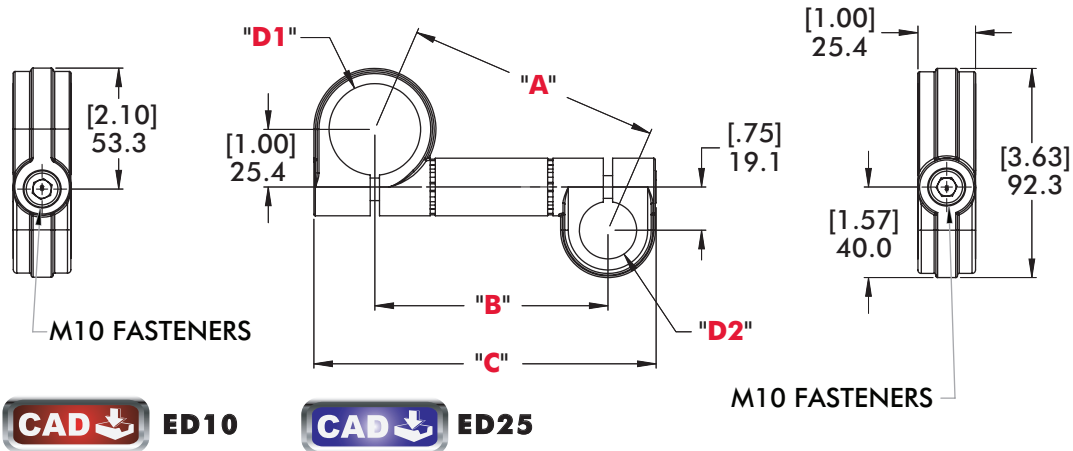


MODEL NUMBER	(Ø)"D1"	(Ø)"D2"	"A"	"B"	"C"	WEIGHT	FINISH
CPI-SA10-150-100-02	1.50"(in)	1.00"(in)	[2.66] 67.6	[2.01] 51.0	[3.89] 98.8	[0.53 lb] 0.24 kg	SILVER
CPI-SA25-40-25-50	40mm	25mm					BLUE
CPI-SA10-150-100-03	1.50"(in)	1.00"(in)	[3.53] 89.8	[3.07] 78.0	[4.95] 125.7	[0.64 lb] 0.29 kg	SILVER
CPI-SA25-40-25-75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

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

Transition Swivel Arms

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

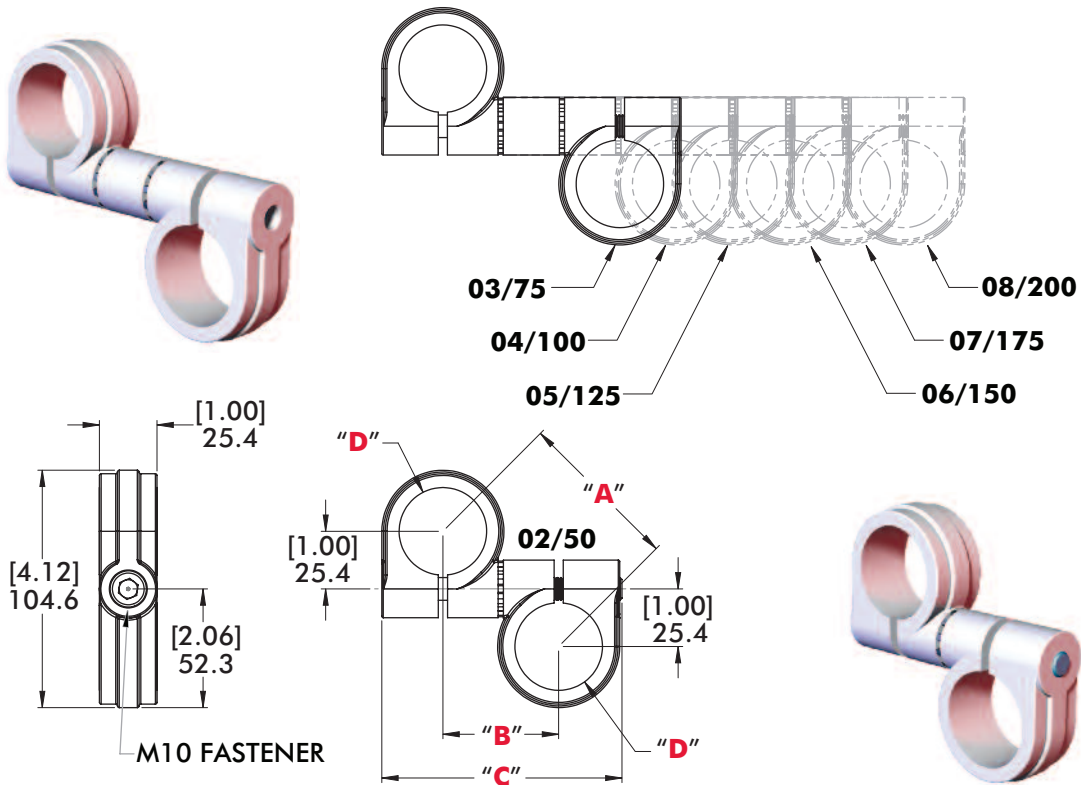


MODEL NUMBER	(Ø)"D1"	(Ø)"D2"	"A"	"B"	"C"	WEIGHT	FINISH
CPI-ED10-150-100-04	1.50"(in)	1.00"(in)	[4.46] 113.2	[4.10] 104.1	[5.98] 151.9	[0.71 lb] 0.32 kg	SILVER
CPI-ED25-40-25-100	40mm	25mm	[4.41] 112.8	[4.05] 102.8	[5.93] 150.6		BLUE
CPI-ED10-150-100-05	1.50"(in)	1.00"(in)	[5.39] 136.9	[5.10] 129.5	[6.98] 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

