

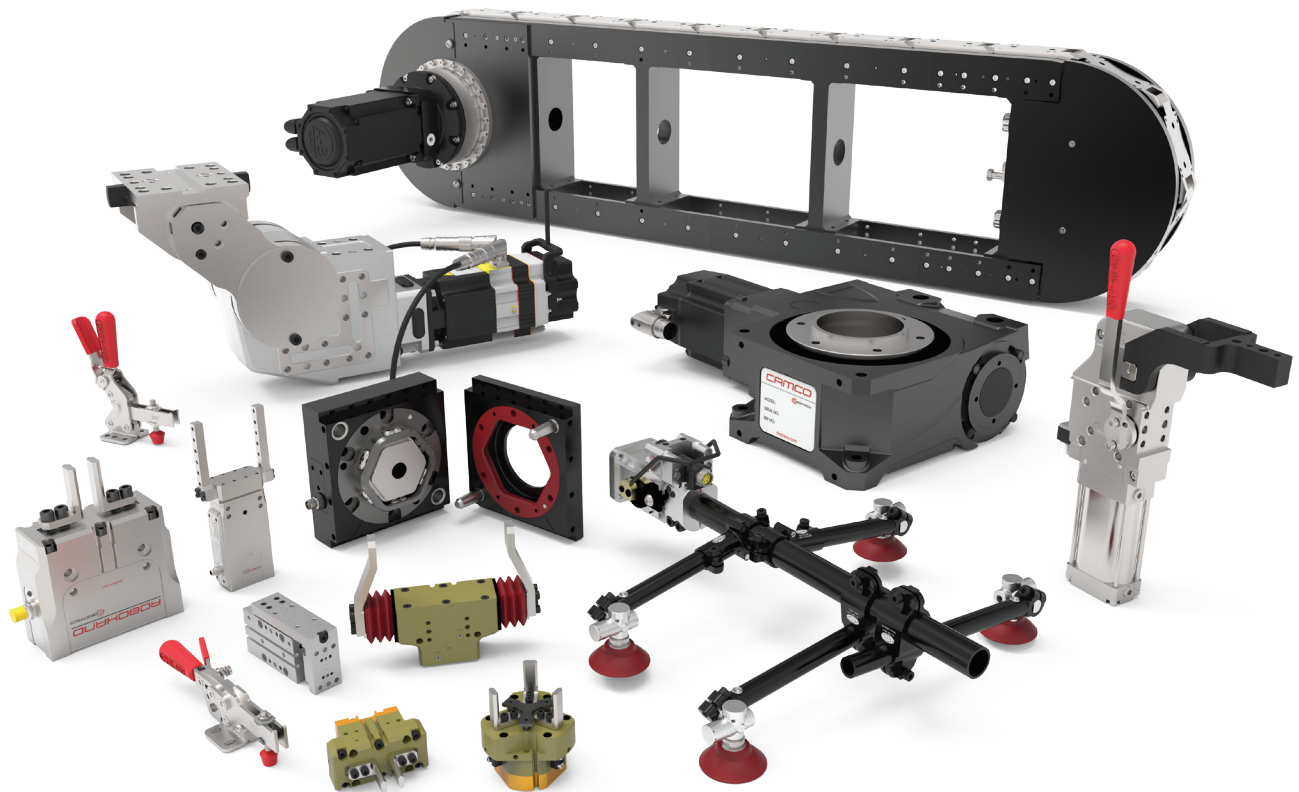
**04/14/2025**



**IPT Kereskedelmi Kft.**  
**Ipar, ProfiL, Technika**

**IPT Kereskedelmi Kft.**

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# IPT Destaco Bodybuilder 2025

04/14/2025

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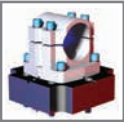


# ROBOT ADAPTER MOUNTS

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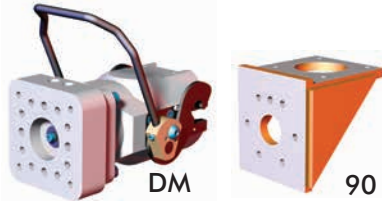
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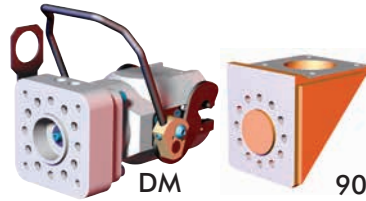
# ROBOT ADAPTER MOUNTS

Robot Automation Adaptors | Selection Guide - Manual Tool Changers RDN-25 Series

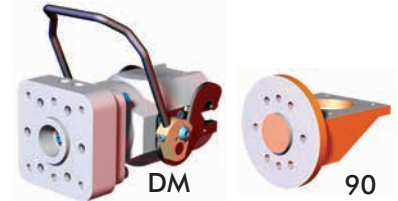
**STYLE 1 (ACMX58)**



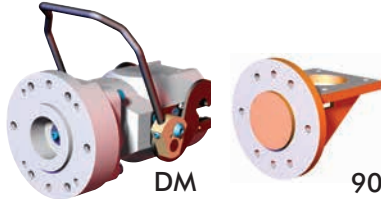
**STYLE 2 (FA500)**



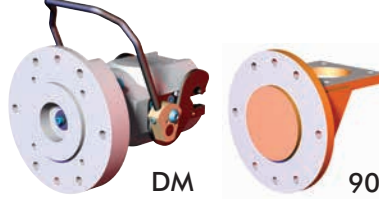
**STYLE 3 (KW150)**



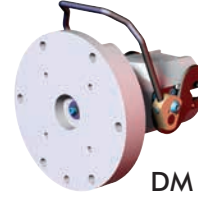
**STYLE 4 (FA900)**



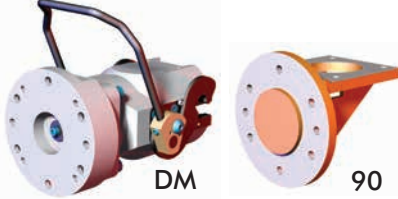
**STYLE 5 (KA760)**



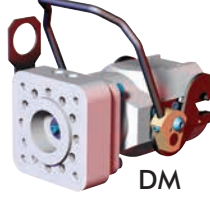
**STYLE 6 (MMNY300)**



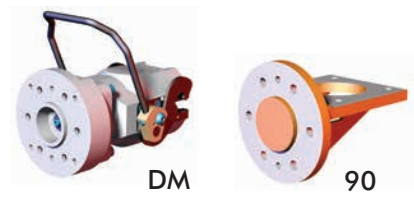
**STYLE 7 (FA430I)**



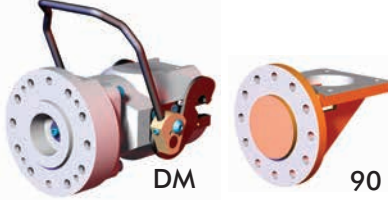
**STYLE 8 (FA420)**



**STYLE 9 (ABB44)**



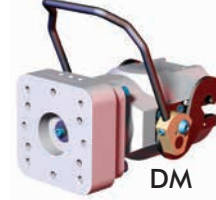
**STYLE 10 (KWZ165)**



**STYLE 11 (KWUT120)**



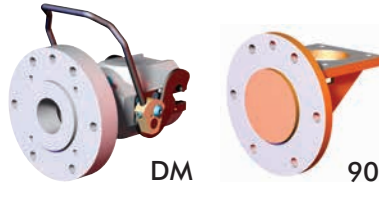
**STYLE 12 (FA710)**



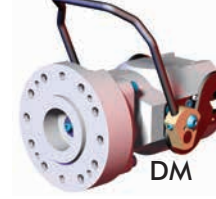
**STYLE 14 (MMK100)**



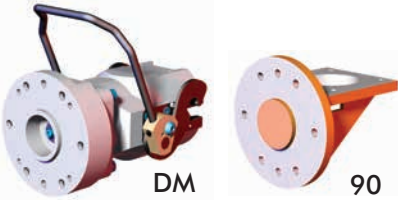
**STYLE 15 (KA660)**



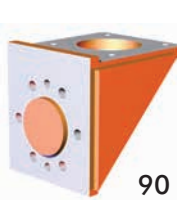
**STYLE 16 (FA2000)**



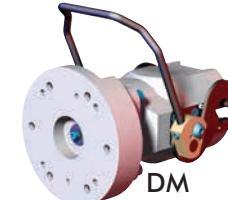
**STYLE 18 (MMHP165-125)**



**STYLE 19 (MMHP165-92)**



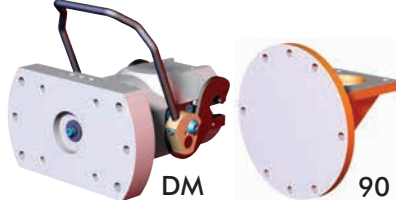
**STYLE 21 (EOAMC30)**



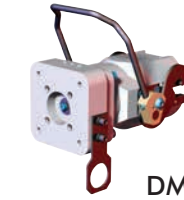
**STYLE 22 (FA900-SSM)**



**STYLE 23 (MD350)**



**STYLE 24 (SA000)**





# ROBOT ADAPTER MOUNTS

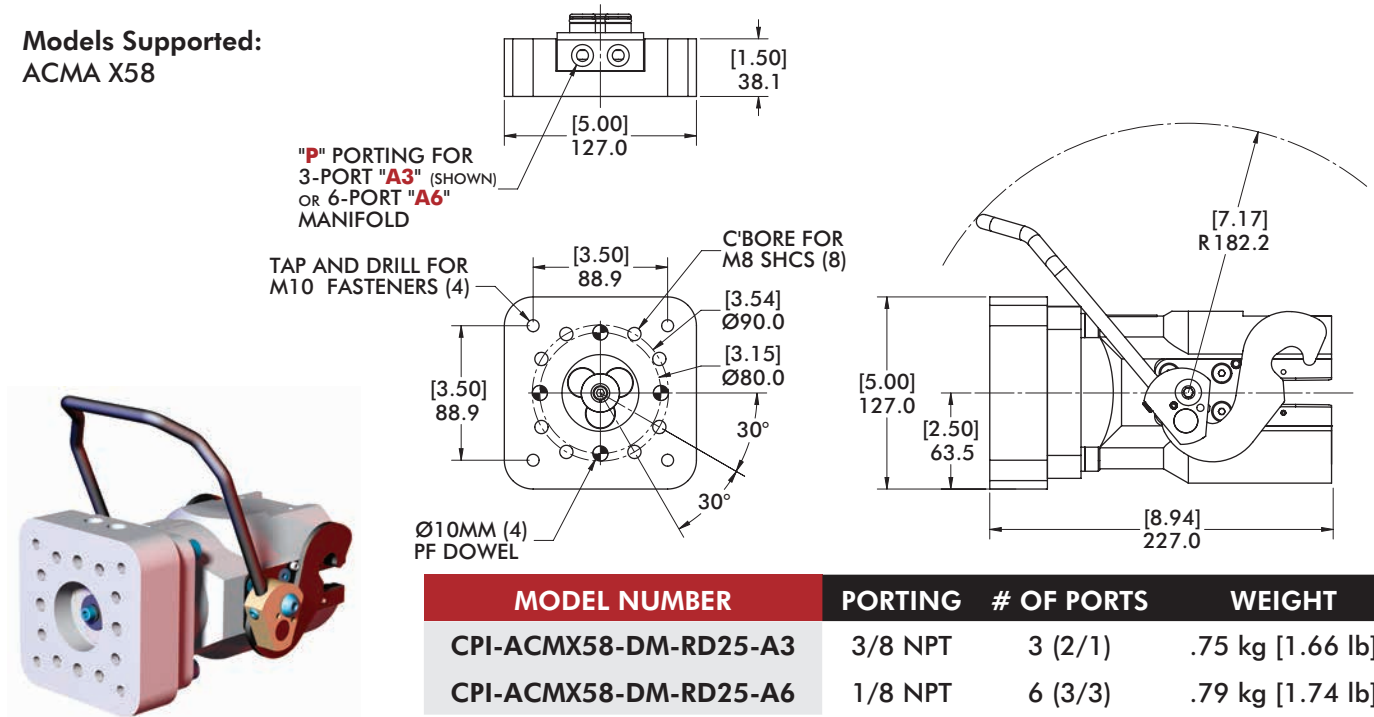
Robot Automation Adaptors | Selection Guide - Manual Tool Changers RDN-25 Series

250 SERIES ROBOT ADAPTOR SELECTION GUIDE										
ADAPTOR MOUNTS		MOUNTING PATTERN			DOWELS			PILOT		DWG PAGE
STYLE (MODEL)	TYPE AVAIL.	BOLT CIRCLE	BOLT SIZE	BOLTS QTY	BOLT CIRCLE	DWL SIZE	DWL QTY	DIAMETER (Ø)	DEPTH	
STYLE 1 (ACMX58)	DM/90	Ø90mm [Ø3.54"]	M8	8	Ø80mm [Ø3.15"]	10mm	4	N/A	N/A	4
STYLE 2 (FA500)	DM/90	Ø90mm [Ø3.54"]	M10	8	Ø90mm [Ø3.54"]	10mm	4	Ø59.5mm [Ø2.34"]	4.8 [.19]	5
STYLE 3 (KW150)	DM/90	Ø92mm [Ø3.62"]	M10	6	Ø92mm [Ø3.62"]	9mm	2	Ø54mm [Ø2.13"]	6.4 [.25]	6
STYLE 4 (FA900)	DM/90	Ø125mm [Ø4.92"]	M10	6	Ø125mm [Ø4.92"]	10mm	2	Ø79.5mm [Ø3.13"]	6.4 [.25]	7
STYLE 5 (KA760)	DM/90	Ø160mm [Ø6.30"]	M10	6	Ø160mm [Ø6.30"]	10mm	2	Ø99.9mm [Ø3.94"]	6.4 [.25]	8
STYLE 6 (MMNY300)	DM	Ø200mm [Ø7.87"]	M12	6	Ø200mm [Ø7.87"]	12mm	1	N/A	N/A	9
STYLE 7 (FA430I)	DM/90	Ø125mm [Ø4.92"]	M10	6	Ø125mm [Ø4.92"]	10mm	2	Ø79.5mm [Ø3.13"]	6.4 [.25]	10
STYLE 8 (FA420)	DM	Ø92mm [Ø3.62"]	M10	8	Ø92mm [Ø3.62"]	10mm	4	Ø79.5mm [Ø3.13"]	4.8 [.19]	11
STYLE 9 (ABB44)	DM/90	Ø100mm [Ø3.94"]	M10	6	Ø100mm [Ø3.94"]	8mm	2	Ø61.9mm [Ø2.44"]	6.4 [.25]	12
STYLE 10 (KWZ165)	DM/90	Ø125mm [Ø4.92"]	M10	10	Ø125mm [Ø4.92"]	10mm	2	Ø79.5mm [Ø3.13"]	6.4 [.25]	13
STYLE 11 (KWUT120)	90	Ø120mm [Ø4.72"]	M8	8	Ø120mm [Ø4.92"]	8mm	2	N/A	N/A	14
STYLE 12 (FA710)	DM	Ø100mm [Ø3.94"]	M8	6	Ø100mm [Ø3.94"]	8mm	2	N/A	N/A	15
STYLE 14 (MMK100)	90	Ø125mm [Ø4.92"]	M10	6	Ø125mm [Ø4.92"]	10mm	2	Ø61mm [Ø2.40"]	6.4 [.25]	16
STYLE 15 (KA660)	DM/90	Ø160mm [Ø6.30"]	M12	6	Ø160mm [Ø6.30"]	12mm	1	Ø99mm [Ø3.90"]	6.4 [.25]	17
STYLE 16 (FA2000)	DM	Ø125mm [Ø4.92"]	M10	10	Ø125mm [Ø4.92"]	10mm	2	Ø79.5mm [Ø3.13"]	6.4 [.25]	18
STYLE 18 (MMHP165)	DM/90	Ø125mm [Ø4.92"]	M10	6	Ø125mm [Ø4.92"]	10mm	2	Ø62.5mm [Ø2.46"]	6.4 [.25]	19
STYLE 19 (MMHP165)	90	Ø92mm [Ø3.62"]	M10	6	Ø125mm [Ø4.92"]	9mm	2	Ø62.5mm [Ø2.46"]	6.4 [.25]	20
STYLE 21 (EOAMC30)	DM	Ø127mm [Ø5.00"]	3/8-16	6	Ø108mm [Ø4.25"]	.25"(in)	2	N/A	N/A	21
STYLE 22 (FA900-SSM)	DM	Ø125mm [Ø4.92"]	M10	6	Ø125mm [Ø4.92"]	10mm	2	Ø79.5mm [Ø3.13"]	4.8 [.19]	21
STYLE 23 (MD350)	DM/90	Ø187.3mm [Ø7.38"]	3/8-16	4	Ø187.3mm [Ø7.38"]	3/8	2	N/A	N/A	22
STYLE 24 (SA000)	DM	Ø69.5mm [Ø2.74"]	M10	4	N/A	N/A	N/A	N/A	N/A	23

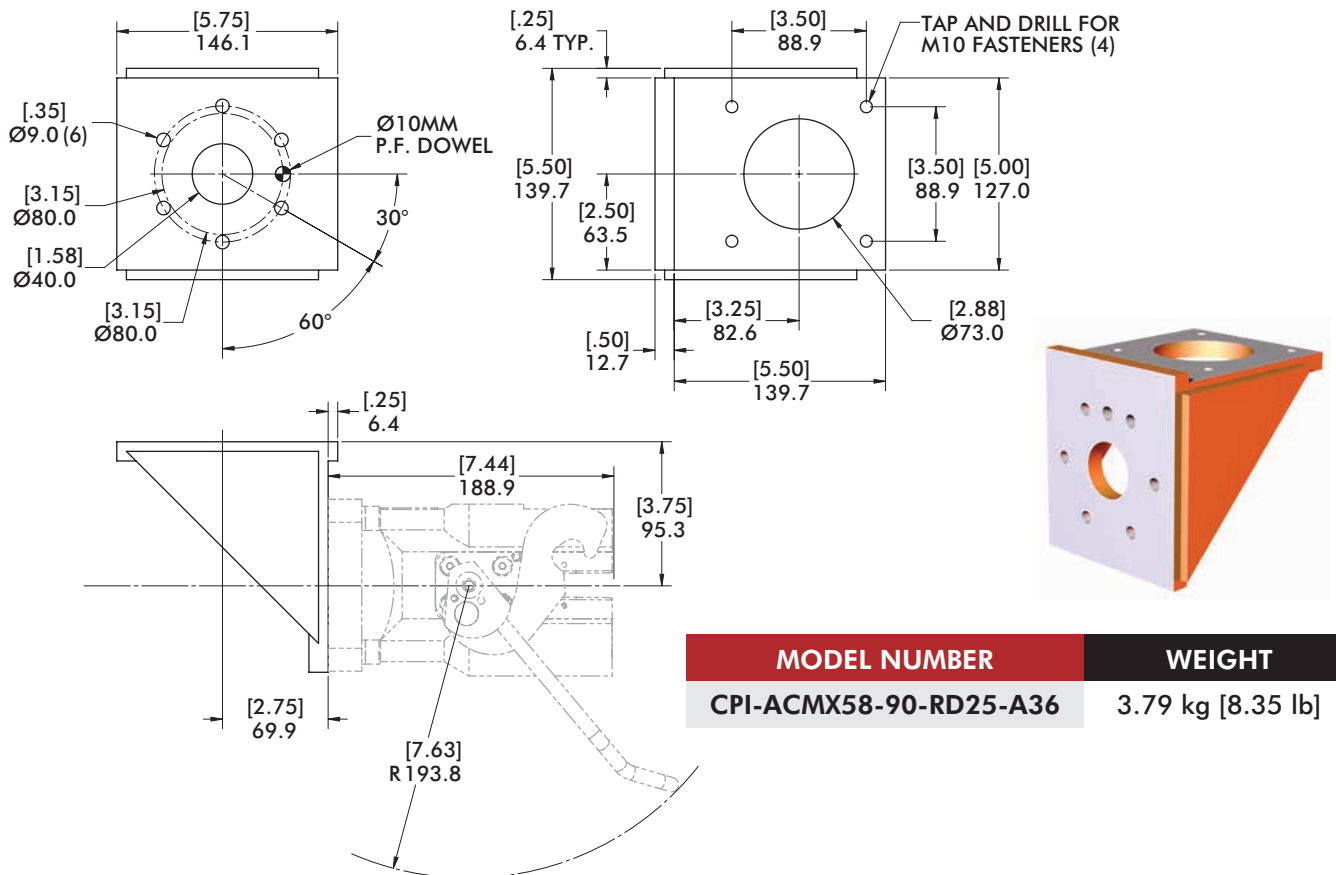


### Style 01 - ACMX58 90° Robot Adaptor (Ø90mm Bolt Circle/Ø80mm Dowel Circle)

**Models Supported:**  
ACMA X58



### Style 01 - ACMX58 90° Robot Adaptor (Ø90mm Bolt Circle/Ø80mm Dowel Circle)



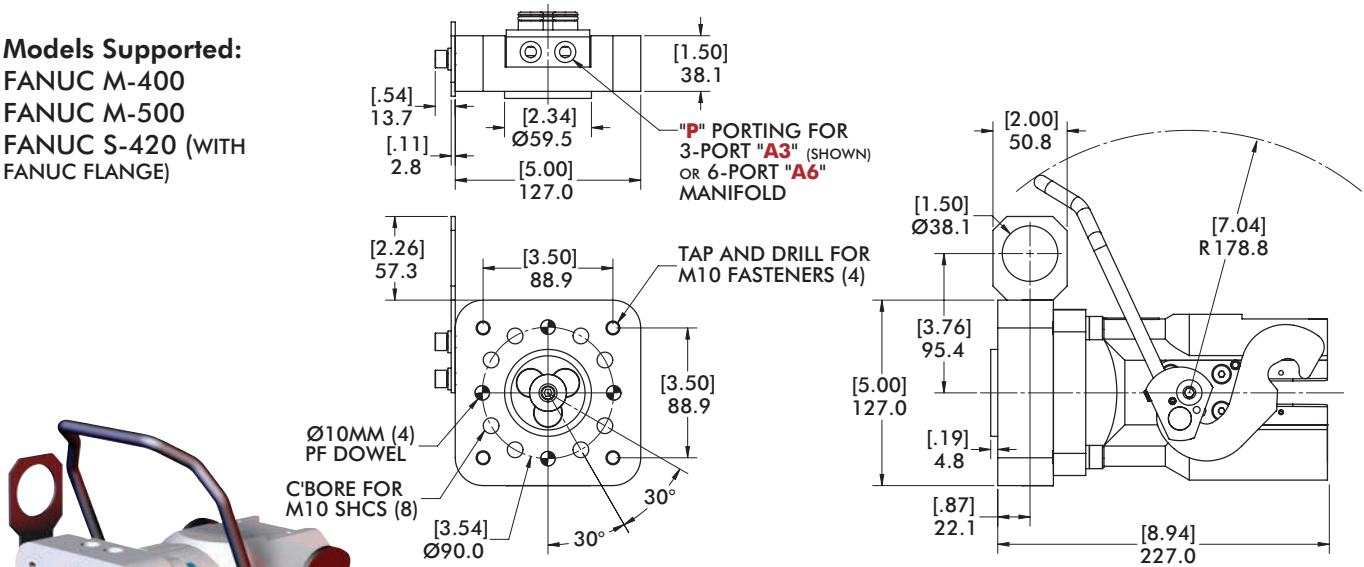


# FA500

## Robot Automation Adaptors | Dimensions

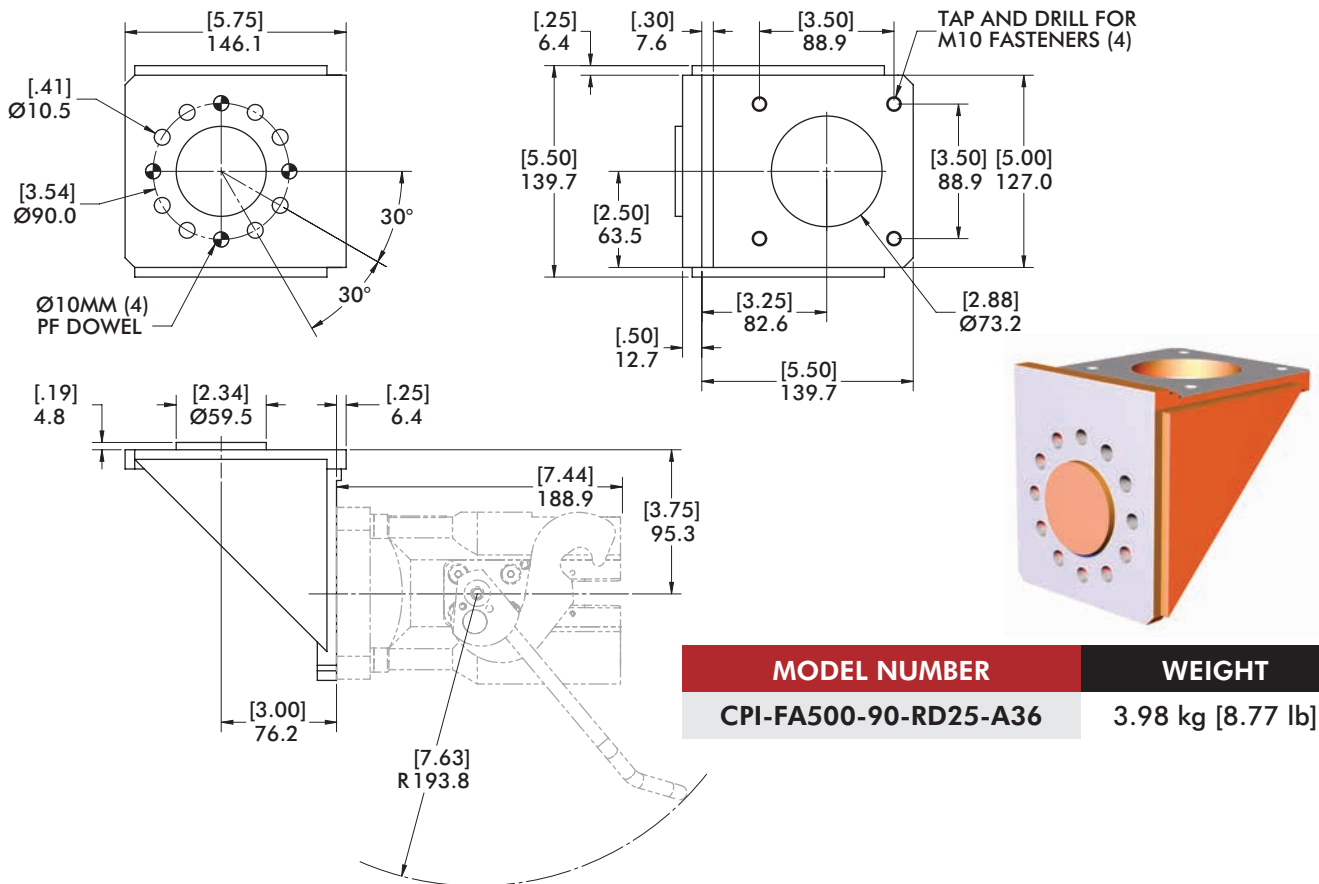
### Style 02 - FA500 Direct Mount Adaptor (Ø90mm Bolt Circle)

**Models Supported:**  
FANUC M-400  
FANUC M-500  
FANUC S-420 (WITH  
FANUC FLANGE)



MODEL NUMBER	PORTING	# OF PORTS	WEIGHT
CPI-FA500-DM-RD25-A3	3/8 NPT	3 (2/1)	1.46 kg [3.21 lb]
CPI-FA500-DM-RD25-A6	1/8 NPT	6 (3/3)	1.50 kg [3.30 lb]

### Style 02 - FA500 90° Robot Adaptor (Ø90mm Bolt Circle)



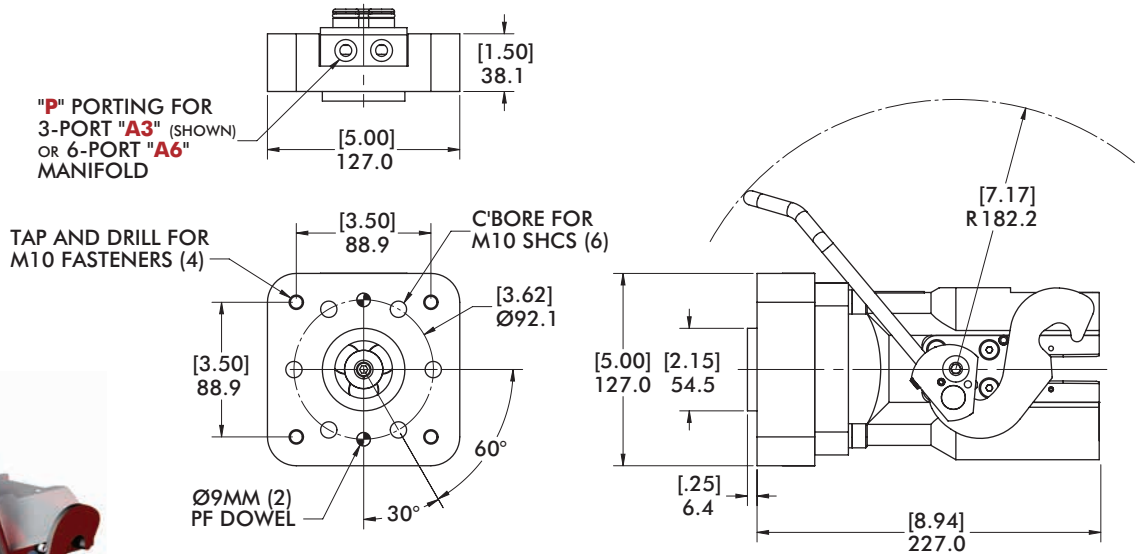
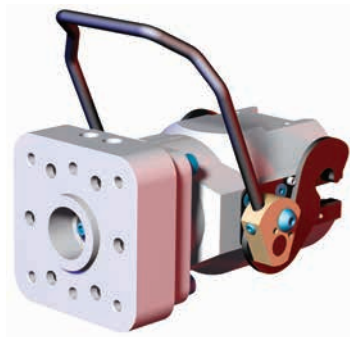
MODEL NUMBER	WEIGHT
CPI-FA500-90-RD25-A36	3.98 kg [8.77 lb]



### Style 03 - KW150 90° Robot Adaptor (Ø92mm Bolt Circle)

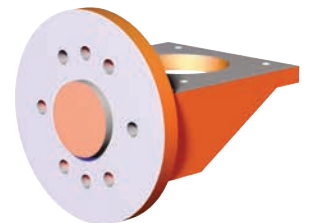
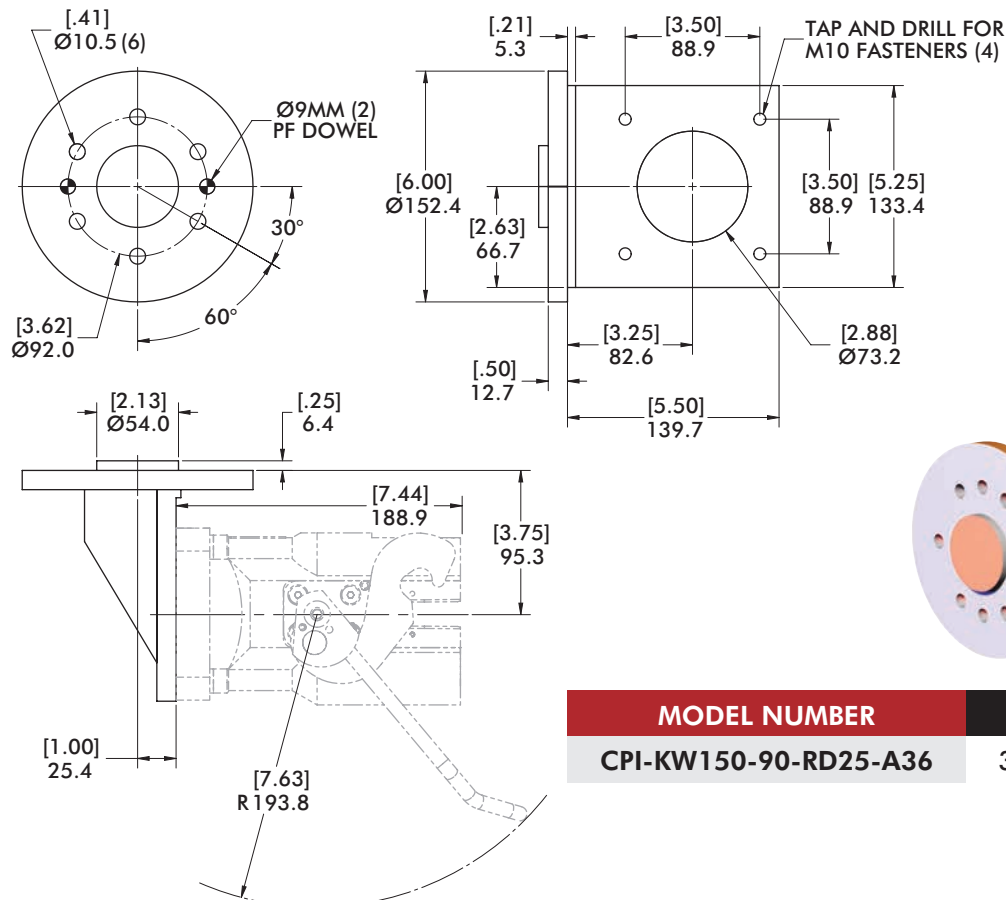
#### Models Supported:

KAWASAKI UX100  
KAWASAKI UX120  
KAWASAKI UX150



MODEL NUMBER	PORTING	# OF PORTS	WEIGHT
CPI-KW150-DM-RD25-A3	3/8 NPT	3 (2/1)	1.45 kg [3.19 lb]
CPI-KW150-DM-RD25-A6	1/8 NPT	6 (3/3)	1.49 kg [3.28 lb]

### Style 03 - KW150 90° Robot Adaptor (Ø92mm Bolt Circle)



MODEL NUMBER	WEIGHT
CPI-KW150-90-RD25-A36	3.63 kg [8.01 lb]



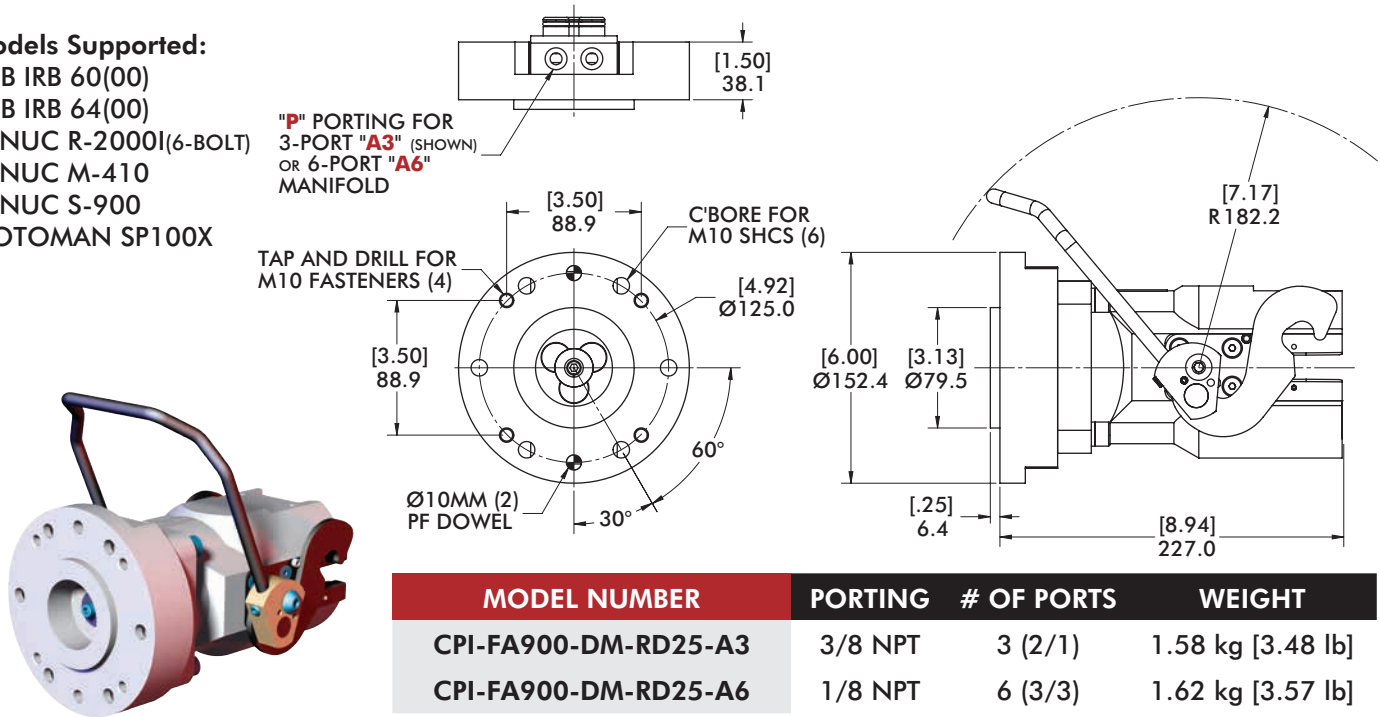
# FA900

## Robot Automation Adaptors | Dimensions

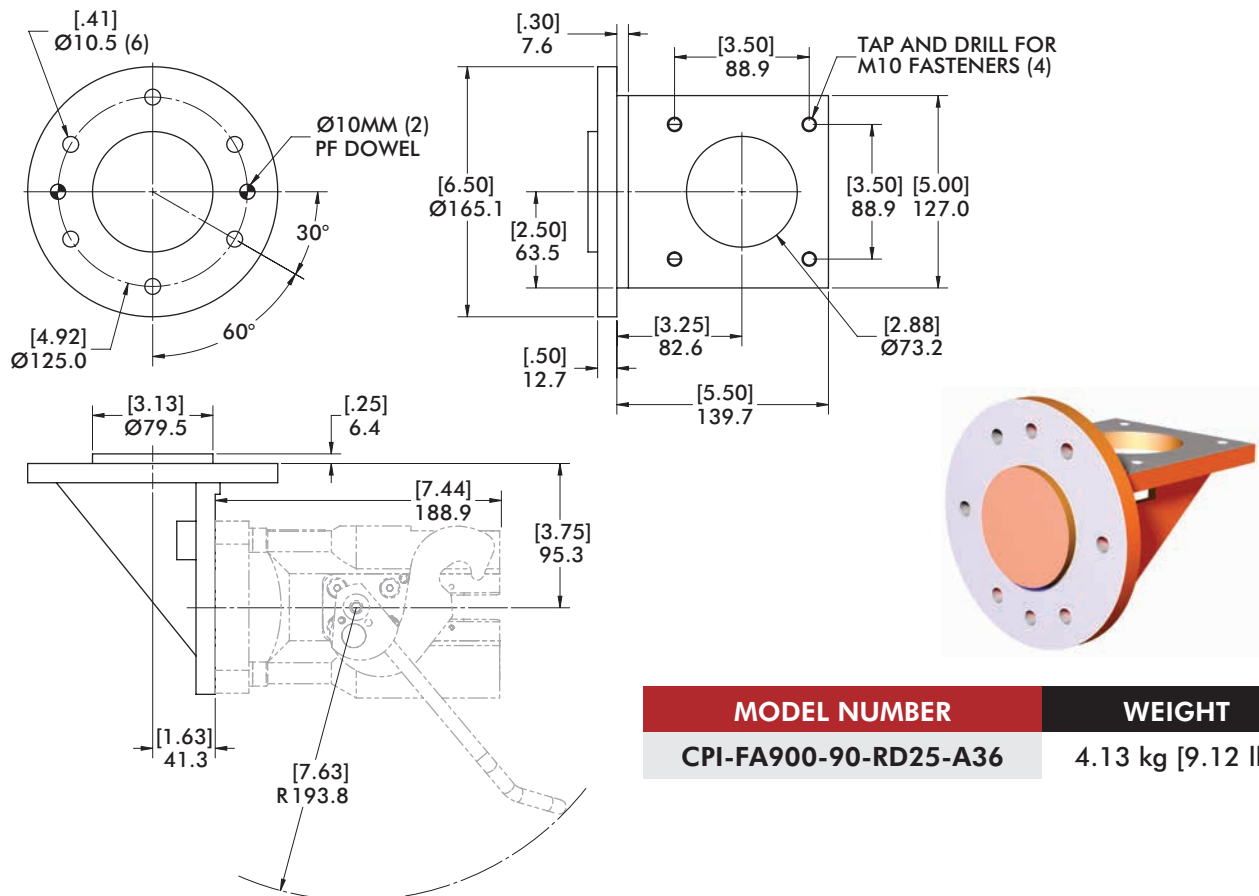
### Style 04 - FA900 Direct Mount Adaptor (Ø125mm Bolt Circle)

#### Models Supported:

ABB IRB 60(00)  
ABB IRB 64(00)  
FANUC R-2000I(6-BOLT)  
FANUC M-410  
FANUC S-900  
MOTOMAN SP100X



### Style 04 - FA900 90° Robot Adaptor (Ø125mm Bolt Circle)

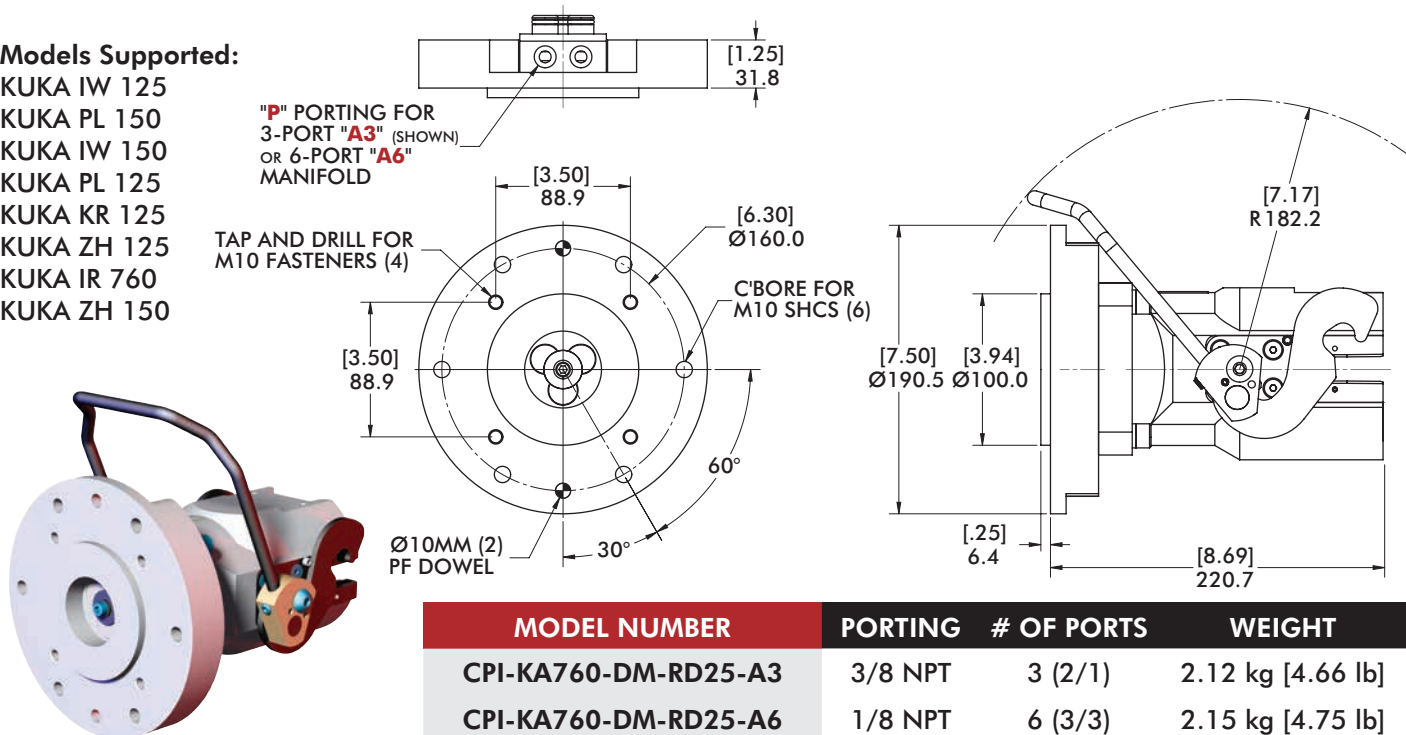




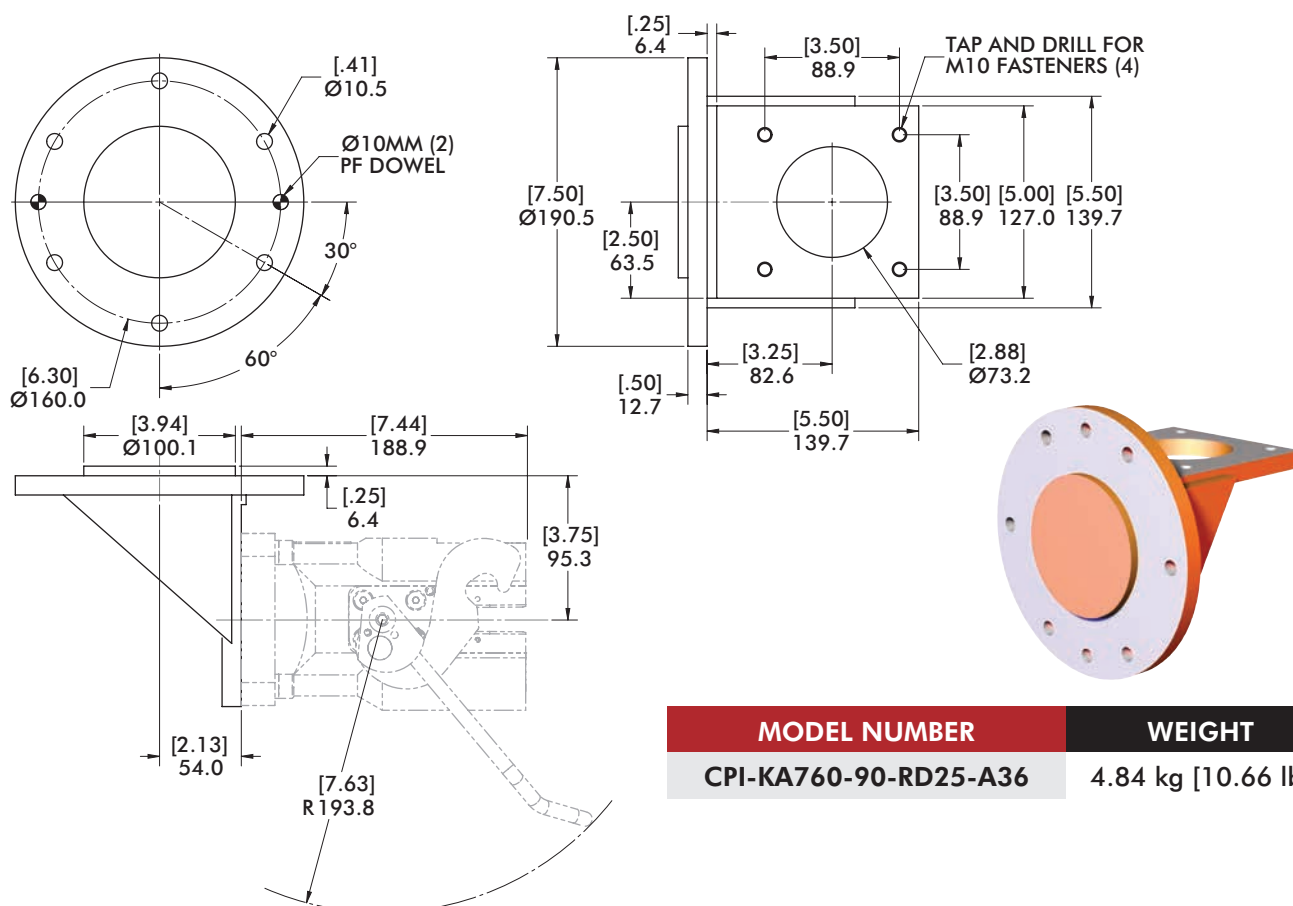
### Style 05 - KA760 Direct Mount Adaptor (Ø160mm Bolt Circle)

#### Models Supported:

KUKA IW 125  
KUKA PL 150  
KUKA IW 150  
KUKA PL 125  
KUKA KR 125  
KUKA ZH 125  
KUKA IR 760  
KUKA ZH 150



### Style 05 - KA760 90° Robot Adaptor (Ø160mm Bolt Circle)



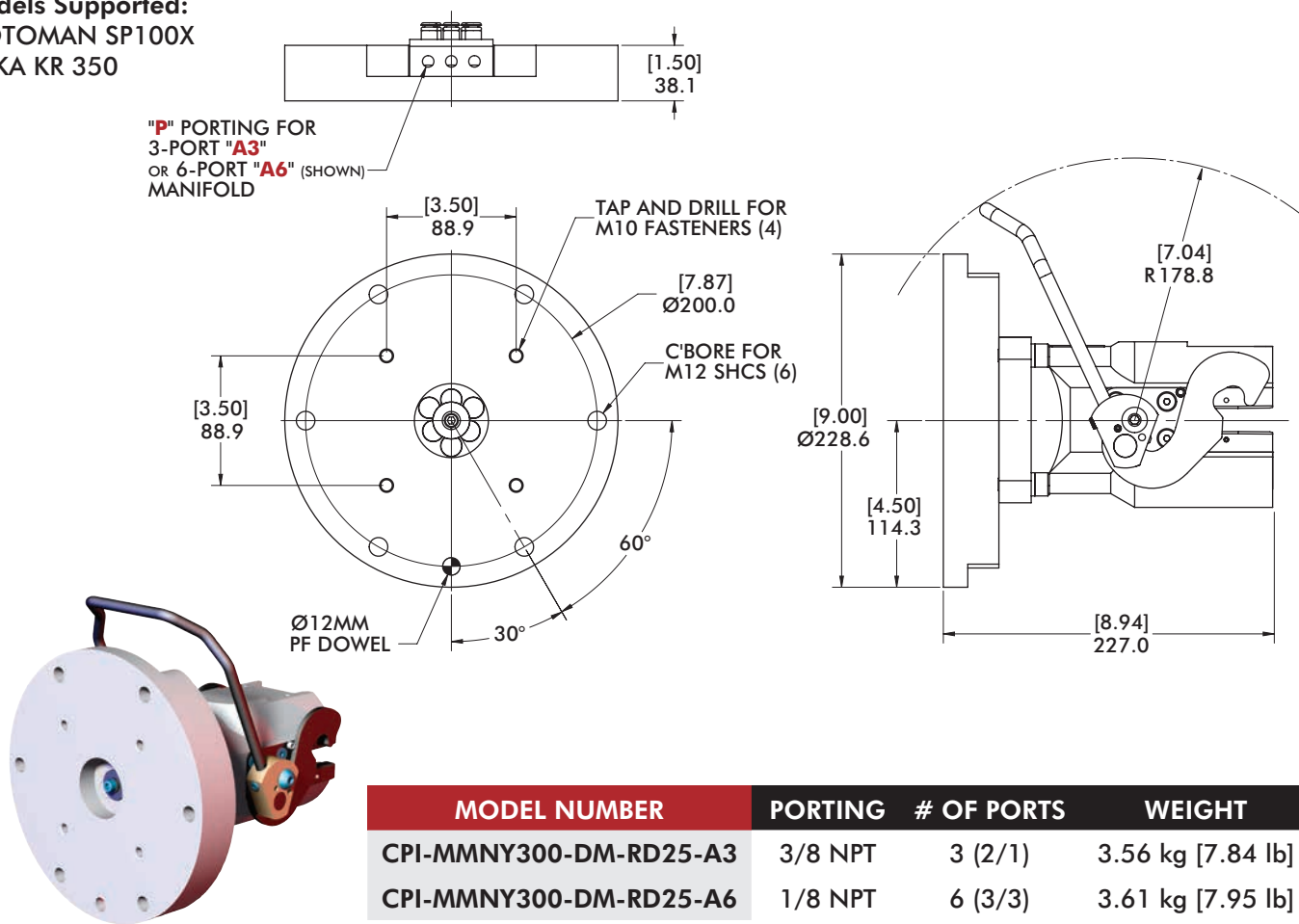


# MMNY300

## Robot Automation Adaptors | Dimensions

### Style 06 - MMNY300 Direct Mount Adaptor (Ø200mm Bolt Circle)

**Models Supported:**  
MOTOMAN SP100X  
KUKA KR 350

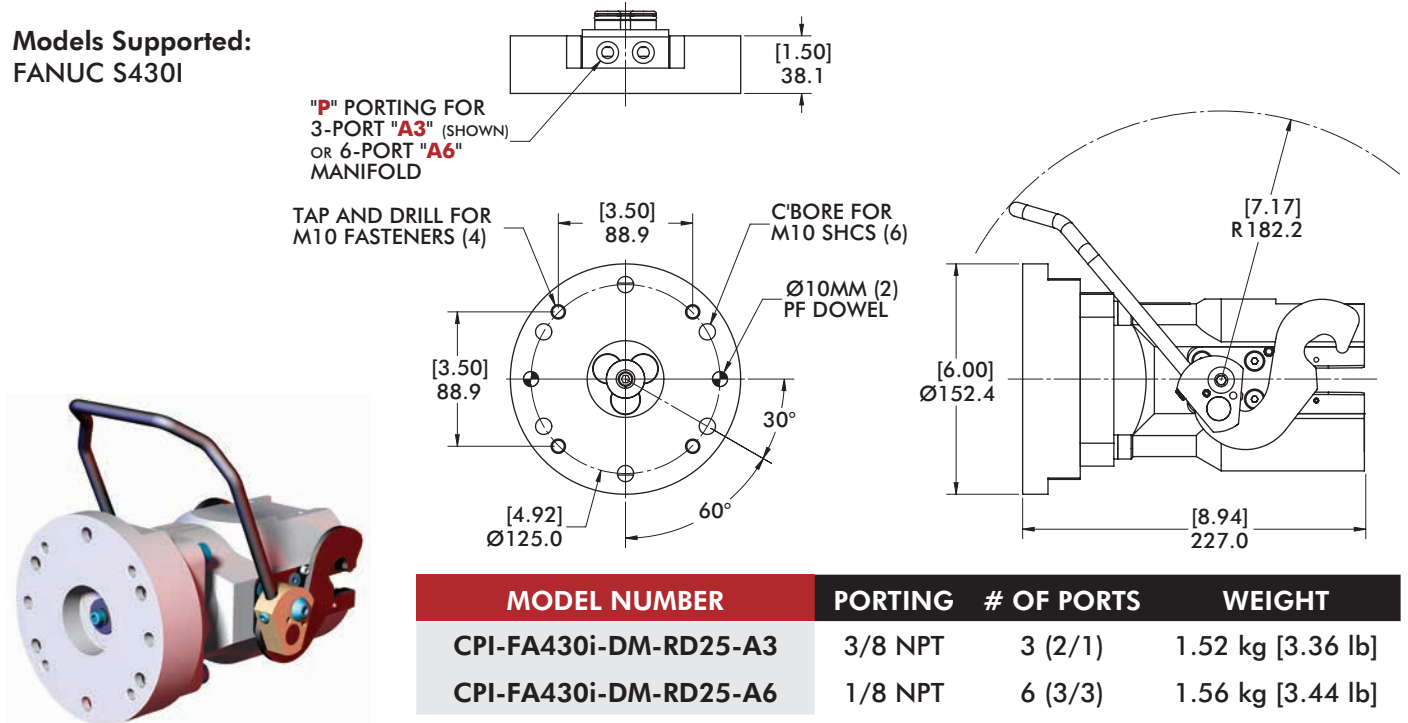


MODEL NUMBER	PORTING	# OF PORTS	WEIGHT
CPI-MMNY300-DM-RD25-A3	3/8 NPT	3 (2/1)	3.56 kg [7.84 lb]
CPI-MMNY300-DM-RD25-A6	1/8 NPT	6 (3/3)	3.61 kg [7.95 lb]

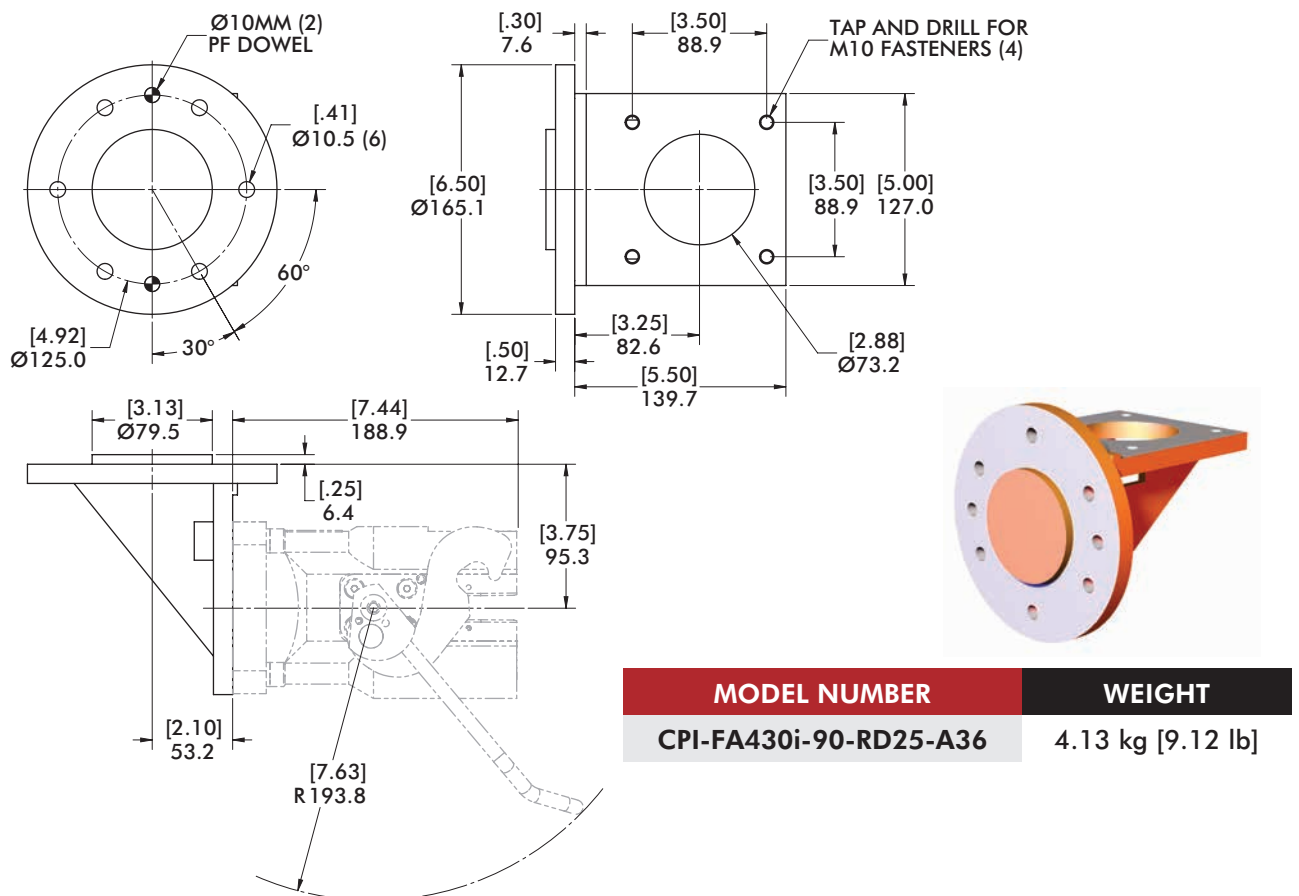


### Style 07 - FA430i Direct Mount Adaptor (Ø125mm Bolt Circle)

**Models Supported:**  
FANUC S430i



### Style 07 - FA430i 90° Robot Adaptor (Ø125mm Bolt Circle)



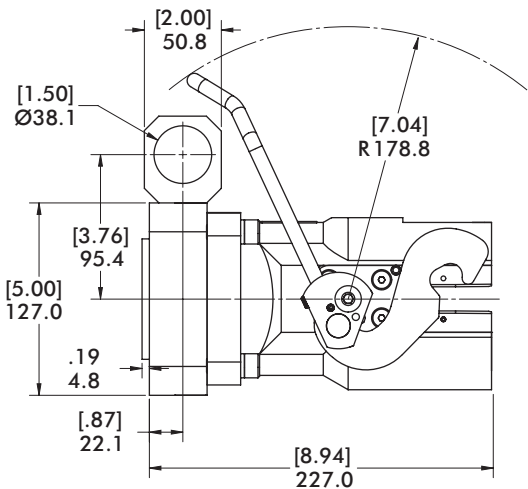
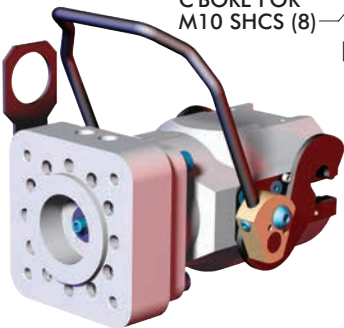
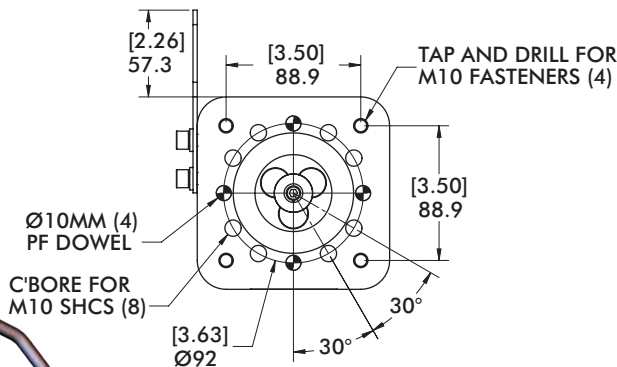
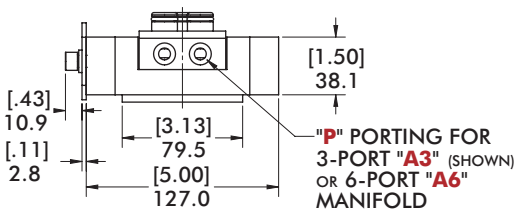


# FA420

## Robot Automation Adaptors | Dimensions

### Style 08 - FA420 Direct Mount Adaptor (Ø92mm Bolt Circle)

**Models Supported:**  
FANUC S420 (WITH  
SPECIAL FLANGE)



MODEL NUMBER	PORTING	# OF PORTS	WEIGHT
CPI-FA420-DM-RD25-A3-SPC	3/8 NPT	3 (2/1)	1.48 kg [3.27 lb]
CPI-FA420-DM-RD25-A6-SPC	1/8 NPT	6 (3/3)	1.52 kg [3.35 lb]



ABB IRB 4400/S  
ABB IRB 4400/60  
ABB IRB 4400/45  
ABB IRB 4400/L30



MODEL NUMBER	PORTING	# OF PORTS	WEIGHT
CPI-ABB44-DM-RD25-A3	3/8 NPT	3 (2/1)	1.57 kg [3.47 lb]
CPI-ABB44-DM-RD25-A6	1/8 NPT	6 (3/3)	1.61 kg [3.55 lb]

Technical drawing of the ABB44-90-RD25-A36 flange assembly, showing dimensions in millimeters.

**Top View Dimensions:**

- Outer Diameter:  $\varnothing 100.0$
- Inner Diameter:  $\varnothing 63.5$
- Mounting Hole Diameter:  $\varnothing 10.5$
- Mounting Hole Spacing:  $88.9$
- Mounting Hole Position:  $30^\circ$  and  $60^\circ$

**Side View Dimensions:**

- Flange Thickness:  $12.7$
- Mounting Hole Diameter:  $\varnothing 10.5$
- Mounting Hole Spacing:  $88.9$
- Mounting Hole Position:  $30^\circ$  and  $60^\circ$

**Cross-sectional View Dimensions:**

- Flange Thickness:  $12.7$
- Mounting Hole Diameter:  $\varnothing 10.5$
- Mounting Hole Spacing:  $88.9$
- Mounting Hole Position:  $30^\circ$  and  $60^\circ$

**Note:** TAP AND DRILL FOR M10 FASTENERS (4)

MODEL NUMBER	WEIGHT
CPI-ABB44-90-RD25-A36	3.24 kg [7.15 lb]

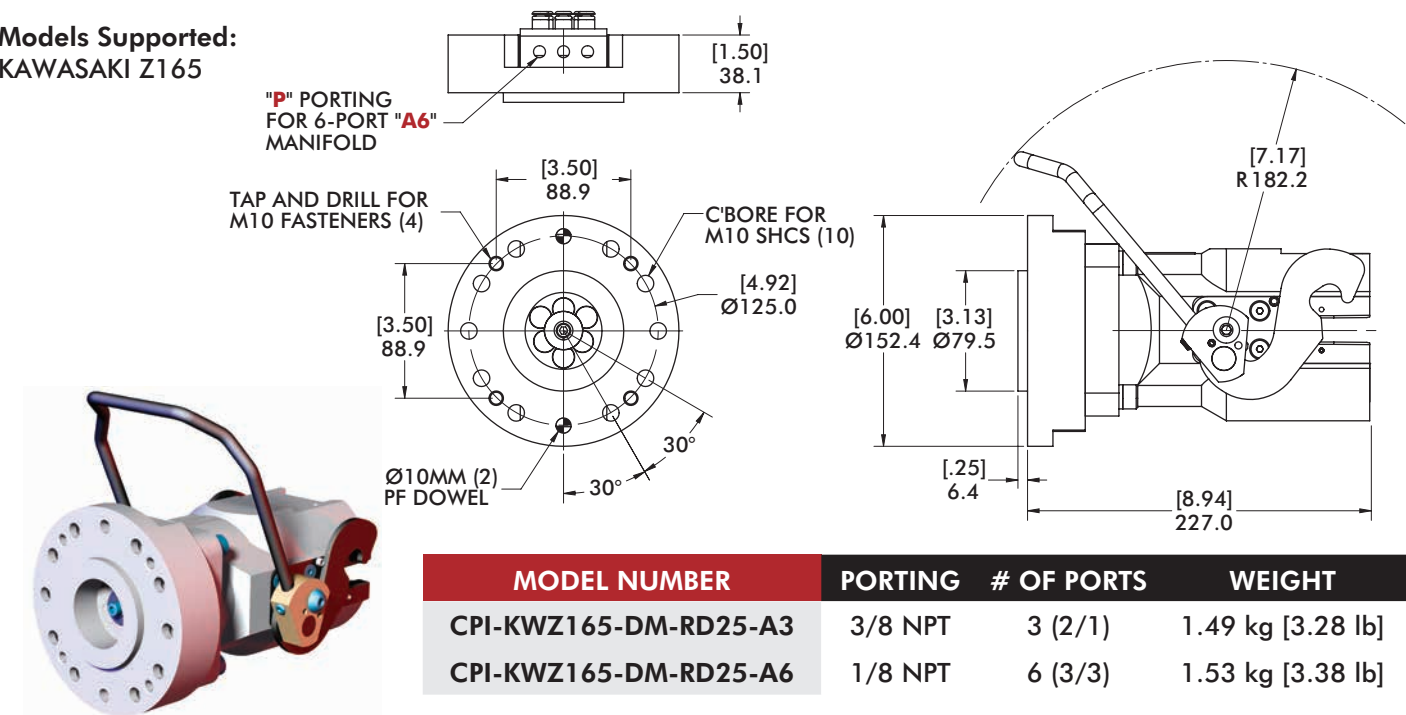


# KWZ165

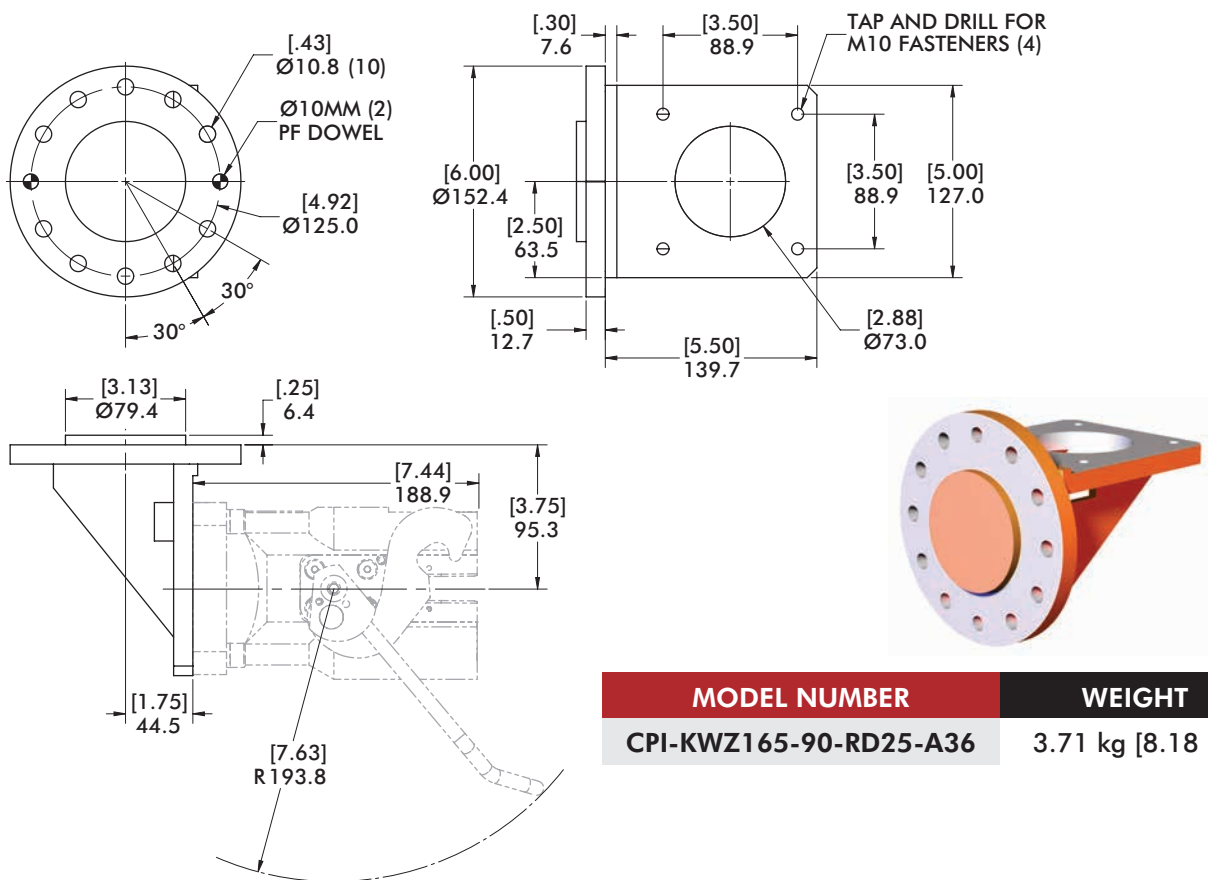
## Robot Automation Adaptors | Dimensions

### Style 10 - KWZ165 Direct Mount Adaptor (Ø125mm Bolt Circle)

Models Supported:  
KAWASAKI Z165



### Style 10 - KWZ165 90° Robot Adaptor (Ø125mm Bolt Circle)





The technical drawings illustrate the dimensions for the Kawasaki UT120 engine assembly. The top view shows a circular mounting plate with a diameter of 120.0 mm, featuring 8 M10 fasteners arranged in a circle with a diameter of 152.4 mm. The side view shows the engine block with a height of 127.0 mm and a width of 139.7 mm. The detail view shows the mounting bracket with a height of 95.3 mm and a width of 188.9 mm. The engine block is labeled with a radius of R193.8.

**Top View Dimensions:**

- Overall Diameter:  $\varnothing 152.4$
- Fastener Circle Diameter:  $\varnothing 120.0$
- Fastener Size: 8MM (2) PF DOWEL
- Fastener Circle Diameter:  $\varnothing 73.0$
- Fastener Spacing: [4.72]
- Fastener Spacing: [3.40]
- Fastener Spacing: [8.7] (8)
- Fastener Spacing: [2.30]
- Fastener Spacing: [45°]
- Fastener Spacing: [23°]

**Side View Dimensions:**

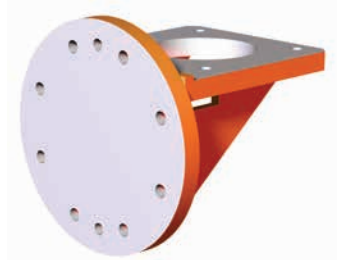
- Overall Height: 127.0
- Overall Width: 139.7
- Fastener Circle Diameter:  $\varnothing 73.0$
- Fastener Spacing: [3.50]
- Fastener Spacing: [5.00]
- Fastener Spacing: [88.9]
- Fastener Spacing: [2.50]
- Fastener Spacing: [63.5]
- Fastener Spacing: [7.6]
- Fastener Spacing: [3.25]
- Fastener Spacing: [82.6]
- Fastener Spacing: [5.50]
- Fastener Spacing: [12.7]
- Fastener Spacing: [2.88]

**Detail View Dimensions:**

- Overall Height: 95.3
- Overall Width: 188.9
- Fastener Circle Diameter:  $\varnothing 73.0$
- Fastener Spacing: [7.44]
- Fastener Spacing: [3.75]
- Fastener Spacing: [1.75]
- Fastener Spacing: [44.5]
- Fastener Spacing: [7.63]
- Fastener Spacing: R193.8

**Models Supported:**  
KAWASAKI UT120

**MODEL NUMBER**  
CPI-KWUT120-90-RD25-A36



### Models Supported:

KAWASAKI UT120

MODEL NUMBER	WEIGHT
CPI-KWUT120-90-RD25-A36	3.58 kg [7.90 lb]

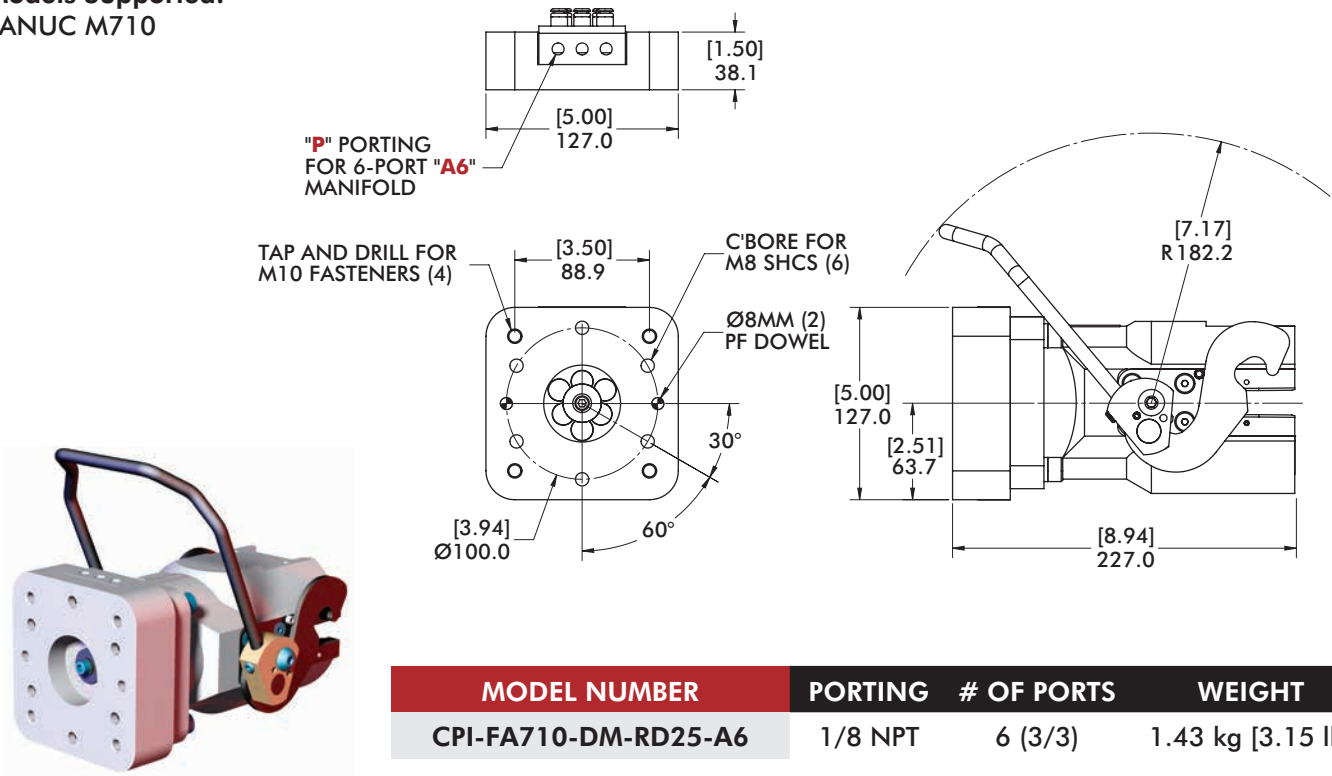


# FA710

## Robot Automation Adaptors | Dimensions

### Style 12 - FA710 Direct Mount Adaptor (Ø100mm Bolt Circle)

Models Supported:  
FANUC M710



MODEL NUMBER	PORTING	# OF PORTS	WEIGHT
CPI-FA710-DM-RD25-A6	1/8 NPT	6 (3/3)	1.43 kg [3.15 lb]



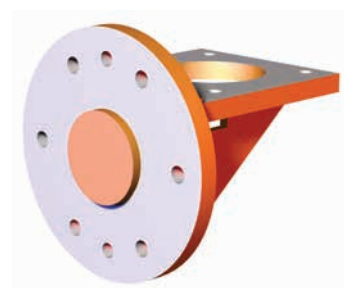
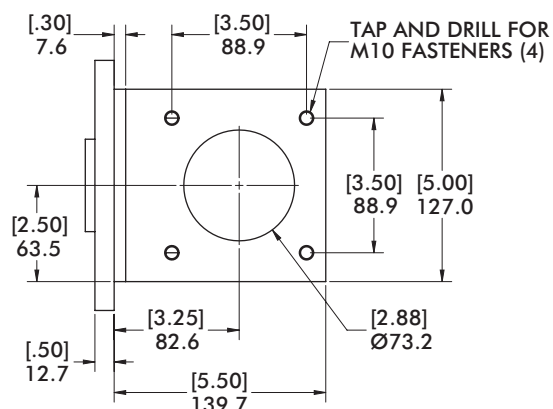
Technical drawing of a mechanical part showing a top view and a side view. The top view is a circular flange with a central hole of diameter Ø125.0 and an outer diameter of Ø165.1. It features six mounting holes of diameter Ø11.0 spaced 60 degrees apart, and two larger holes of diameter Ø10MM spaced 30 degrees apart. The side view shows a flange thickness of 6.4 and a mounting bracket with a radius R193.8. Dimensions are provided in both inches and millimeters.

**Top View Dimensions:**

- Outer Diameter: Ø165.1
- Inner Diameter: Ø125.0
- Mounting Hole Diameter: Ø11.0 (6)
- Mounting Hole Spacing: 60°
- Flange Thickness: 6.4
- Mounting Bracket Radius: R193.8

**Side View Dimensions:**

- Flange Thickness: 6.4
- Mounting Bracket Radius: R193.8



**Models Supported:**  
COMAU CMH3.2  
MOTOMAN K100  
MOTOMAN UP130

MODEL NUMBER	WEIGHT
CPI-MMK100-90-RD25-A36	4.03 kg [8.88 lb]

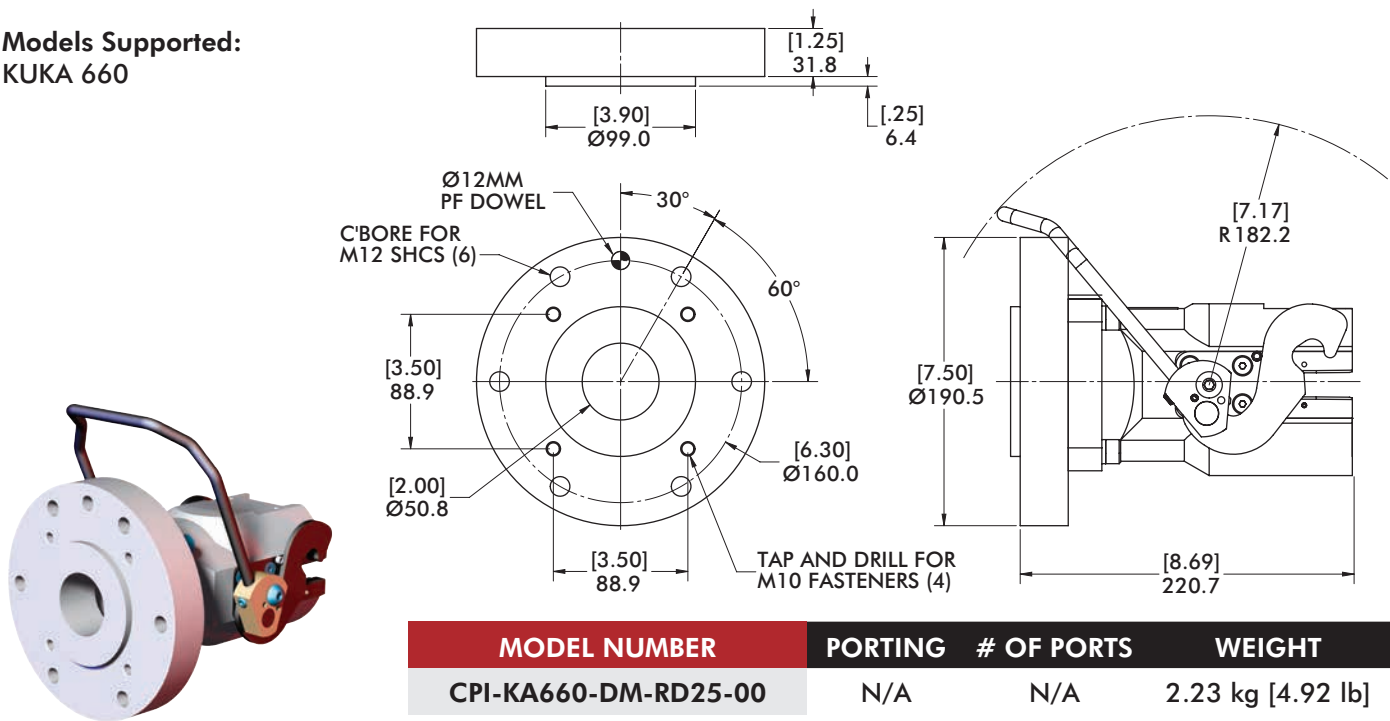


# KA660

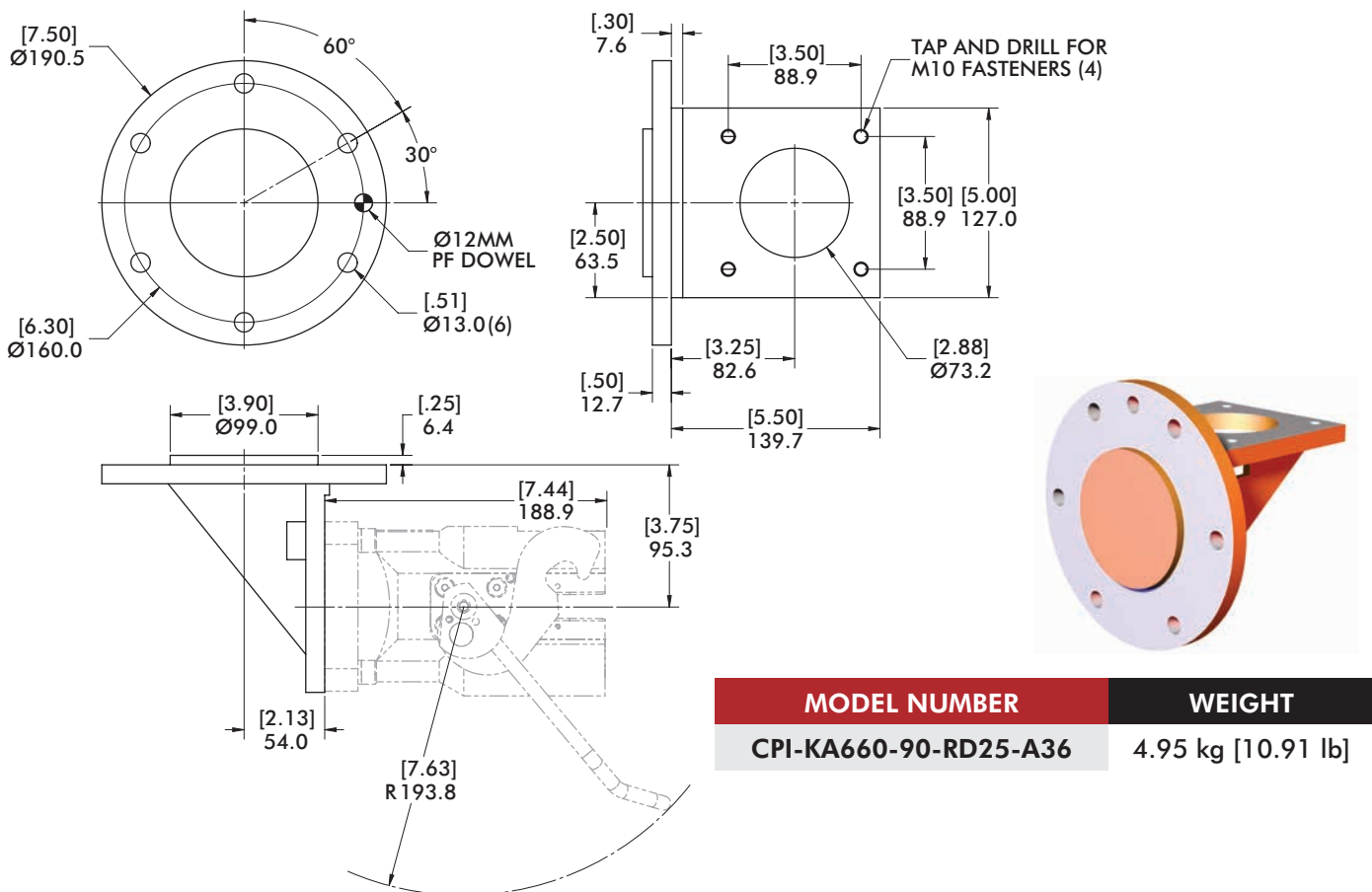
## Robot Automation Adaptors | Dimensions

### Style 15 - KA660 Direct Mount Adaptor (Ø160mm Bolt Circle)

Models Supported:  
KUKA 660



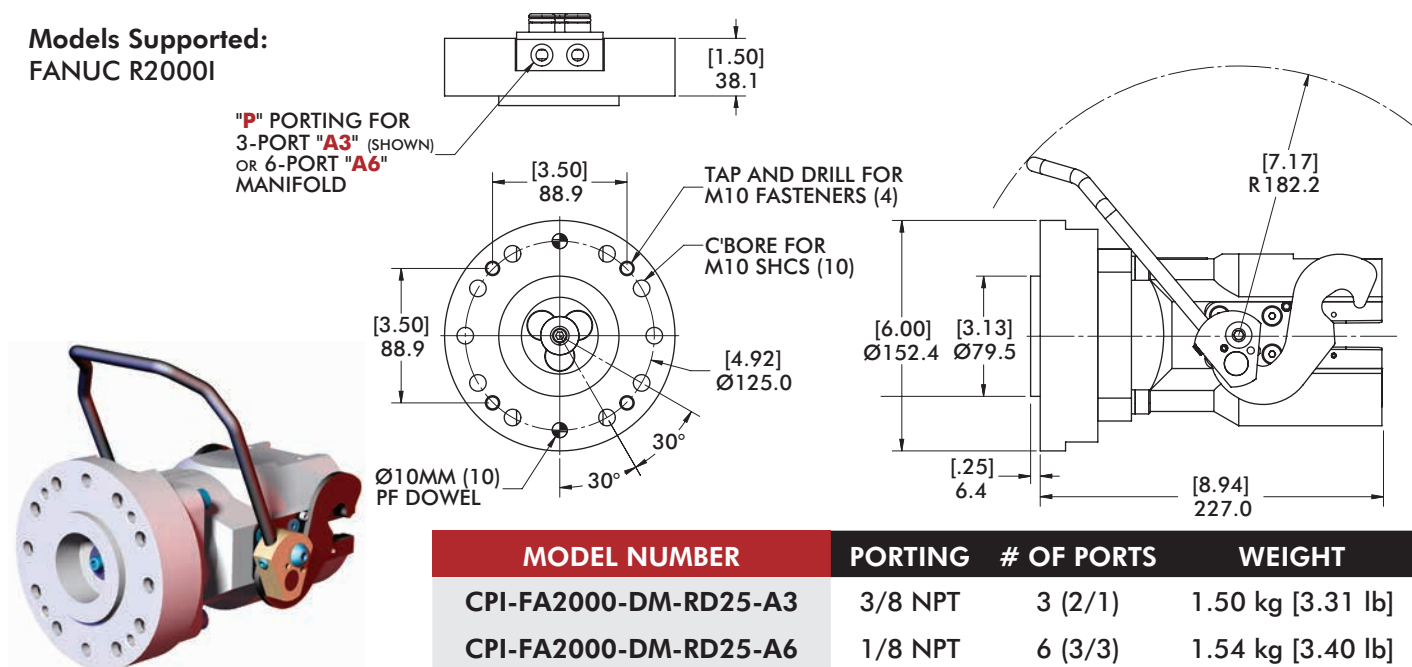
### Style 15 - KA660 90° Robot Adaptor (Ø160mm Bolt Circle)



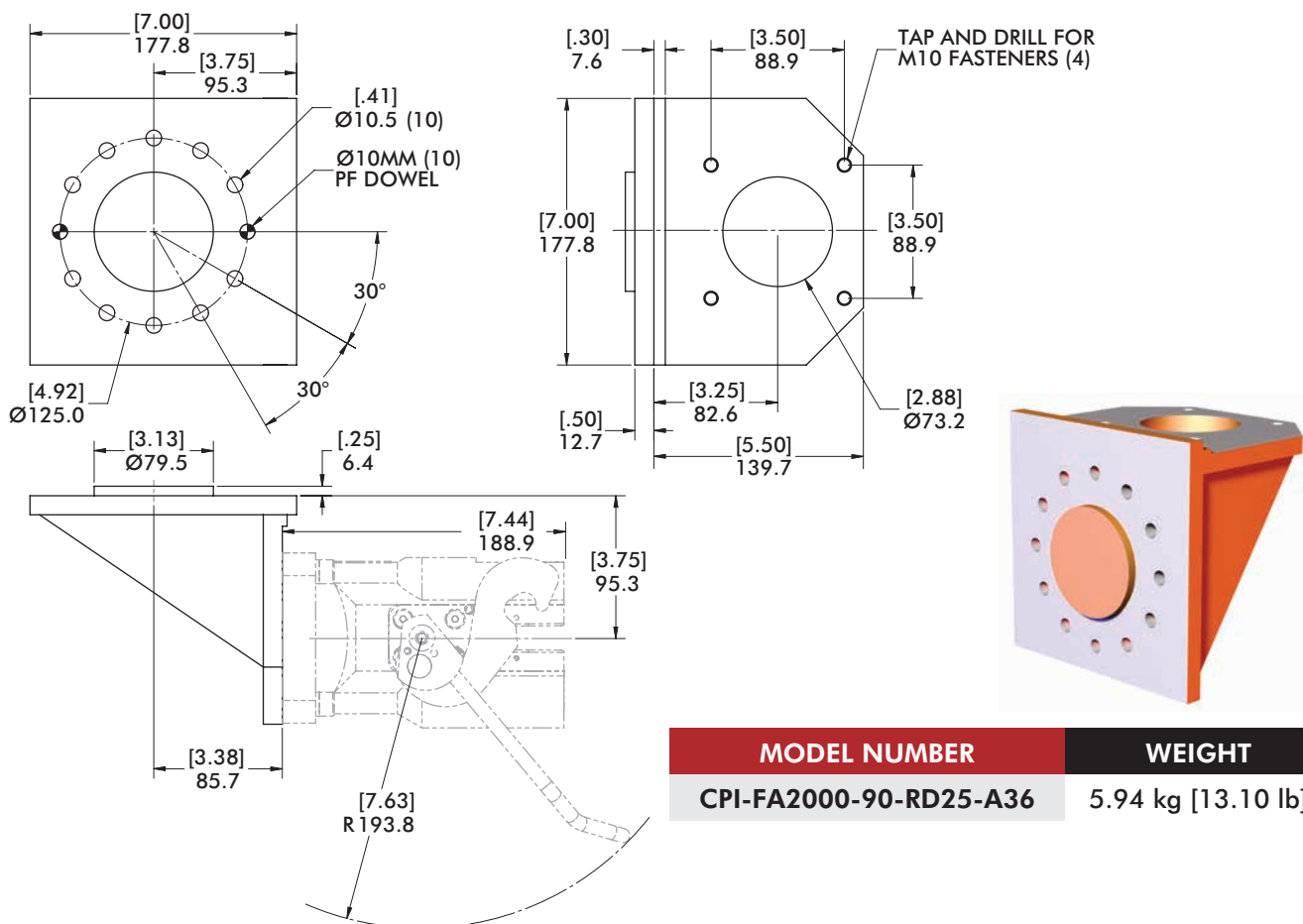


### Style 16 - FA2000 Direct Mount Adaptor (Ø125mm Bolt Circle)

**Models Supported:**  
FANUC R2000I



### Style 16 - FA2000 90° Robot Adaptor (Ø125mm Bolt Circle)



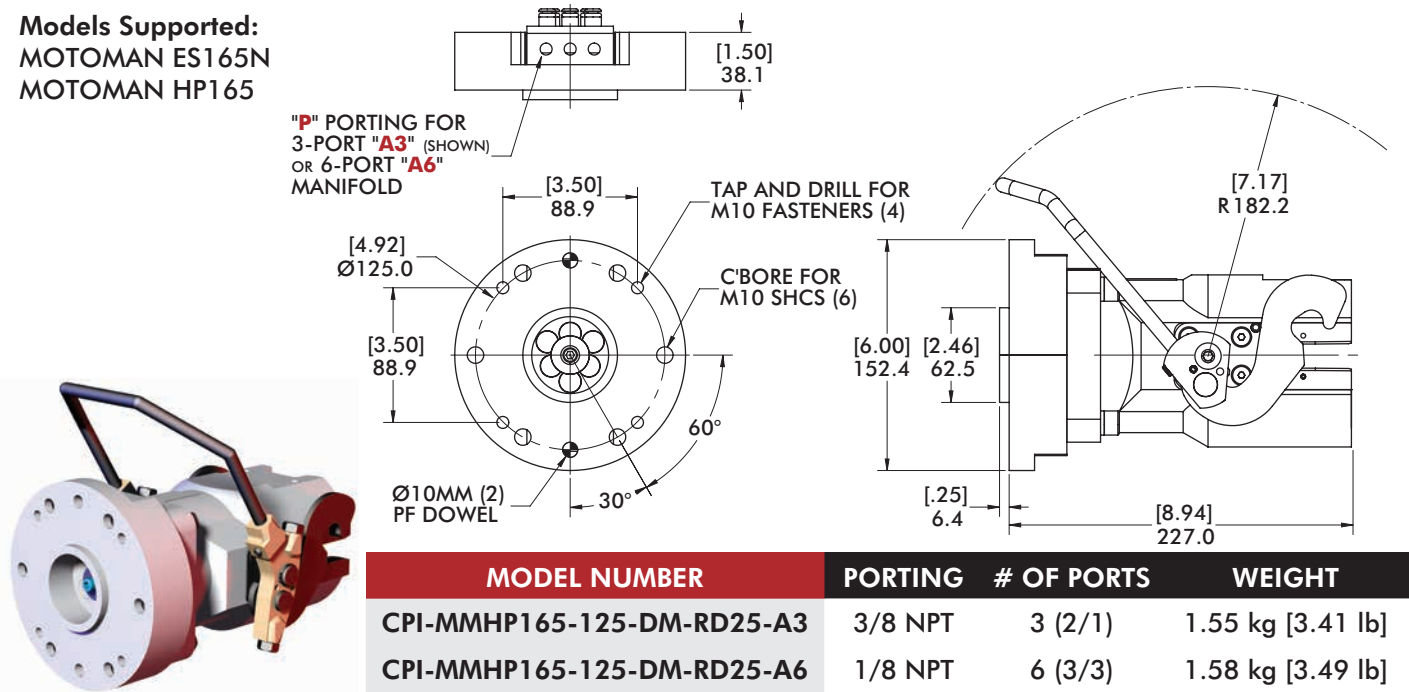


# MMHP165

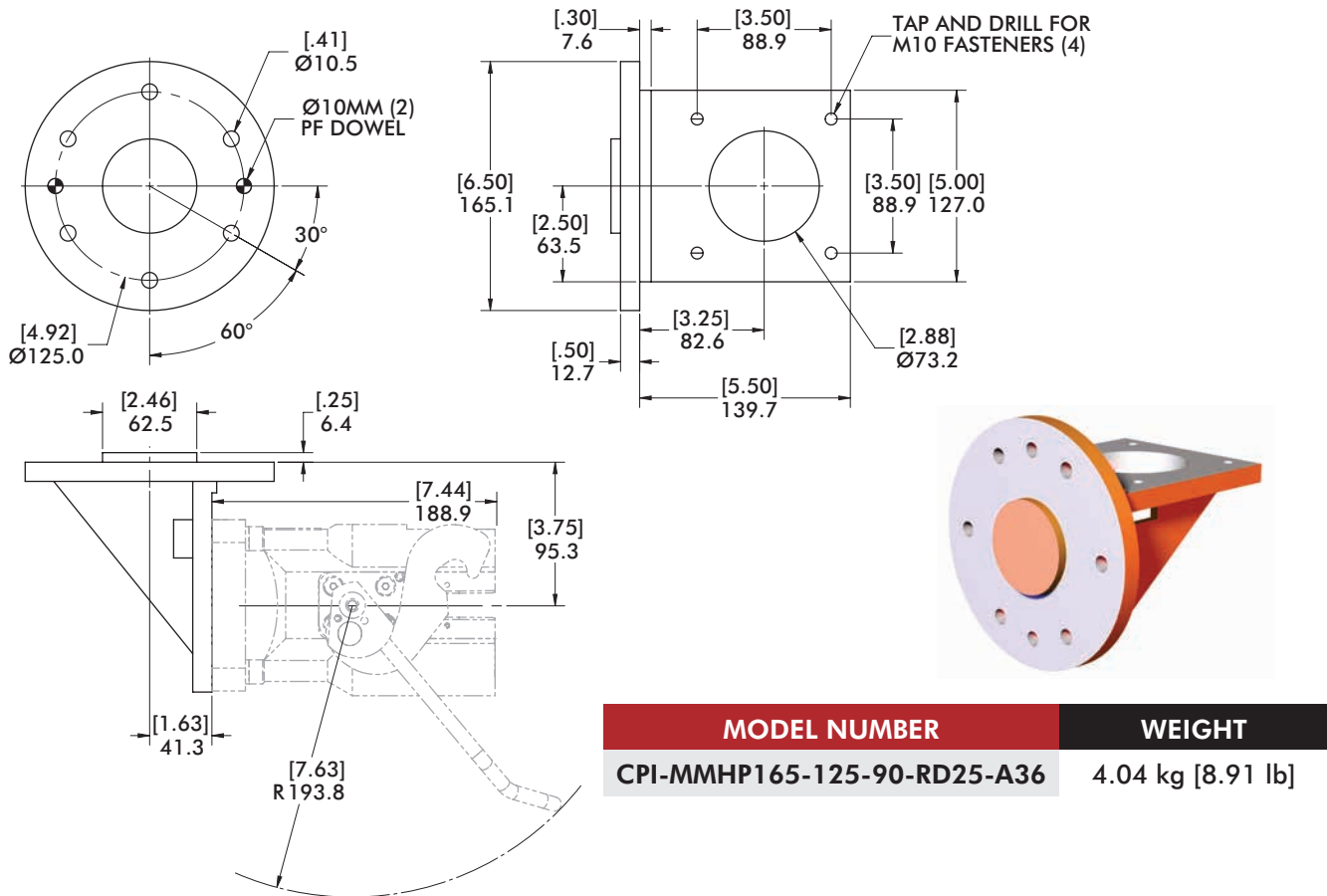
## Robot Automation Adaptors | Dimensions

### Style 15 - KA660 Direct Mount Adaptor (Ø160mm Bolt Circle)

Models Supported:  
MOTOMAN ES165N  
MOTOMAN HP165



### Style 15 - KA660 90° Robot Adaptor (Ø125mm Bolt Circle)

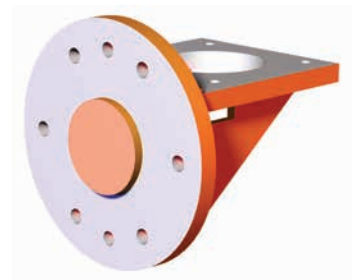
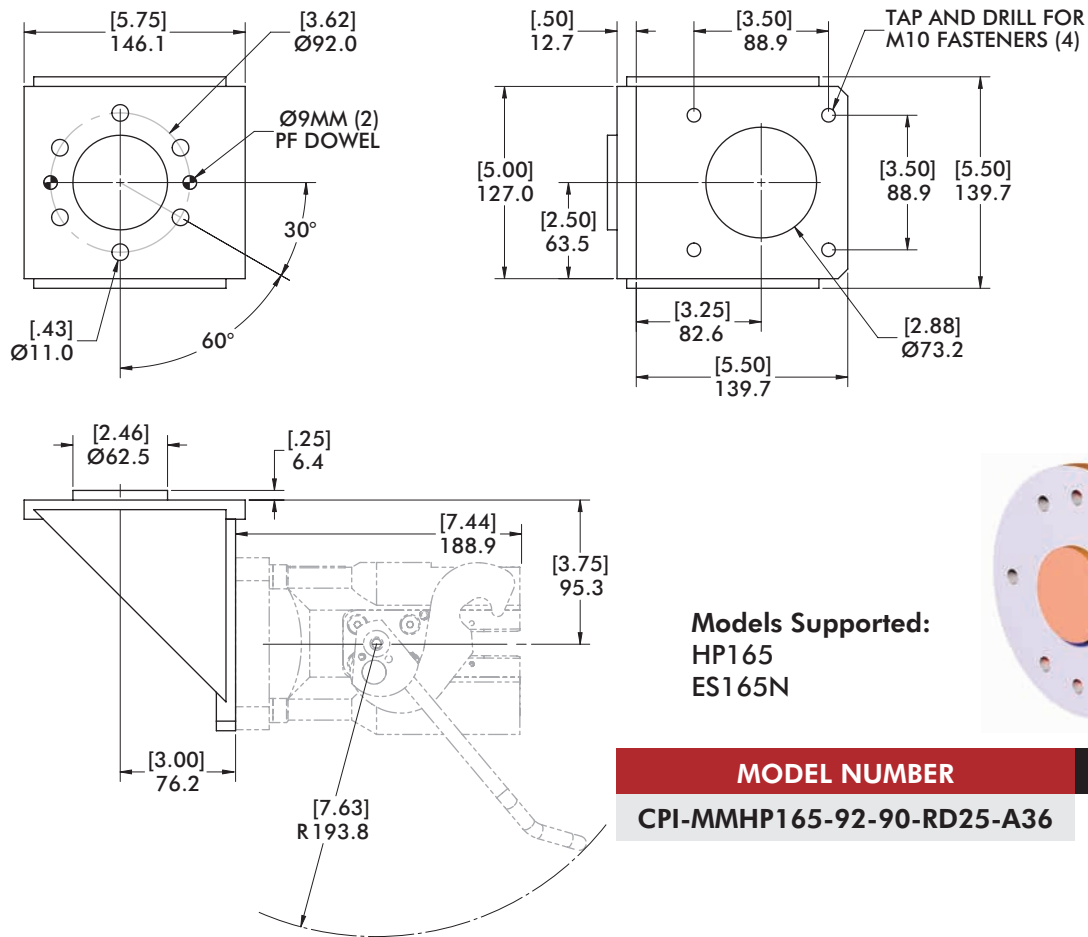




# MMHP 165

## Robot Automation Adaptors | Dimensions

### Style 19 - **MMHP165** 90° Adaptor (Ø92mm Bolt Circle)



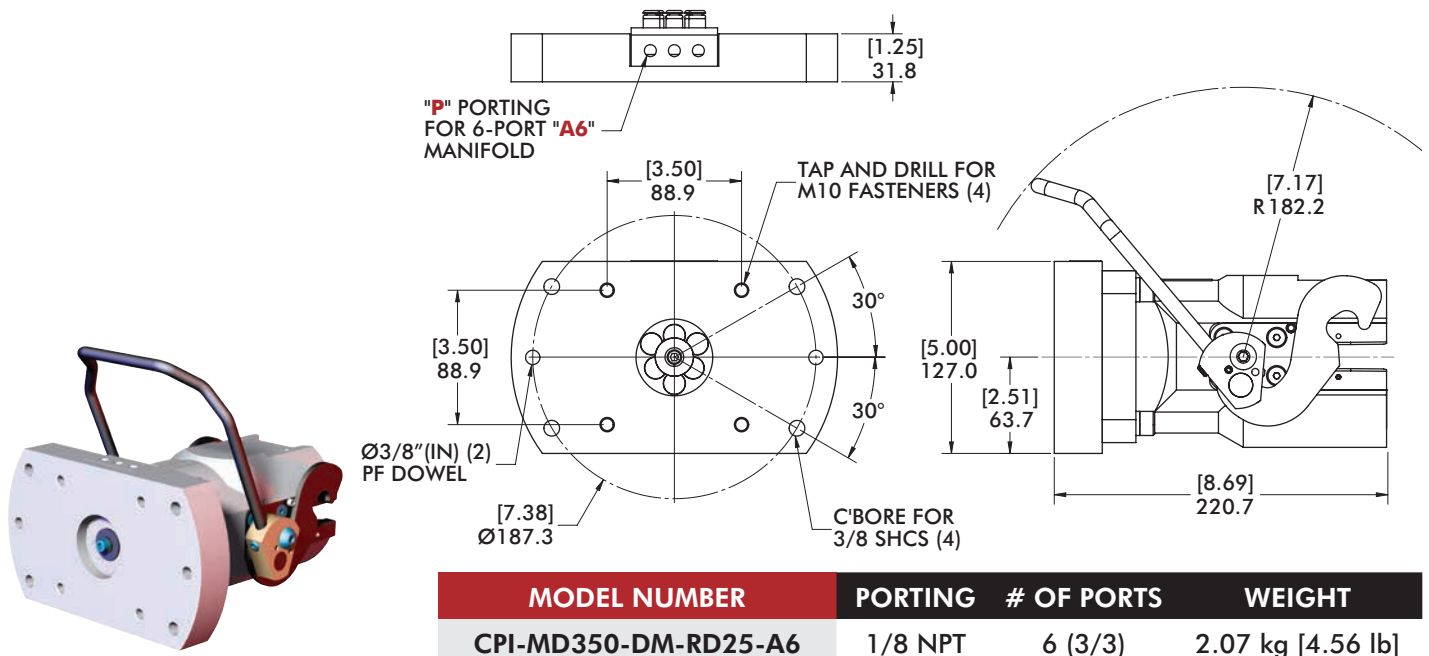
MODEL NUMBER	WEIGHT
CPI-MMHP165-92-90-RD25-A36	4.03 kg [8.89 lb]