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

Transition Swivel Arms

Single-Bolt - Ø40mm/1.50" to Ø40mm/1.50" Transition Swivel Arm



CAD SA10

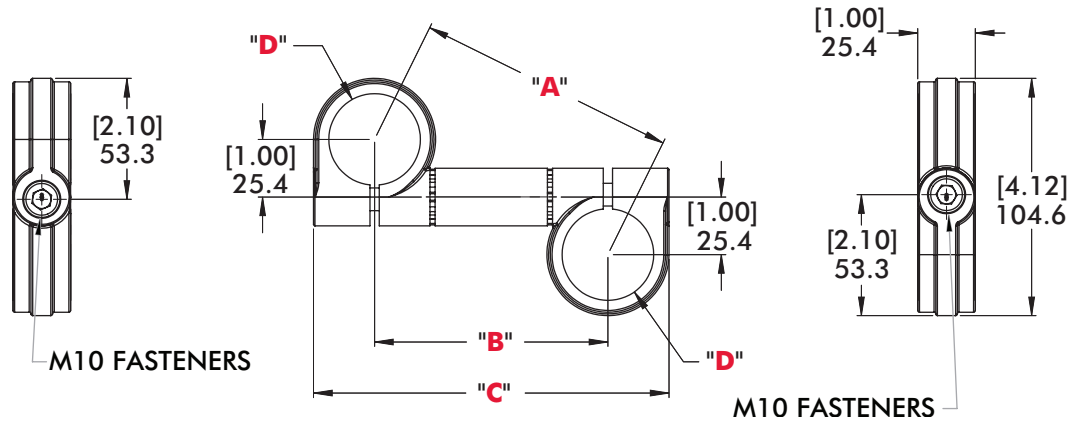
CAD SA25

MODEL NUMBER	(Ø)"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 15
for actual (Ø) size.

Transition Swivel Arms

Double-Bolt - Ø40mm/1.50" to Ø40mm/1.50" Transition Swivel Arm



ED10



ED25

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

Nominal (Ø) given.
See chart on Page 15
for actual (Ø) size.

Single End Extensions

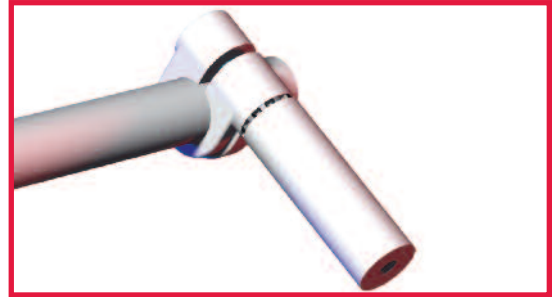
Rod End Extensions

Features:

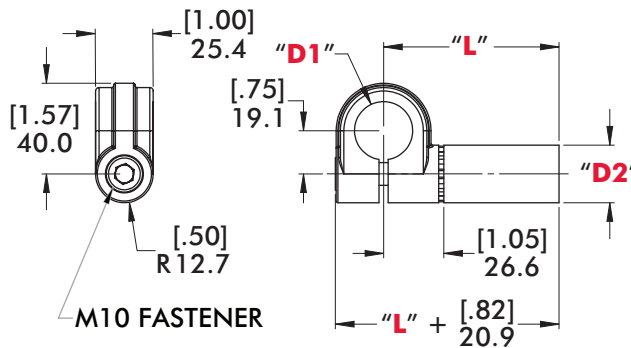
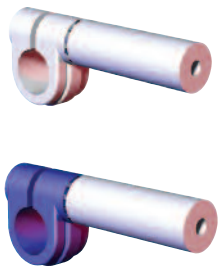
- Mounts to round tube for extended mounting options.
- Provides 360° of rotational adjustments along a single axis.

Specifications:

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



Ø25mm/1.00" Rod End Extensions



"L" Specify Length

Length Availability

English Lengths:

From **03**(3.00") to **19**(19.00")
in 1.00" Increments

Order Example

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

Metric Lengths:

From **50**(50mm) to **400**(400mm)
in 50mm Increments

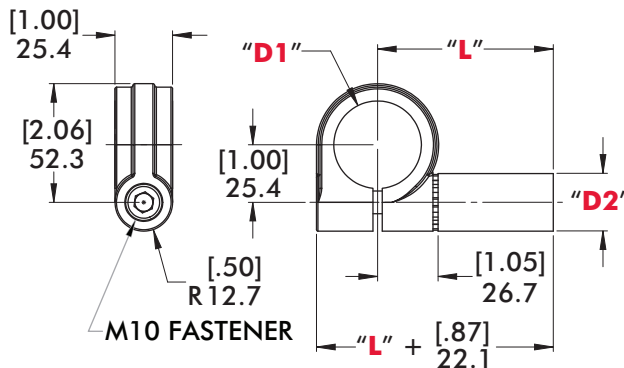
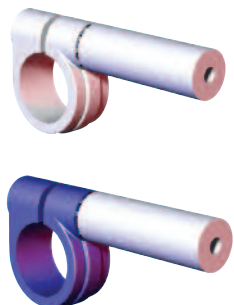
Order Example

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

Ø40mm/1.50" Rod End Extensions



"L" Specify Length

Length Availability

English Lengths:

From **03**(3.00") to **16**(16.00")
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



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