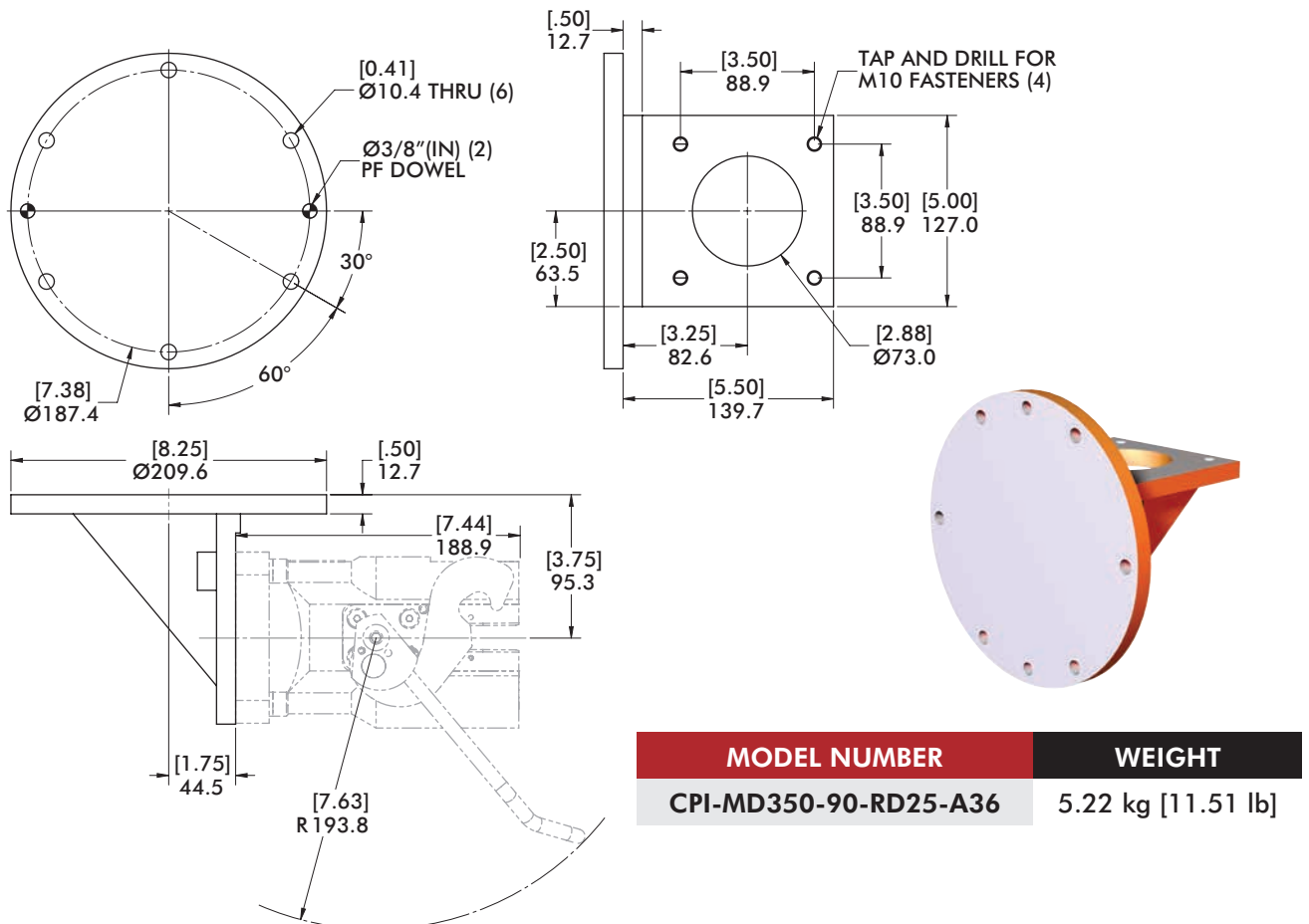




### Style 23 - MD350 Direct Mount Adaptor - Ø187.3mm Bolt Circle



### Style 23 - MD350 90° Robot Adaptor

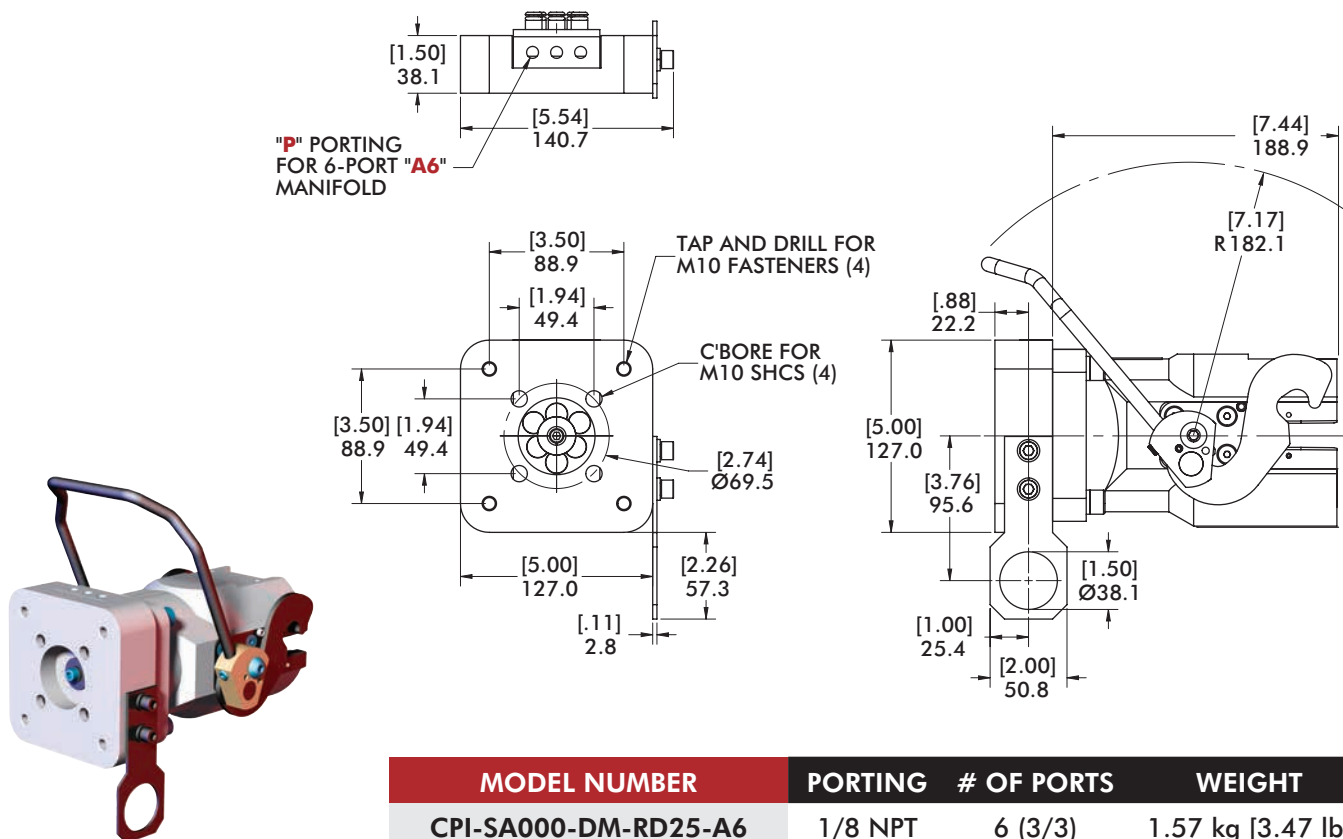




# SA000

## Robot Automation Adaptors | Dimensions

### Style 24 - SA000 Direct Mount Adaptor - Ø69.5mm Bolt Circle

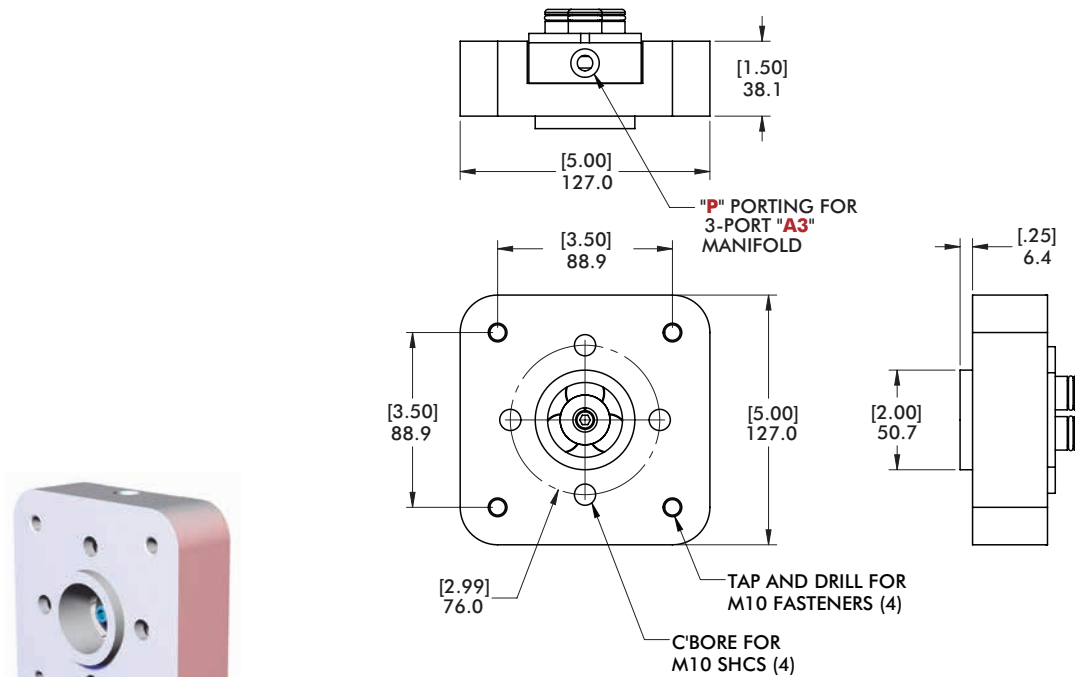




# CM975XL, CHM32

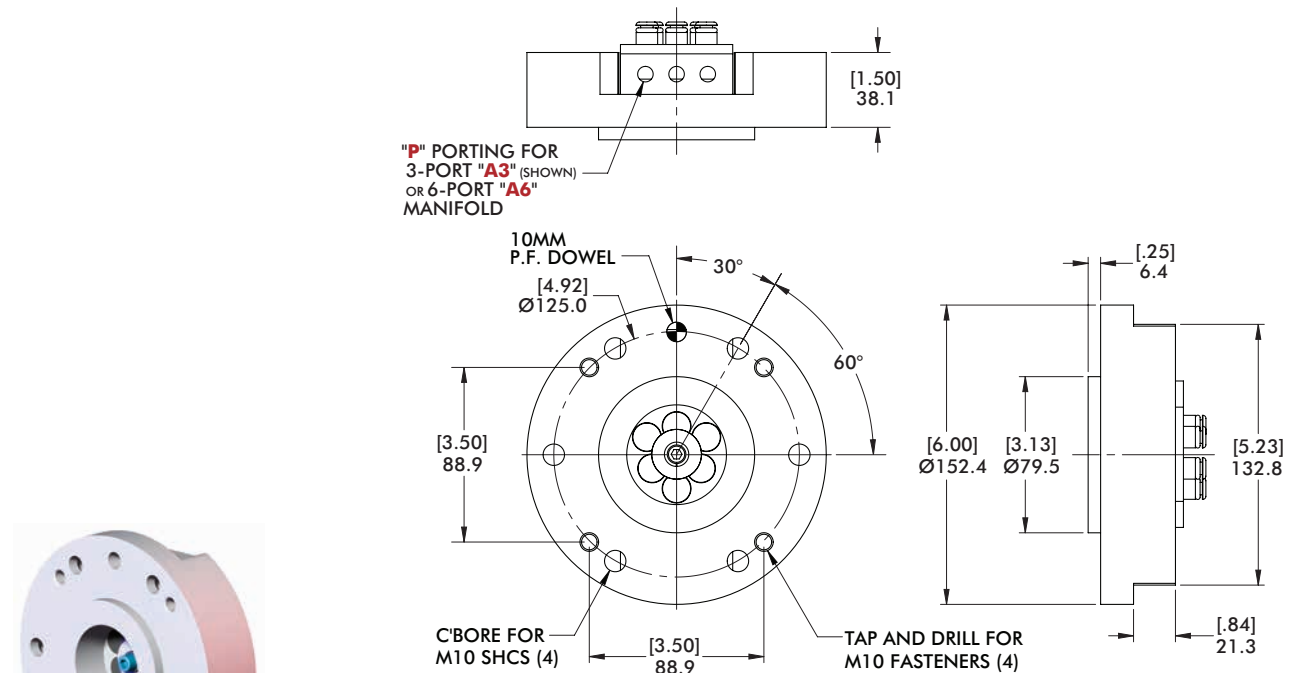
Robot Automation Adaptors | Dimensions

## CM975XL Direct Mount Adaptor - Ø76mm Bolt Circle



MODEL NUMBER	PORTING	# OF PORTS	WEIGHT
CPI-CM675XL-DM-RD25-A3	3/8 NPT	3 (2/1)	1.47 kg [3.24 lb]

## CHM32 Direct Mount Adaptor - Ø125mm Bolt Circle



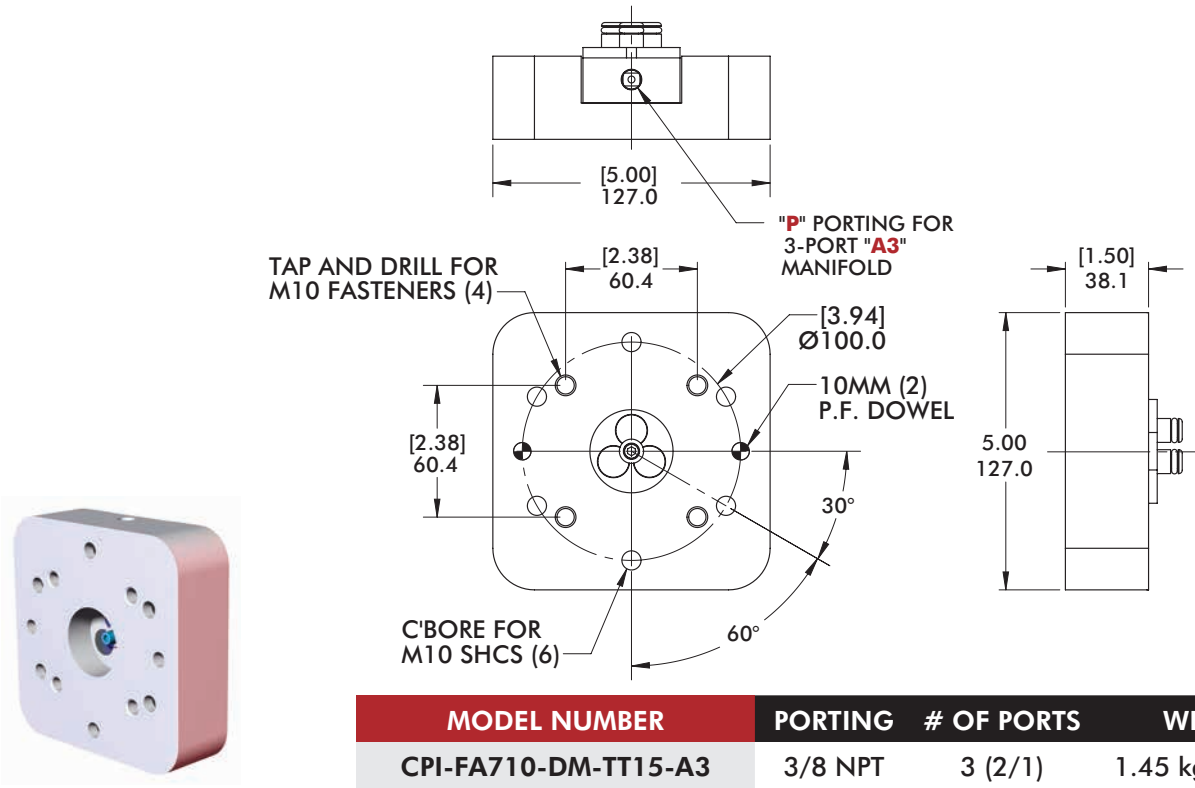
MODEL NUMBER	PORTING	# OF PORTS	WEIGHT
CPI-CHM32-DM-RD25-A3	3/8 NPT	3 (2/1)	2.38 kg [5.25 lb]
CPI-CHM32-DM-RD25-A6	1/8 NPT	6 (3/3)	2.42 kg [5.34 lb]



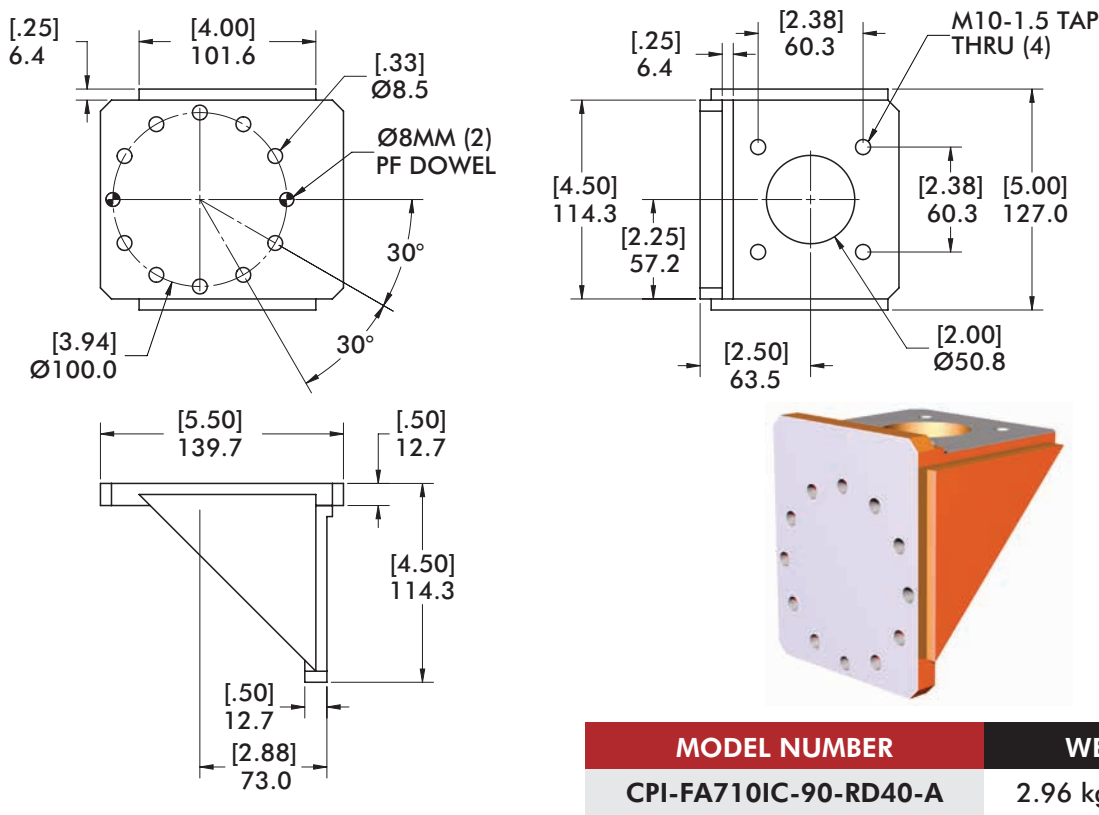
# FA710, FA710IC

Robot Automation Adaptors | Dimensions

## FA710IC 90° Robot Adaptor - Ø100mm Bolt Circle



## FA710IC 90° Robot Adaptor - Ø100mm Bolt Circle

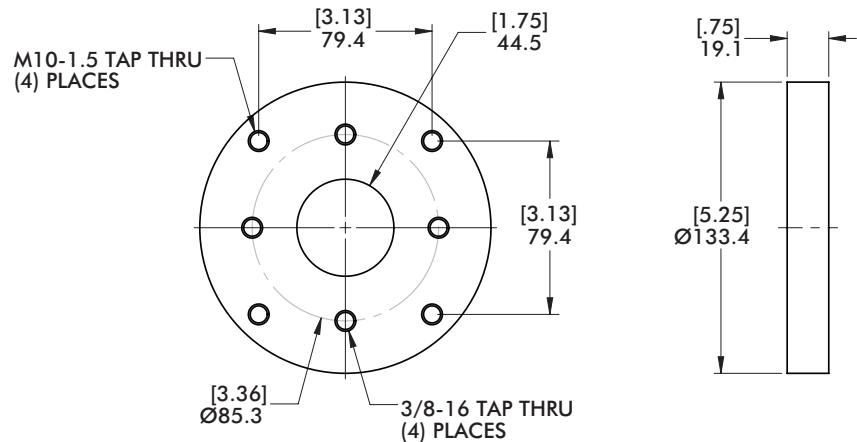
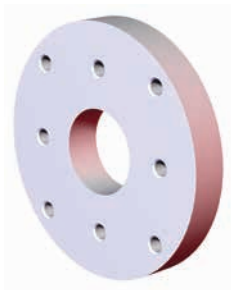




# TDA-150F, TDA-250F

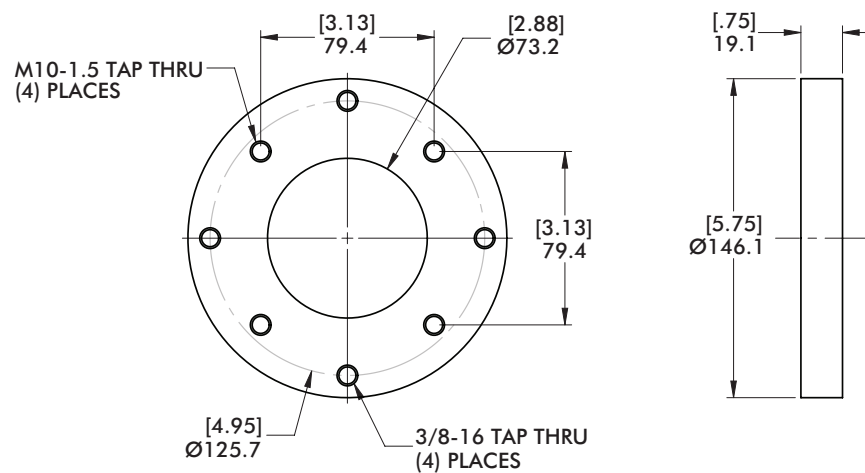
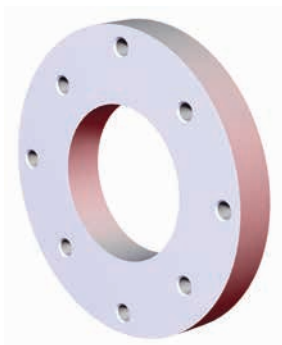
Robot Automation Adaptors | Dimensions

## TDA-150F Direct Mount Adaptor Plate - Ø85mm Bolt Circle



MODEL NUMBER	WEIGHT
CPI-TDA-150F-312F	.62 kg [1.36 lb]

## TDA-250F Direct Mount Adaptor Plate - Ø125mm Bolt Circle



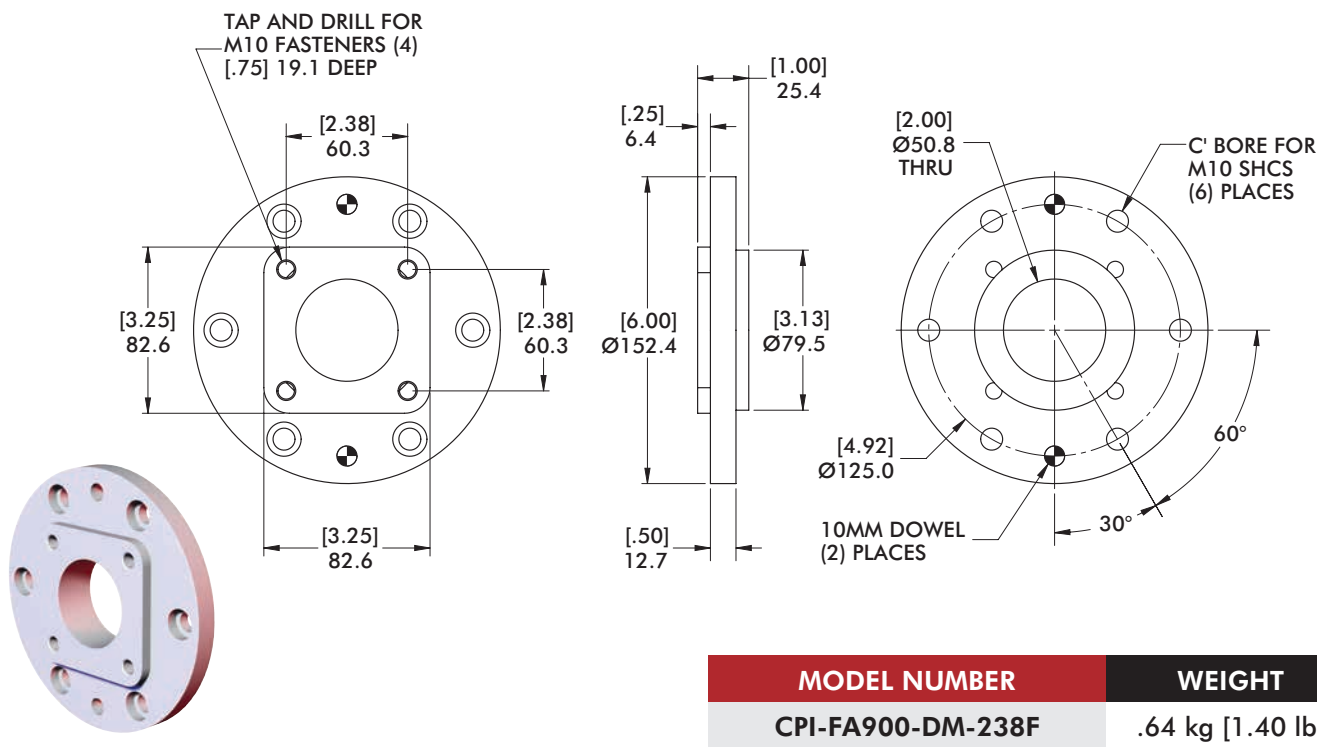
MODEL NUMBER	WEIGHT
CPI-TDA-250F-312F	.63 kg [1.38 lb]



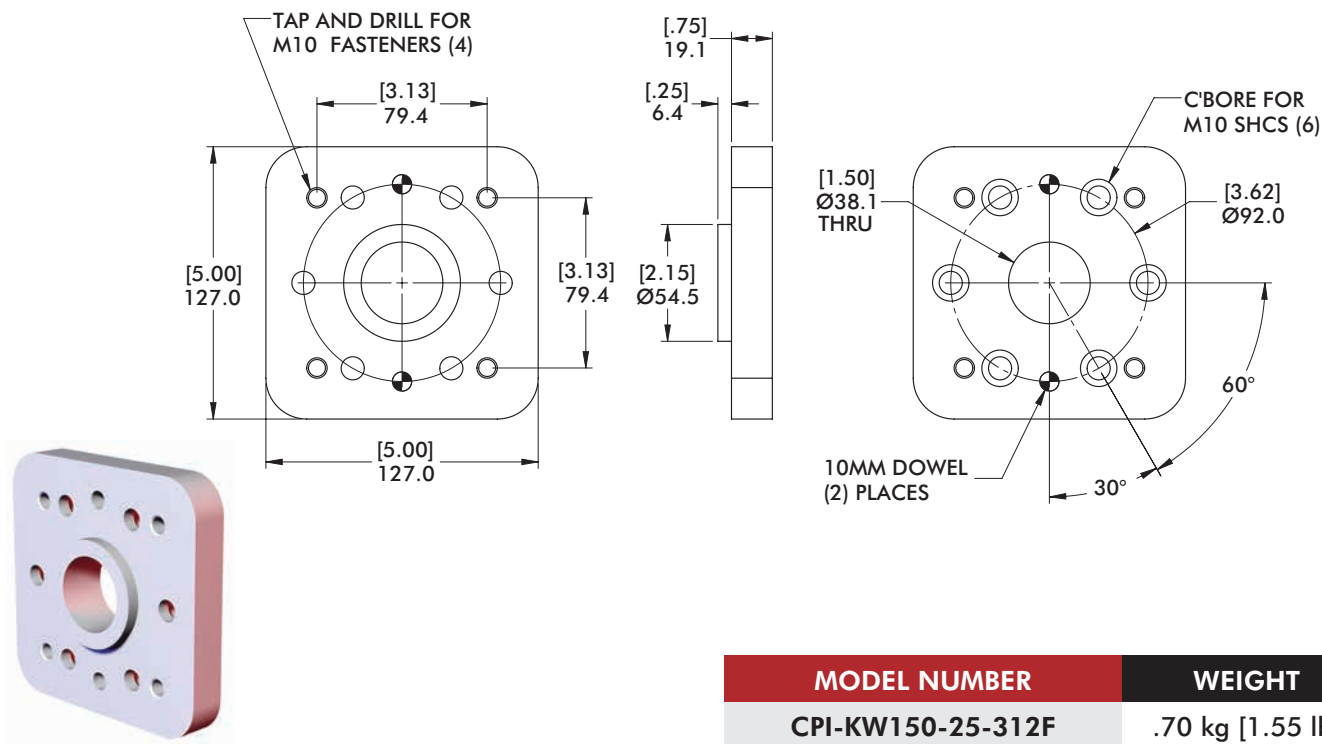
# FA900, KW150

Robot Automation Adaptors | Dimensions

## FA900 Direct Mount Adaptor Plate - Ø125mm Bolt Circle

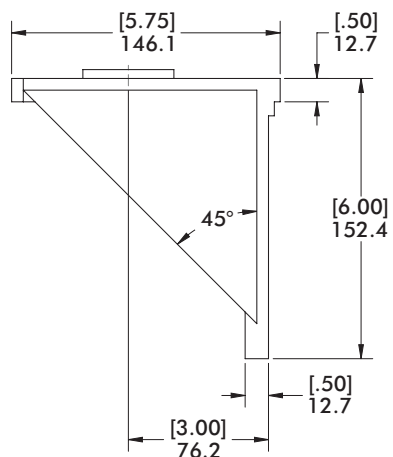
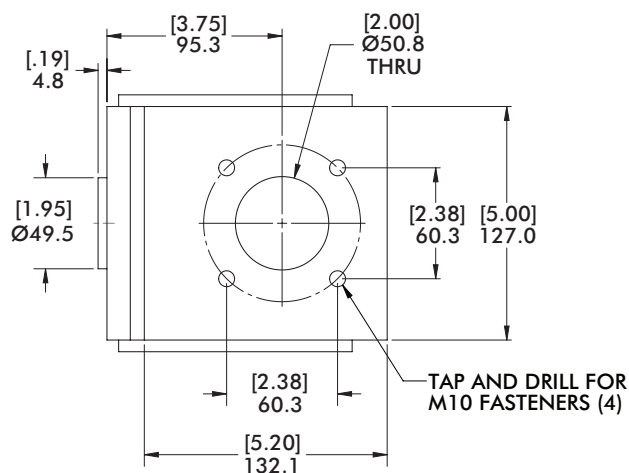
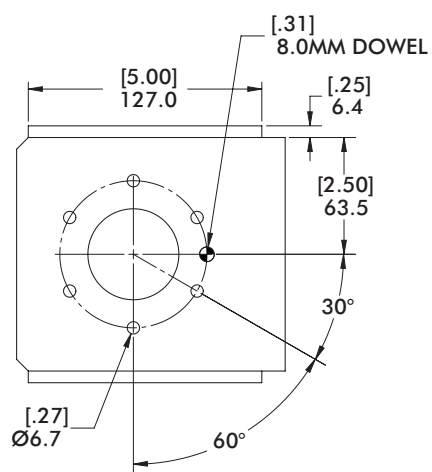


## KW150 Direct Mount Adaptor Plate - Ø92mm Bolt Circle





### 90° Degree Robot Adaptor to 40mm Disk



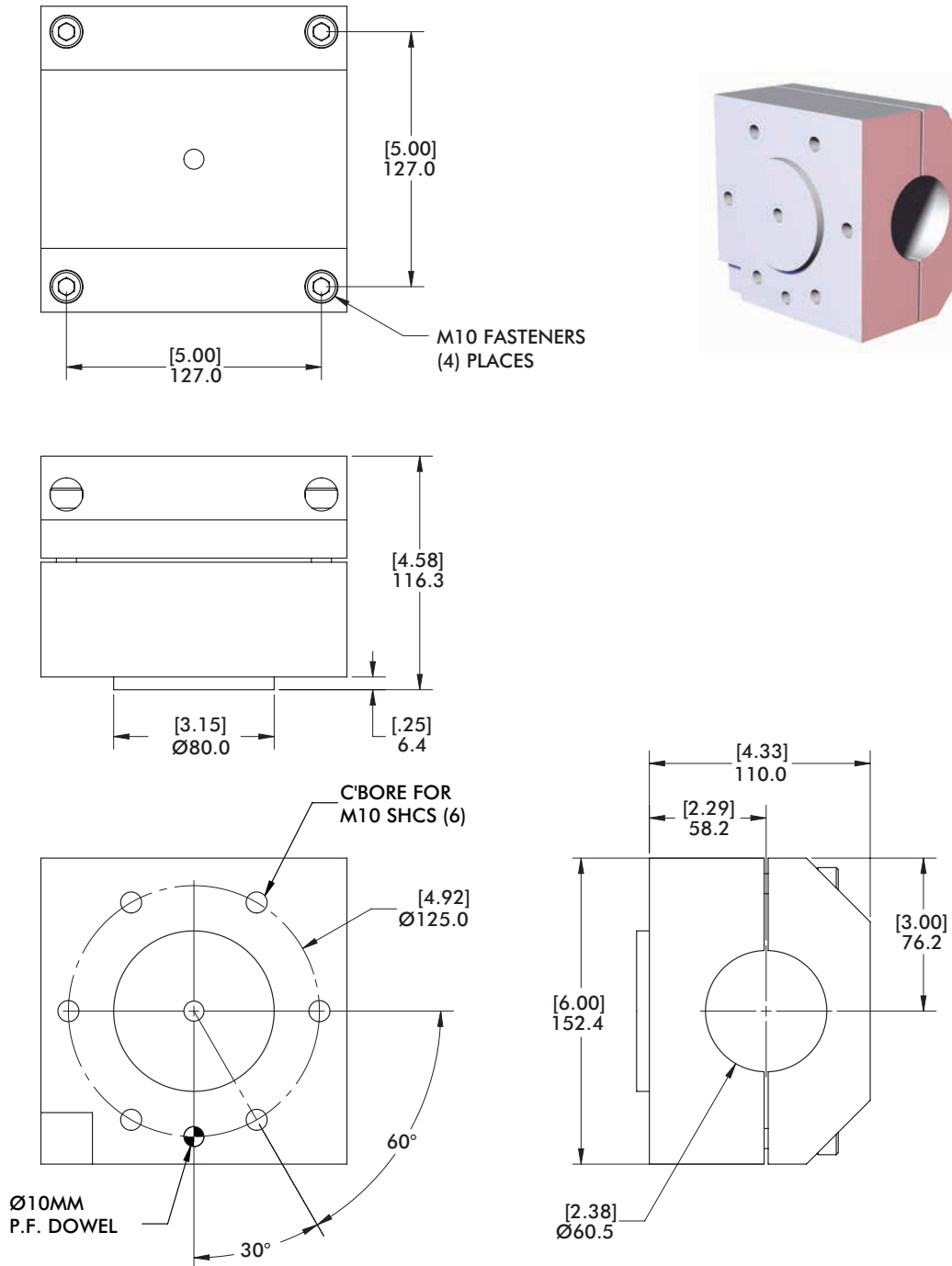
MODEL NUMBER	WEIGHT
CPI-KWFS45N-90-TTN40-A3	4.24 kg [9.34 lb]



# CL-LAN

## Robot Automation Adaptors | Dimensions

Ø125mm Bolt Circle



MODEL NUMBER

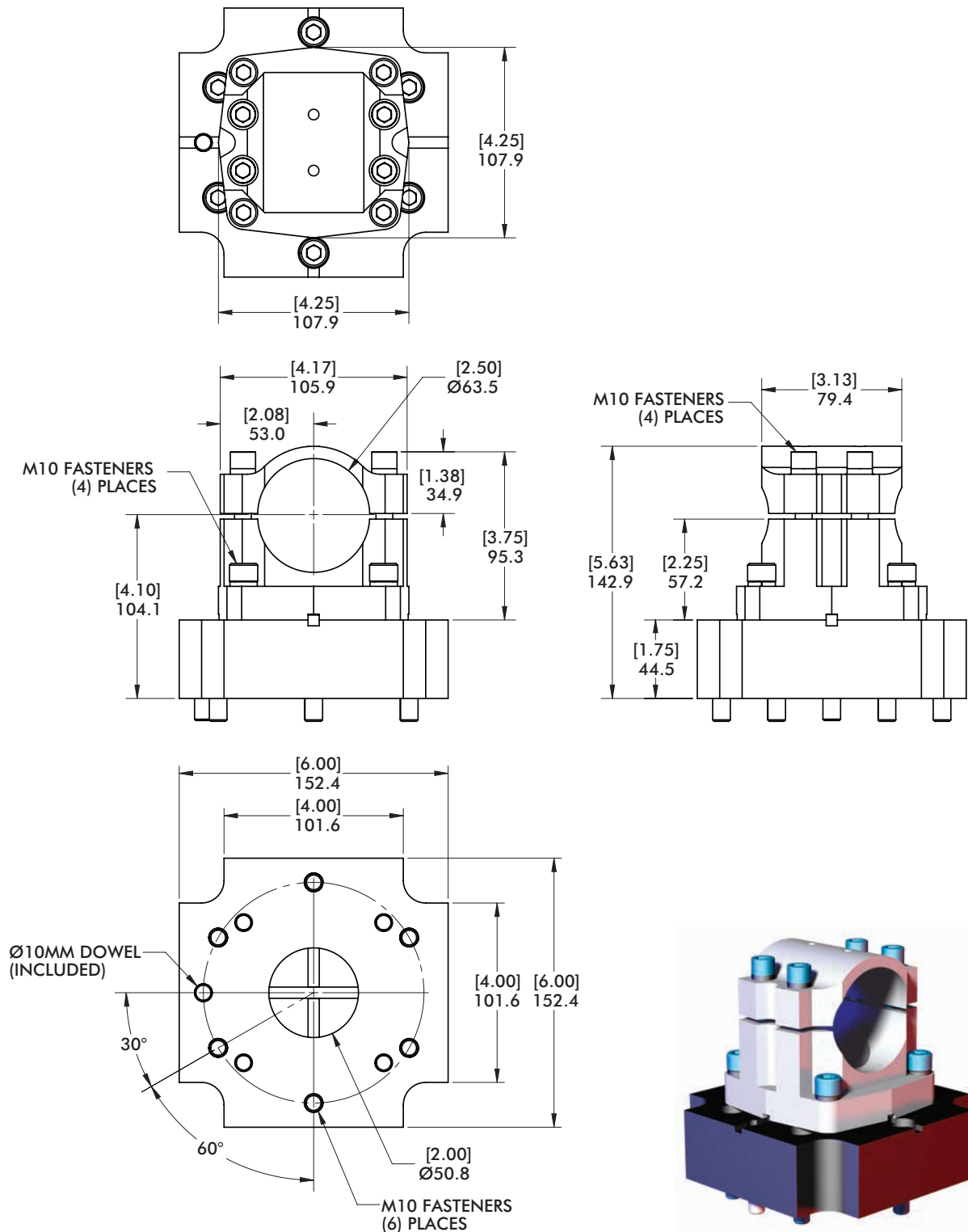
WEIGHT

CPI-CL-LAN-EOL

5.25 kg [11.58 lb]



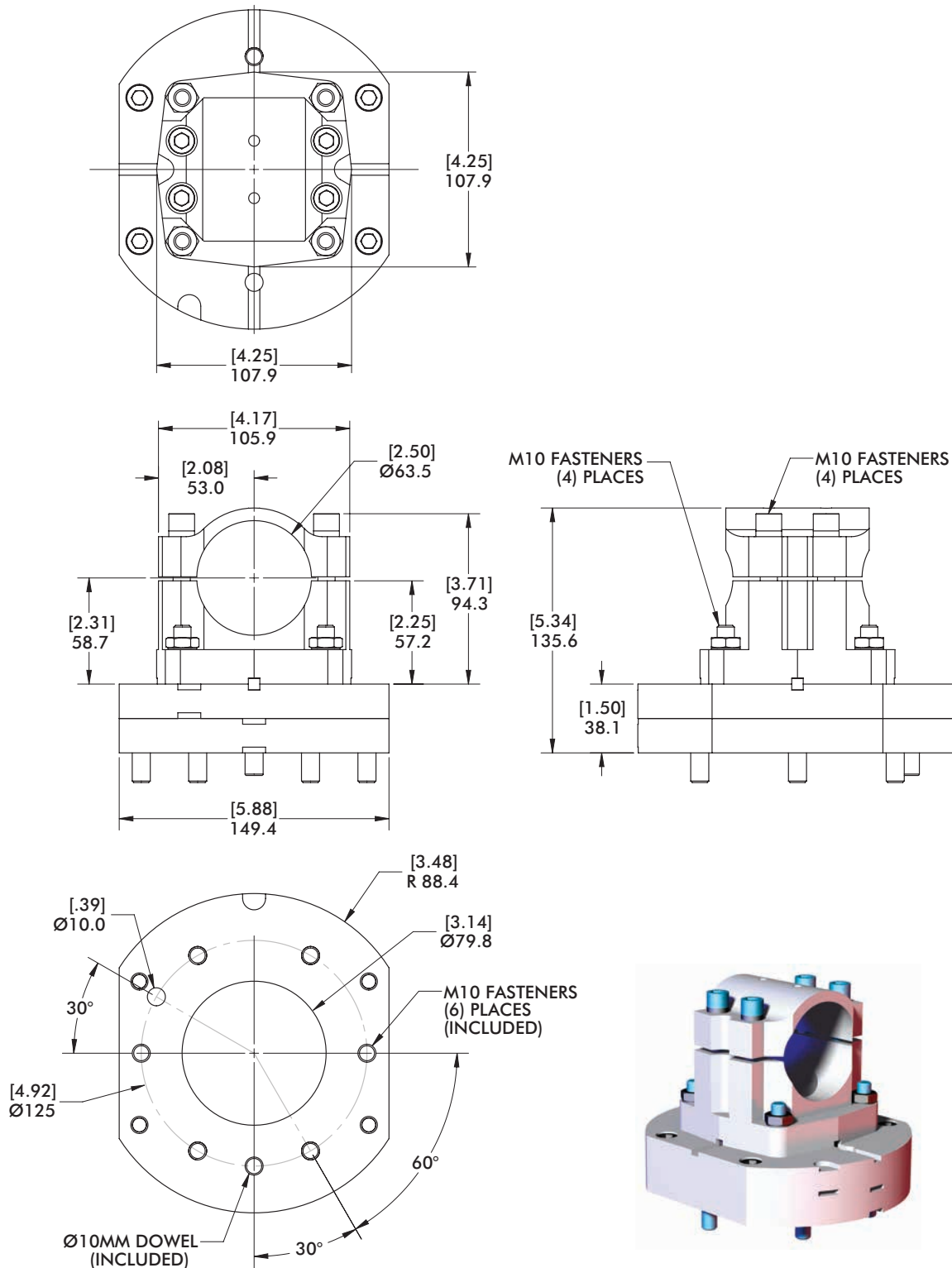
### 90° Medium Duty - Ø125mm Bolt Circle



MODEL NUMBER	WEIGHT
CPI-ATI-151-90-WT	3.64 kg [8.03 lb]



### Light Duty - Ø125mm Bolt Circle



**MODEL NUMBER**

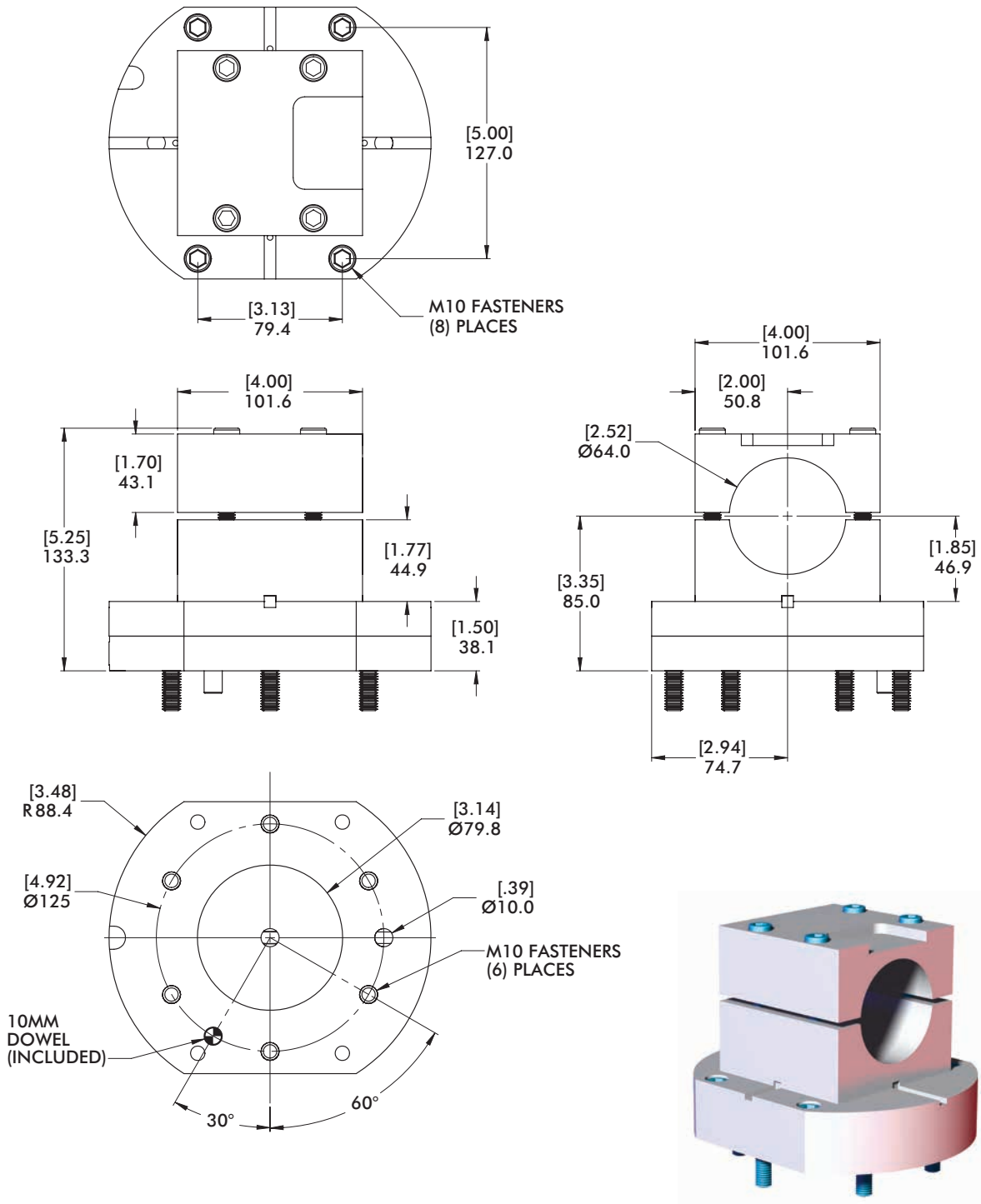
**CPI-ATI-90**

**WEIGHT**

**3.55 kg [7.82 lb]**



### 90° Light Duty - Ø125mm Bolt Circle



**MODEL NUMBER**

**CPI-ATI-90-SP**

**WEIGHT**

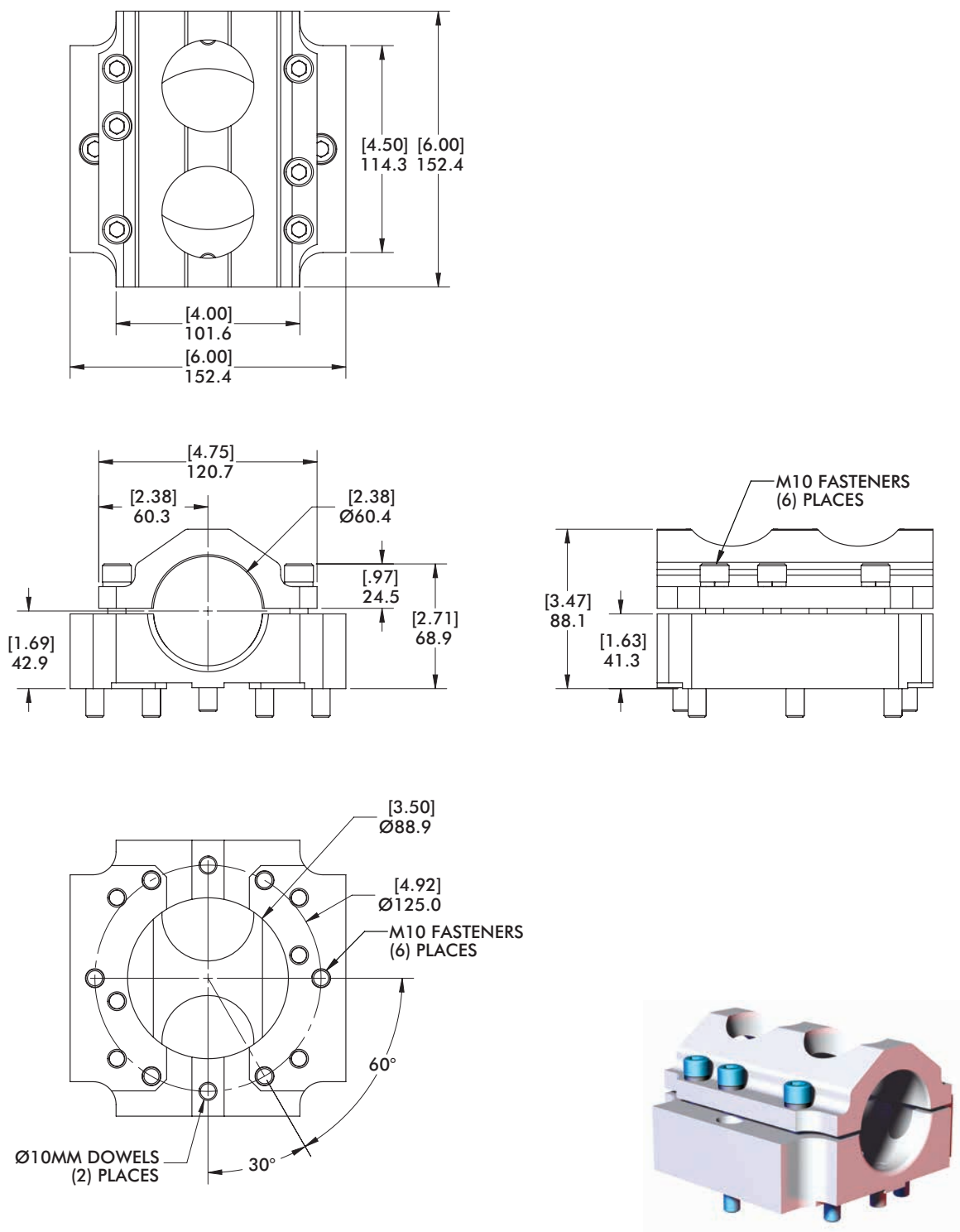
**3.64 kg [8.03 lb]**



# ATI-201-60

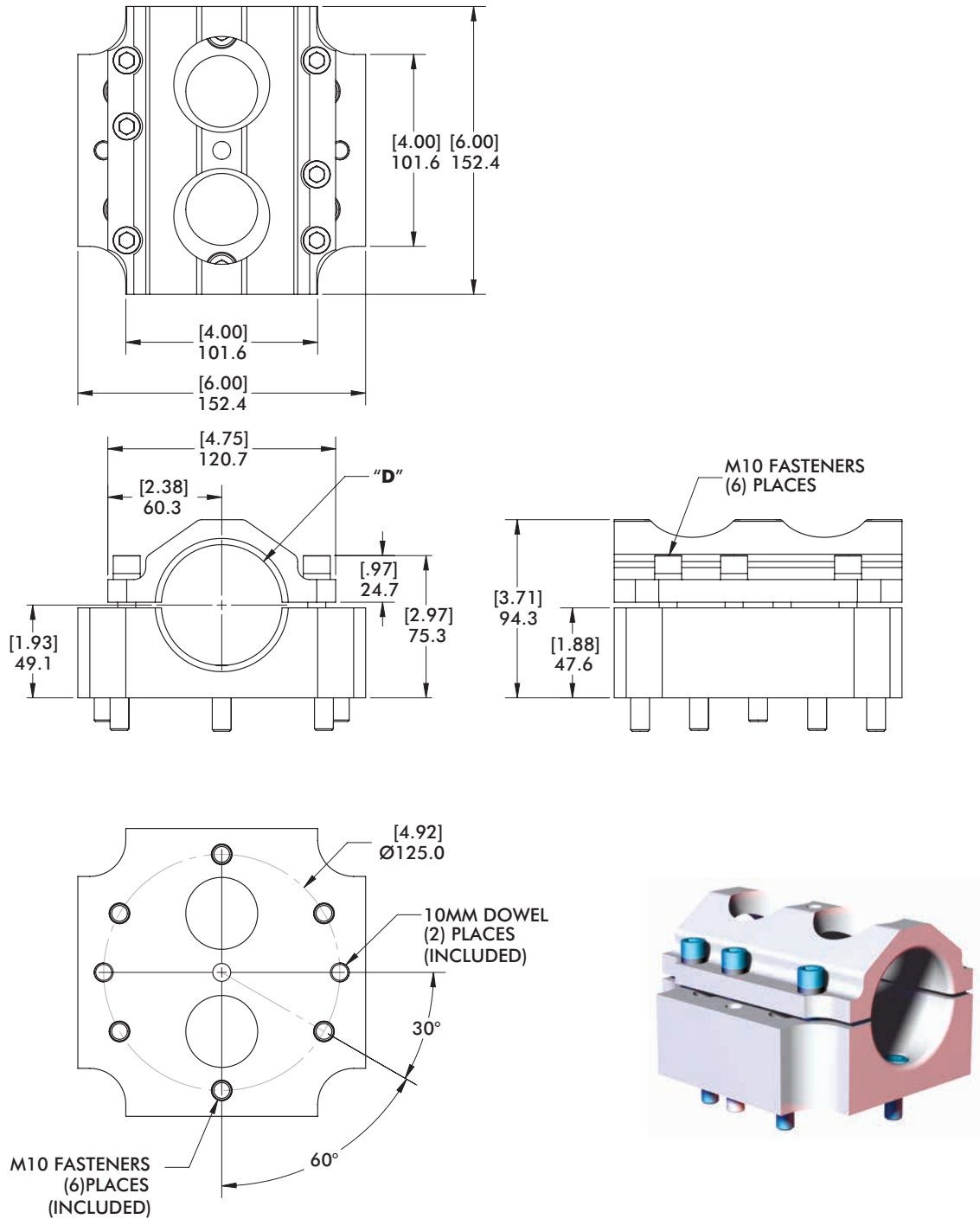
## Robot Automation Adaptors | Dimensions

Ø125mm Bolt Circle



MODEL NUMBER	WEIGHT
CPI-ATI-201-60	2.29 kg [5.06 lb]





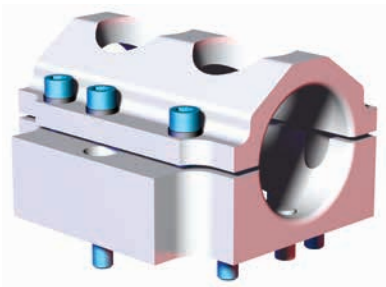
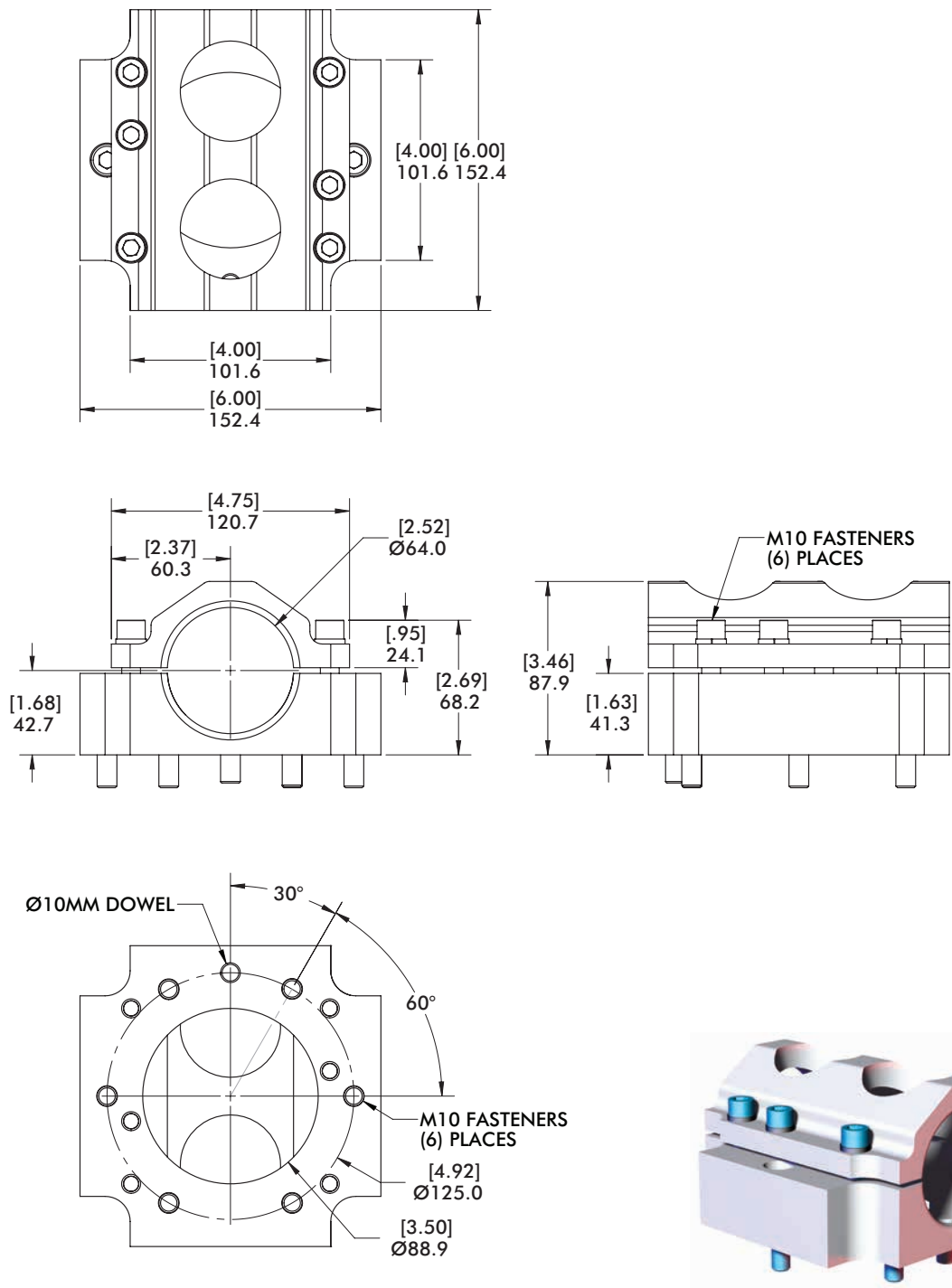
MODEL NUMBER	(Ø) "D"	(Ø) ACTUAL	WEIGHT
CPI-ATI-201-60-90	60mm	60.45 $\pm$ .08 [2.380 $\pm$ .003]	1.27 kg [2.80 lb]
CPI-ATI-201-250-90	2.50"(in)	63.96 $\pm$ .08 [2.518 $\pm$ .003]	1.27 kg [2.80 lb]



# ATI-201-90-HD

## Robot Automation Adaptors | Dimensions

Ø125mm Bolt Circle



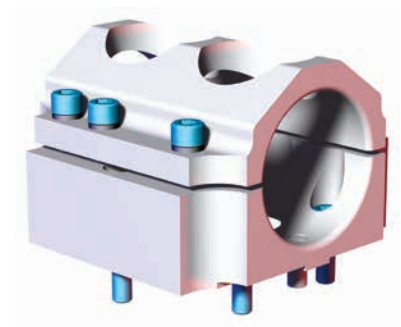
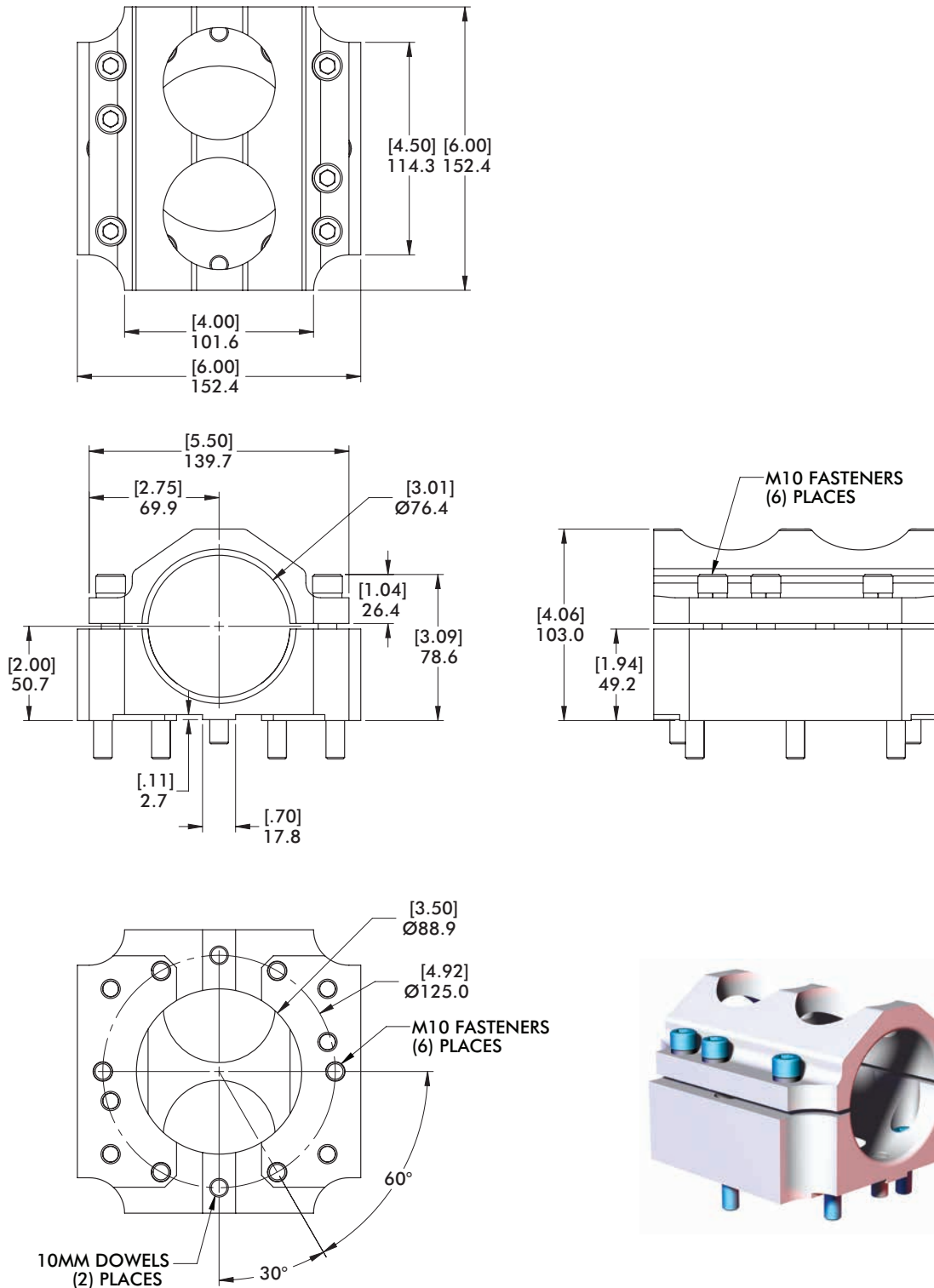
MODEL NUMBER	WEIGHT
CPI-ATI-201-90-HD	2.17 kg [4.77 lb]



# ATI-150-90-3HD

Robot Automation Adaptors | Dimensions

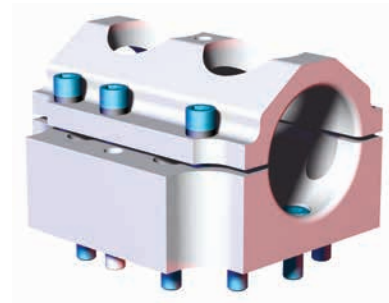
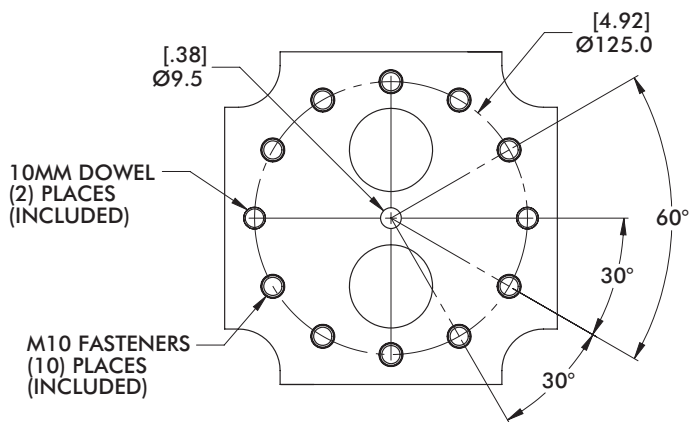
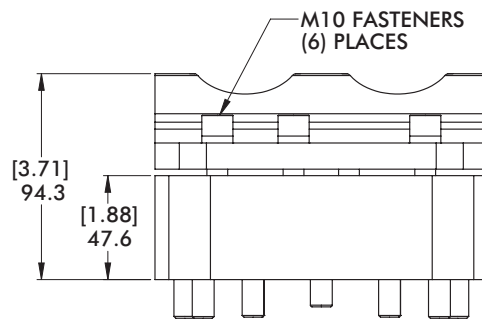
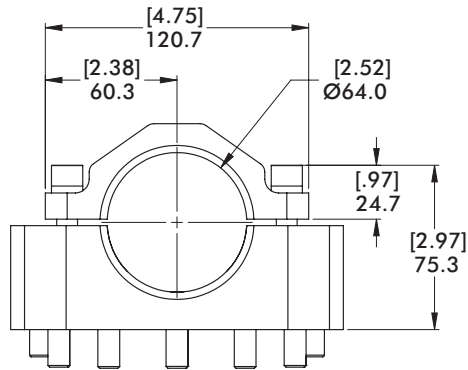
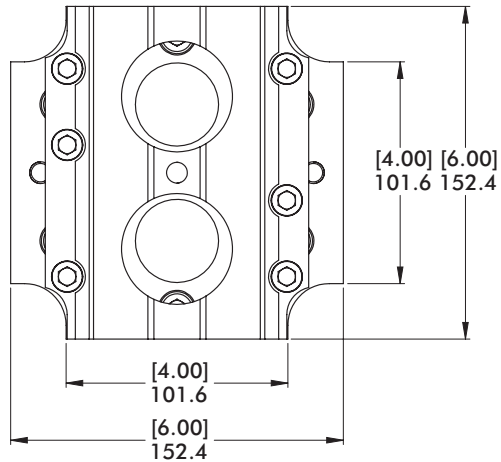
Ø125mm Bolt Circle



MODEL NUMBER	WEIGHT
CPI-ATI-201-90-3HD	2.50 kg [5.52 lb]



### 90° World Tool Assembly - Ø125mm Bolt Circle



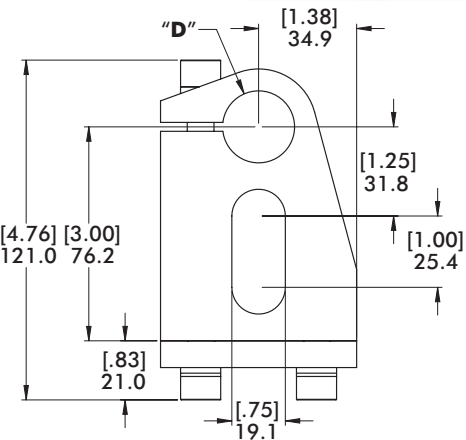
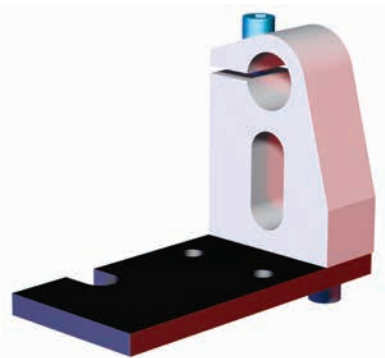
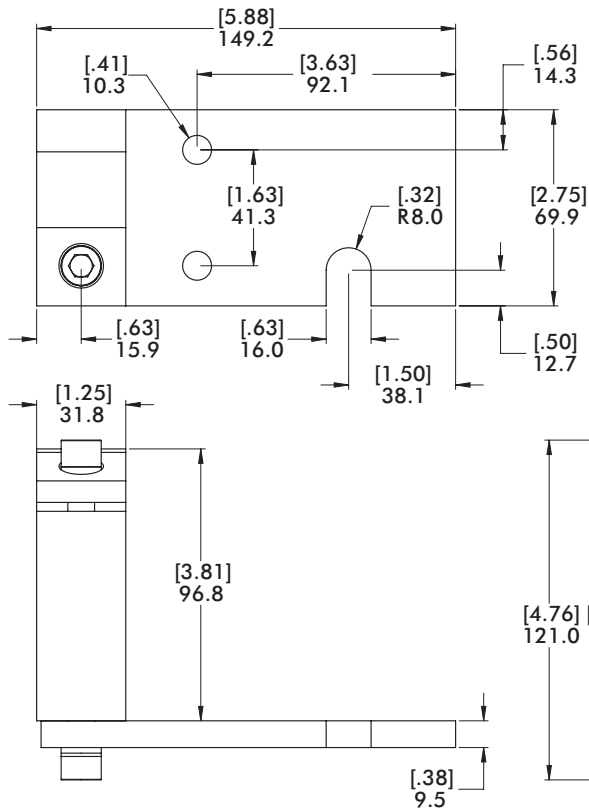
**MODEL NUMBER**

**CPI-ATI-201-250-90-10S**

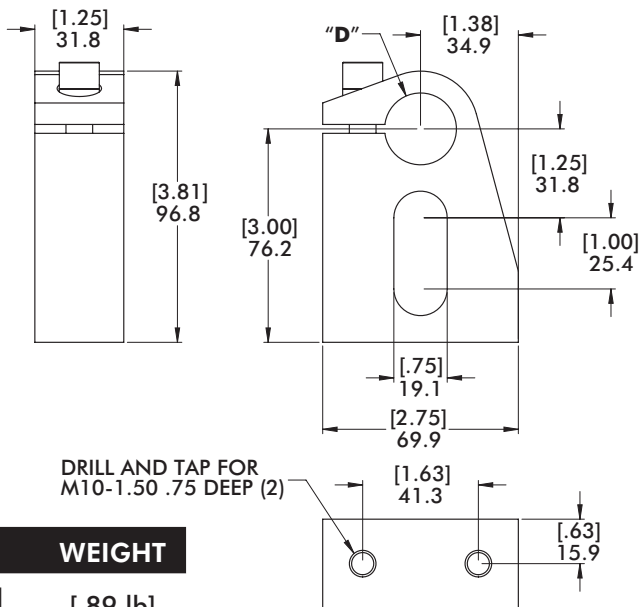
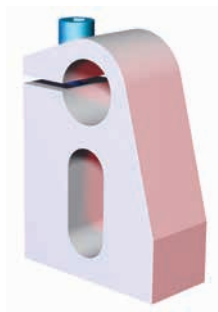
**WEIGHT**

**2.17 kg [4.77 lb]**





MODEL NUMBER	(Ø) "D"	(Ø) ACTUAL	WEIGHT
CPI-NAV-25-CM	25mm	25.25 $\pm$ .08 [0.994 $\pm$ .003]	[2.60 lb]
CPI-NAV-100-CM	1.00"(in)	25.65 $\pm$ .08 [1.010 $\pm$ .003]	1.18 kg



DRILL AND TAP FOR  
M10-1.50 .75 DEEP (2)



MODEL NUMBER	(Ø) "D"	(Ø) ACTUAL	WEIGHT
CPI-NAV-25-BL	25mm	25.25 $\pm$ .08 [0.994 $\pm$ .003]	[.89 lb]
CPI-NAV-100-BL	1.00"(in)	25.65 $\pm$ .08 [1.010 $\pm$ .003]	.40 kg



# BODYBUILDER™ TOOLING EXAMPLES



## Table of Contents

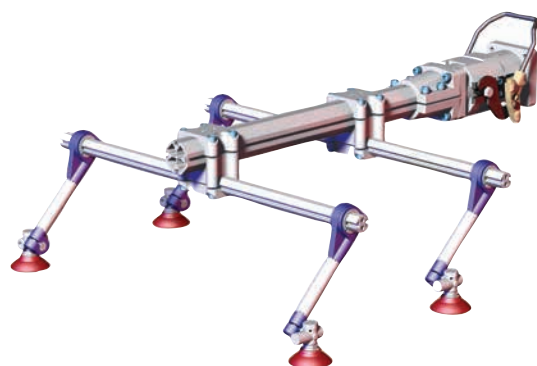
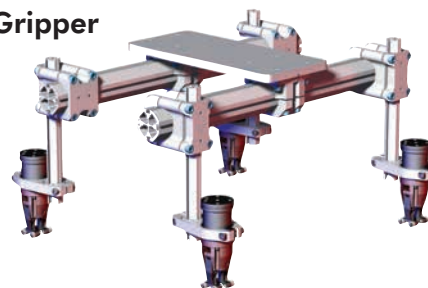
	BodyBuilder™ Extruded Aluminum Octagonal Booms .....	5
	BodyBuilder™ Structure Mid Mount Assemblies .....	10
	BodyBuilder™ Structure End Mount Assemblies.....	24
	BodyBuilder™ Transition Brackets and Blocks.....	28
	BodyBuilder™ Low-Profile Transition Brackets .....	41
	BodyBuilder™ Accessory Brackets and Mounts .....	61
	BodyBuilder™ Gripper Mounts .....	65
	BodyBuilder™ Swivel Arm Mounts .....	67
	BodyBuilder™ Swivel Arm Accessories .....	72



**Mid Mount with GR84  
Series Mini-Clamps**



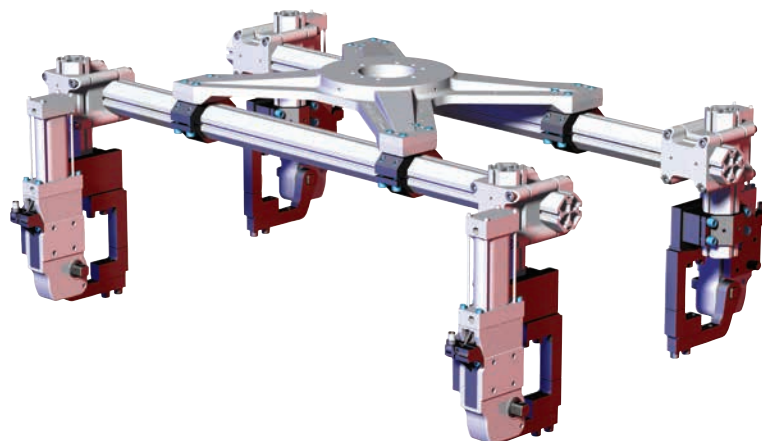
**Mid Mount with GR1  
Series Gripper**



**End Mount with Venturi Cup  
Mounts and Vacuum Cups**

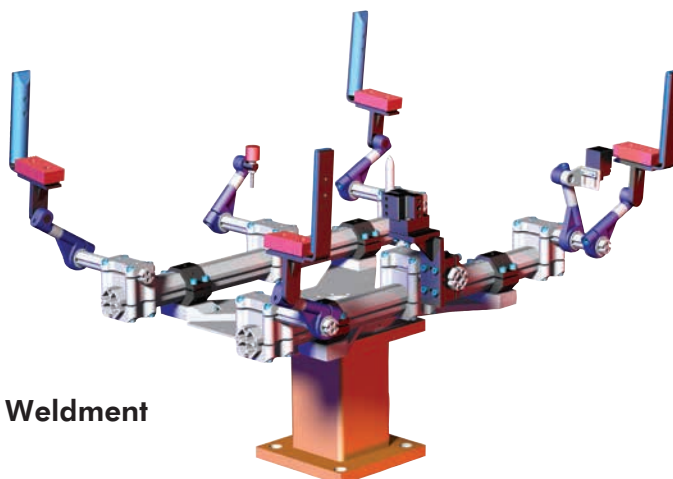


**End Mount with GR84 Series  
Mini Clamp**



**Mid Mount with 82M50  
Enclosed Power Clamps**

**Mid Mounted Part Nest  
with CPI-HTW Hold Table Weldment  
and Nest Pad guides**





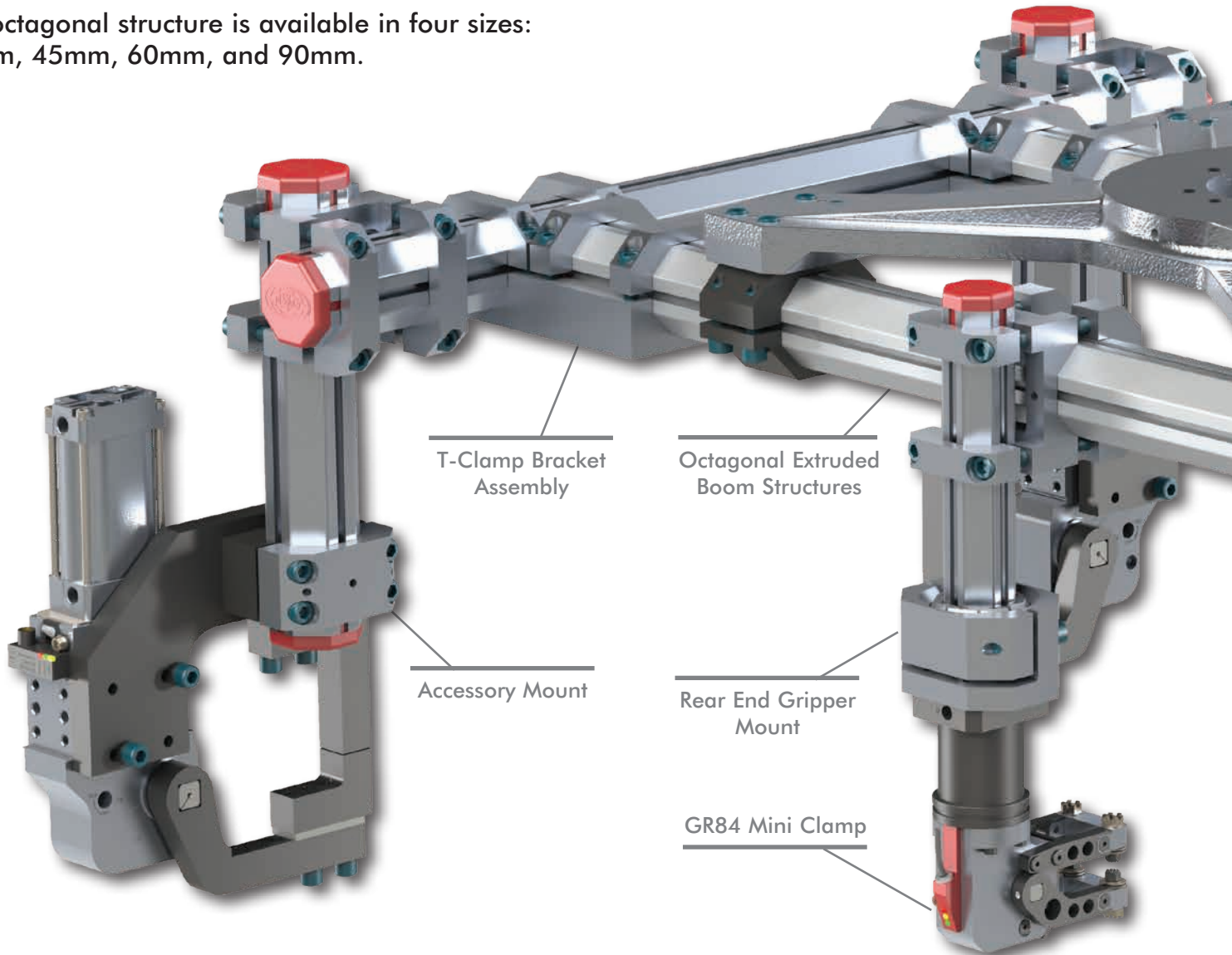
# BODYBUILDER™ END EFFECTOR SYSTEM



## Product Overview

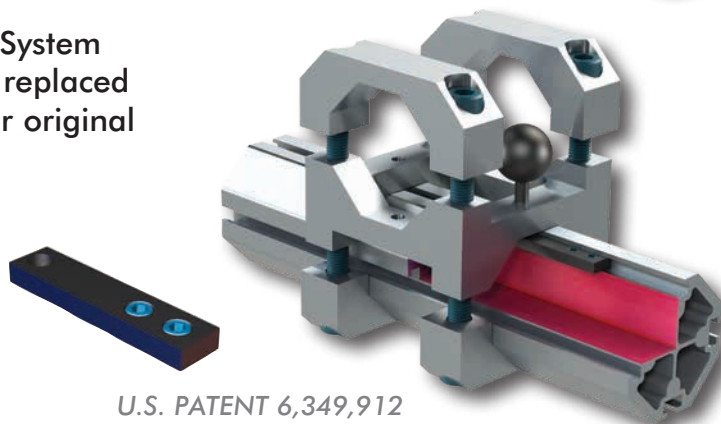
BodyBuilder™ is designed to maximize productivity, both before and after installation. The flexibility of the system allows modifications to the end effector in minutes, greatly reducing start up time to launch.

The octagonal structure is available in four sizes: 30mm, 45mm, 60mm, and 90mm.



The patented BodyBuilder™ Alignment System allows the modular components to be replaced individually and easily returned to their original positions.

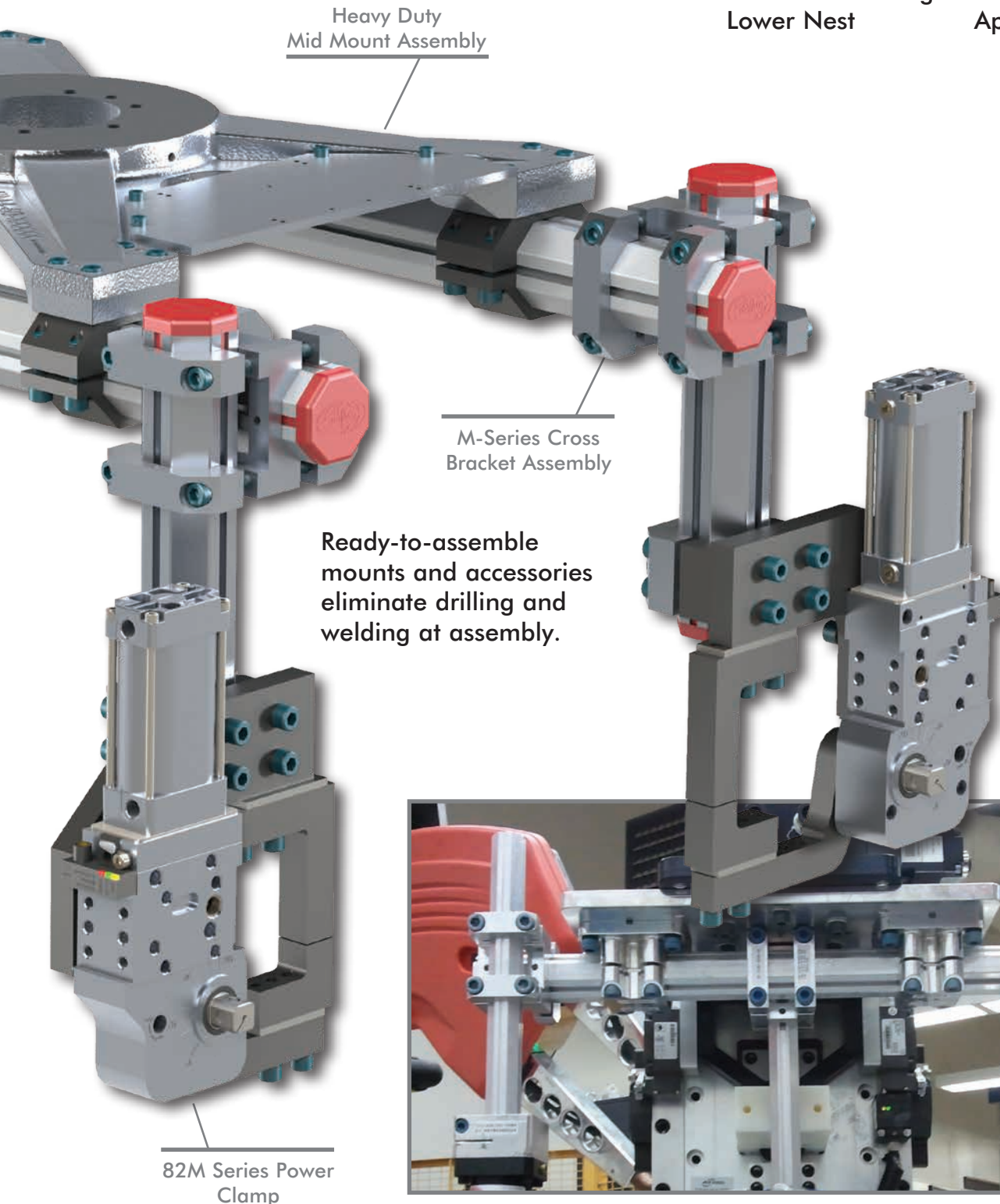
Alignment nut(s) are included with every Bodybuilder™ modular component, utilizing the patented alignment system.





**Most commonly used in:**

Applications	Markets
Robot Welding	Industrial
Pick and Place	Automotive
Material Handling	Transportation
Lower Nest	Appliance





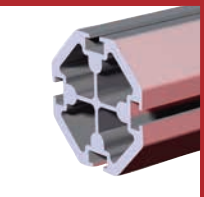
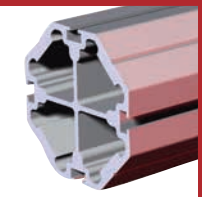


# BODYBUILDER™ BOOM STRUCTURE

## BodyBuilder™ Octagonal Tooling | Dimensions

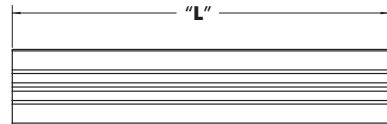
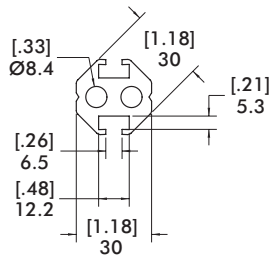


### 30, 45, 60, and 90mm Boom Lengths and Ordering Numbers

BODYBUILDER™ OCTAGONAL ALUMINUM BOOM LENGTHS & ORDER NUMBERS					
	(L) Length	B - 30 - (L) - 0	B - 45 - (L) - 0	B - 60 - (L) - 0	B - 90 - (L) - 0
	150 mm	B - 30 - 150 - 0	B - 45 - 150 - 0	B - 60 - 150 - 0	N/A
	200 mm	B - 30 - 200 - 0	B - 45 - 200 - 0	B - 60 - 200 - 0	N/A
	250 mm	B - 30 - 250 - 0	B - 45 - 250 - 0	B - 60 - 250 - 0	N/A
	300 mm	B - 30 - 300 - 0	B - 45 - 300 - 0	B - 60 - 300 - 0	B - 90 - 300 - 0
	400 mm	B - 30 - 400 - 0	B - 45 - 400 - 0	B - 60 - 400 - 0	B - 90 - 400 - 0
	500 mm	B - 30 - 500 - 0	B - 45 - 500 - 0	B - 60 - 500 - 0	B - 90 - 500 - 0
	600 mm	B - 30 - 600 - 0	B - 45 - 600 - 0	B - 60 - 600 - 0	B - 90 - 600 - 0
	700 mm	B - 30 - 700 - 0	B - 45 - 700 - 0	B - 60 - 700 - 0	B - 90 - 700 - 0
750 mm	B - 30 - 750 - 0	B - 45 - 750 - 0	B - 60 - 750 - 0	B - 90 - 750 - 0	
800 mm	B - 30 - 800 - 0	B - 45 - 800 - 0	B - 60 - 800 - 0	B - 90 - 800 - 0	
900 mm	B - 30 - 900 - 0	B - 45 - 900 - 0	B - 60 - 900 - 0	B - 90 - 900 - 0	
1200 mm	B - 30 - 1200 - 0	B - 45 - 1200 - 0	B - 60 - 1200 - 0	B - 90 - 1200 - 0	
1500 mm	B - 30 - 1500 - 0	B - 45 - 1500 - 0	B - 60 - 1500 - 0	B - 90 - 1500 - 0	
1800 mm	B - 30 - 1800 - 0	B - 45 - 1800 - 0	B - 60 - 1800 - 0	B - 90 - 1800 - 0	
2100 mm	B - 30 - 2100 - 0	B - 45 - 2100 - 0	B - 60 - 2100 - 0	B - 90 - 2100 - 0	
2400 mm	B - 30 - 2400 - 0	B - 45 - 2400 - 0	B - 60 - 2400 - 0	B - 90 - 2400 - 0	
2700 mm	B - 30 - 2700 - 0	B - 45 - 2700 - 0	B - 60 - 2700 - 0	B - 90 - 2700 - 0	
3000 mm	B - 30 - 3000 - 0	B - 45 - 3000 - 0	B - 60 - 3000 - 0	B - 90 - 3000 - 0	

## 30mm Boom Profile Dimensions and Specifications

## BodyBuilder™ 30mm Boom

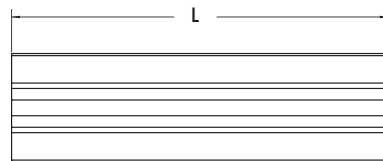
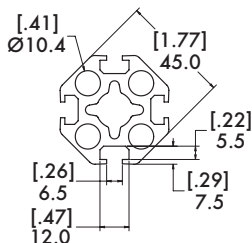
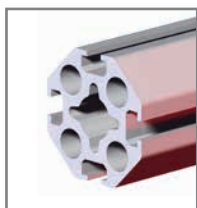


Model Number	Weight
B - 30 - (L) - 0	1.4 kg/m [0.9 lb/ft]



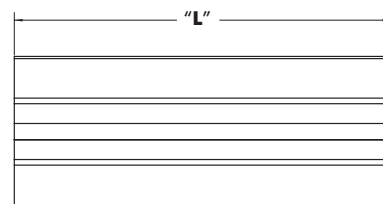
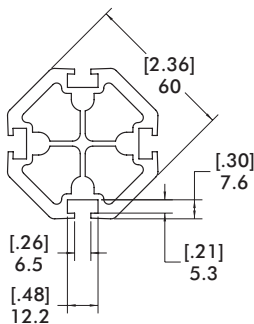
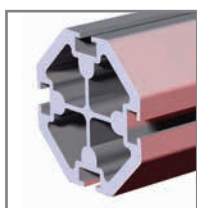
## 45, 60, and 90mm Boom Profile Dimensions and Specifications

### BodyBuilder™ 45mm Boom



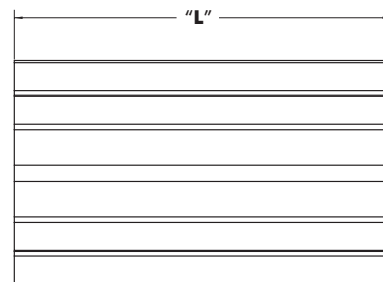
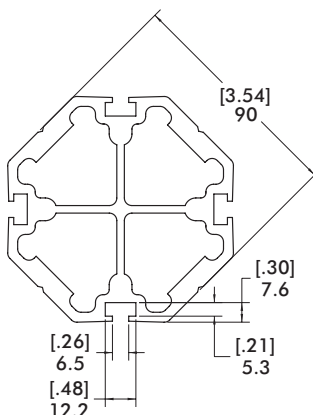
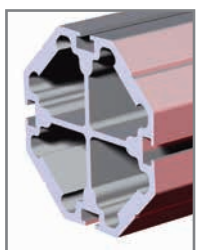
Model Number	Weight
B - 45 - (L) - 0	2.0 kg/m [1.4 lb/ft]

### BodyBuilder™ 60mm Boom



Model Number	Weight
B - 60 - (L) - 0	3.3 kg/m [2.2 lb/ft]

### BodyBuilder™ 90mm Boom



Model Number	Weight
B - 90 - (L) - 0	6.5 kg/m [4.4 lb/ft]

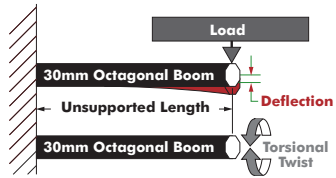


# BODYBUILDER™ BOOM STRUCTURE

BodyBuilder™ Octagonal Tooling | Technical Specifications

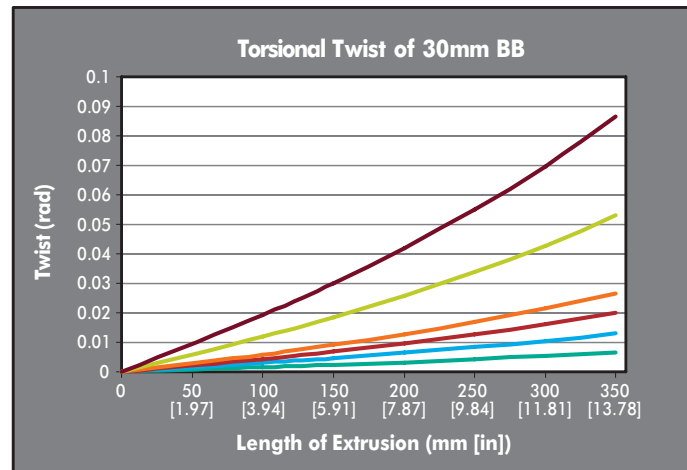
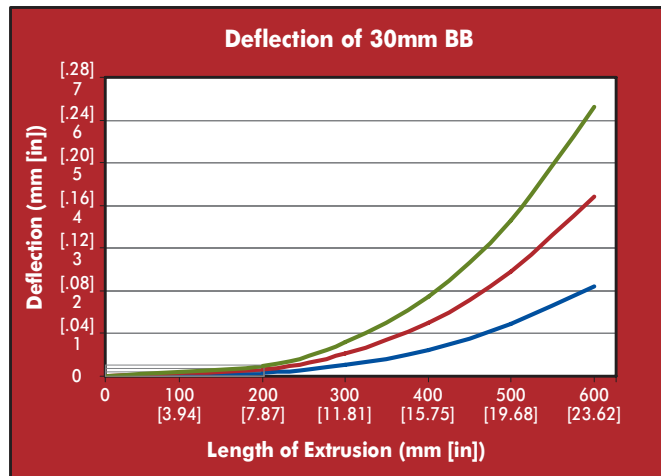
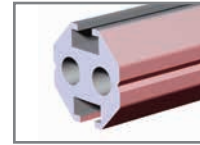


## 30mm Boom Deflection and Torsion Charts

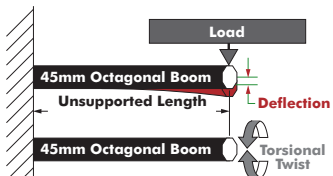


5 Kgf	11.0 lbf
10 Kgf	22.0 lbf
15 Kgf	33.0 lbf

100 Kgf-cm	86.8 lbf-in
200 Kgf-cm	173.6 lbf-in
300 Kgf-cm	260.4 lbf-in
400 Kgf-cm	347.2 lbf-in
800 Kgf-cm	694.4 lbf-in
1300 Kgf-cm	1128.4 lbf-in

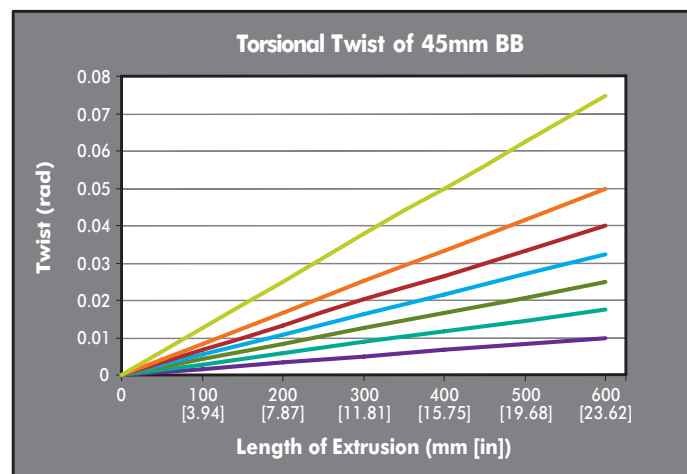
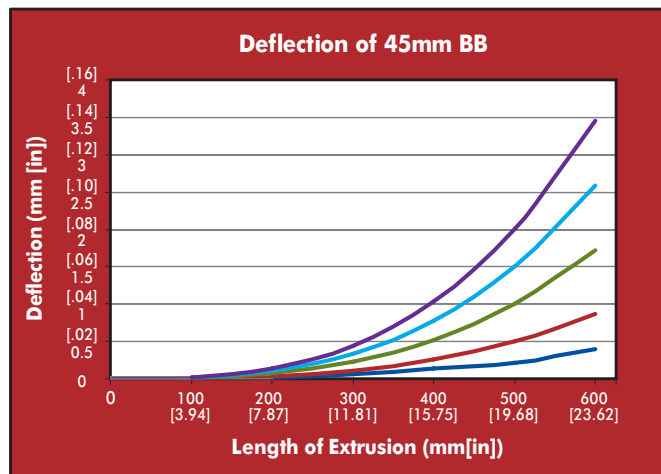
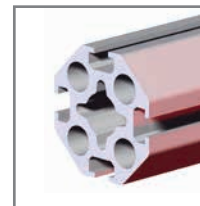


## 45mm Boom Deflection and Torsion Charts



5 Kgf	11.0 lbf
10 Kgf	22.0 lbf
20 Kgf	44.1 lbf
30 Kgf	66.1 lbf
40 Kgf	88.2 lbf

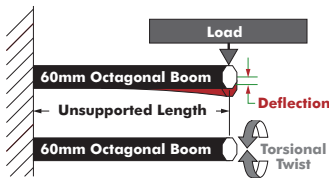
400 Kgf-cm	347.2 lbf-in
700 Kgf-cm	607.6 lbf-in
1000 Kgf-cm	867.0 lbf-in
1300 Kgf-cm	1128.4 lbf-in
1600 Kgf-cm	1388.7 lbf-in
2000 Kgf-cm	1735.9 lbf-in
3000 Kgf-cm	2603.9 lbf-in



Note: Performance may vary if used with non-DESTACO components

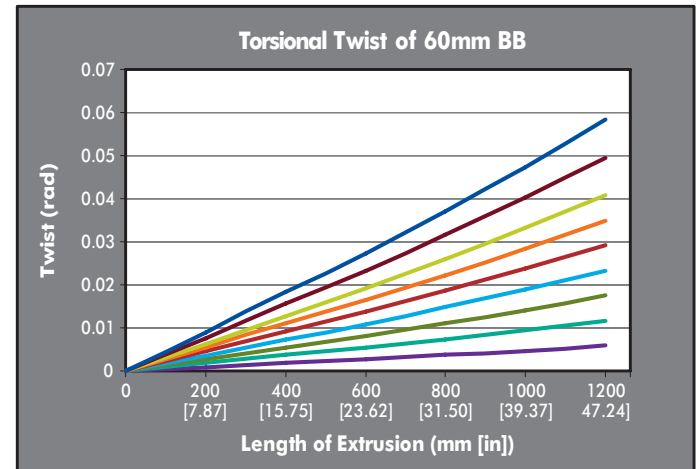
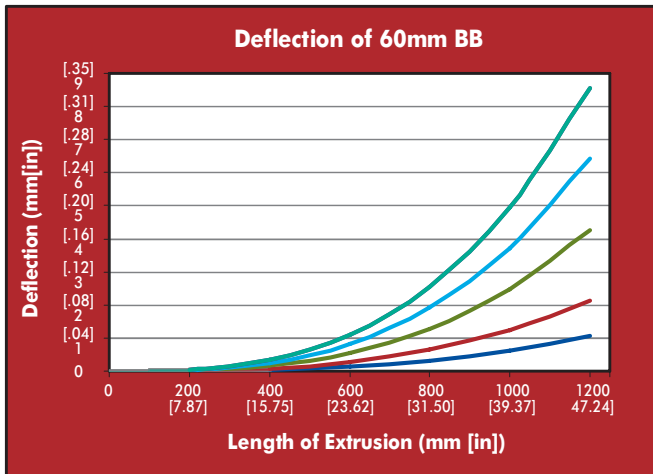
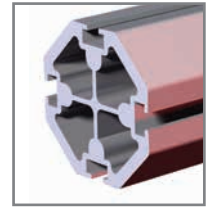


### 60mm Boom Deflection and Torsion Charts

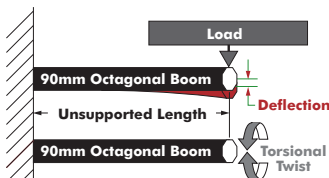


5 Kgf	11.0 lbf
10 Kgf	22.0 lbf
20 Kgf	44.1 lbf
30 Kgf	66.1 lbf
40 Kgf	88.2 lbf
50 Kgf	110.2 lbf

400 Kgf-cm	347.2 lbf-in
800 Kgf-cm	694.4 lbf-in
1200 Kgf-cm	1041.6 lbf-in
1600 Kgf-cm	1388.7 lbf-in
2000 Kgf-cm	1735.9 lbf-in
2400 Kgf-cm	2083.1 lbf-in
2800 Kgf-cm	2430.3 lbf-in
3400 Kgf-cm	2951.1 lbf-in
4000 Kgf-cm	3471.8 lbf-in

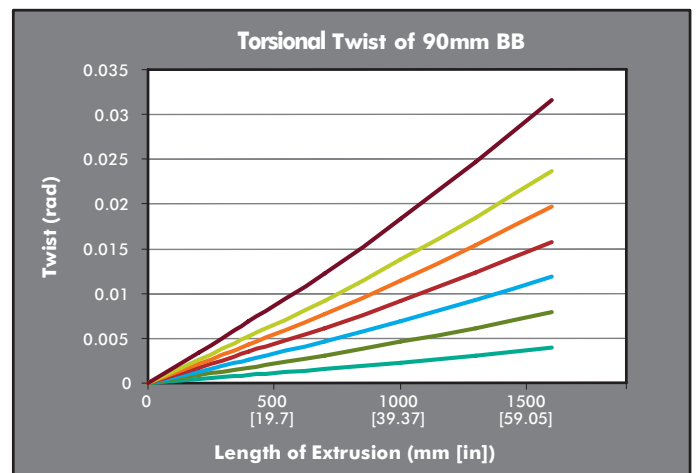
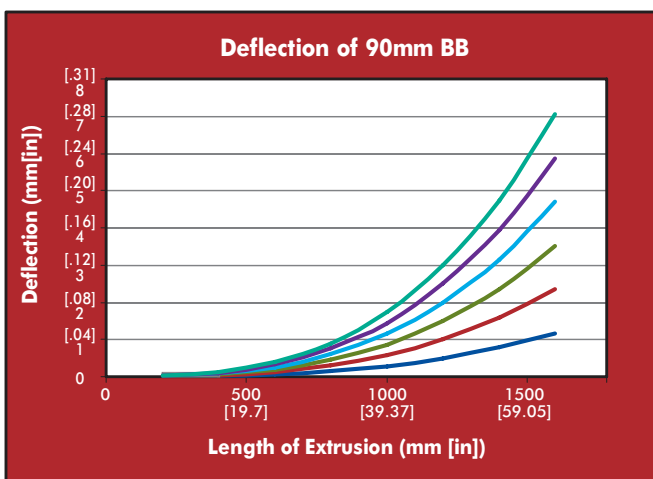
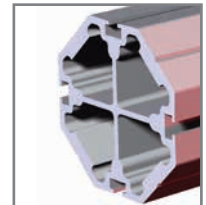


### 90mm Boom Deflection and Torsion Charts



10 Kgf	22.0 lbf
20 Kgf	44.1 lbf
30 Kgf	66.1 lbf
40 Kgf	88.2 lbf
50 Kgf	110.2 lbf
60 Kgf	132.3 lbf

1000 Kgf-cm	867.0 lbf-in
2000 Kgf-cm	1735.9 lbf-in
3000 Kgf-cm	2603.9 lbf-in
4000 Kgf-cm	3471.8 lbf-in
5000 Kgf-cm	4339.8 lbf-in
6000 Kgf-cm	5207.8 lbf-in
8000 Kgf-cm	6943.7 lbf-in



**Note:** Performance may vary if used with non-DESTACO components



# BODYBUILDER™ BOOM STRUCTURE ACCESSORIES

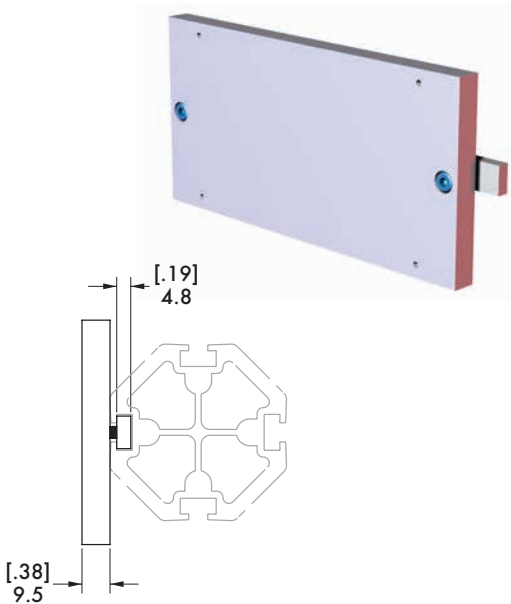
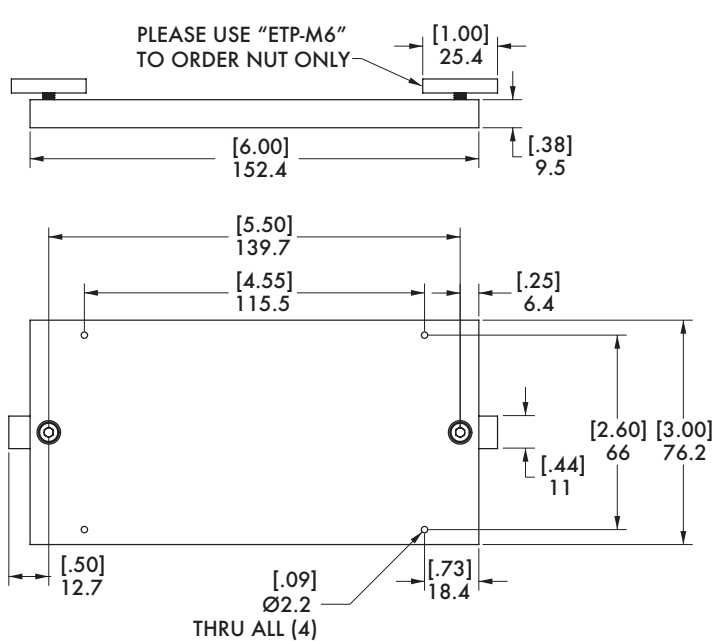
BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



## ETP-35 Extrusion Accessory Mount

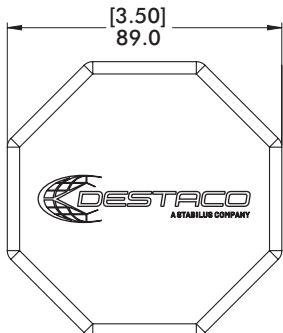
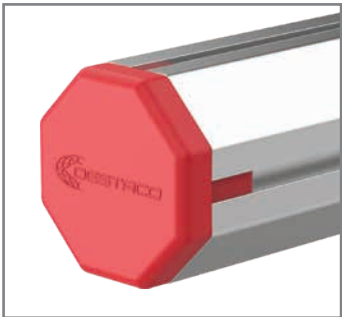


**Specifications:**  
**Material:** Aluminum

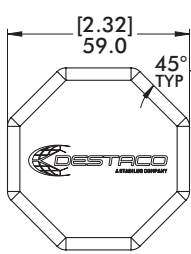


Model Number	Weight
CPI-ETP-35	.31 kg [.68 lb]

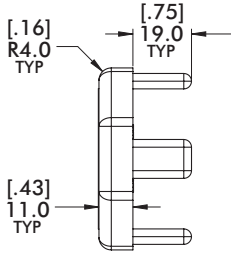
## EC-60 60mm Bodybuilder Octagonal Boom End Cap



90mm End Cap



60mm End Cap



45mm End Cap

Model Number	Weight
CPI-EC-45B	.02 kg [.05 lb]
CPI-EC-60B	.04 kg [.09 lb]
CPI-EC-90B	.09 kg [.20 lb]

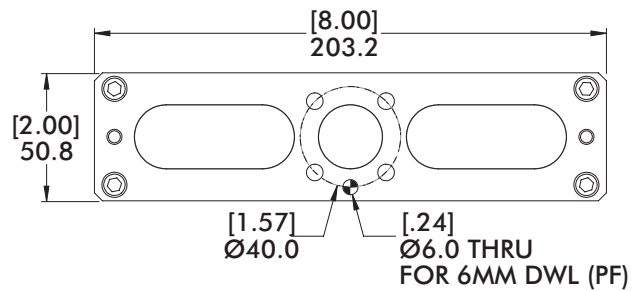
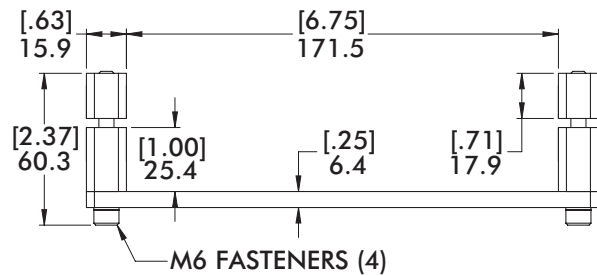
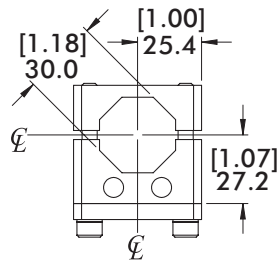
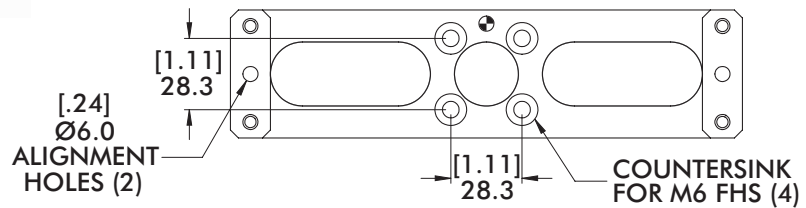
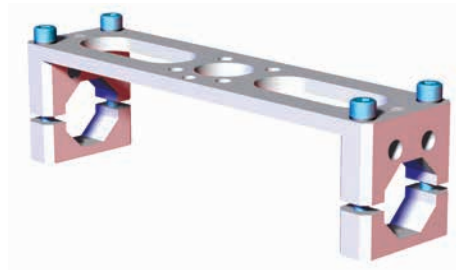
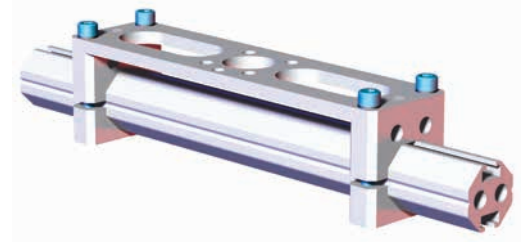


## RMM-30B-40BC-08-90 Single Extrusion 30mm Mid Mount with 40mm Bolt Circle

### Specifications:

**Max. Static Product Load:**  
102 Nm [75 ft-lb]

**Material:** Aluminum



Model Number	Weight
CPI-RMM-30B-40BC-08-90	.28 kg [.62 lb]

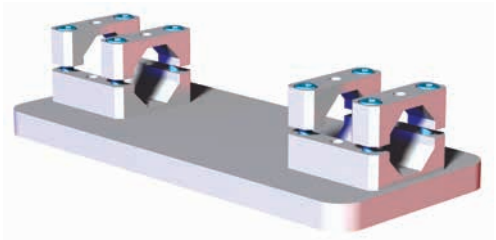
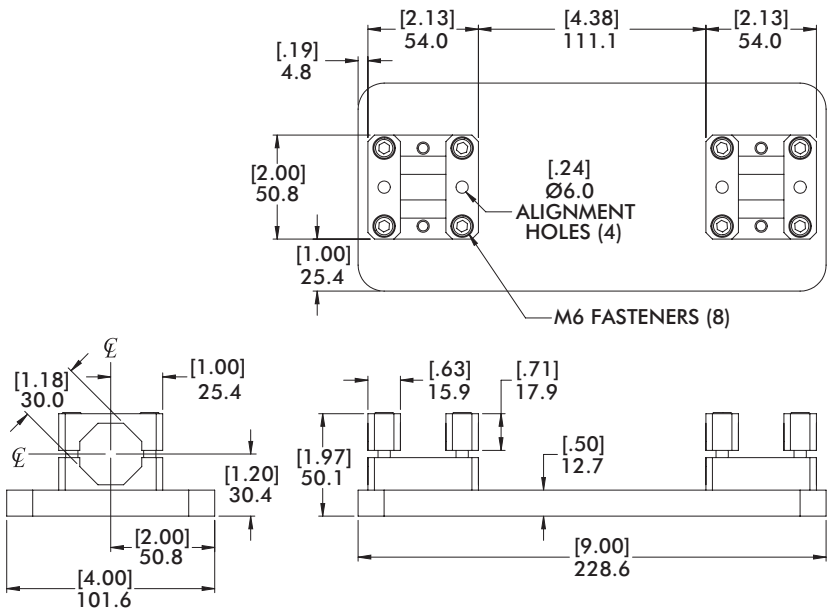


# BODYBUILDER™ MID-MOUNT ASSEMBLIES

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



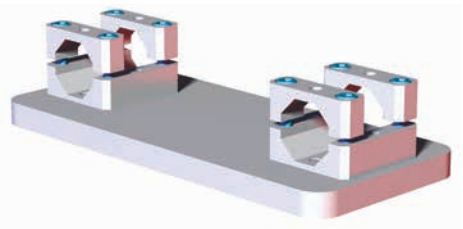
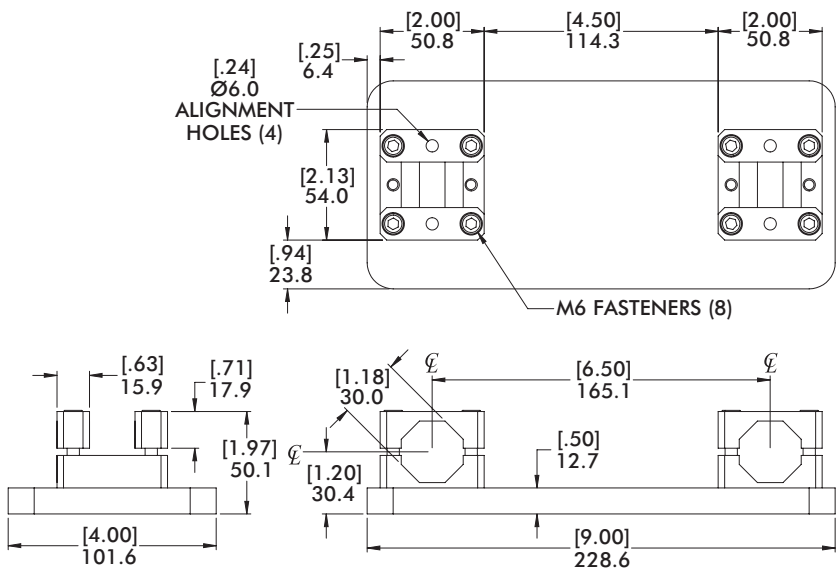
## RMM-30B-SE Single Extrusion 60mm Robot Adaptor Mid Mount



**Specifications:**  
Max. Static Product Load:  
102 Nm [75 ft-lb] **Material:**  
Aluminum

Model Number	Weight
CPI-RMM-30B-SE	1.05 kg [2.31 lb]

## RMM-30B-DE Double Extrusion 30mm Robot Adaptor Mid Mount

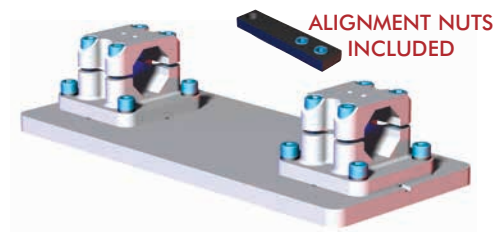
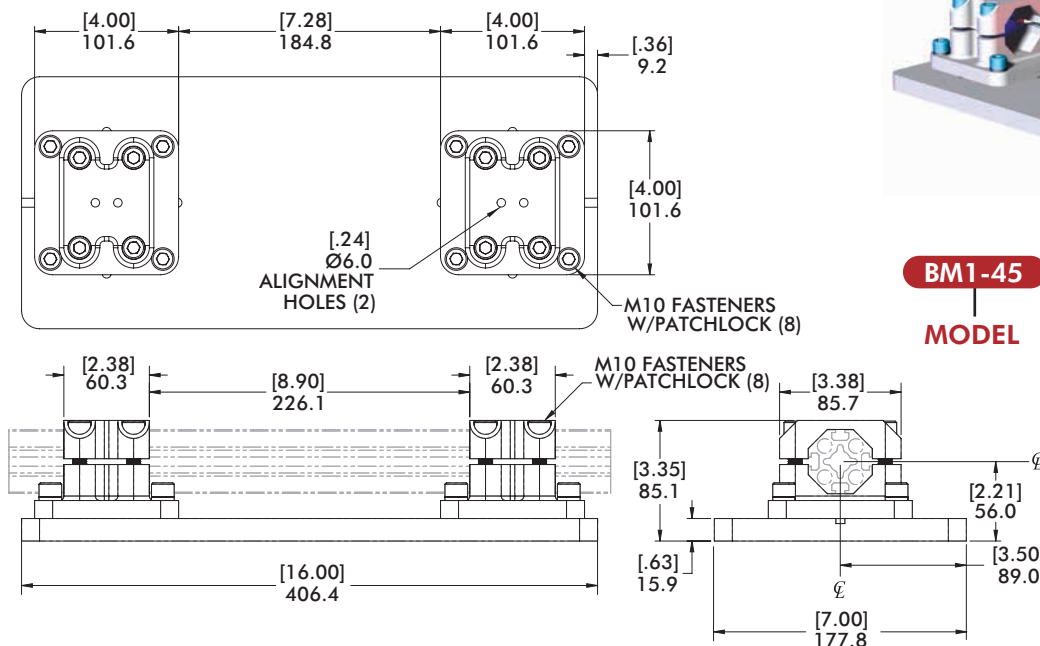


**Specifications:**  
Max. Static Product Load:  
102 Nm [75 ft-lb] **Material:**  
Aluminum

Model Number	Weight
CPI-RMM-30B-DE	1.05 kg [2.31 lb]



## BM1-45-SE Single Extrusion 45mm Mid Mount



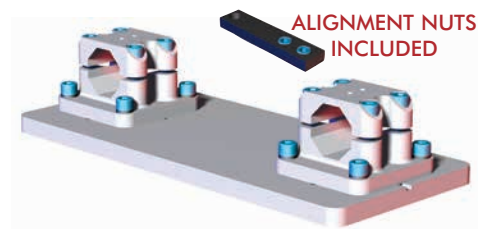
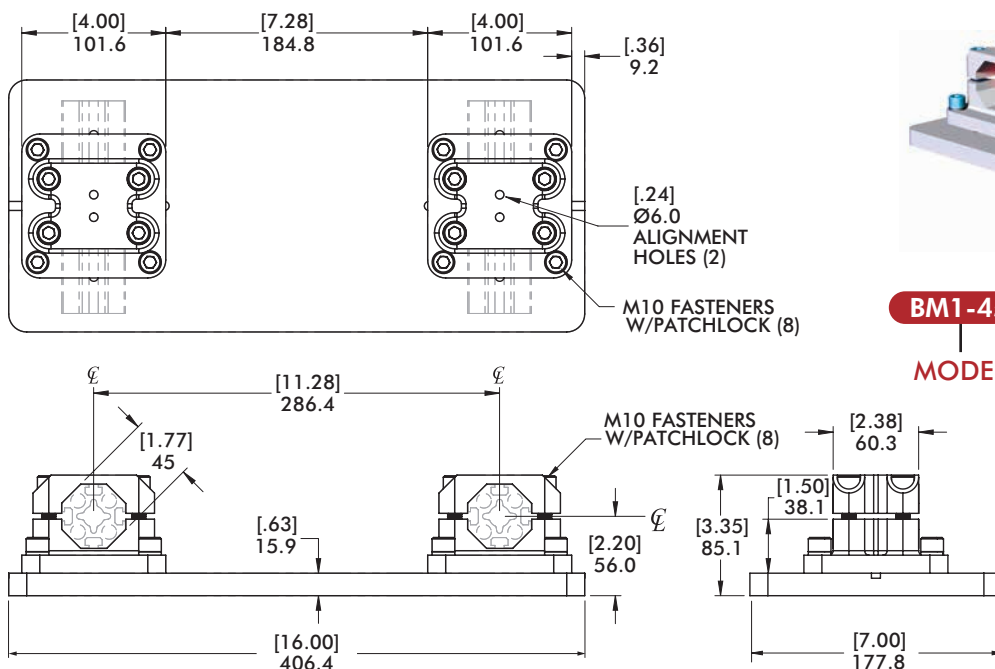
**BM1-45** — **SE** — **RXX**  
**MODEL** **BOOM SETUP (SINGLE)** **ROBOT INTERFACE PATTERN (PAGE 19-21)**

**Specifications:**  
**Max. Static Product Load:**  
 350 Nm [258 ft-lb]  
**Material:** Aluminum

**Weight**  
 5.05 kg [11.1 lb]

Can be supplied with robot interface hole patterns. (See pages 19-21).

## BM1-45-DE Double Extrusion 45mm Mid Mount



**BM1-45** — **DE** — **RXX**  
**MODEL** **BOOM SETUP (DOUBLE)** **ROBOT INTERFACE PATTERN (PAGE 19-21)**

**Specifications:**  
**Max. Static Product Load:**  
 350 Nm [258 ft-lb]  
**Material:** Aluminum

**Weight**  
 5.05 kg [11.1 lb]

Can be supplied with robot interface hole patterns. (See pages 19-21).

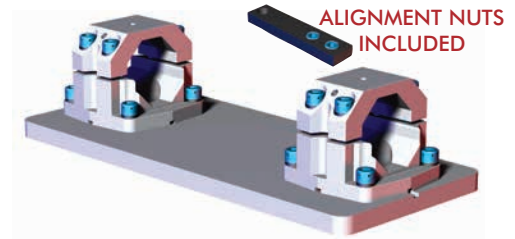
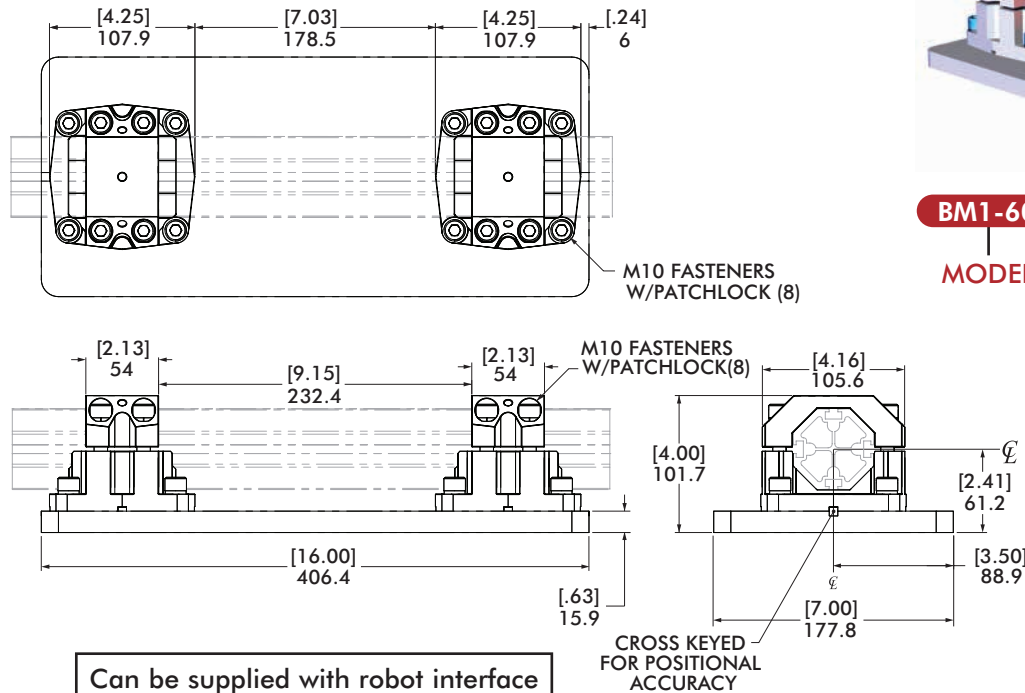


# BODYBUILDER™ MID MOUNT ASSEMBLIES

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



## BM1-60-SE 60mm Single Extrusion Mid Mount Assembly

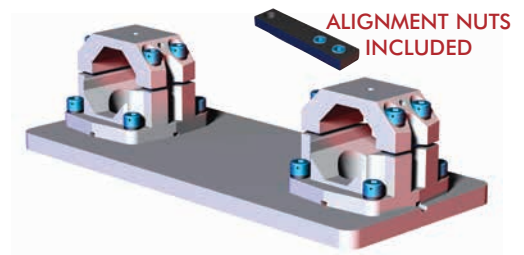
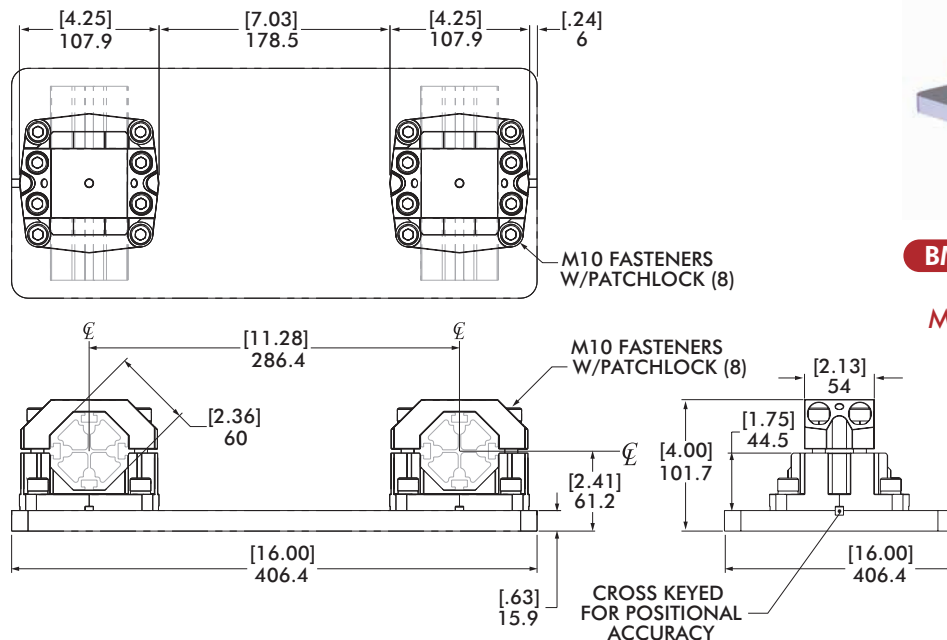


**BM1-60** — **SE** — **RXX**  
**MODEL** — **BOOM SETUP (SINGLE)** — **ROBOT INTERFACE PATTERN (PAGE 19-21)**

**Specifications:**  
**Max. Static Product Load:**  
 675 Nm [500 ft-lb]  
**Material:** Aluminum

**Weight**  
 5.2 kg [11.5 lb]

## BM1-60-DE 60mm Double Extrusion Mid Mount Assembly



**BM1-60** — **DE** — **RXX**  
**MODEL** — **BOOM SETUP (DOUBLE)** — **ROBOT INTERFACE PATTERN (PAGE 19-21)**

**Specifications:**  
**Max. Static Product Load:**  
 675 Nm [500 ft-lb]  
**Material:** Aluminum

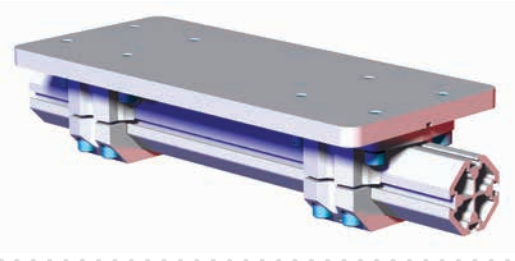
**Weight**  
 5.2 kg [11.5 lb]



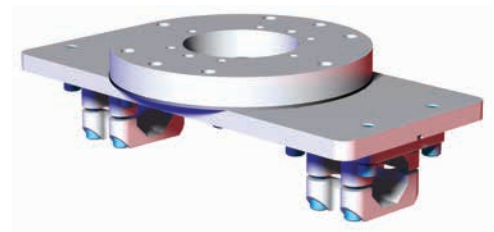
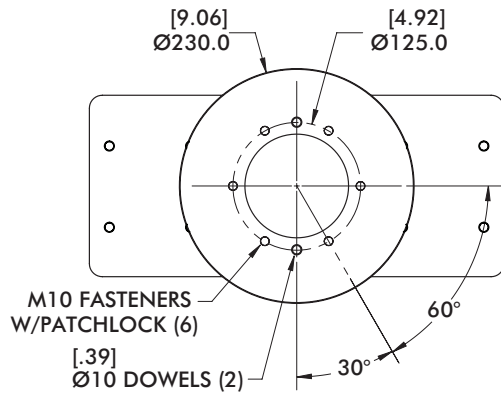
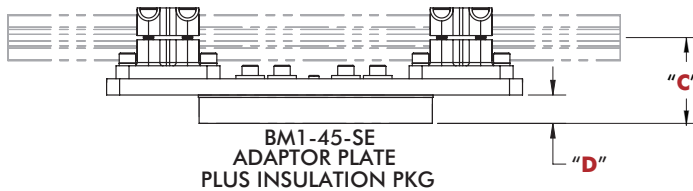
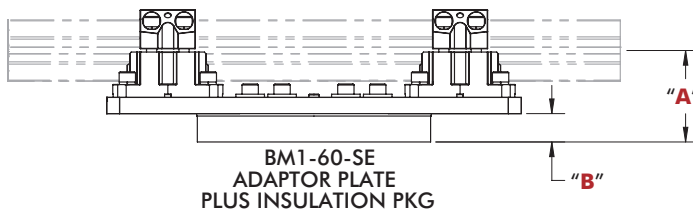
## BM1-45/BM1-60 Mid Mount Assembly - Mount Plate

**Specifications:**  
**Material:** Aluminum

- Features:**
- Can be machined or left blank.
  - Can be supplied with robot interface hole patterns. (See pages 19-21).



## BM1-45/BM1-60 Mid Mount Assembly - Adapter Plate



All mounting patterns on pages 19-21 can be used for **BM1-60** and **BM1-45** Mid Mount Assemblies.  
All Ø200mm mounting patterns, when used on the **BM1-45** and **BM1-60**, includes an Adapter Plate as shown.

### MID MOUNT ASSEMBLY ADAPTER PLATE

PATTERN	"A"	"B"	"C"	"D"
R01, R10, R11, R16	89.6 [3.53]	27.8 [1.09]	83.8 [3.30]	27.8 [1.09]
R07, R09	96.0 [3.78]	34.1 [1.34]	99.6 [3.92]	34.1 [1.34]



# BODYBUILDER™ MID MOUNT ASSEMBLIES

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



## RM4-45 45mm, RM4-60 60mm Heavy Duty Mid Mount Assembly - Dimensions

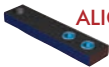
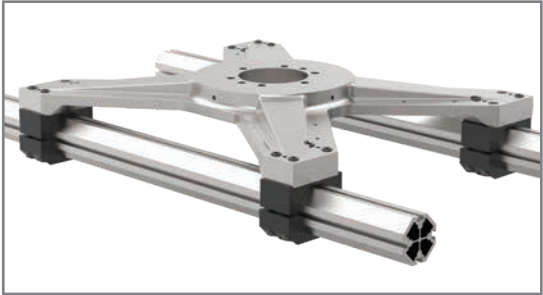
### Features:

- Can be used as a direct robot interface.
- Provide robust clamping of each extrusion for maximum stability.
- Standard robot interface patterns provided. Plate can also be left blank.

### Specifications:

**Max. Static Product Load:**  
453.6 kg [1000 lb]

**Material:**  
Mid Mount:  
Cast Aluminum  
Clamps: Steel



ALIGNMENT NUTS  
INCLUDED

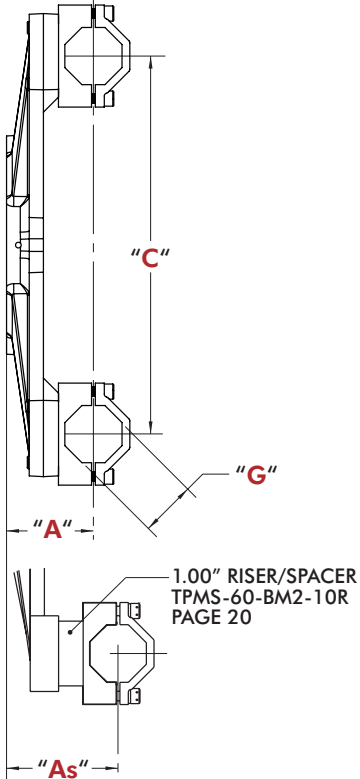
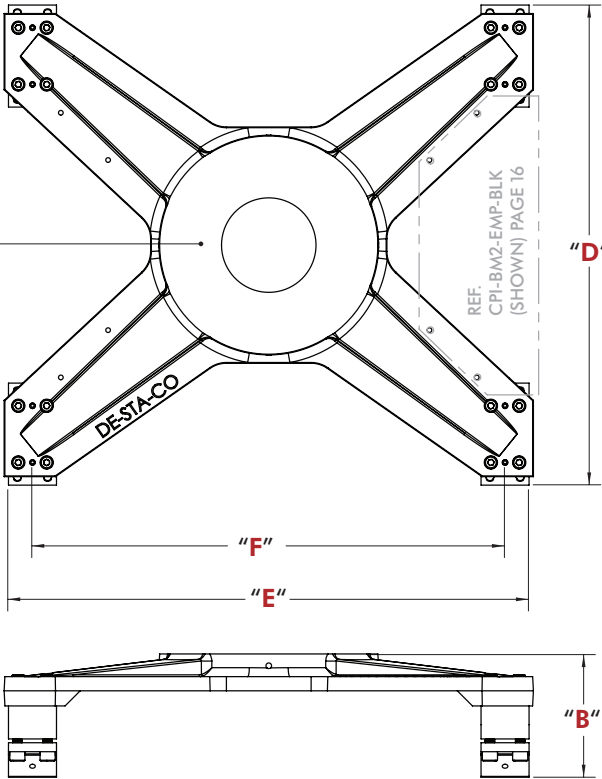
### ROBOT INTERFACE PLATE SHOWN BLANK.

PLEASE REFER TO PAGES  
20-22 FOR STANDARD  
ROBOT INTERFACE BOLT  
PATTERNS & DIMENSIONS

**NOTE:**  
SCREWS AND FASTENERS  
FOR MOUNTING ARE NOT  
INCLUDED

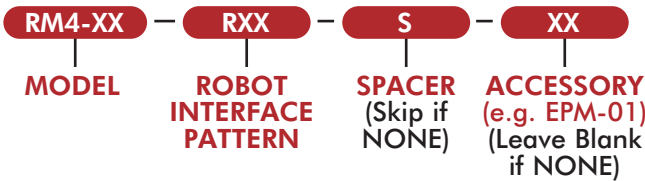
ADD 1.5MM TO "A"/"AS"  
DIM FOR INSULATION  
PACKAGE IF REQUIRED.

INSULATION PACKAGE  
INCLUDES:  
(1) INSULATION PLATE,  
BUSHINGS AND WASHERS



### HEAVY-DUTY MID MOUNT ASSEMBLY DIMENSIONS

Model	"A"	"As"	"B"	"C"	"D"	"E"	"F"	"G"	Weight
RM4-45 (45mm)	85.6 [3.37]	111 [4.37]	117.6 [4.63]	400 [15.75]	490 [19.29]	560 [22.05]	500.0 [19.69]	45	13.6 kg [30.0 lb]
RM4-60 (60mm)	91.9 [3.62]	117.3 [4.62]	131.7 [5.185]	400.0 [15.75]	508 [20.00]	560.8 [22.85]	500.0 [19.69]	60	15.5 kg [34.2 lb]





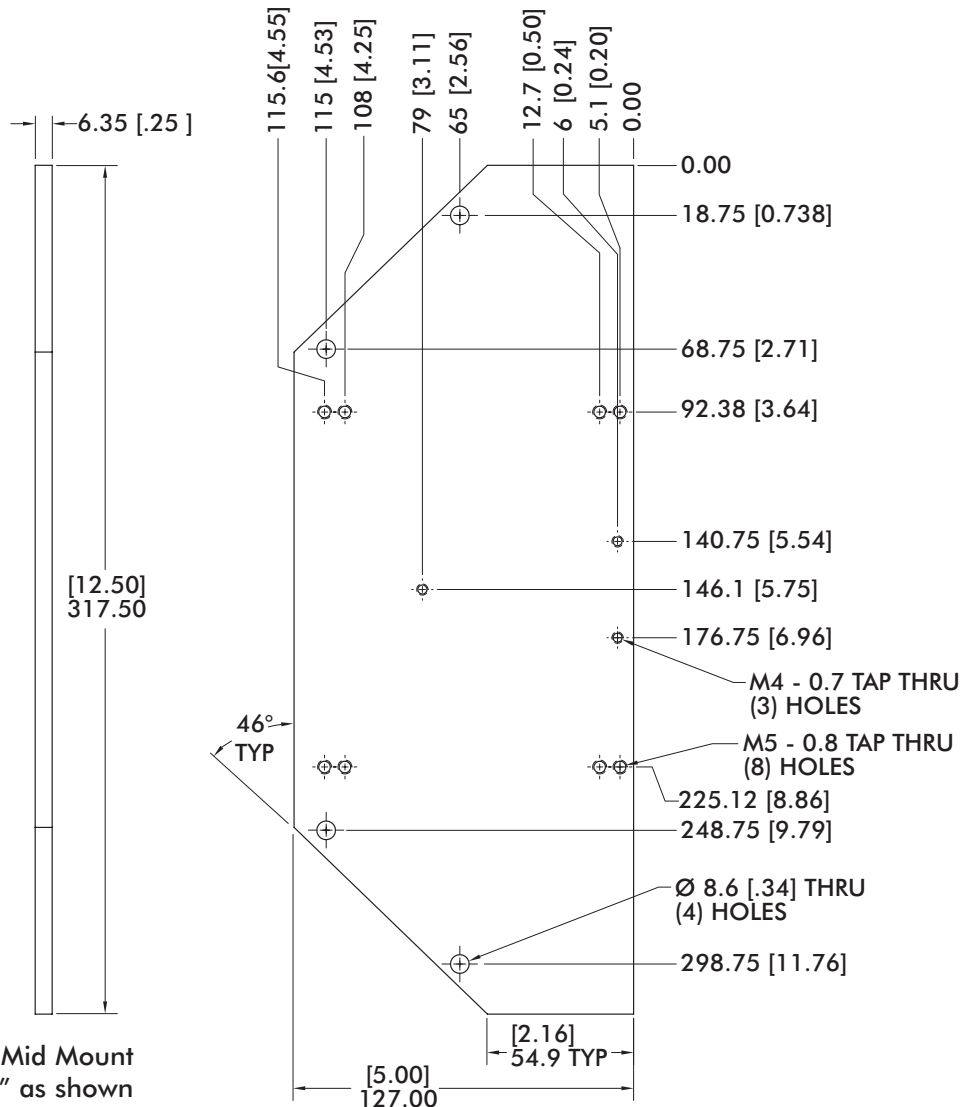
## BM2-EPM Accessory Mount Plate



**Specifications:**  
**Material:** Aluminum

**Features:**

- Mount directly to the RM4-45 or RM4-60 Heavy Duty Mid-Mount Assembly.
- Used to mount pneumatic manifolds and electric proximity blocks.



When ordering with Heavy Duty Mid Mount  
Please add designation "EPM-01" as shown  
RM4-XX-RXX-**EPM-01** or  
add designation "EPM-BLK" to order blank  
RM4-XX-RXX-**EPM-BLK**

To order separately use Model Number

(A)	Pattern	Model RM4-45/60	Weight
<b>EPM-01</b>	Standard	CPI-BM2-EPM-01	.63 kg [1.39 lb]
<b>EPM-BLK</b>	Blank	CPI-BM2-EPM-BLK	

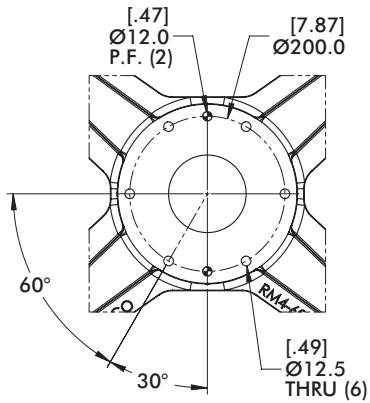
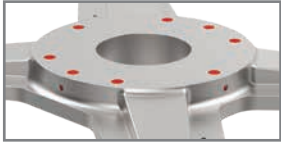


# BODYBUILDER™ MID MOUNT BOLT PATTERNS

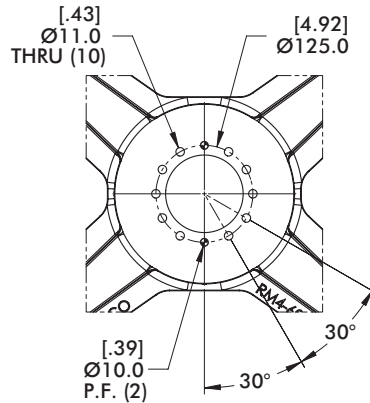
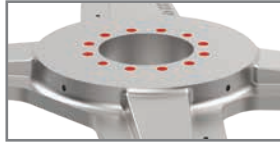
BodyBuilder™ Octagonal Tooling | Robot Interface Bolt Patterns



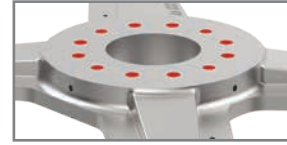
**R01 (Ø200mm Bolt Circle)**



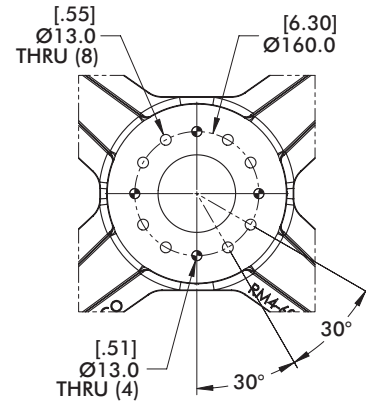
**R02 (Ø125mm Bolt Circle)**



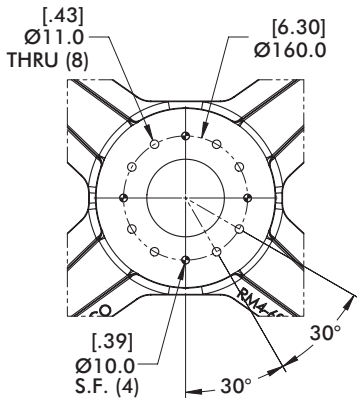
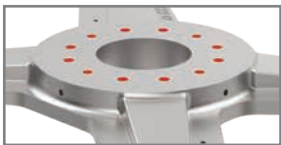
**R03 (Ø160mm Bolt Circle)**



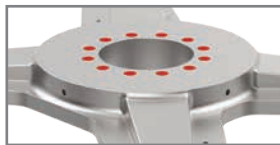
**Includes Insulation**  
Add 1.5mm to Height Dim "A"/"AS"



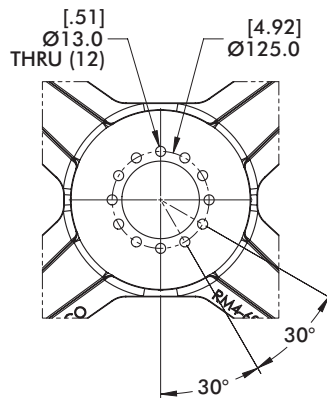
**R04 (Ø160mm Bolt Circle)**



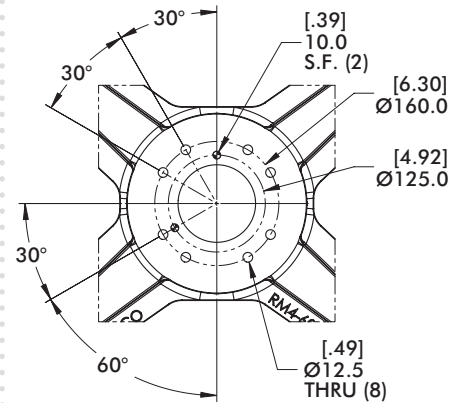
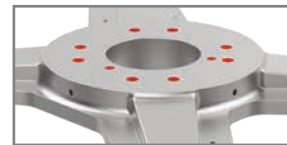
**R05 (Ø125mm Bolt Circle)**



**Includes Insulation**  
Add 1.5mm to Height Dim "A"/"AS"

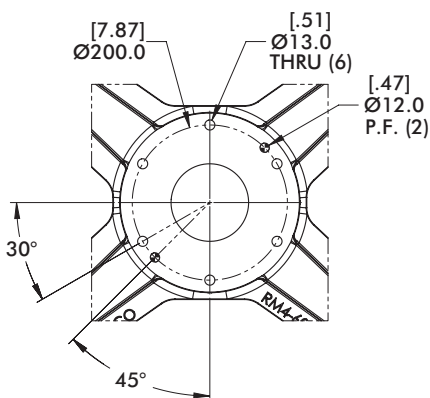


**R06 (Ø125/160mm Bolt Circle)**





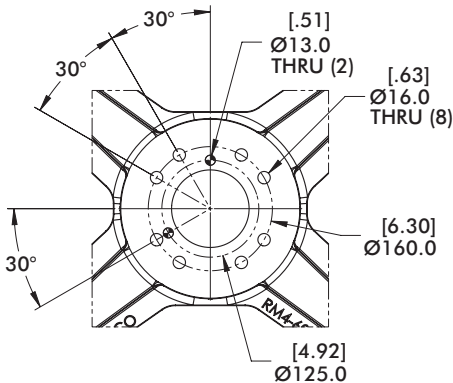
**R07 (Ø200mm Bolt Circle)**



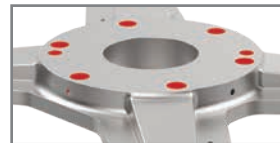
**R08 (Ø125/160mm Bolt Circle)**



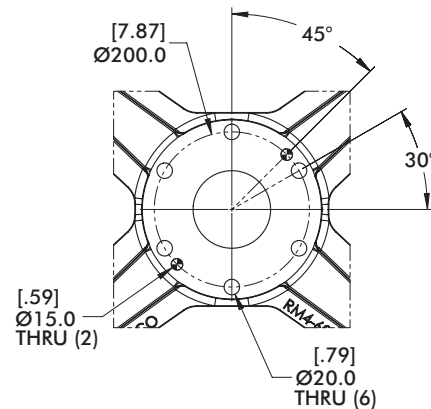
**Includes Insulation**  
Add 1.5mm to Height Dim "A"/"AS"



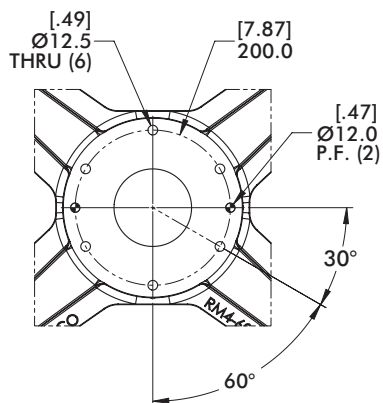
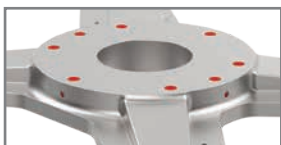
**R09 (Ø200mm Bolt Circle)**



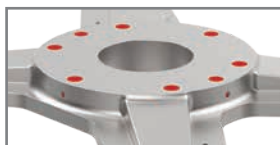
**Includes Insulation**  
Add 1.5mm to Height Dim "A"/"AS"



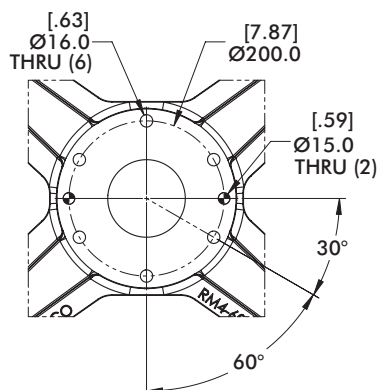
**R10 (Ø200mm Bolt Circle)**



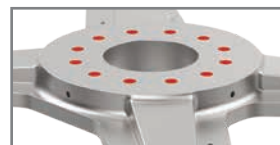
**R11 (Ø200mm Bolt Circle)**



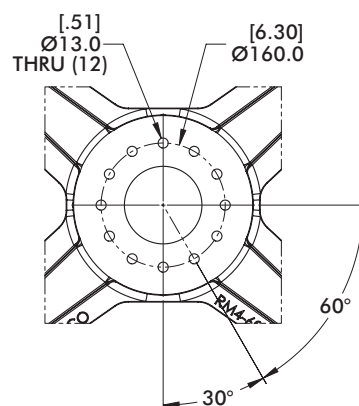
**Includes Insulation**  
Add 1.5mm to Height Dim "A"/"AS"



**R12 (Ø160mm Bolt Circle)**



**Includes Insulation**  
Add 1.5mm to Height Dim "A"/"AS"



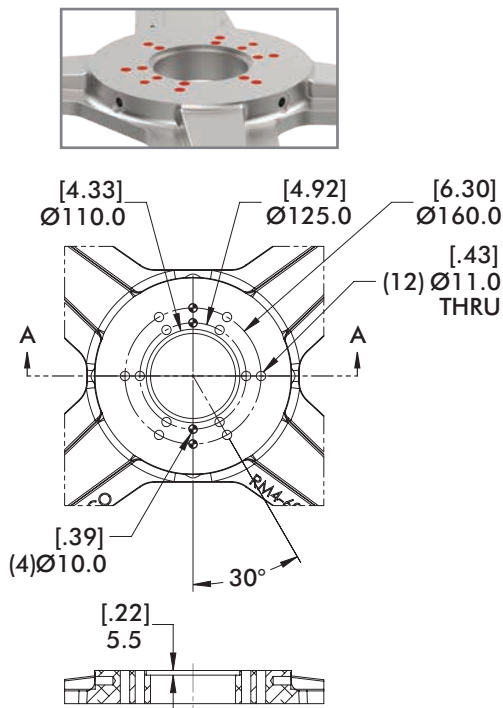


# BODYBUILDER™ MID MOUNT BOLT PATTERNS

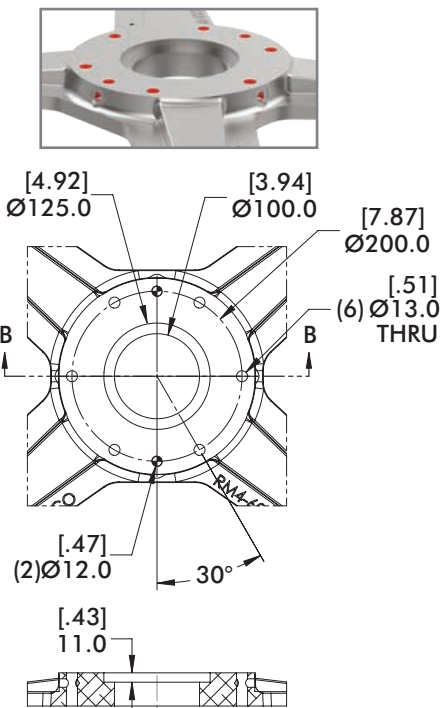
BodyBuilder™ Octagonal Tooling | Robot Interface Bolt Patterns



**R13 (Ø125/160mm Bolt Circle)  
(Ø110mm Pilot, 5.5mm Deep)**

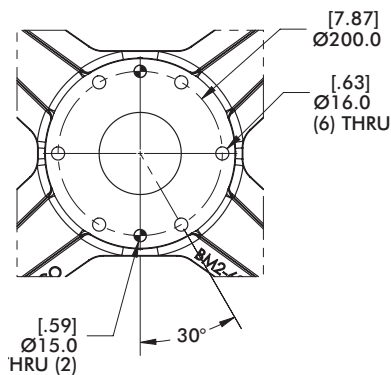


**R14 (Ø200mm Bolt Circle)  
(Ø125mm Pilot, 11mm Deep)**

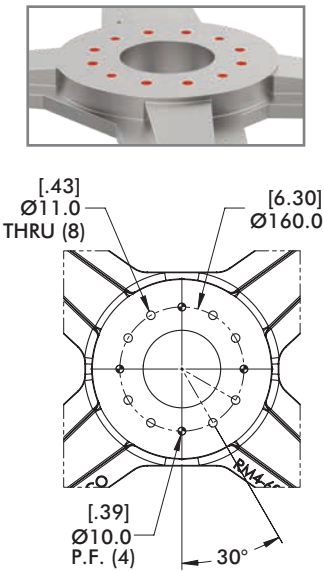


**R16 (Ø200mm Bolt Circle)**

**Includes Insulation**  
Add 1.5mm to Height Dim "A"/"AS"

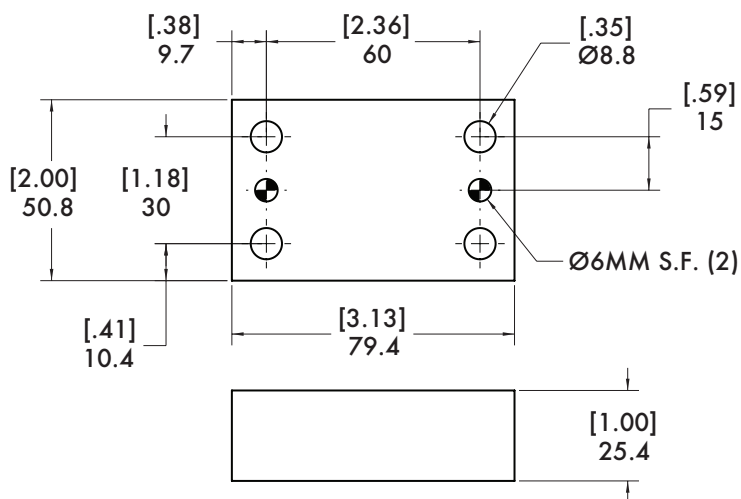
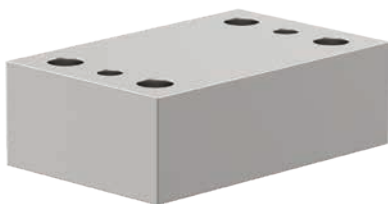


**R17 (Ø160mm Bolt Circle)**





## RM4-60 Heavy Duty Mid Mount Assembly - 1.00" Riser/Spacer



When ordering with Heavy Duty Mid Mount  
add designation (S) as shown:

RM4-60-RXX-**S**

To order Riser separately use Model Number.

Riser for	Model	Weight
RM4-60	TPMS-60-BM2-10R	.26 kg [.56 lb]

**Specifications:**  
**Material:** Aluminum



# BODYBUILDER™ MID MOUNT ASSEMBLIES

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



## ATI-151-90HD-60BB 60mm Mid Mount

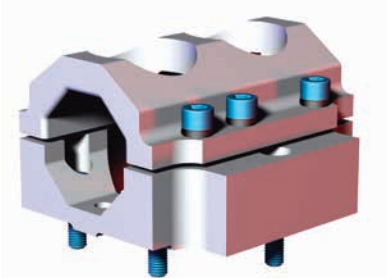
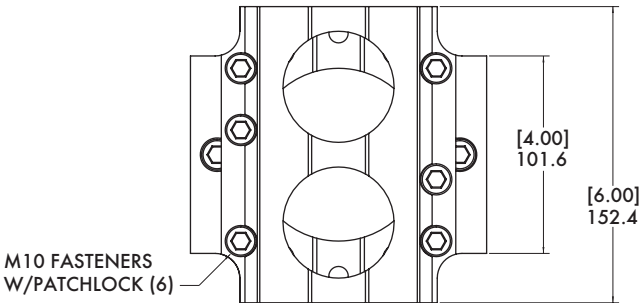
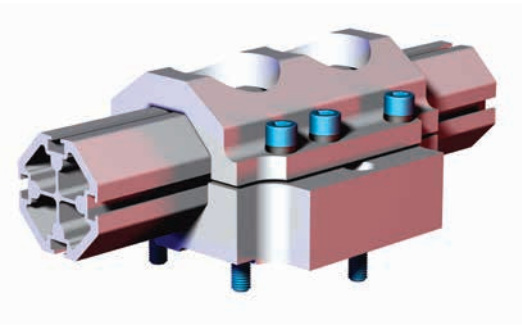
**Specifications:**

**Max. Static Product Load:**  
746 Nm [550 ft-lb] ]

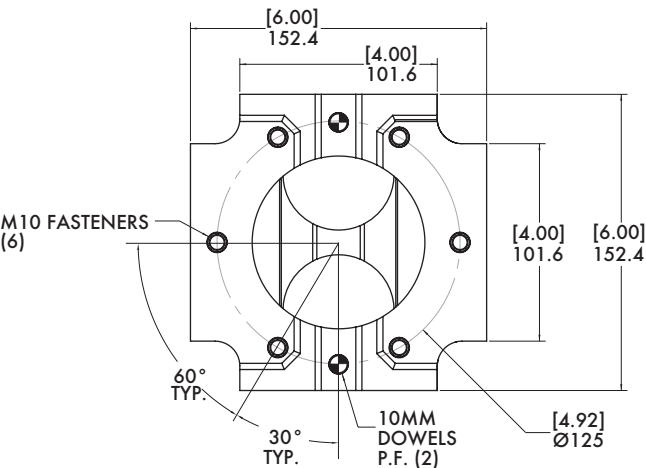
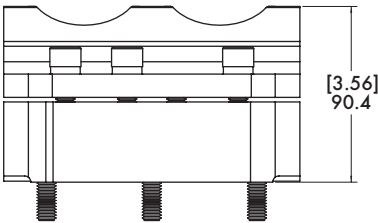
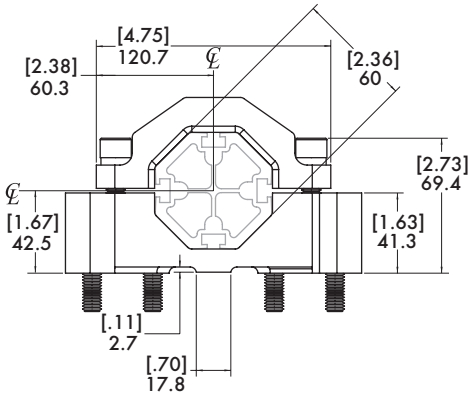
**Material:** Aluminum

**Features:**

- Can be used as direct robot interface.



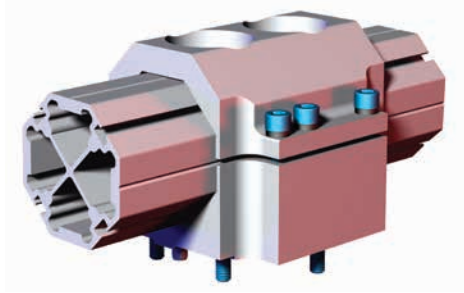
Fasteners included, Dowels not included



Model Number	Weight
CPI-ATI-151-90HD-60BB	3.22 kg [7.10 lb]



## ATI-151-90HD-90BB 90mm Mid Mount



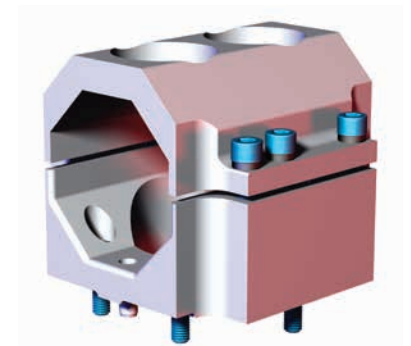
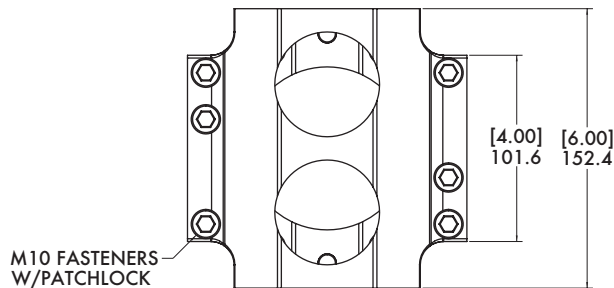
### Features:

- Can be used as direct robot interface.

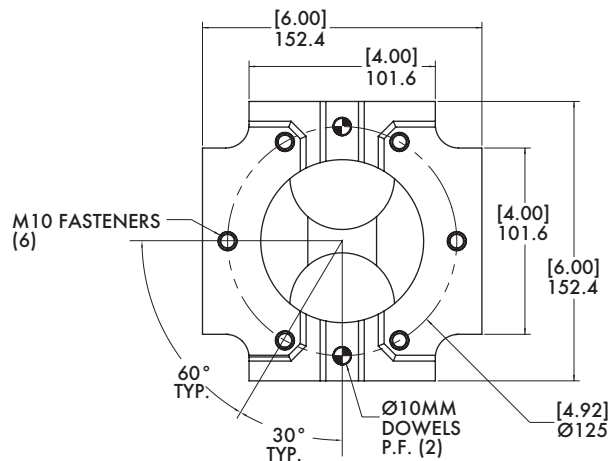
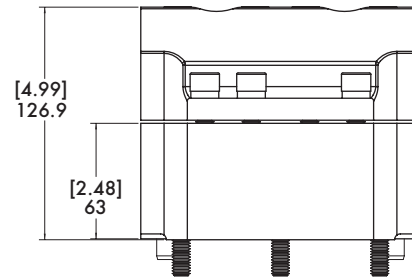
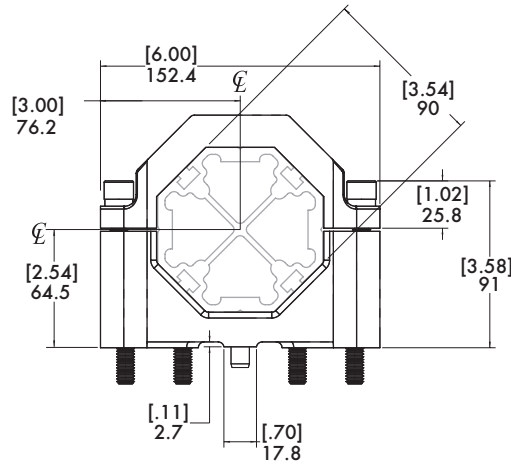
### Specifications:

**Max. Static Product Load:**  
1355 Nm [1000 ft-lb]

**Material:** Aluminum



Fasteners and Dowels Included



Model Number	Weight
CPI-ATI-151-90HD-90BB	2.89 kg [6.38 lb]



# BODYBUILDER™ END MOUNT ASSEMBLIES

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



## CL-90B-160F 90mm End Mount

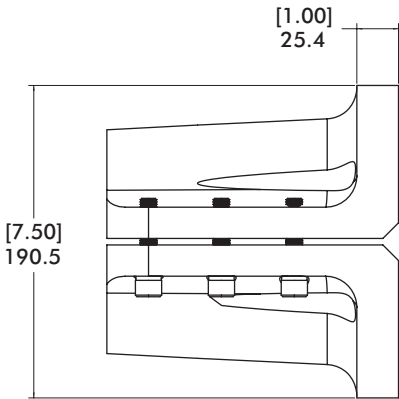
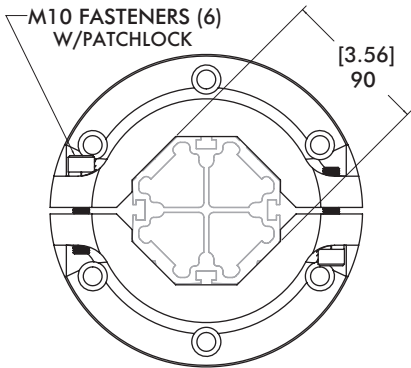
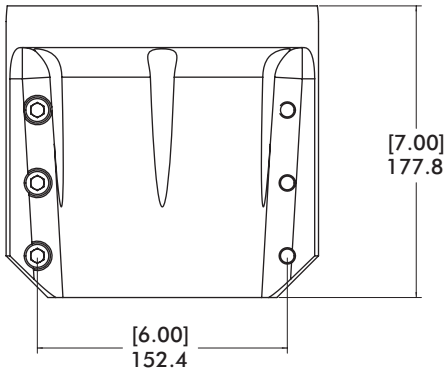
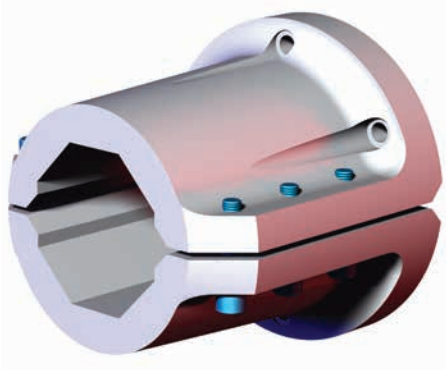
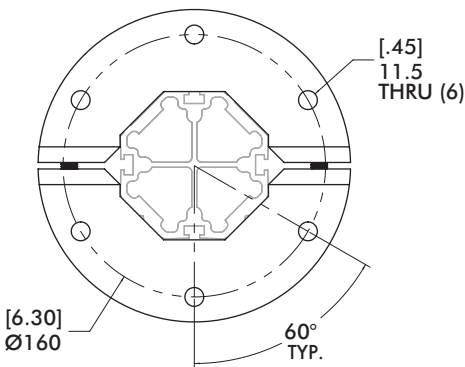
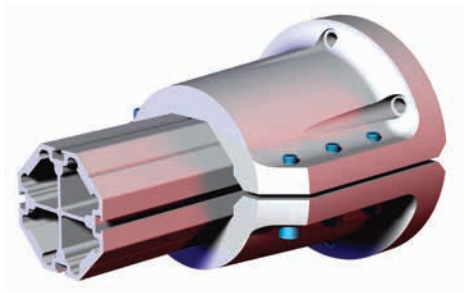
**Specifications:**

**Max. Static Clamp Load:**  
746 Nm [550 ft-lb]

**Material:** Aluminum

**Features:**

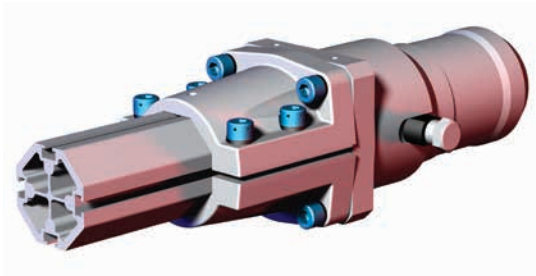
- Can be used as direct robot interface.



Model Number	Weight
CPI-CL-90B-160F	5.91 kg [13.04 lb]



## RDCF-60B 60mm BodyBuilder™ Bayonet



### Features:

- Used in conjunction with Quick Disconnect Housing to provide an efficient method for changing tools manually.
- Two, hardened alignment pins allow quick and accurate installation into the housing.
- Optional 4-port air and electric available.

### Specifications:

**Max. Static Product Load:**  
746 Nm [550 ft-lb]

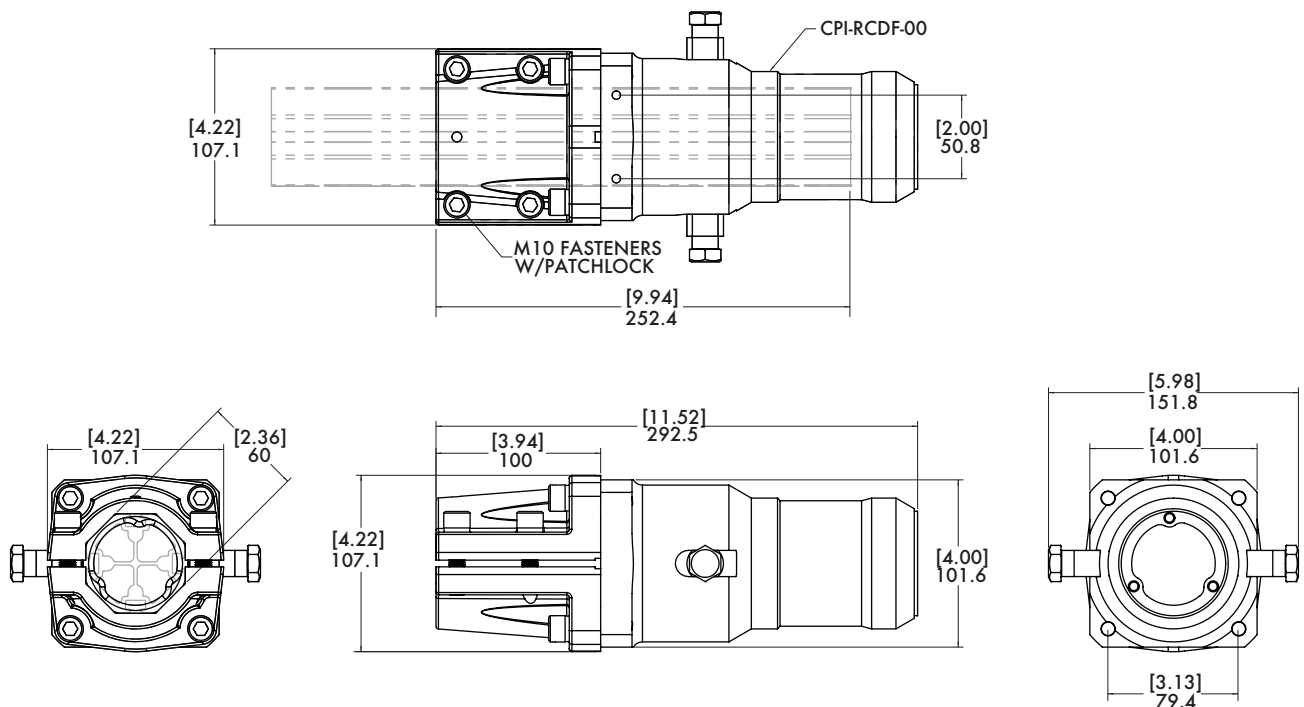
### Material:

Body: Aluminum  
Pins: Steel

*Used in conjunction with Quick Disconnect Housing to provide an efficient method for changing tools manually.*



*Optional 4-port air and electric connections available.*



Model Number	Weight
CPI-RDCF-60B-00-00-X	3.16 kg [6.96 lb]



# BODYBUILDER™ BAYONETS

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



## Specifications:

**Max. Static Product Load:**  
746 Nm [550 ft-lb]

## Material:

Body: Aluminum

Knuckles: Brass

Handle and Hooks: Steel

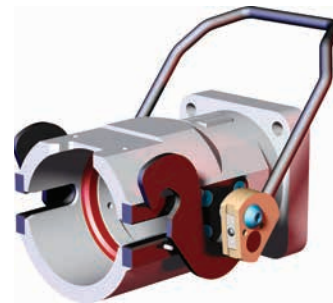
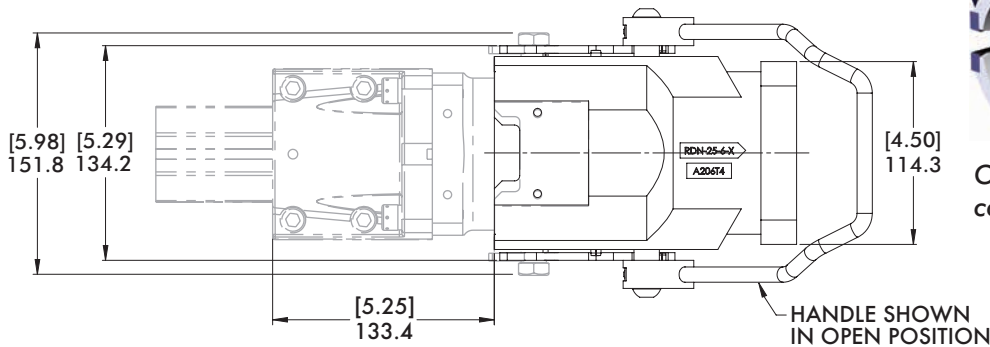
Inserts: Urethane

## Features:

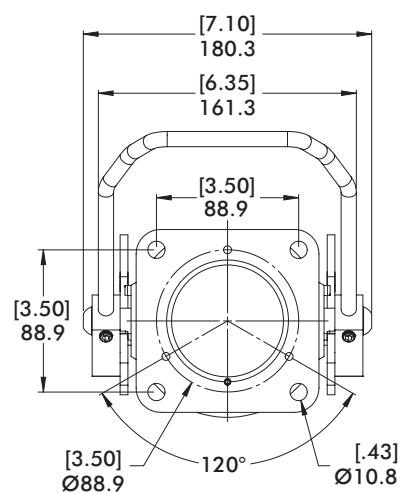
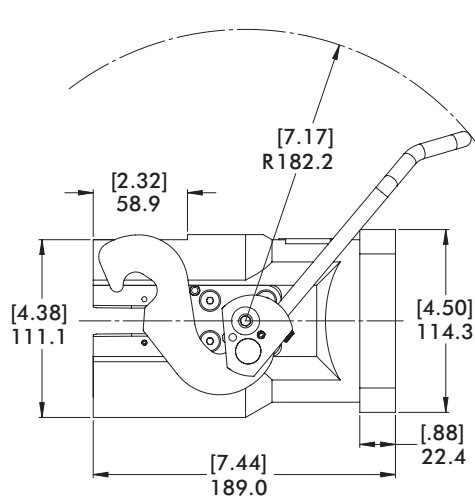
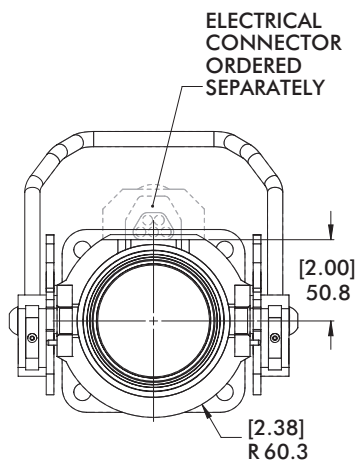
- Actuation of handle allows quick and accurate installation by pulling the bayonet into a fixed position within the housing.
- The internal rings eliminate vibration and seat the bayonet into a clamped position.
- Hardened steel retainer slots reduce wear and extend product life.



Used in conjunction with 60 mm BodyBuilder™ Bayonet to provide an efficient method for changing tools manually.



Optional 4-port air and electric connections available.



**Model Number**  
CPI-RDN-25-6

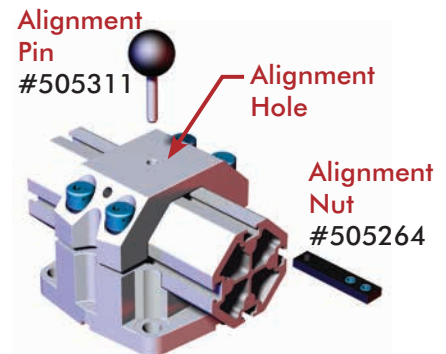
**Weight**  
4.00 kg [8.90 lb]



BodyBuilder™ Robotic Tooling System offers a patented alignment system, ensuring that all BodyBuilder™ components can be adjusted to the original set-up position.

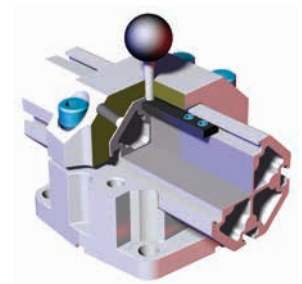
Once the BodyBuilder™ structure bracket mount is secured into place during set-up, insert the alignment nut into the octagonal boom channel groove.

Be sure the alignment nut is inserted so that when it is slid under the bracket mount, the set screws can still be accessed outside the bracket mount as shown.

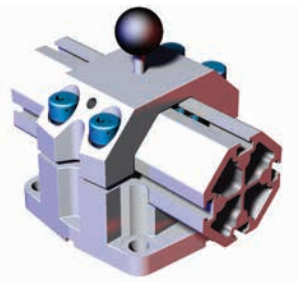


Slide the alignment nut along the boom groove and underneath the bracket mount until the hole in the block and the appropriate calibration hole in the bracket mount is aligned visual.

Insert the alignment pin into the alignment hole of the bracket mount, through the alignment nut until it stops in the groove of the boom channel.



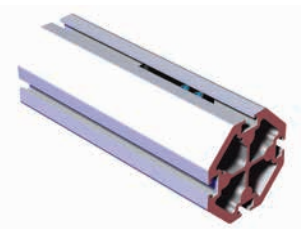
With the alignment pin in place, the alignment nut should not move. Secure bracket mount in the channel groove by tightening the two set screws. Remove alignment pin as it is used as a probe for alignment purposes only.



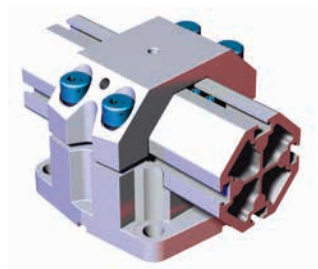
The alignment nut remains in place even when the bracket mount is removed.

To order replacement alignment pin or nut, please use the following order numbers:

Alignment Pin **#505311**, Alignment Nut **#505264**



To Replace the Bracket mount, place the assembled bracket mount on the Bodybuilder™ boom until the alignment holes are visually aligned. Insert the alignment pin to secure bracket mount in place, and tighten the fasteners.



Remove the alignment pin and continue tightening the fasteners to specified torque values.

U.S. PATENT 6,349,912



# BODYBUILDER™ TRANSITION BRACKETS AND BLOCKS



BodyBuilder™ Octagonal Tooling | Explaining the Patented Alignment System

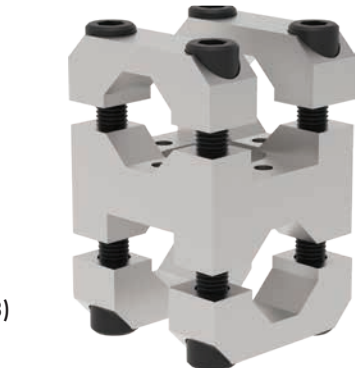
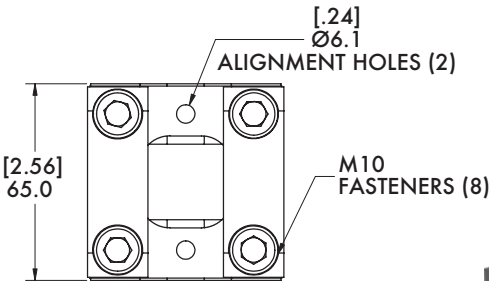
## 30B-30B 30mm to 30mm Transition Bracket Assembly

**Features:**

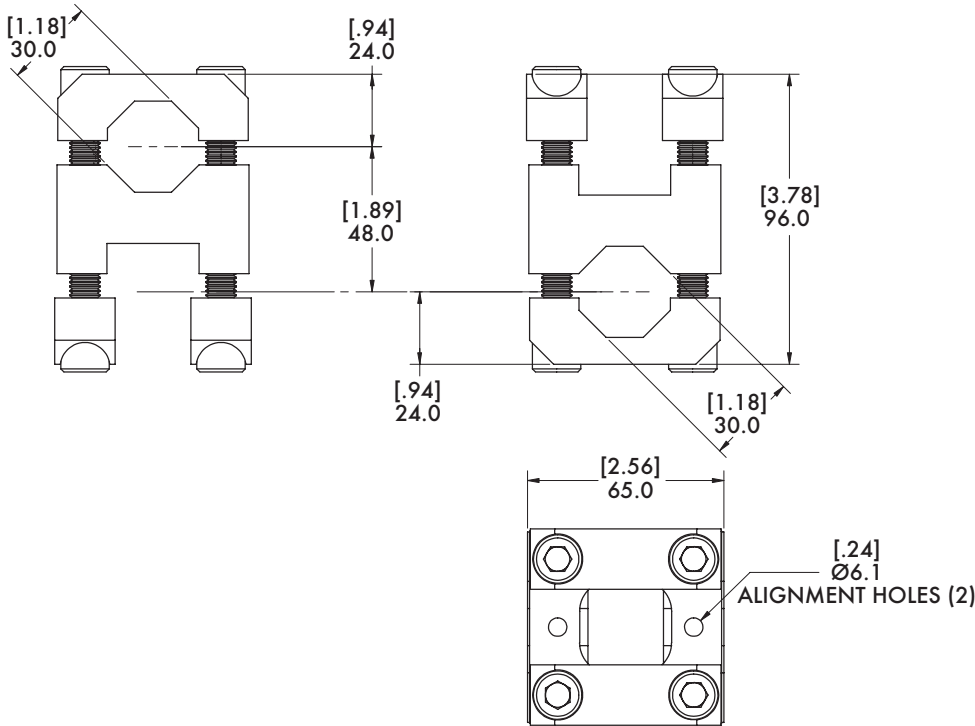
- Connects (2) 30mm extrusions perpendicular to each other.
- Lightweight, high-strength aluminum design.

**Specifications:**

**Max.Static Clamp Load:**  
30mm: 271 Nm [200 ft-lb]  
**Material:** Aluminum



**ALIGNMENT NUTS INCLUDED**



Model Number	Weight
M-30B-30B-M	.82 kg [1.80 lb]



### 30B-45B 30mm to 45mm Transition Bracket Assembly



### Specifications:

**Max. Static Clamp Load:**

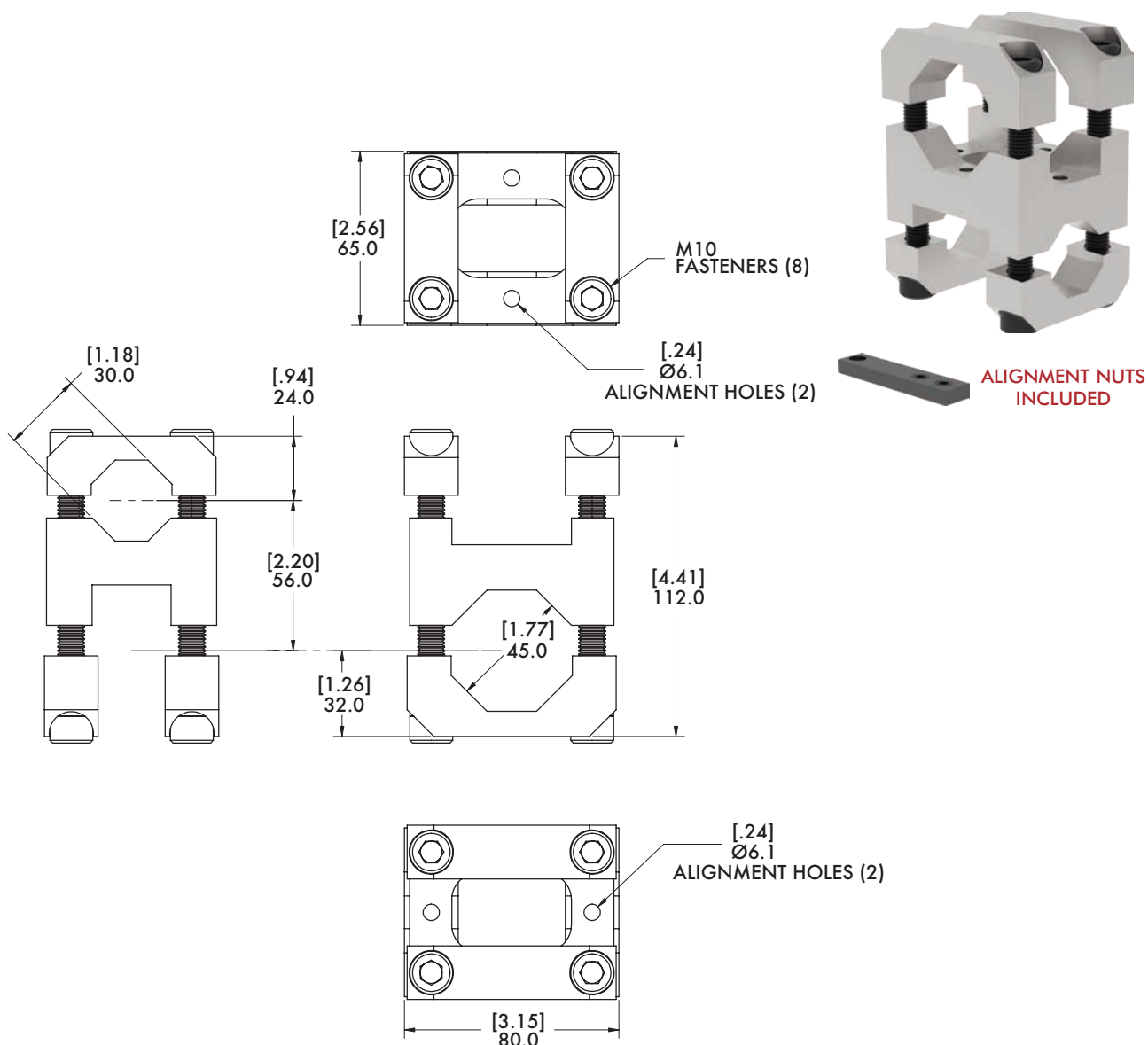
45mm: 475 Nm [350 ft-lb]

30mm: 271 Nm [200 ft-lb]

**Material:** Aluminum

### Features:

- Connects 30mm and 45mm extrusions perpendicular to each other.
- Lightweight, high-strength aluminum design.



Model Number	Weight
M-30B-45B-M	1.00 kg [2.20 lb]



# BODYBUILDER™ TRANSITION BRACKETS AND BLOCKS

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



## 45B-45B 45mm to 45mm Transition Bracket Assembly

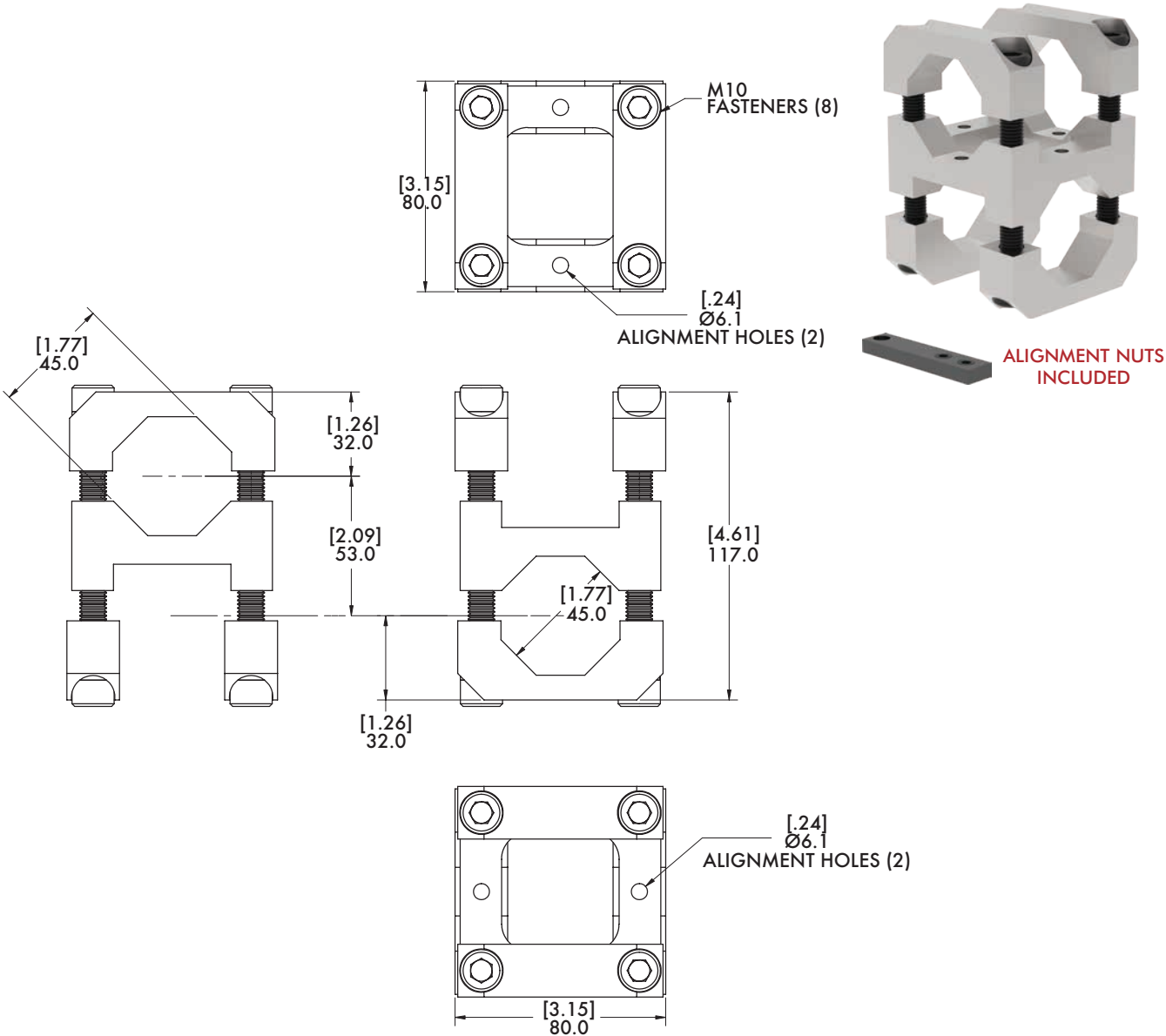
### Features:

- Connects (2) 45mm extrusions perpendicular to each other.
- Lightweight, high-strength aluminum design

### Specifications:

**Max. Static Clamp Load:**  
45mm: 475 Nm [350 ft-lb]

**Material:** Aluminum



Model Number

M-45B-45B-M

Weight

1.05 kg [2.31 lb]



## 30B-60B 30mm to 60mm Transition Bracket Assembly



### Specifications:

#### Max. Static Clamp Load:

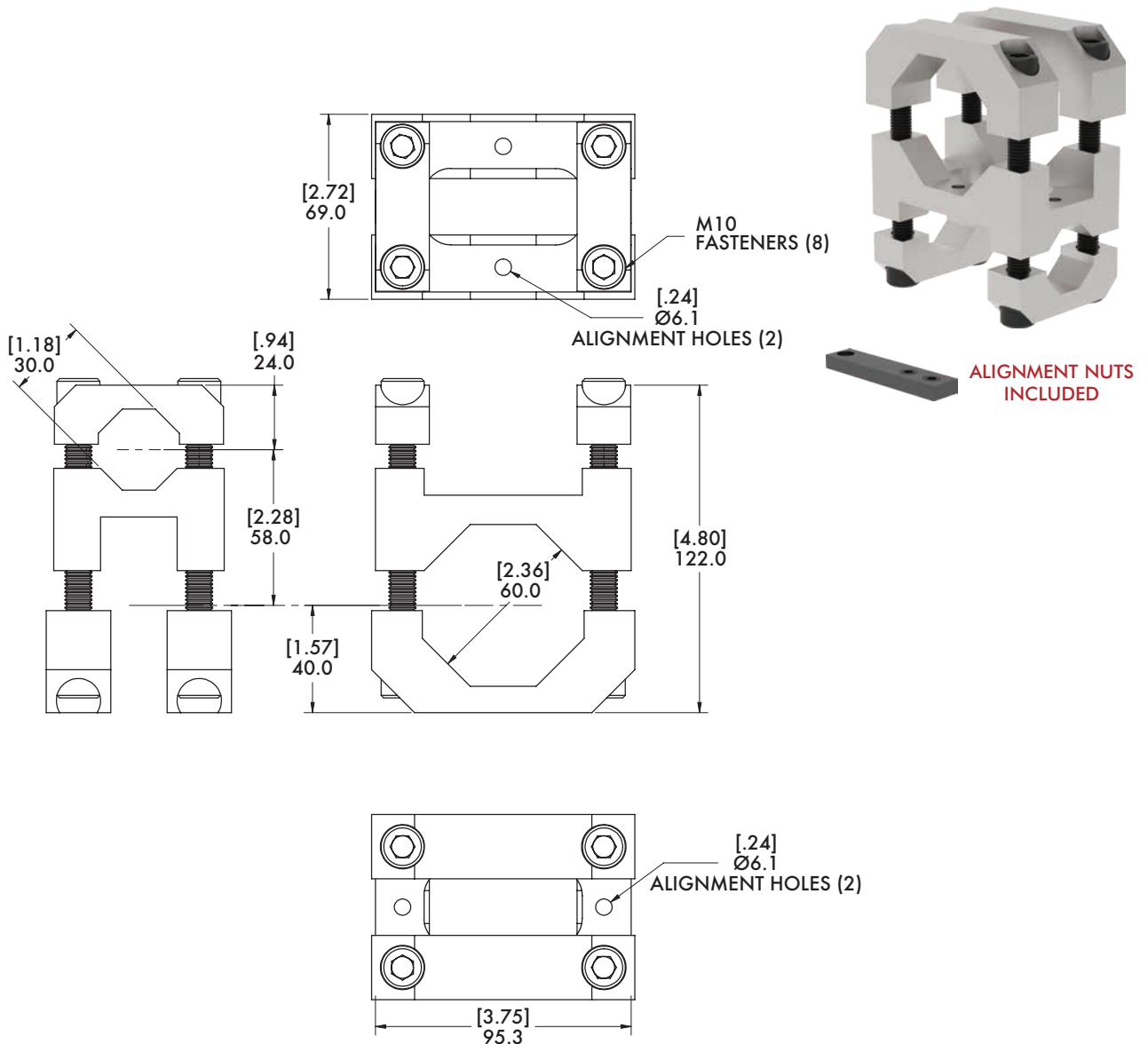
60mm: 746 Nm [550 ft-lb]

30mm: 271 Nm [200 ft-lb]

**Material:** Aluminum

### Features:

- Connects 30mm and 60mm extrusions perpendicular to each other.
- Lightweight, high-strength aluminum design.



**Model Number**

**M-30B-60B-M**

**Weight**

**1.13 kg [2.50 lb]**



# BODYBUILDER™ TRANSITION BRACKETS AND BLOCKS

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



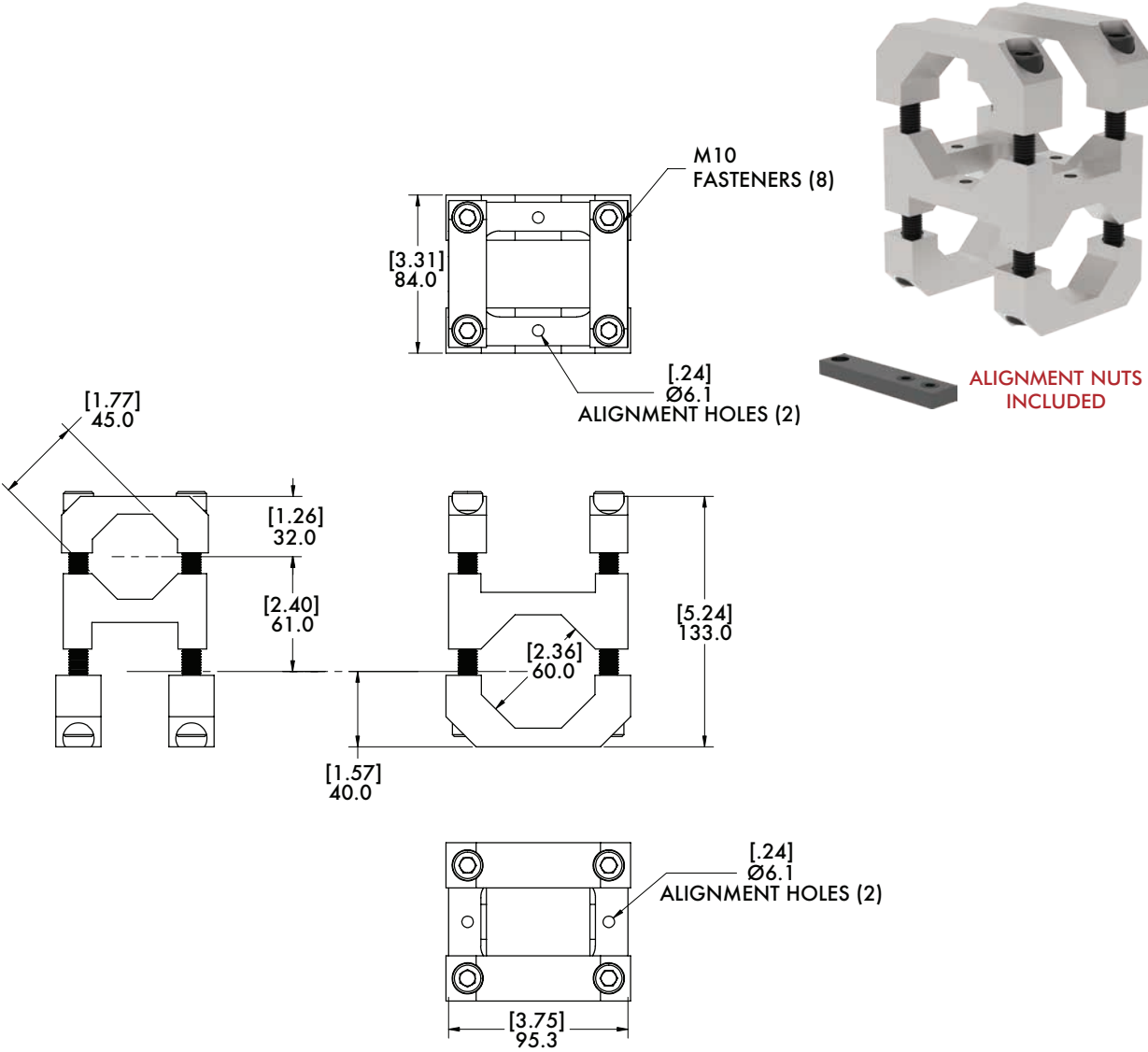
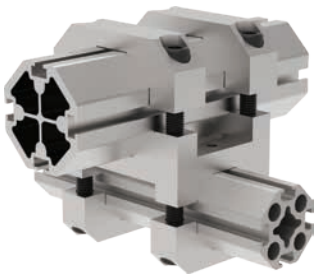
## 45B-60B 45mm to 60mm Transition Bracket Assembly

### Features:

- Connects 45mm and 60mm extrusions perpendicular to each other.
- Lightweight, high-strength aluminum design.

### Specifications:

**Max. Static Clamp Load:**  
60mm: 746 Nm [550 ft-lb]  
45mm: 475 Nm [350 ft-lb]  
**Material:** Aluminum



Model Number

M-45B-60B-M

Weight

1.23 kg [2.70 lb]



## 60B-60B 60mm to 60mm Transition Bracket Assembly



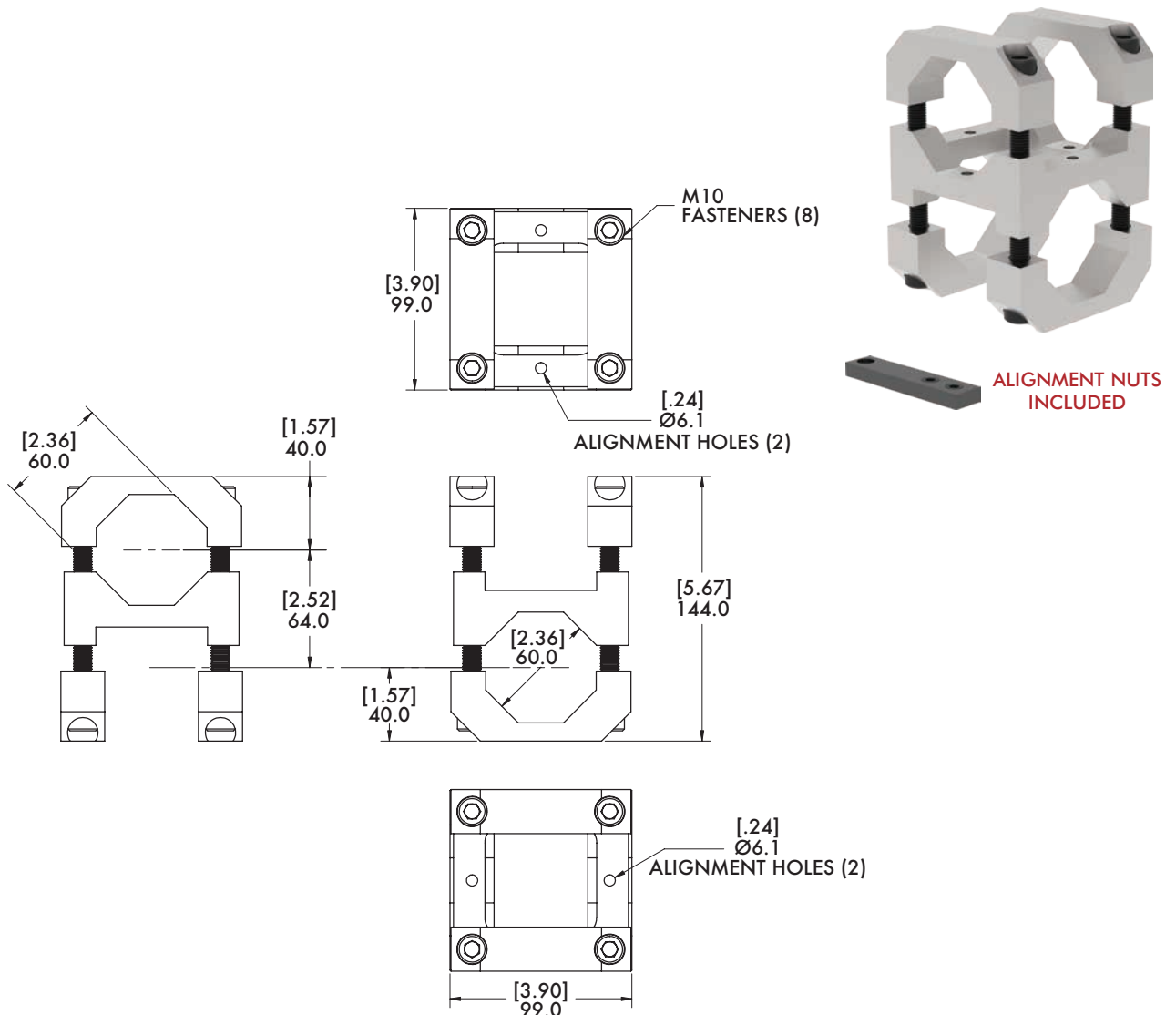
### Specifications:

**Max. Static Clamp Load:**  
60mm: 746 Nm [550 ft-lb]

**Material:** Aluminum

### Features:

- Connects (2) 60mm extrusions perpendicular to each other.
- Lightweight, high-strength aluminum design



**Model Number**

**M-60B-60B-M**

**Weight**

**1.36 kg [3.00 lb]**



# BODYBUILDER™ TRANSITION BRACKETS AND BLOCKS

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



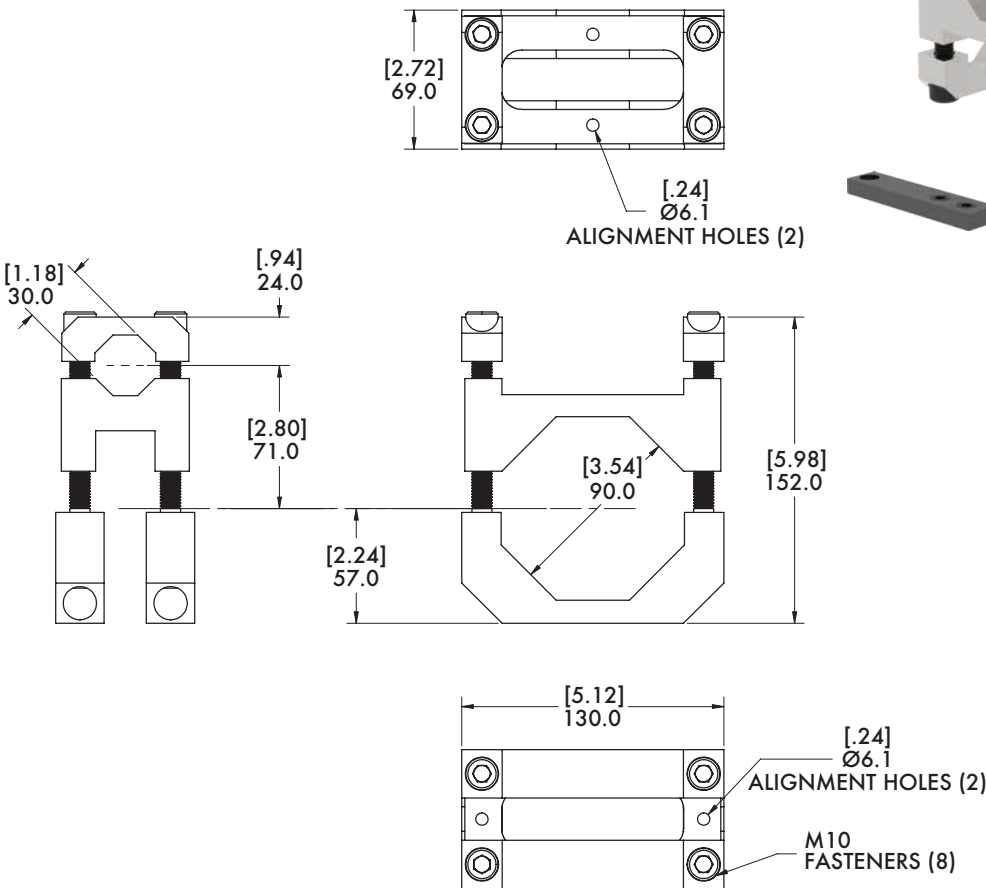
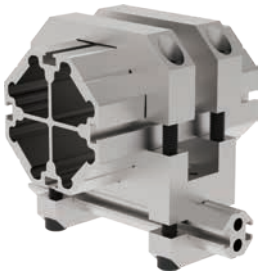
## 30B-90B 30mm to 90mm Transition Bracket Assembly

### Features:

- Connects 30 and 90mm extrusions perpendicular to each other.
- Lightweight, high-strength aluminum design.

### Specifications:

**Max. Static Clamp Load:**  
30mm: 271 Nm [200 ft-lb]  
90mm: 746 Nm [550 ft-lb]  
**Material:** Aluminum



Model Number

M-30B-90B-M

Weight

1.78 kg [3.93 lb]



## 45B-90B 45mm to 90mm Transition Bracket Assembly

### Specifications:

#### Max. Static Clamp Load:

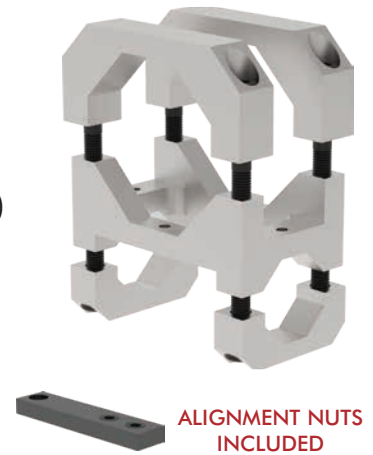
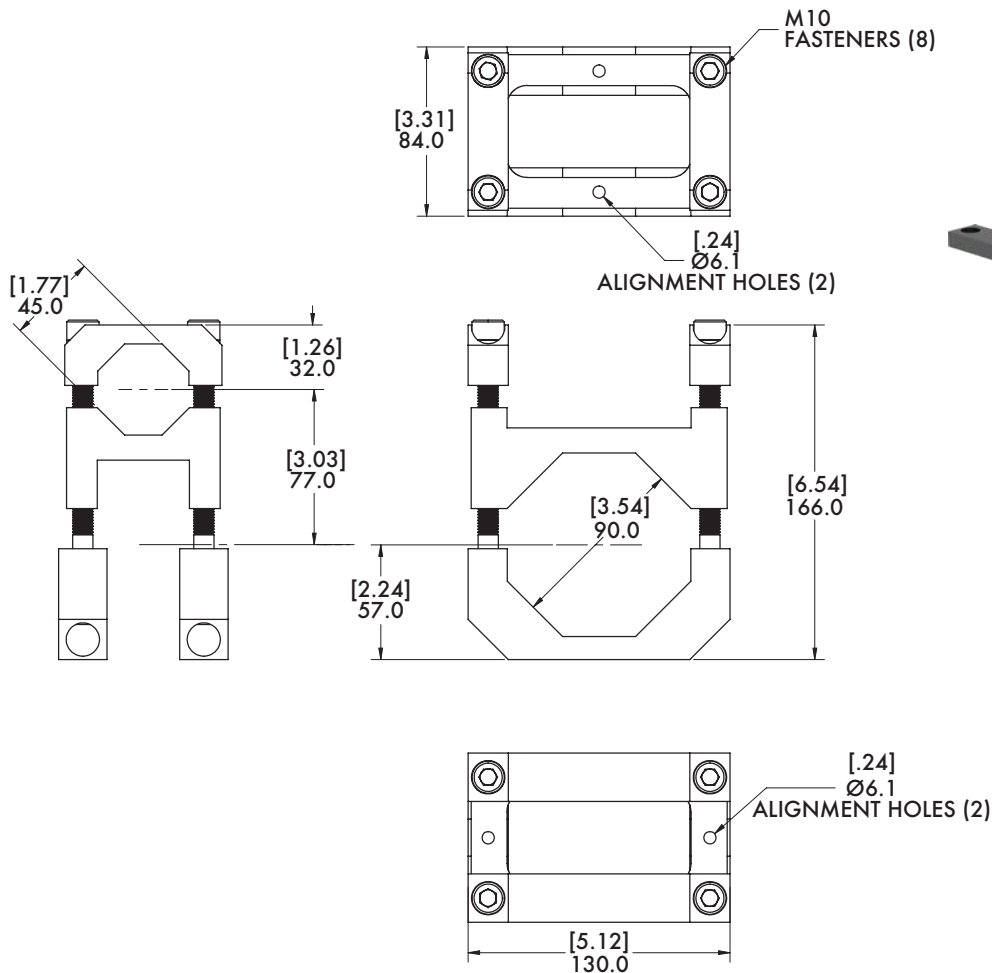
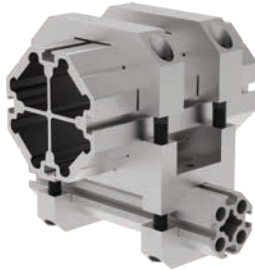
45mm: 475 Nm [350 ft-lb]

90mm: 746 Nm [550 ft-lb]

**Material:** Aluminum

### Features:

- Connects 45 and 90mm extrusions perpendicular to each other.
- Lightweight, high-strength aluminum design.



Model Number

M-45B-90B-M

Weight

1.91 kg [4.21 lb]



# BODYBUILDER™ TRANSITION BRACKETS AND BLOCKS

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



## 60B-90B 60mm to 90mm Transition Bracket Assembly

### Features:

- Connects 60mm and 90mm extrusions perpendicular to each other.
- Lightweight, high-strength aluminum design.

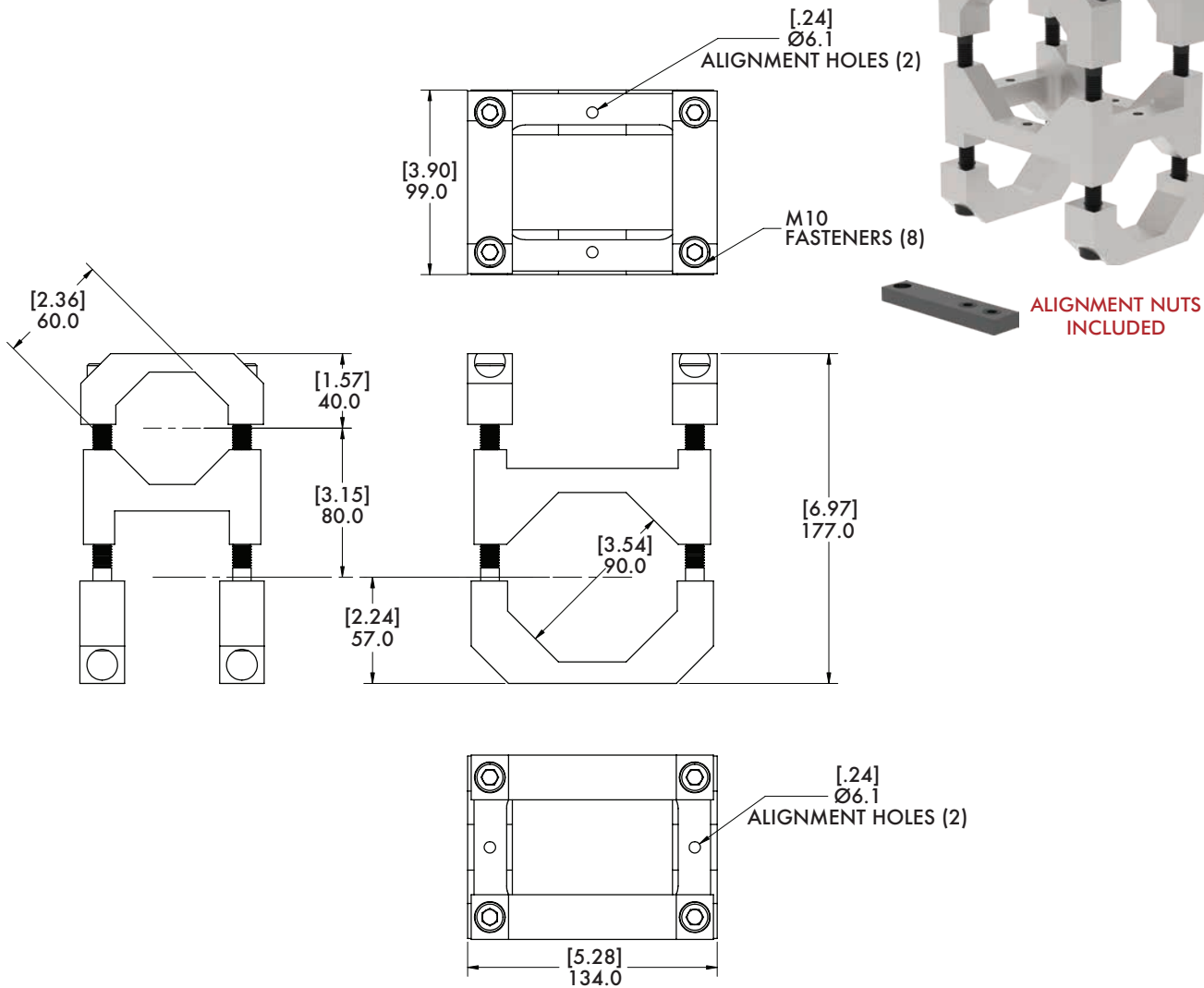
### Specifications:

#### Maximum Clamp Load:

60mm and 90mm:

746 Nm [550 ft-lb]

**Material:** Aluminum



Model Number

M-60B-90B-M

Weight

2.25 kg [4.97 lb]



## 90B-90B 90mm to 90mm Transition Bracket Assembly

### Specifications:

**Max. Static Clamp Load:**  
746 Nm [550 ft-lb]

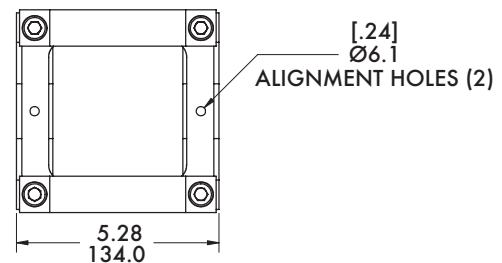
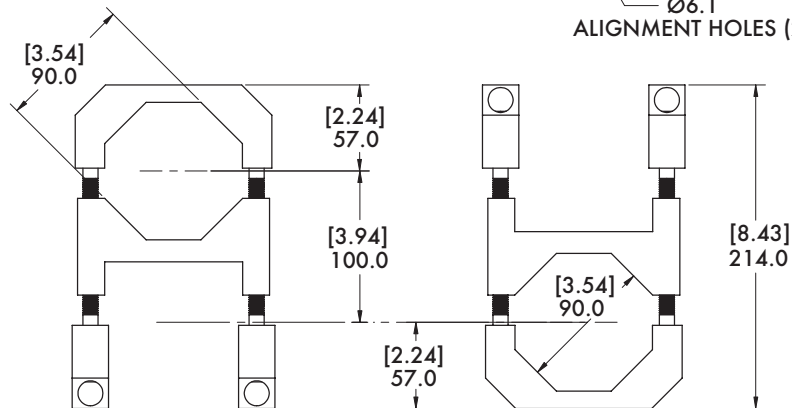
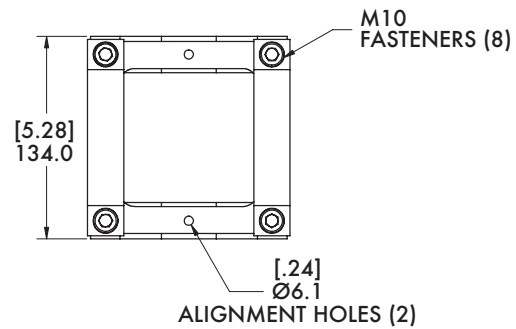
**Material:** Aluminum

### Features:

- Connects (2) 90mm extrusions perpendicular to each other.
- Lightweight, high-strength aluminum design.



ALIGNMENT NUTS  
INCLUDED



**Model Number**

**M-90B-90B-M**

**Weight**

**3.33 kg [7.34 lb]**



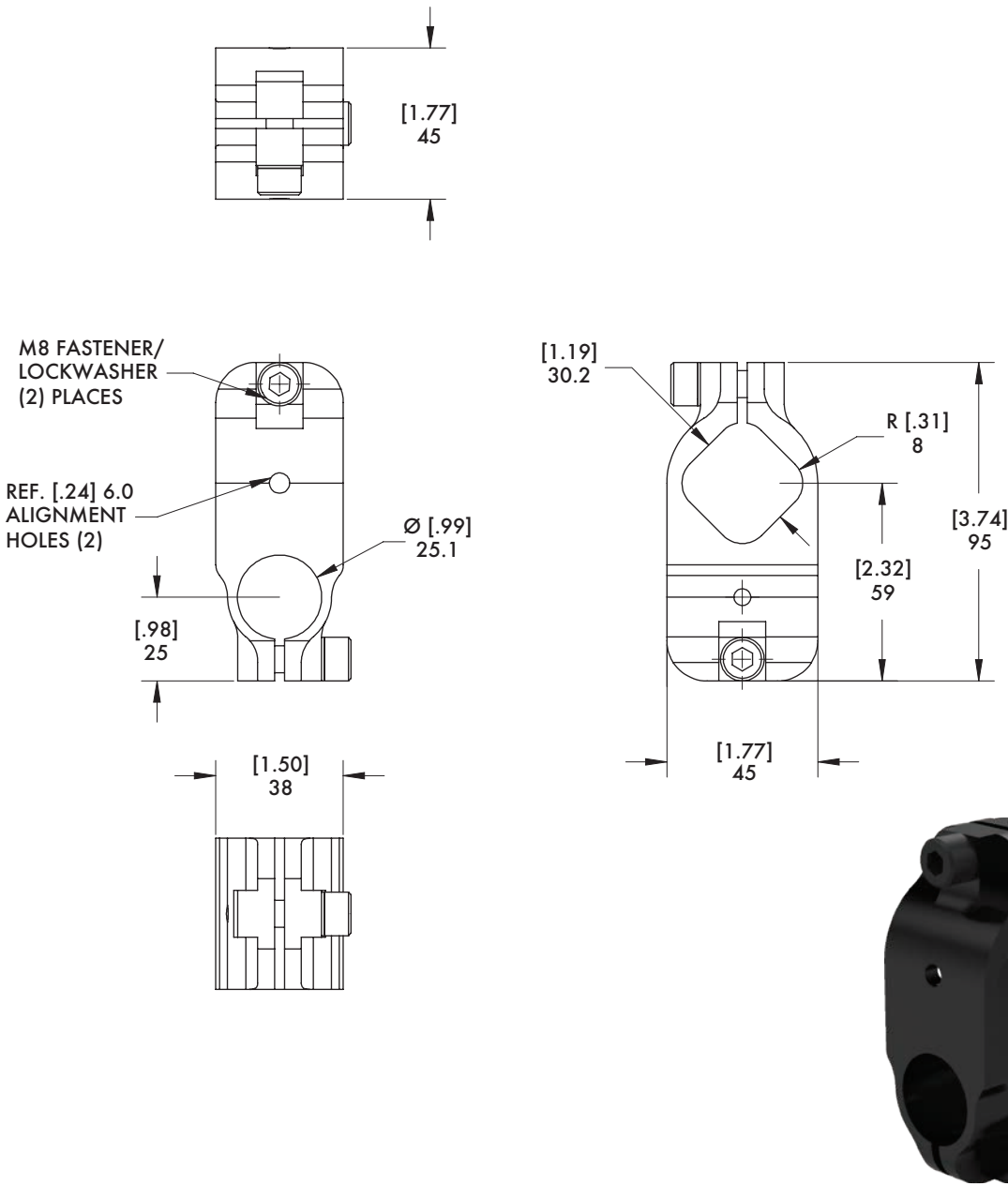
# BODYBUILDER™ SQUARE CLAMPS

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



## 30B-25M 30mm Octagon to 25mm Round

**Specifications:**  
**Max. Static Clamp Load:**  
407 Nm [300 ft-lb]  
**Material:** High Strength Aluminum



Model Number  
M-30B-25M-M

Weight  
203g [0.45lbs]



# BODYBUILDER™ SQUARE CLAMPS

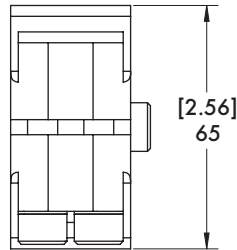
**45B-25M (-10E)** 45mm Octagon to 25mm or 1 in. Round

**Specifications:**

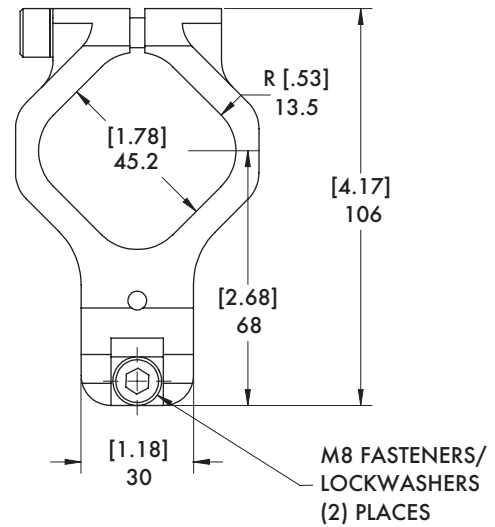
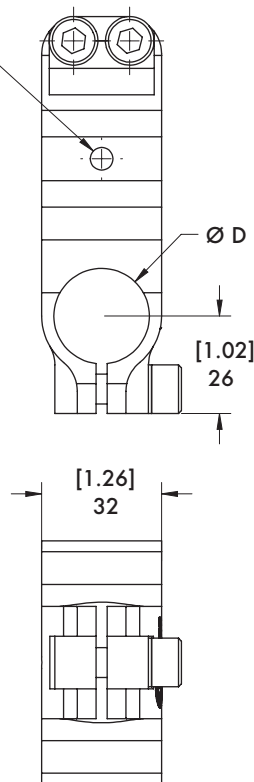
**Max. Static Clamp Load:**

407 Nm [300 ft-lb]

**Material:** High Strength Aluminum



REF. [.24] 6.0  
ALIGNMENT  
HOLES (2)



Model Number	Weight	ØD
M-45B-25M-M	239g [0.53lbs]	25mm
M-45B-10E-M	237g [0.52lbs]	1 in.

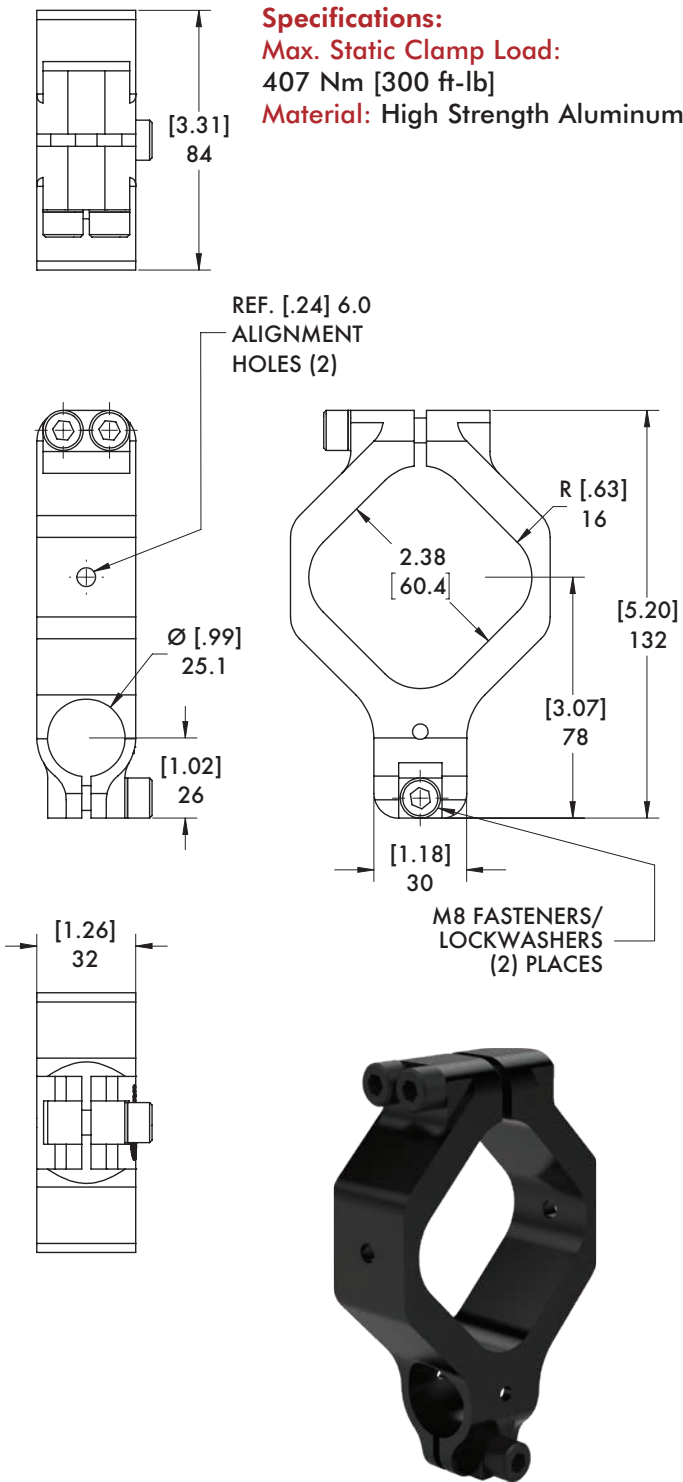


# BODYBUILDER™ SQUARE CLAMPS

BodyBuilder™ Octagonal Tooling | Octagon to Round Transition Block Assembly

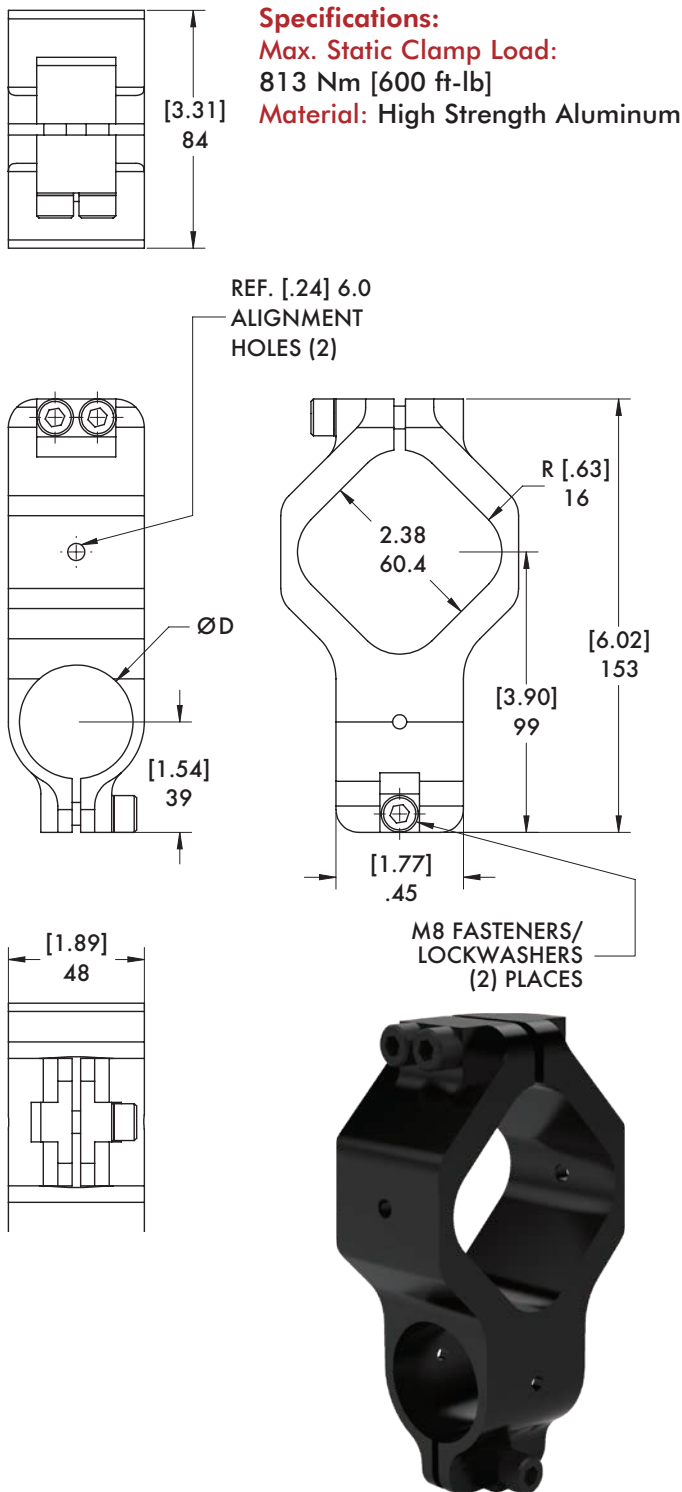


## 60B-25M 60mm Octagon to 25mm Round



Model Number	Weight
M-60B-25M-M	356g [0.78lbs]

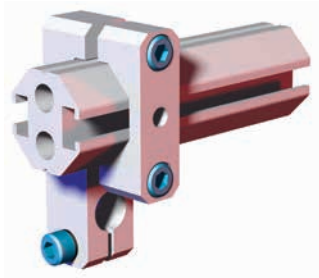
## 60B-40M (-15E) 60mm Octagon to 40mm or 1.5 in. Round



Model Number	Weight	ØD
M-60B-40M-M	520g [1.15lbs]	40mm
M-60B-15E-M	535g [1.18lbs]	1.5 in.



## CLM-30B-50 30mm Octagon to Ø50"(in) Round Transition Bracket Assembly



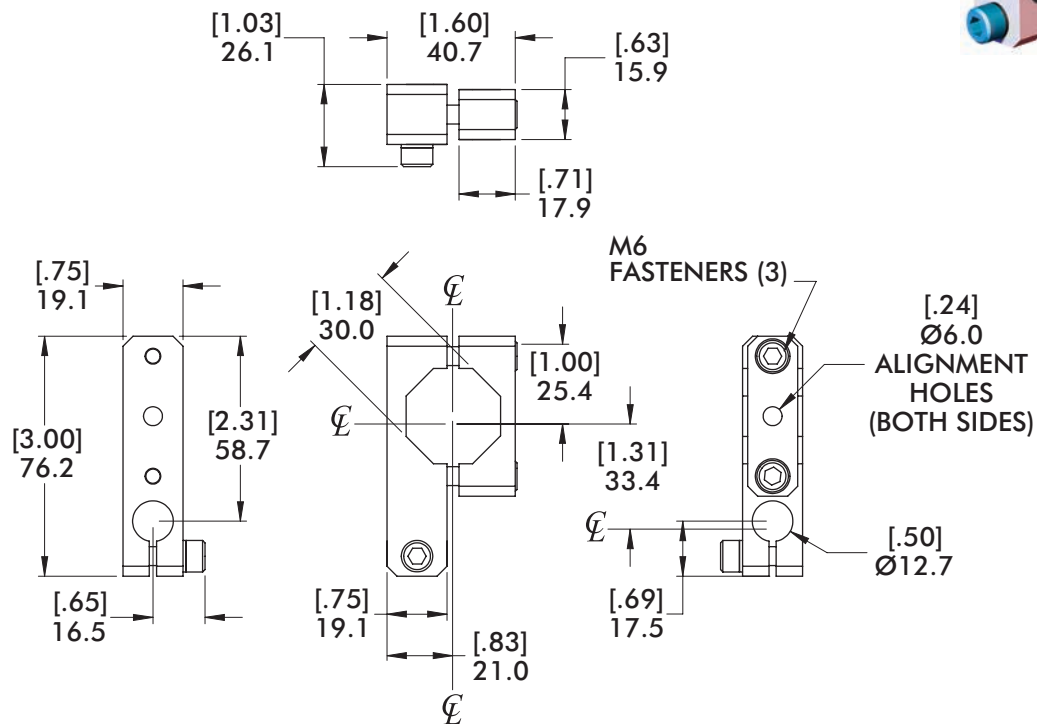
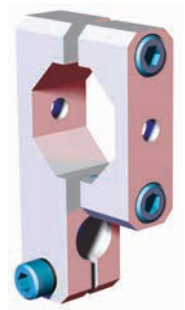
### Features:

- Connects BodyBuilder™ extrusion and round tubing perpendicular to each other.
- Lightweight, high-strength aluminum design.

### Specifications:

**Max. Static Clamp Load:**  
102 Nm [75 ft-lb]

**Material:** Aluminum



Model Number	Weight
CPI-CLM-30B-50-TR	.092 kg [.20 lb]



# BODYBUILDER™ T-CLAMPS

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



## TCAM-30B-30B 30mm to 30mm Octagon (Micro) T-Clamp Bracket Assembly

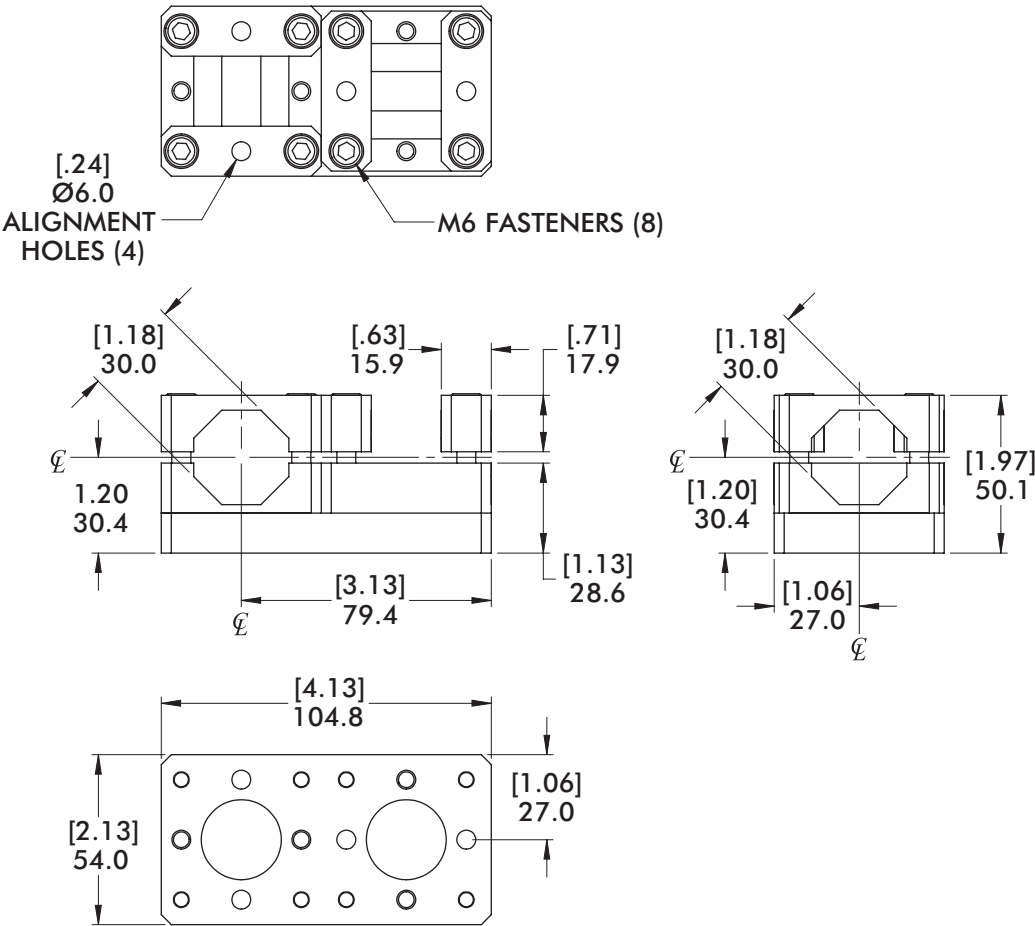
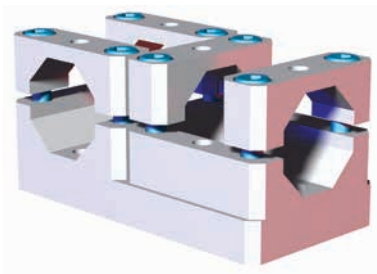
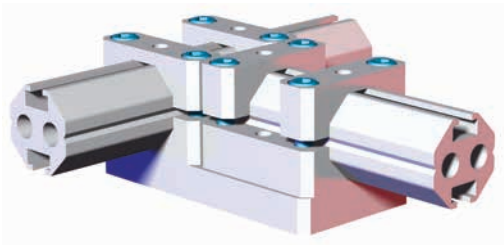
**Specifications:**

**Max. Static Clamp Load:**  
102 Nm [75 ft-lb]

**Material:** Aluminum

**Features:**

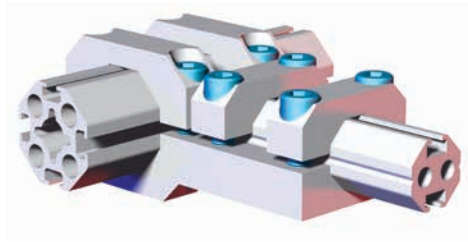
- Connects (2) 30mm octagon extrusion perpendicular on the same plane.
- Lightweight, high-strength aluminum design.



Model Number	Weight
CPI-TCAM-30B-30B-M	.45 kg [.99 lb]



## TCA-30B-45B 30mm to 45mm Octagon T-Clamp Bracket Assembly

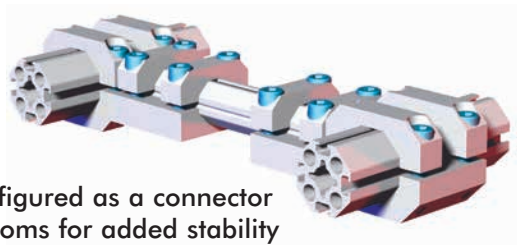


### Features:

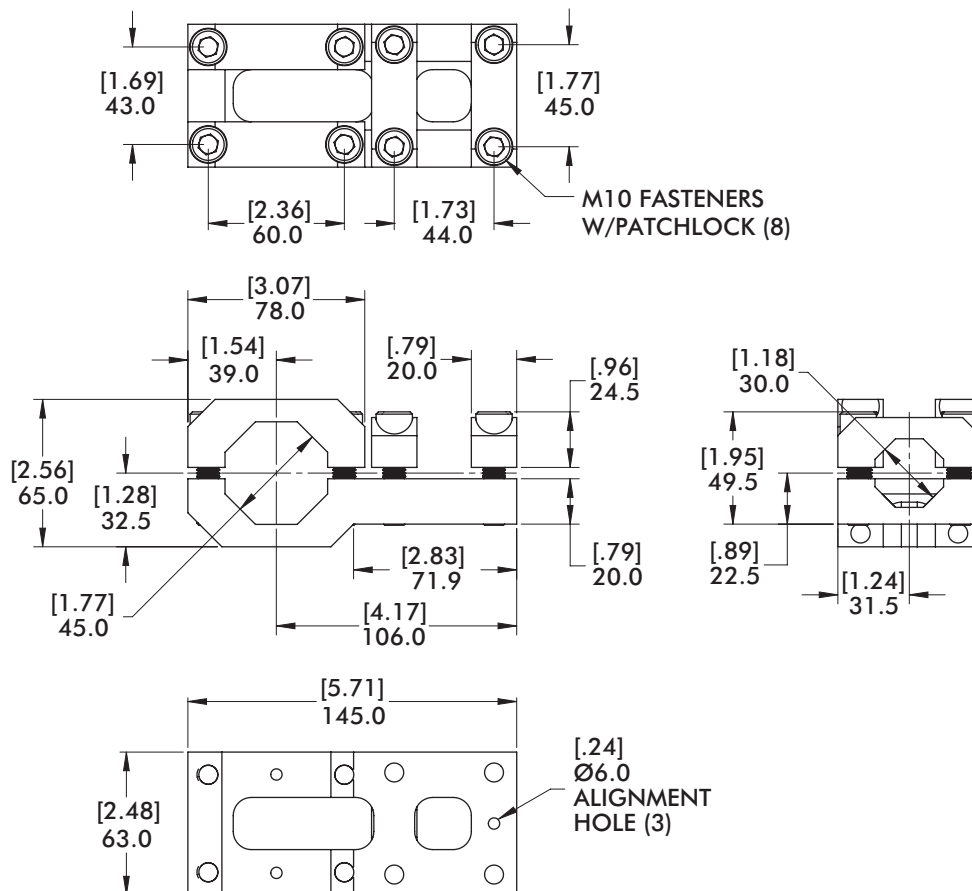
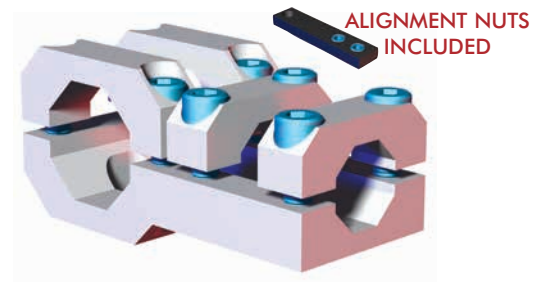
- Connects 30mm and 45mm octagon extrusion perpendicular on the same plane.
- Lightweight, high-strength aluminum design.

### Specifications:

**Max. Static Clamp Load:**  
 45mm: 475 Nm [350 ft-lb]  
 30mm: 271 Nm [200 ft-lb]  
**Material:** Aluminum



Can be configured as a connector between booms for added stability



Model Number	Weight
CPI-TCA-30B-45B	.80 kg [1.76 lb]



# BODYBUILDER™ T-CLAMPS

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



## TCA-30B-60B 30mm to 60mm Octagon T-Clamp Bracket Assembly

### Specifications:

#### Max. Static Clamp Load:

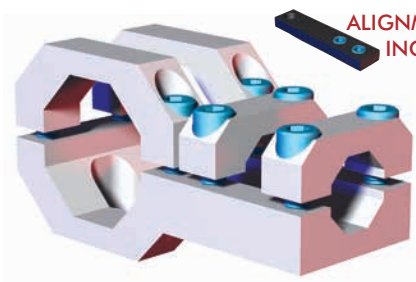
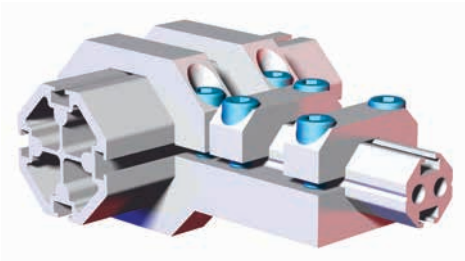
60mm: 746 Nm [550 ft-lb]

30mm: 271 Nm [200 ft-lb]

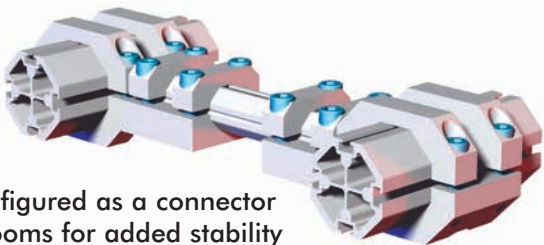
Material: Aluminum

### Features:

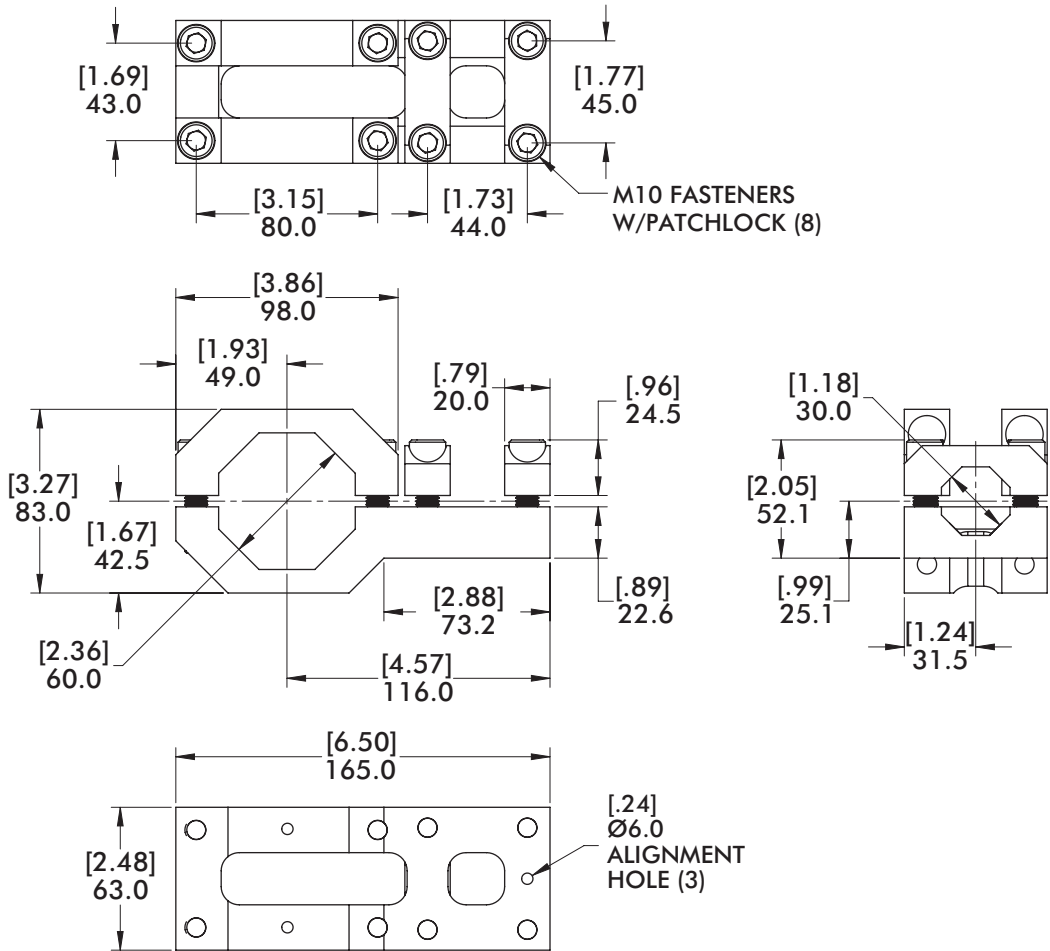
- Connects 30mm and 60mm octagon extrusion perpendicular on the same plane.
- Lightweight, high-strength aluminum design.



ALIGNMENT NUTS INCLUDED



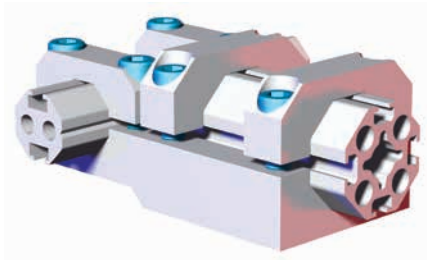
Can be configured as a connector between booms for added stability



Model Number	Weight
CPI-TCA-30B-60B	1.23 kg [2.71 lb]



## TCA-45B-30B 45mm to 30mm Octagon T-Clamp Bracket Assembly



### Features:

- Connects 45mm and 30mm octagon extrusion perpendicular on the same plane.
- Lightweight, high-strength aluminum design.

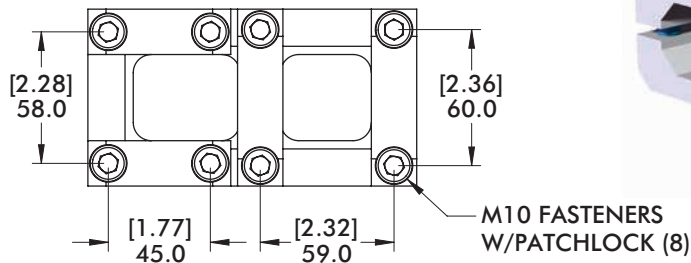
### Specifications:

#### Max. Static Clamp Load:

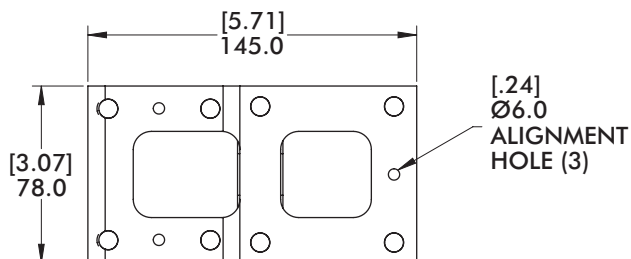
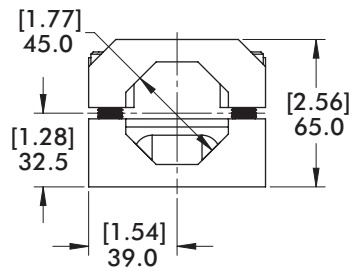
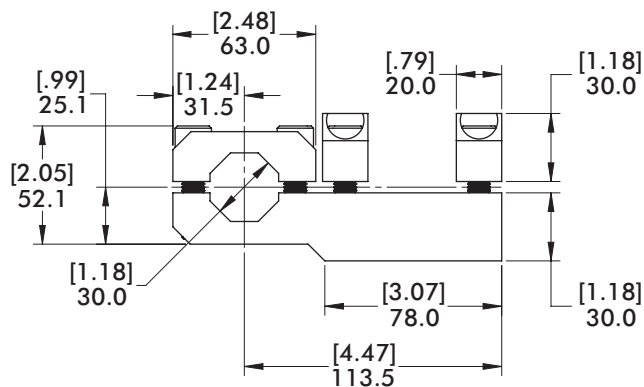
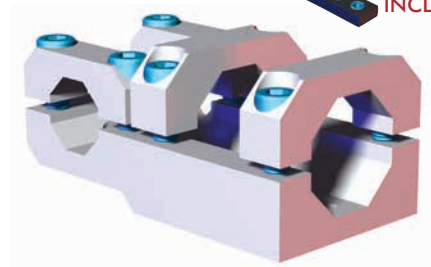
45mm: 475 Nm [350 ft-lb]

30mm: 271 Nm [200 ft-lb]

**Material:** Aluminum



ALIGNMENT NUTS INCLUDED



Model Number	Weight
CPI-TCA-45B-30B	.91 kg [2.02 lb]



# BODYBUILDER™ T-CLAMPS

## BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



## TCA-45B-45B 45mm to 45mm Octagon T-Clamp Bracket Assembly

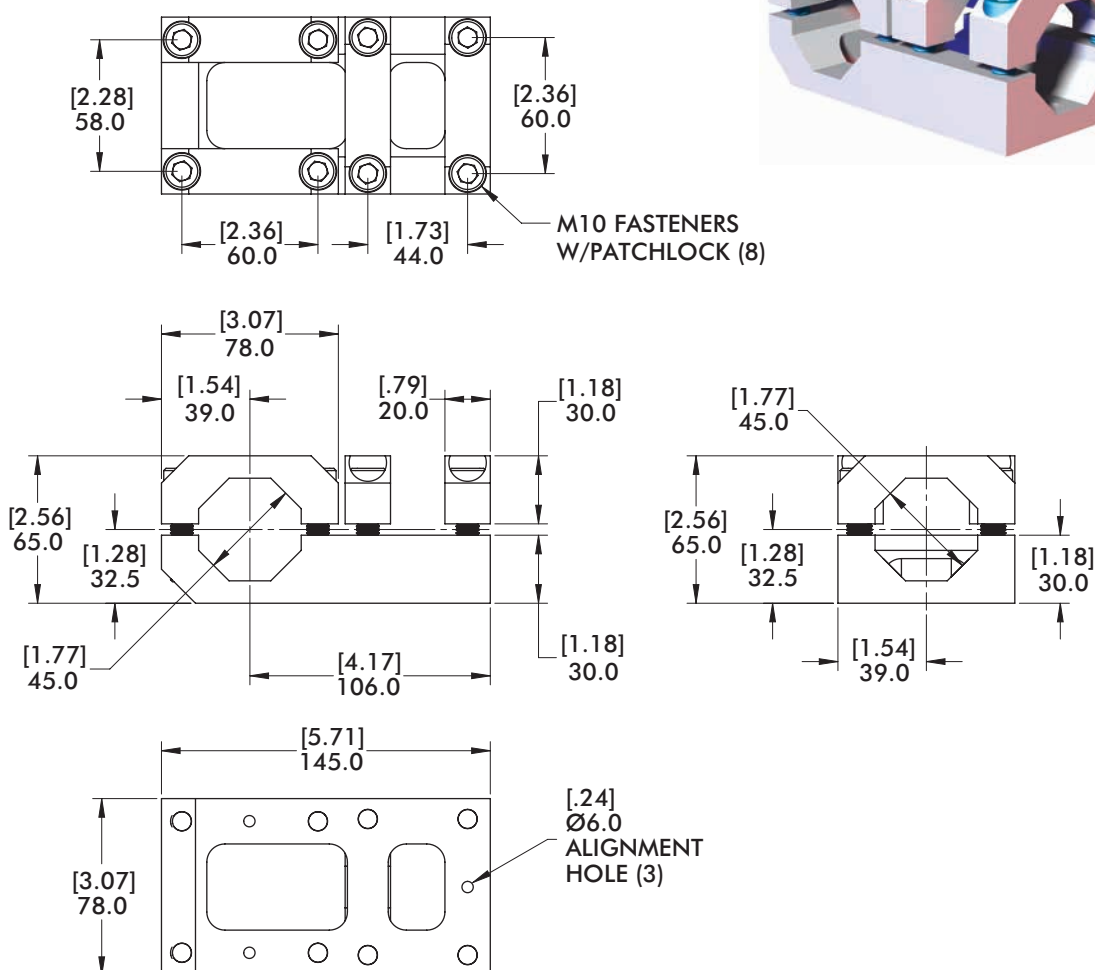
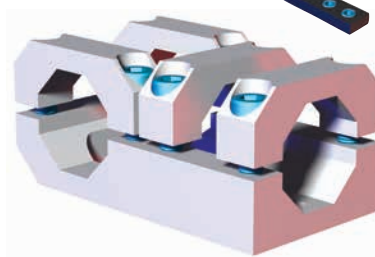
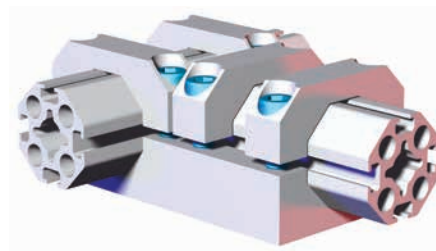
### Specifications:

**Max. Static Clamp Load:**  
45mm: 475 Nm [350 ft-lb]

**Material:** Aluminum

## Features:

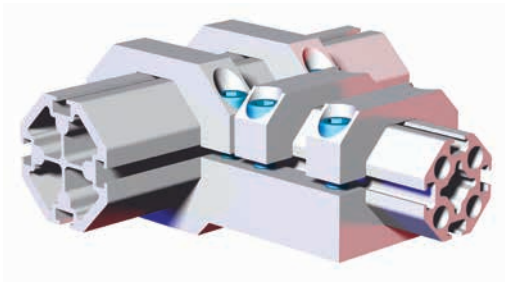
- Connects (2) 45mm octagon extrusion perpendicular on the same plane.
- Lightweight, high-strength aluminum design.



Model Number	Weight
CPI-TCA-45B-45B	.95 kg [2.09 lb]



## TCA-45B-60B 45mm to 60mm Octagon T-Clamp Bracket Assembly



### Features:

- Connects 45mm and 60mm octagon extrusion perpendicular on the same plane.
- Lightweight, high-strength aluminum design.

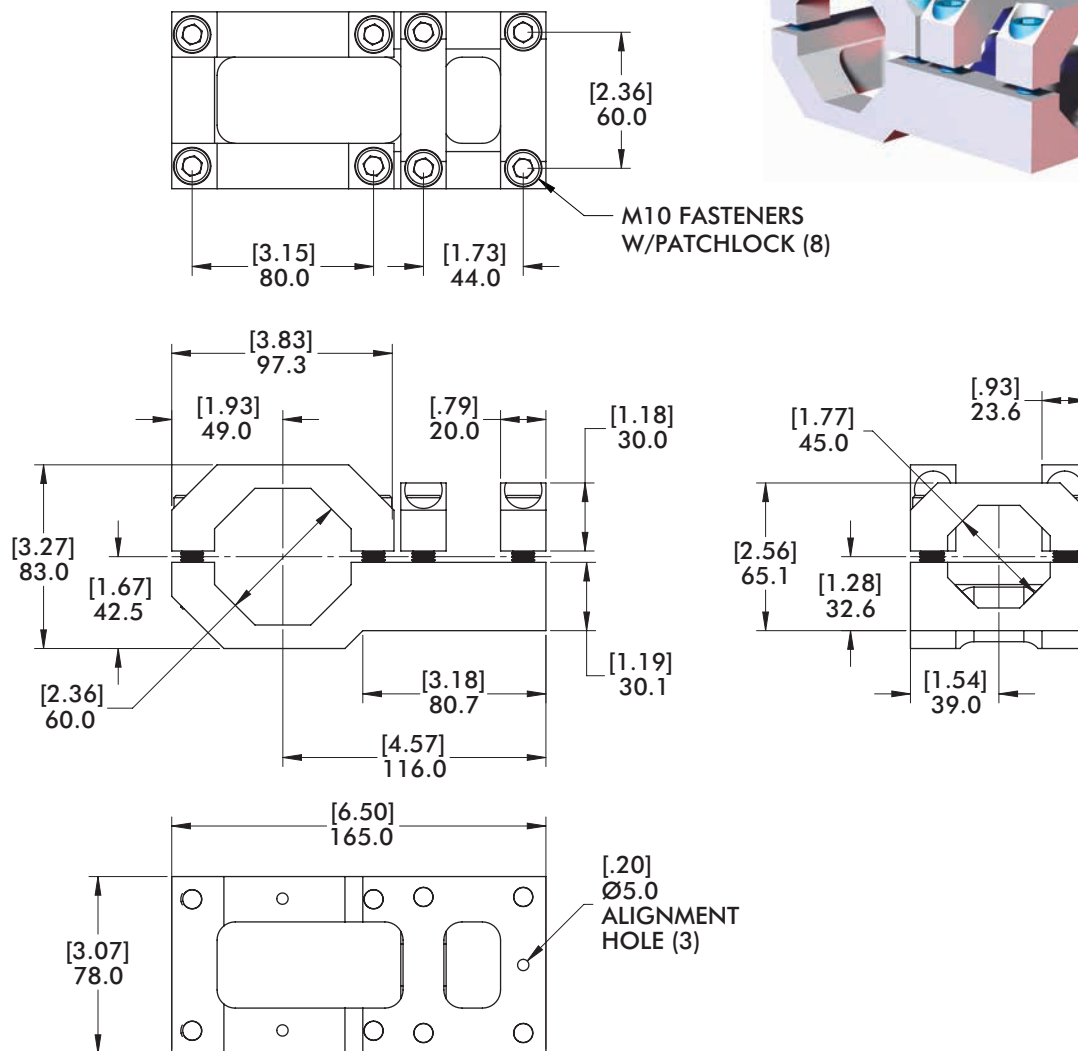
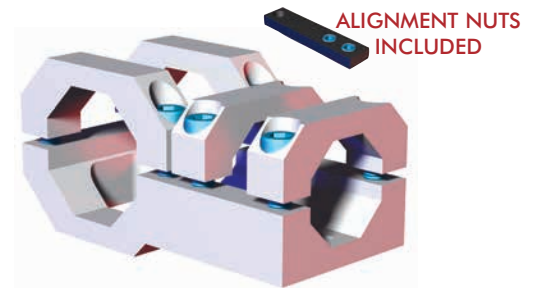
### Specifications:

**Max. Static Clamp Load:**

60mm: 746 Nm [550 ft-lb]

45mm: 475 Nm [350 ft-lb]

**Material:** Aluminum



Model Number	Weight
CPI-TCA-45B-60B	1.21 kg [2.67lb]



# BODYBUILDER™ T-CLAMPS

## BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



### TCA-45B-25M 45mm Octagon to 25mm Round T-Clamp Bracket Assembly

### Specifications:

**Max. Static Clamp Load:**

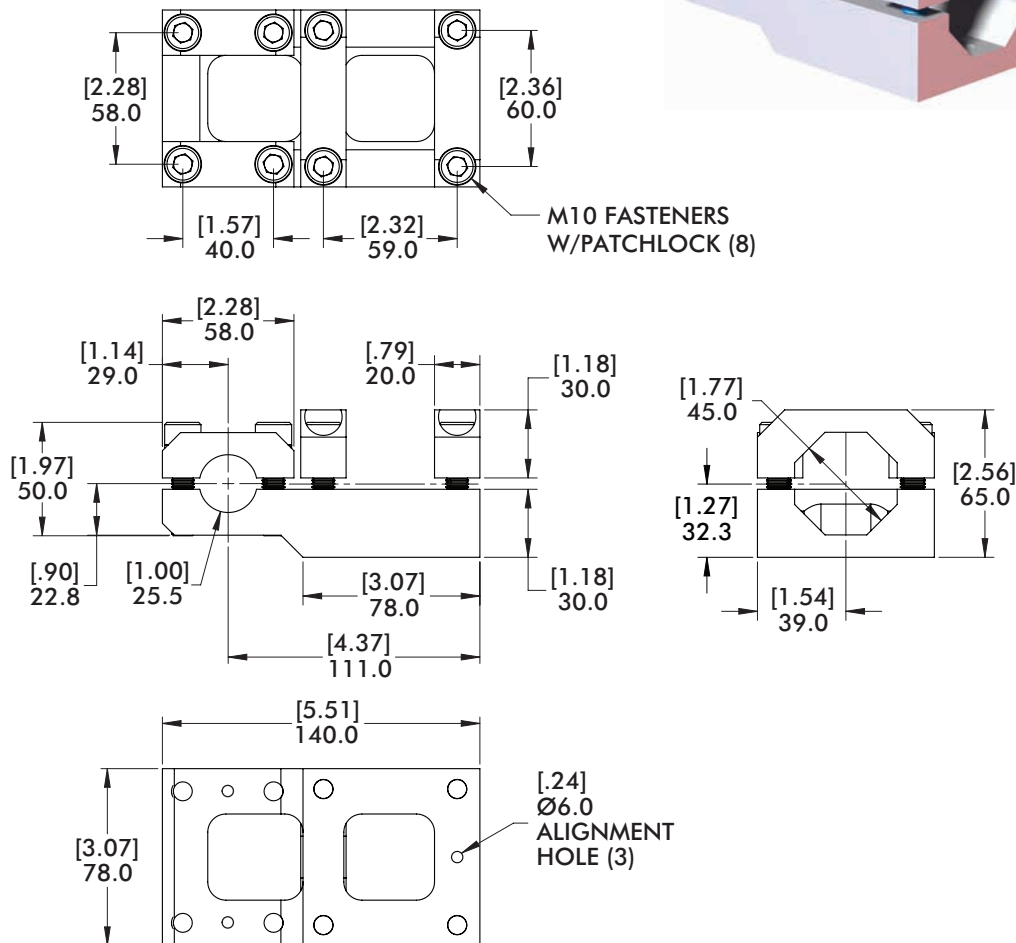
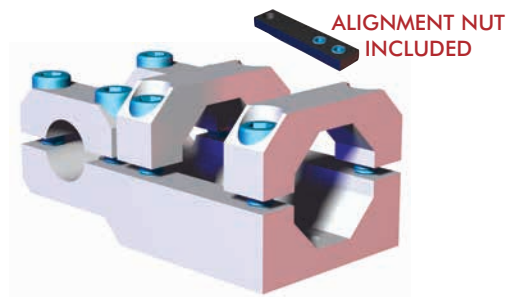
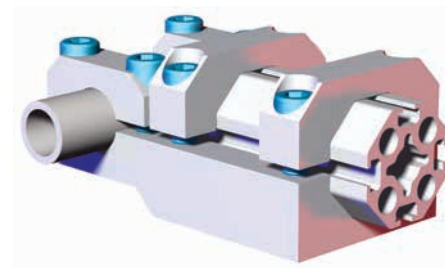
45mm: 475 Nm [350 ft-lb]

25mm: 271 Nm [200 ft-lb]

**Material:** Aluminum

## Features:

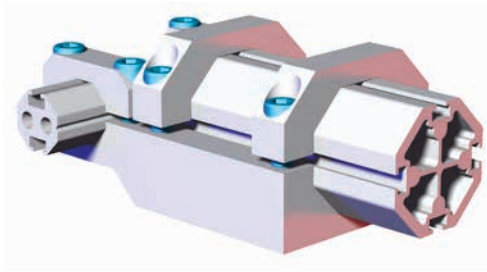
- Connects 45mm octagon and 25mm round perpendicular on the same plane.
- Lightweight, high-strength aluminum design.



Model Number	Weight
CPI-TCA-45B-25M	.89 kg [1.97lb]



## TCA-60B-30B 60mm to 30mm octagon T-Clamp Bracket Assembly



### Features:

- Connects 60mm and 30mm octagon extrusion perpendicular on the same plane.
- Lightweight, high-strength aluminum design.

### Specifications:

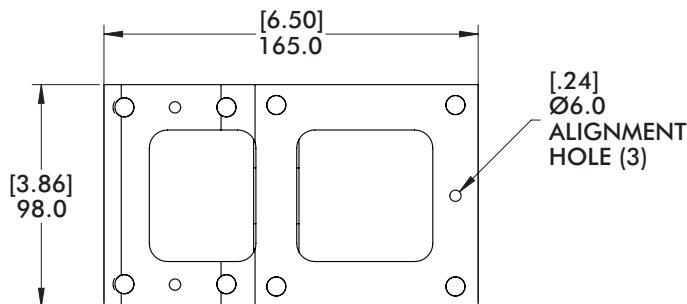
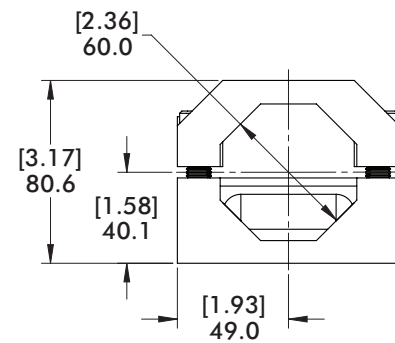
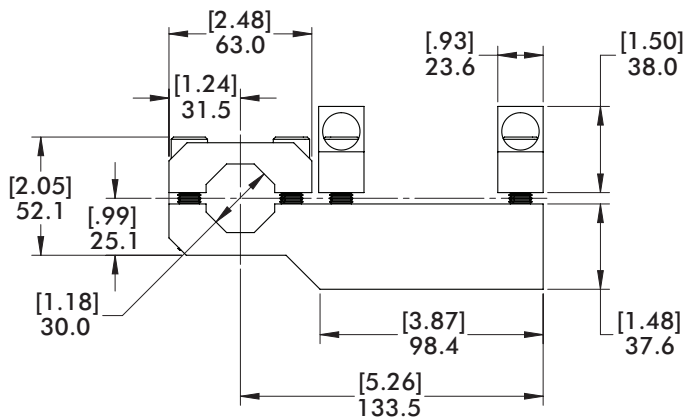
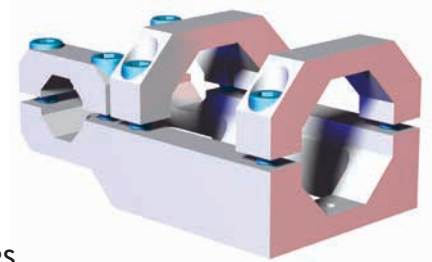
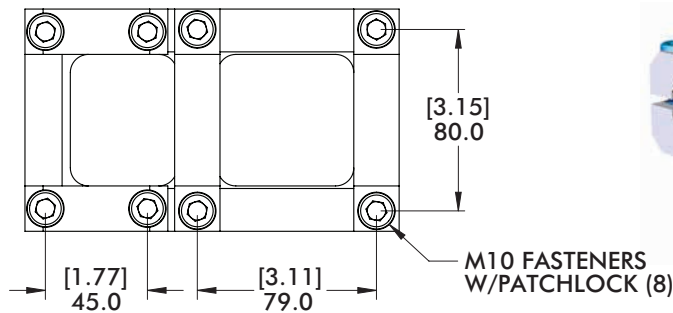
#### Max. Static Clamp Load:

60mm: 746 Nm [550 ft-lb]

30mm: 271 Nm [200 ft-lb]

**Material:** Aluminum

**ALIGNMENT NUTS INCLUDED**



Model Number	Weight
CPI-TCA-60B-30B	1.32 kg [2.91 lb]



# BODYBUILDER™ T-CLAMPS

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



## TCA-60B-45B 60mm to 45mm octagon T-Clamp Bracket Assembly

### Specifications:

#### Max. Static Clamp Load:

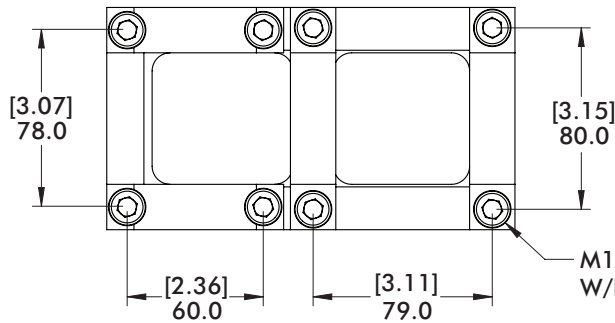
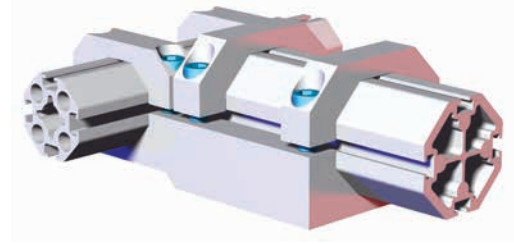
60mm: 746 Nm [550 ft-lb]

45mm: 475 Nm [350 ft-lb]

**Material:** Aluminum

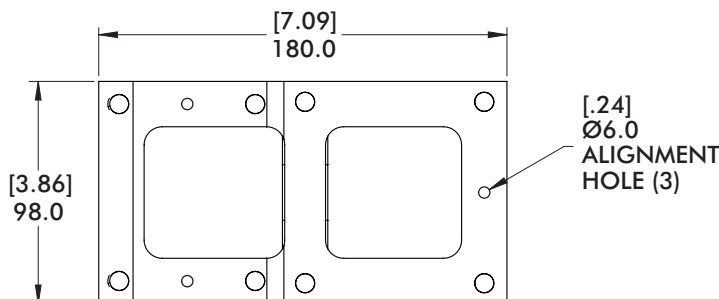
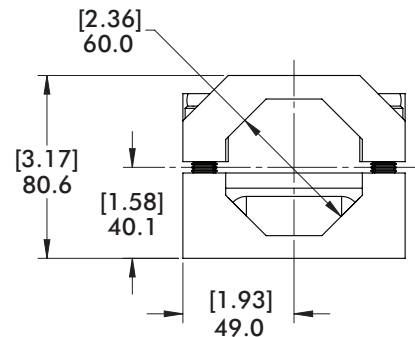
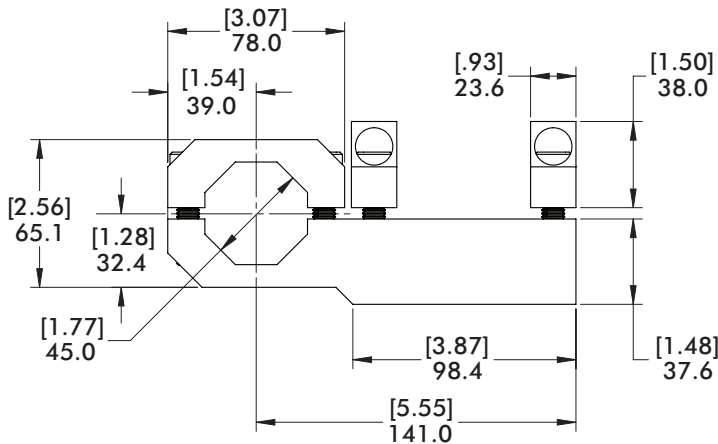
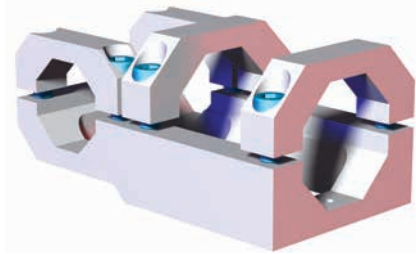
### Features:

- Connects 60mm and 45mm octagon extrusion perpendicular on the same plane.
- Lightweight, high-strength aluminum design.



M10 FASTENERS  
W/PATCHLOCK (8)

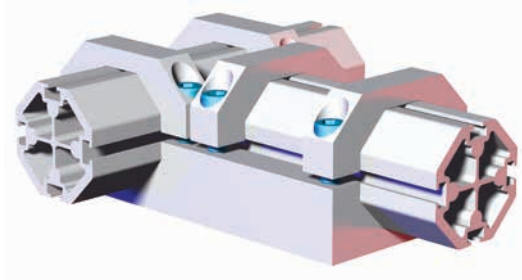
ALIGNMENT NUTS  
INCLUDED



Model Number	Weight
CPI-TCA-60B-45B	1.45 kg [3.20 lb]



## TCA-60B-60B 60mm to 60mm octagon T-Clamp Bracket Assembly



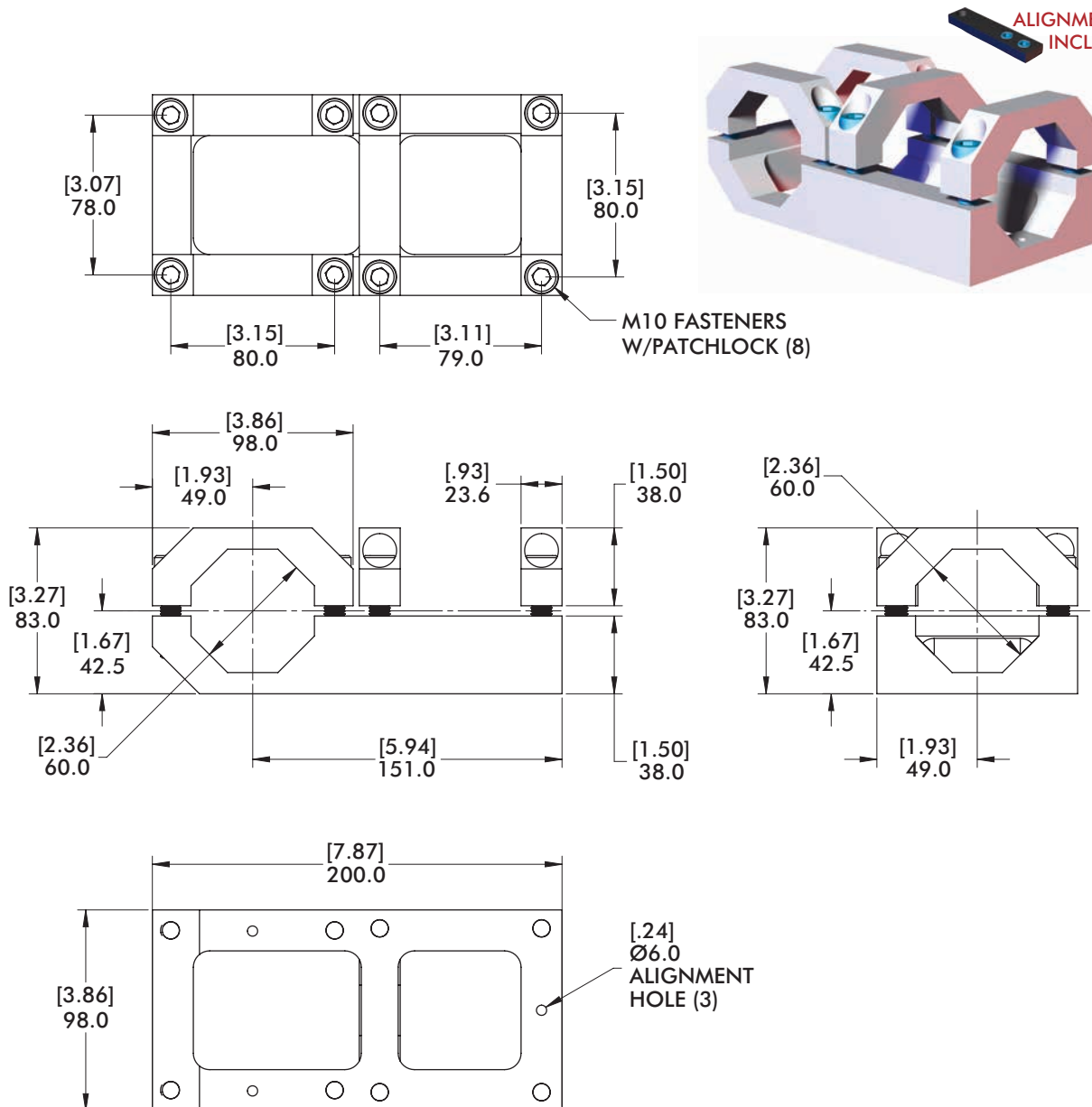
### Features:

- Connects (2) 60mm octagon extrusions perpendicular on the same plane.
- Lightweight, high-strength aluminum design.

### Specifications:

**Max. Static Clamp Load:**  
60mm: 746 Nm [550 ft-lb]

**Material:** Aluminum



Model Number	Weight
CPI-TCA-60B-60B	1.77 kg [3.90 lb]



# BODYBUILDER™ T-CLAMPS

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



## TCA-60B-25M 60mm Octagon to 25mm Round T-Clamp Bracket Assembly

### Specifications:

#### Max. Static Clamp Load:

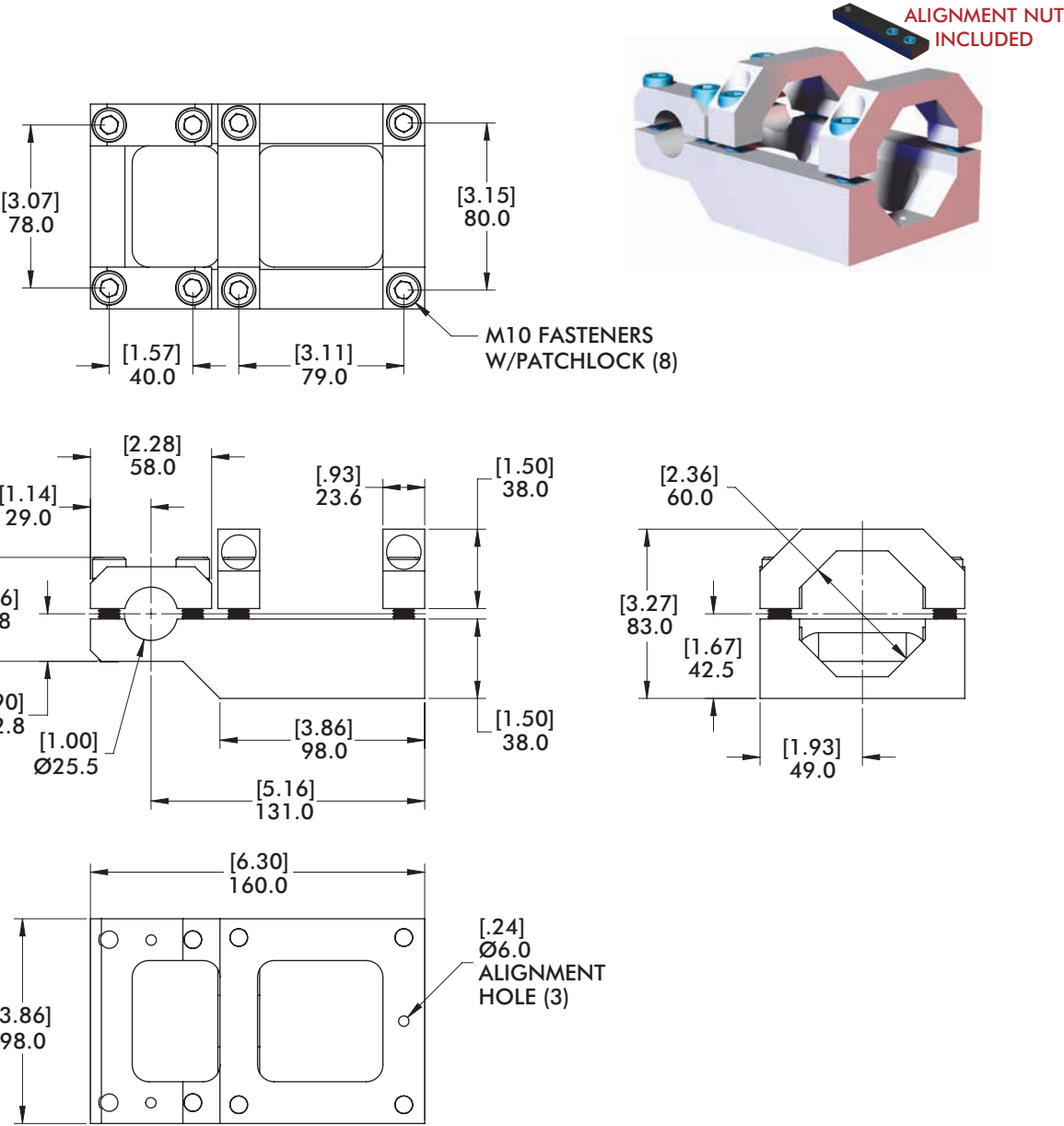
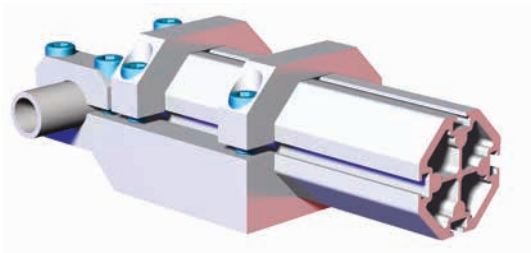
60mm: 746 Nm [550 ft-lb]

30mm: 271 Nm [200 ft-lb]

Material: Aluminum

### Features:

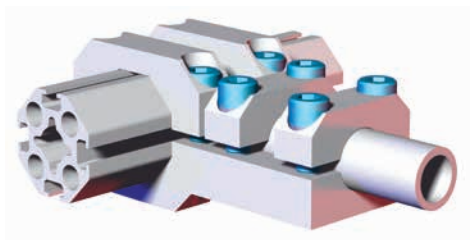
- Connects 60mm octagon and 25mm round perpendicular on the same plane.
- Lightweight, high-strength aluminum design.



Model Number	Weight
CPI-TCA-60B-25M	1.25 kg [2.76 lb]



## TCA-25M-45B 25mm Round to 45mm Octagon T-Clamp Brackets Assembly



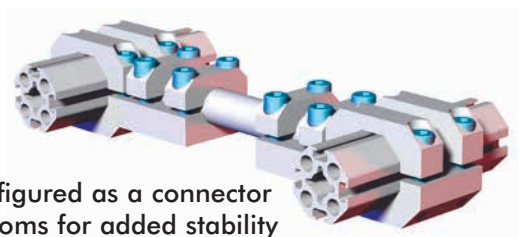
### Features:

- Connects 25mm round and 45mm octagon perpendicular on the same plane.
- Lightweight, high-strength aluminum design.

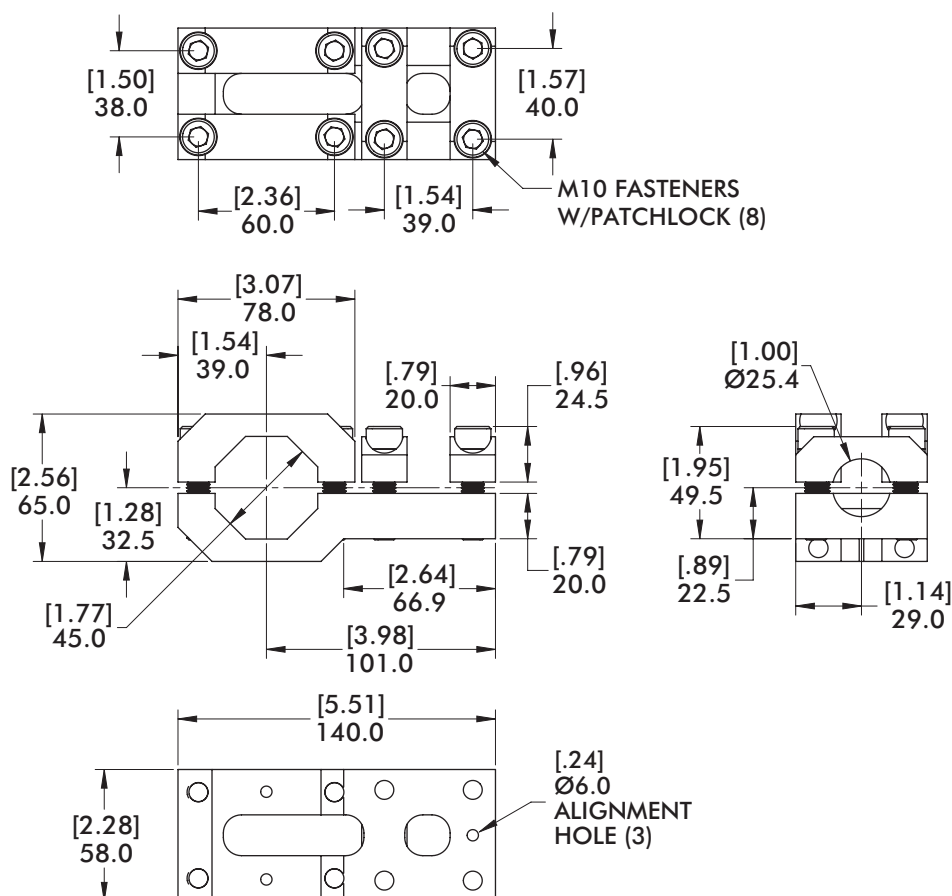
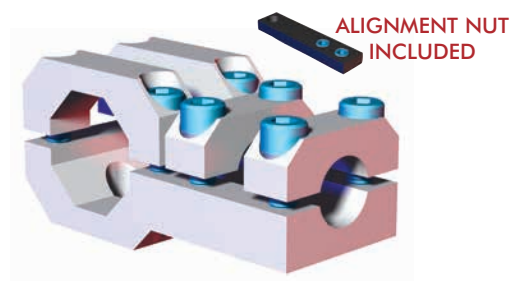
### Specifications:

**Max. Static Clamp Load:**  
45mm: 475 Nm [350 ft-lb]  
25mm: 271 Nm [200 ft-lb]

**Material:** Aluminum



Can be configured as a connector between booms for added stability



Model Number	Weight
CPI-TCA-25M-45B	.57 kg [1.26 lb]



# BODYBUILDER™ T-CLAMPS

## BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



## TCA-25M-60B 25mm Round to 60mm Octagon T-Clamp Bracket Assembly

### Specifications:

**Max. Static Clamp Load:**

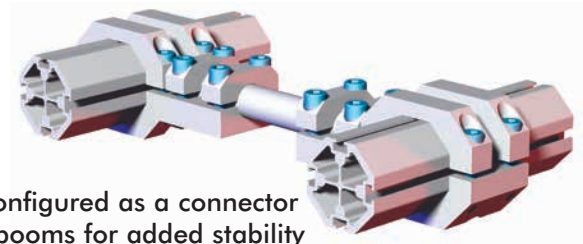
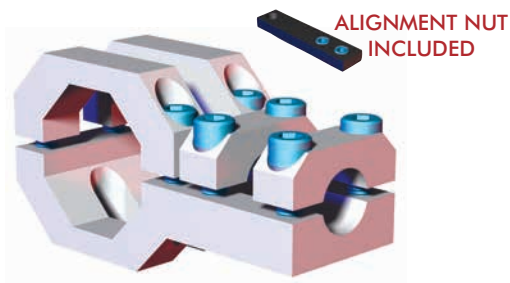
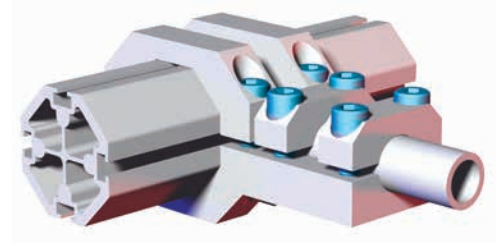
60mm: 746 Nm [550 ft-lb]

25mm: 271 Nm [200 ft-lb]

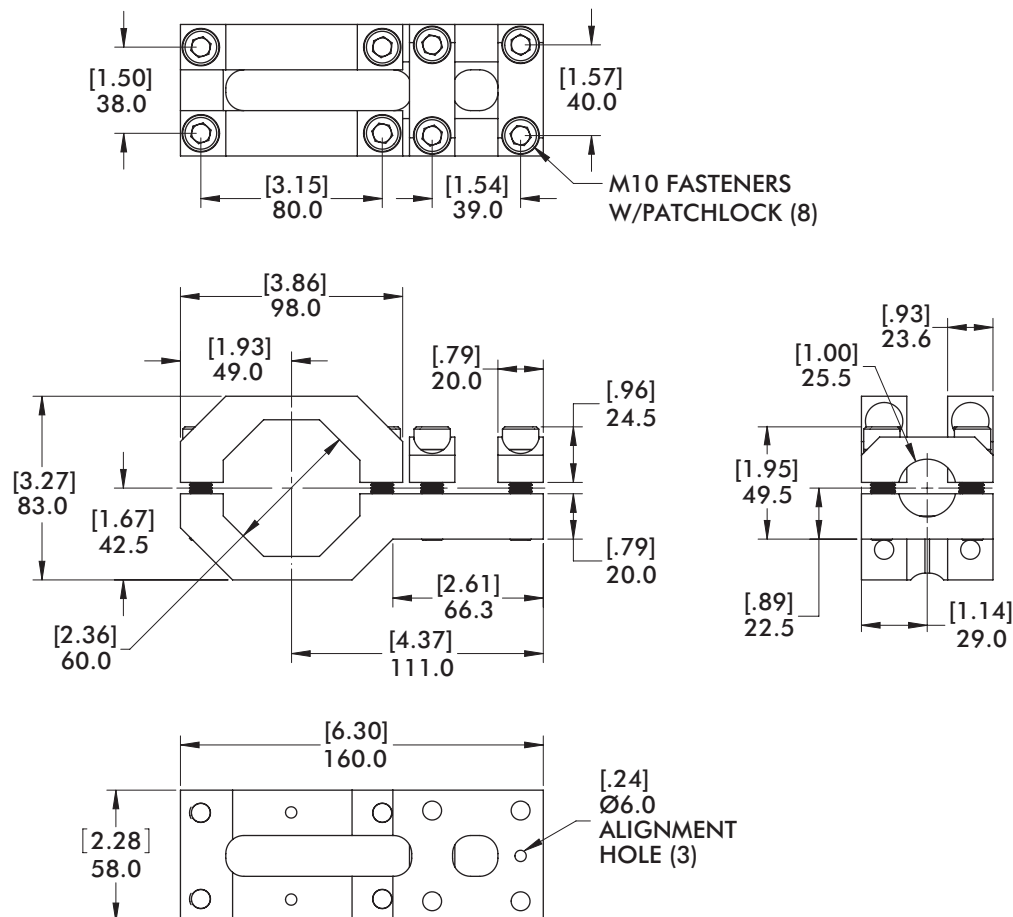
**Material:** Aluminum

### Features:

- Connects 25mm round and 60mm octagon perpendicular on the same plane.
- Lightweight, high-strength aluminum design.



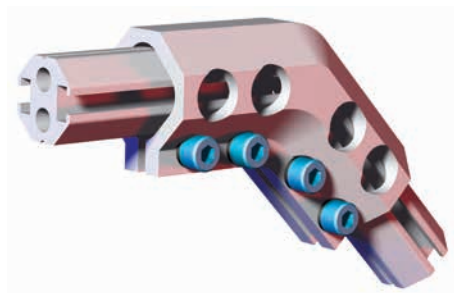
Can be configured as a connector  
between booms for added stability



Model Number	Weight
CPI-TCA-25M-60B	.85 kg [1.87 lb]



### 45° Angular Boom Clamp Brackets



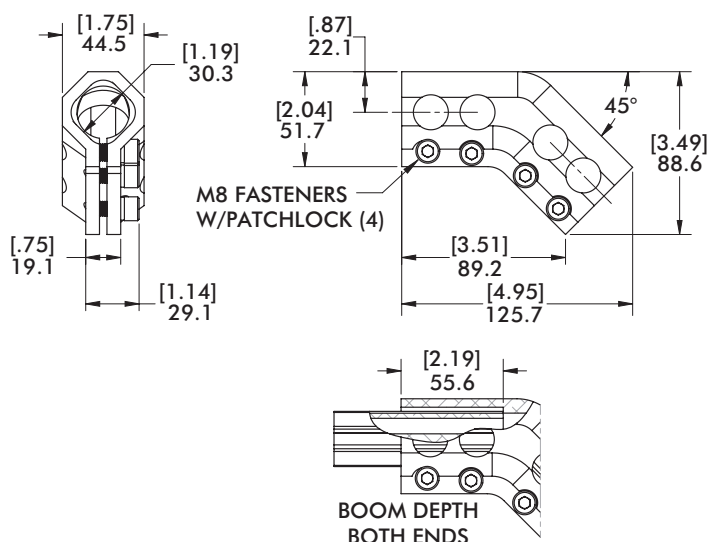
#### Features:

- Mounts (2) Bodybuilder extrusion booms inline at a 45° angle.

#### Specifications:

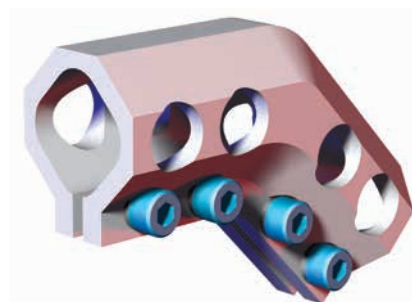
**Material:** Aluminum

### DC-3030B-45 30mm to 30mm 45° External Boom Clamp Brackets



#### Specifications:

**Max. Static Clamp Load:**  
271Nm [200 ft-lb]



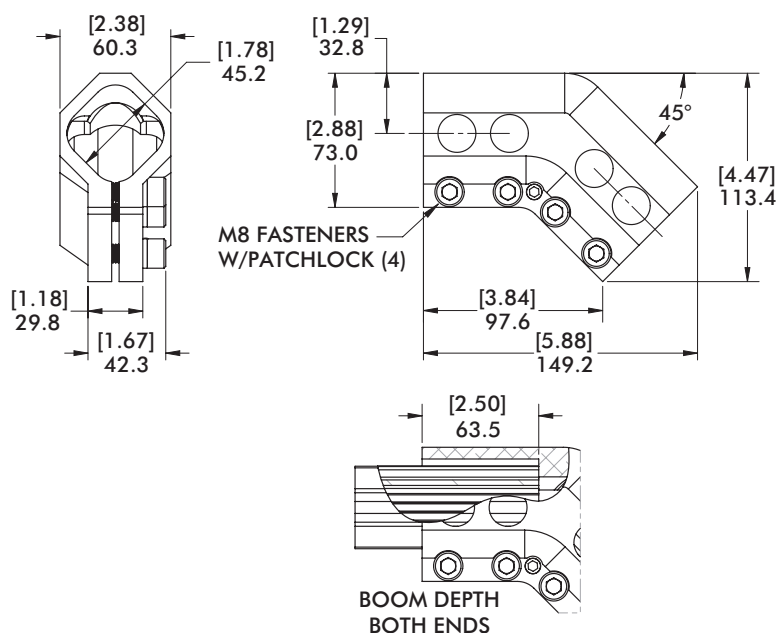
**Model Number**

CPI-DC-3030B-45

**Weight**

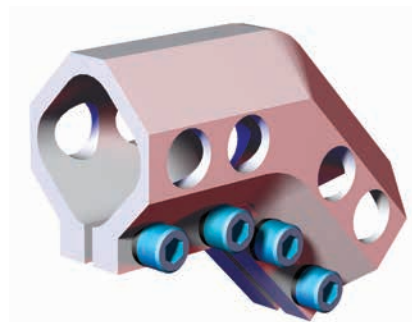
.30 kg [.66 lb]

### DC-4545B-45 45mm to 45mm 45° Angular Boom Clamp Brackets



#### Specifications:

**Max. Static Clamp Load:**  
475 Nm [350 ft-lb]



**Model Number**

CPI-DC-4545B-45

**Weight**

.64 kg [1.4 lb]



# BODYBUILDER™ ELBOWS

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



## DC-6060B-45 60mm to 60mm 45° Angular Boom Clamp Brackets

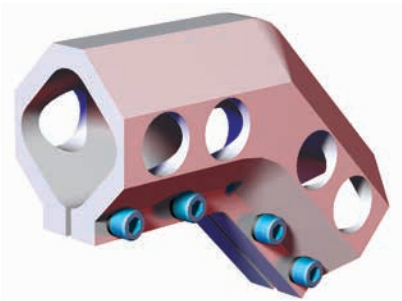
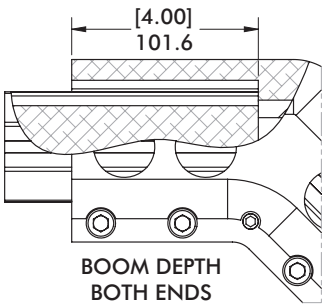
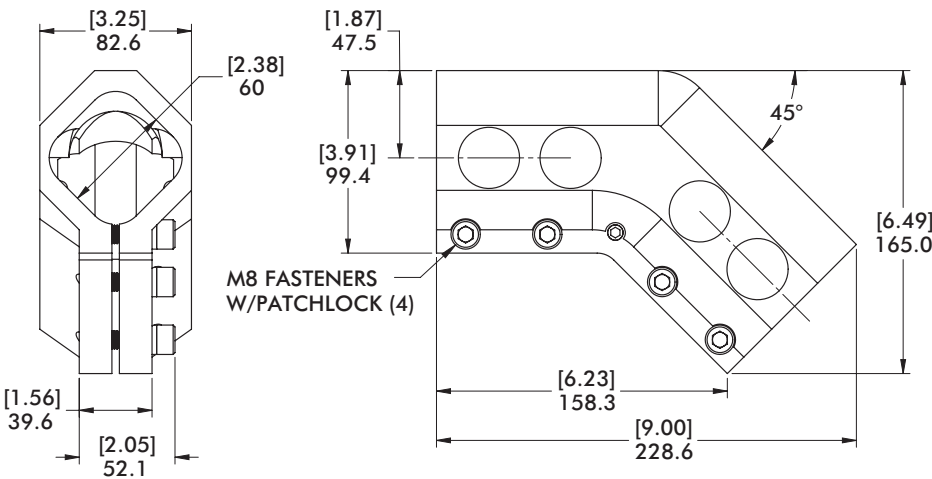
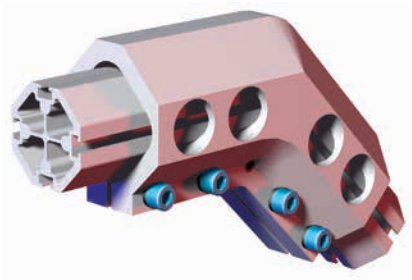
**Specifications:**

**Max. Static Clamp Load:**  
746 Nm [550 ft-lb]

**Material:** Aluminum

**Features:**

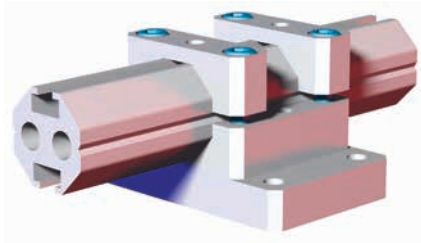
- Mounts (2) Bodybuilder extrusion booms inline at a 45° angle.



Model Number	Weight
CPI-DC-6060B-45	1.74 kg [3.8 lb]



## CLM-30B-152F-90 30mm Mid Flange Clamp Mount



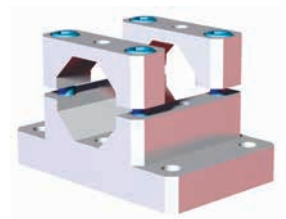
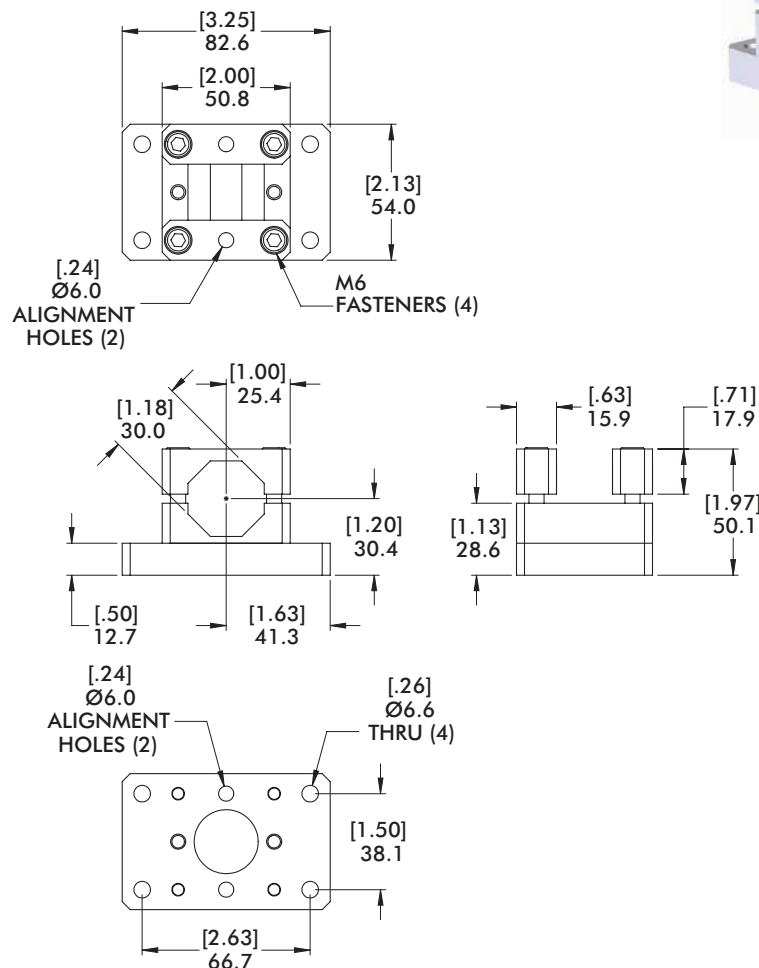
### Features:

- Mounts 30mm extrusion parallel to the mounting surface.
- Can be used as robot interface when quick-change connector is not required.

### Specifications:

**Max. Static Clamp Load:**  
102 Nm [75 ft-lb]

**Material:** Cast Aluminum



Model Number

CPI-CLM-30B-152F-90

Weight

0.28 kg [.61 lb]



# BODYBUILDER™ MID FLANGE CLAMPS

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



## TBC-45 45mm Mid Flange Clamp Mount

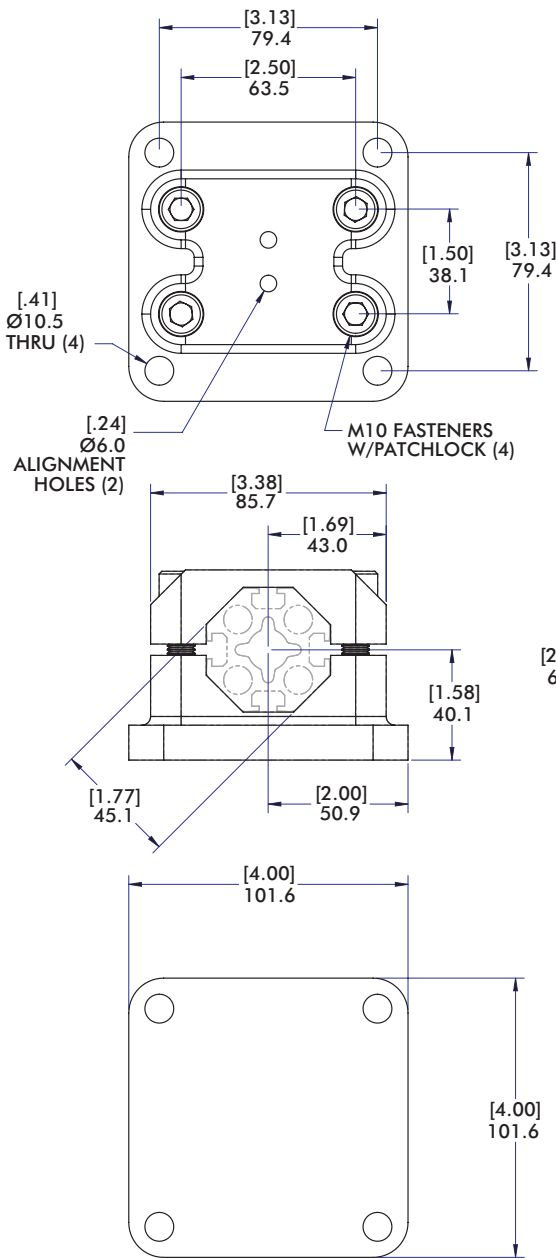
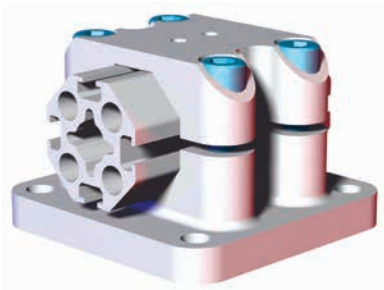
### Specifications:

**Max. Static Clamp Load:**  
475 Nm [350 ft-lb]

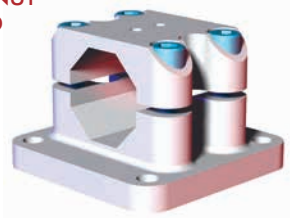
**Material:** Aluminum

### Features:

- Mounts 45mm extrusion parallel to the mounting surface.
- Can be used as robot interface when quick-change connector is not required.



ALIGNMENT NUT INCLUDED



Model Number

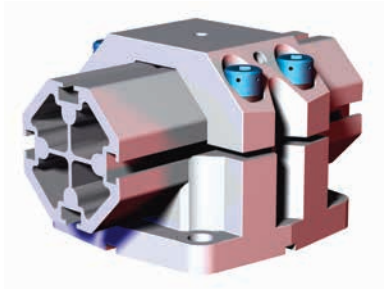
TBC-45-00

Weight

0.79 kg [1.74 lb]



## TBC-60 60mm Mid Flange Clamp Mount

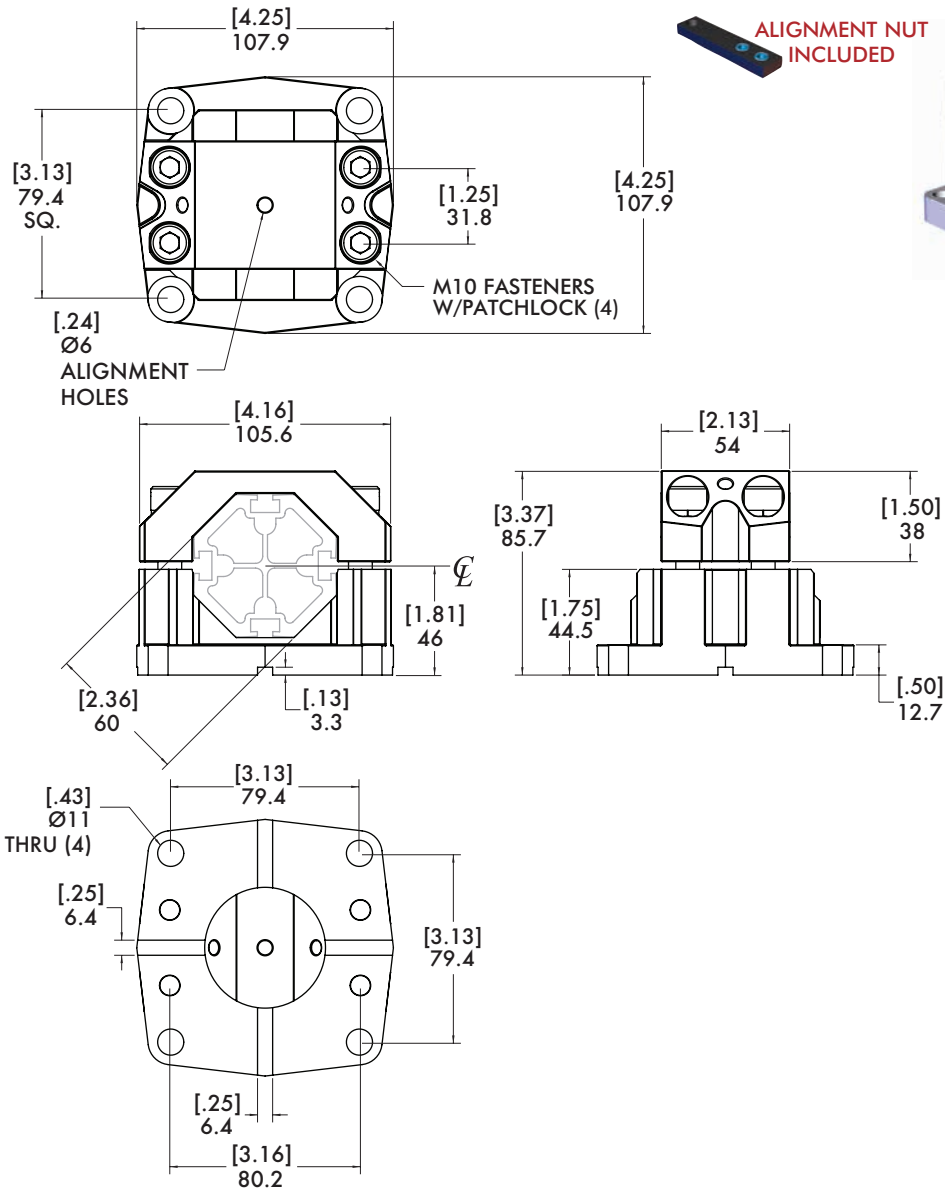


### Features:

- Mounts 60mm extrusion parallel to the mounting surface.
- Can be used to mount to robot with an interface plate.
- Cross-key design provides added strength for high-torque applications when used in conjunction with a slot and key mechanism.

### Specifications:

**Max. Static Clamp Load:**  
746 Nm [550 ft-lb]  
**Material:** Cast Aluminum



Cross Key sold separately: (2) x 540-25388

Model Number	Weight
TBC-60-00	0.92 kg [2.02 lb]



# BODYBUILDER™ END FLANGE CLAMPS

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



## CLM-30B-20F 30mm End Flange Clamp Mount

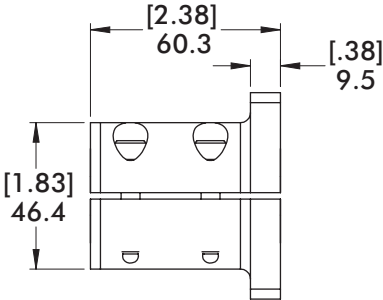
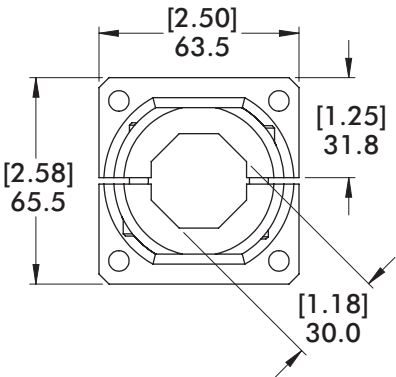
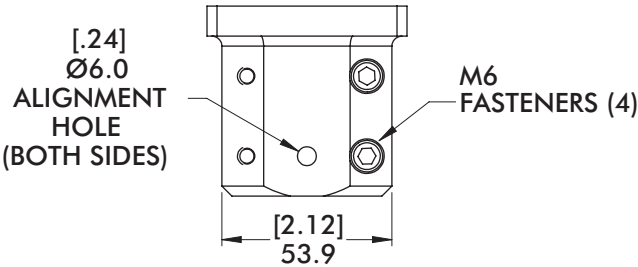
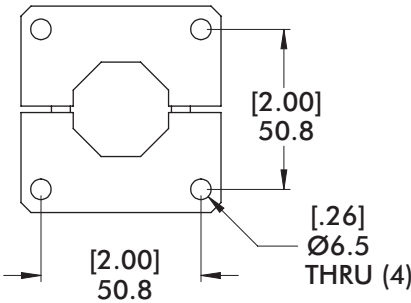
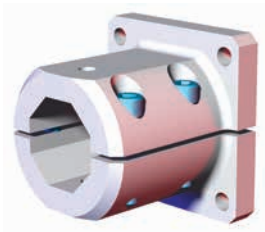
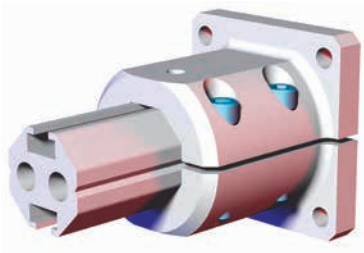
**Specifications:**

**Max. Static Clamp Load:**  
102 Nm [75 ft-lb]

**Material:** Aluminum

**Features:**

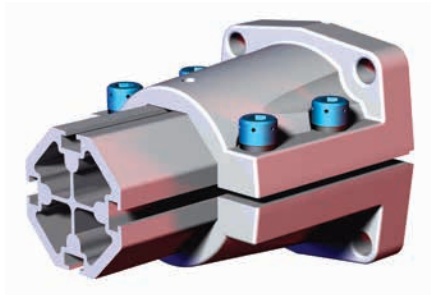
- Mounts 30mm extrusion 90° to the mounting surface.
- Can be used as robot interface when quick-change connector is not required.



Model Number	Weight
CPI-CLM-30B-20F	.29 kg [.64 lb]



## BECC-60 60mm End Flange Clamp Mount



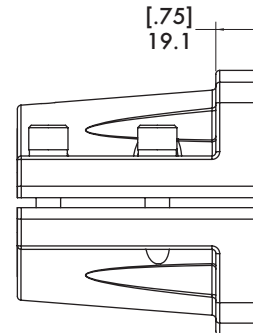
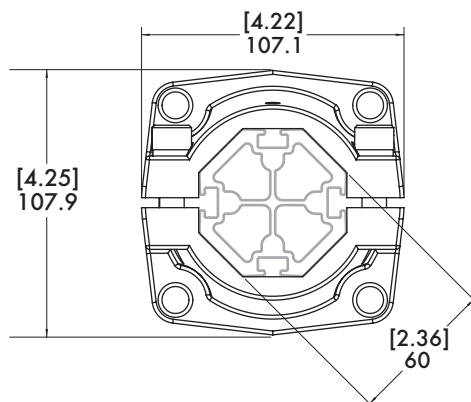
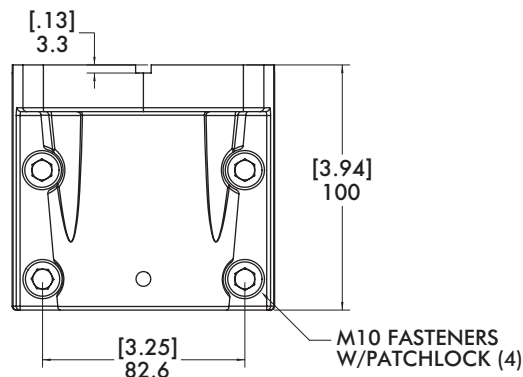
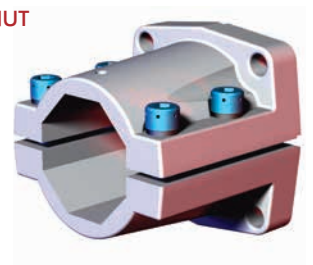
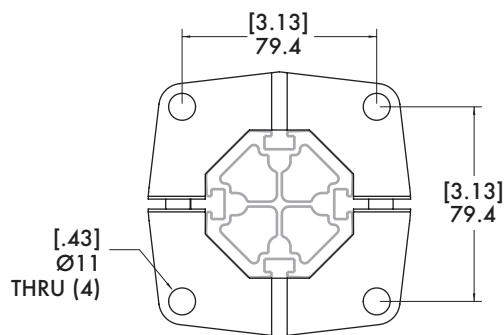
### Features:

- Mounts 60mm extrusion 90° to the mounting surface.
- Can be used as robot interface when quick-change connector is not required.
- Cross-key design provides added strength for high-torque applications when used in conjunction with a slot and key mechanism.

### Specifications:

**Max. Static Clamp Load:**  
746 Nm [550 ft-lb]

**Material:** Cast Aluminum



Cross Key sold separately: (2) x 540-25388

Model Number	Weight
BECC-60-00	1.21 kg [2.67 lb]



# BODYBUILDER™ ACCESSORY MOUNTS

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



## TPM-30 30mm Accessory Mounting Bracket

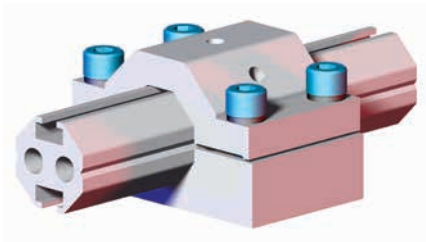
**Specifications:**

**Max. Static Clamp Load:**  
271 Nm [200 ft-lb]

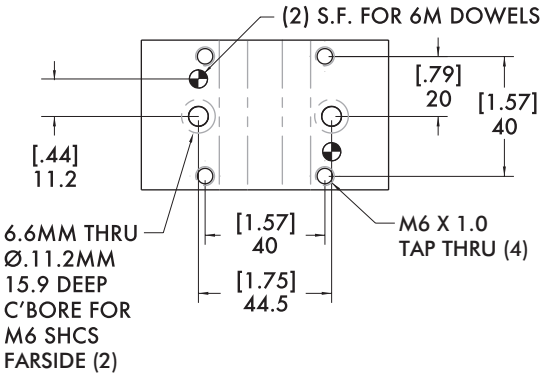
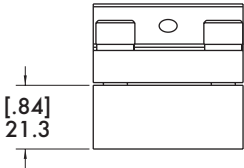
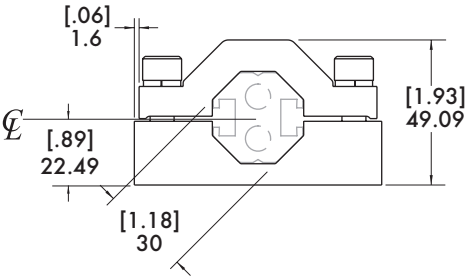
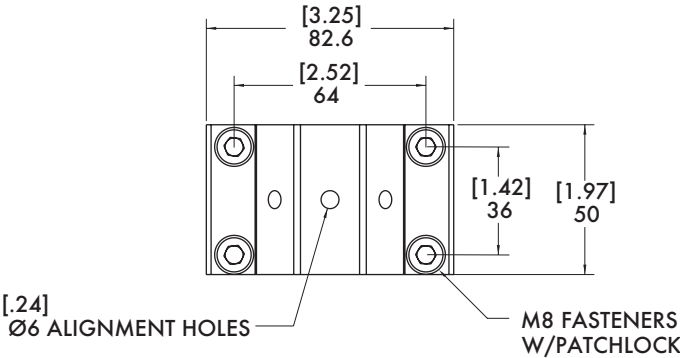
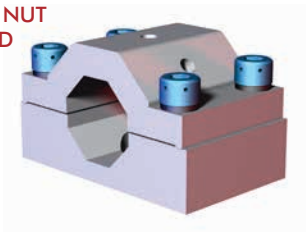
**Material:** Aluminum

**Features:**

- Provides a secure attachment point for clamps and pin locators.



ALIGNMENT NUT  
INCLUDED



Model Number  
TPM-30

Weight  
.36 kg [.80 lb]



## TPM(S)-45 45mm Accessory Mounting Bracket



### Features:

- Provides a secure attachment point for clamps and pin locators.
- Standard NAAMS mounting patterns.

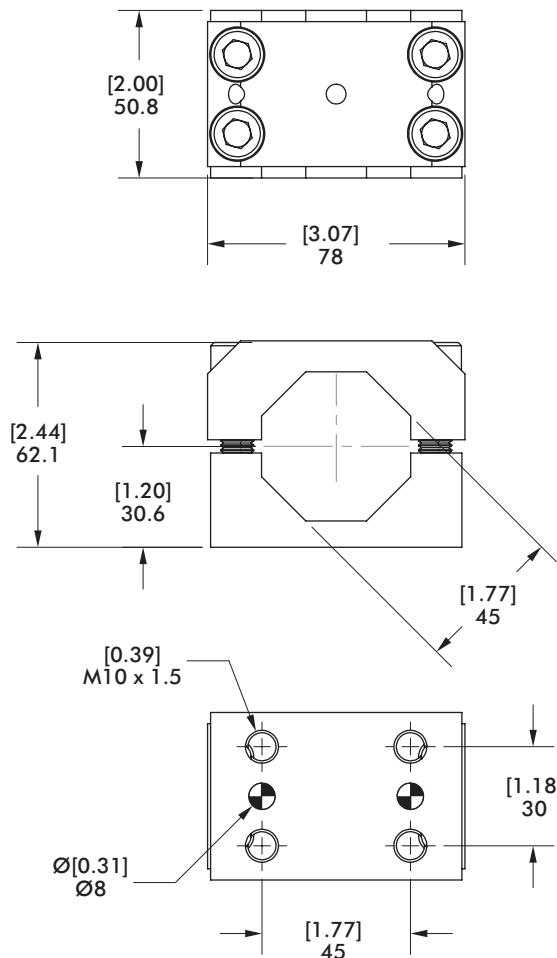
### Specifications:

**Max. Static Clamp Load:**  
475 Nm [350 ft-lb]

### Material:

TPMS-45: Steel

TPM-45: Aluminum



Model Number	Weight
TPM-45 (Aluminum)	.48 kg [1.28 lb]
TPMS-45 (Steel)	1.10 kg [2.90 lb]



# BODYBUILDER™ ACCESSORY MOUNTS

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



## TPMS-60 60mm Accessory Mounting Bracket.

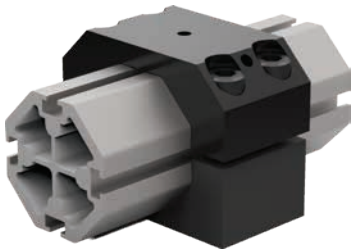
**Specifications:**

**Max. Static Clamp Load:**  
746 Nm [550 ft-lb]

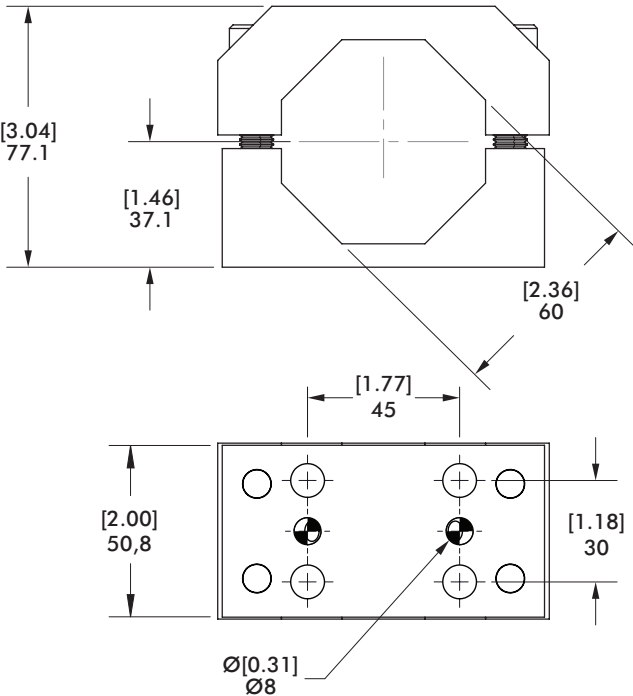
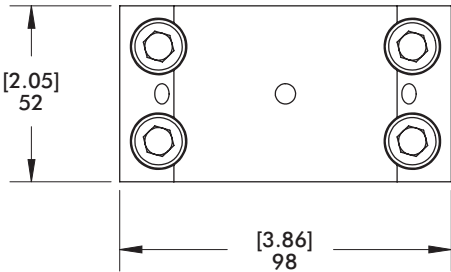
**Material:** Steel

**Features:**

- Provides a secure attachment point for clamps and pin locators.
- Standard NAAMS mounting patterns.



ALIGNMENT NUT  
INCLUDED



**Model Number**  
**TPMS-60**

**Weight**  
**1.3 kg [2.90 lb]**



## TPMS-90 90mm Accessory Mounting Bracket

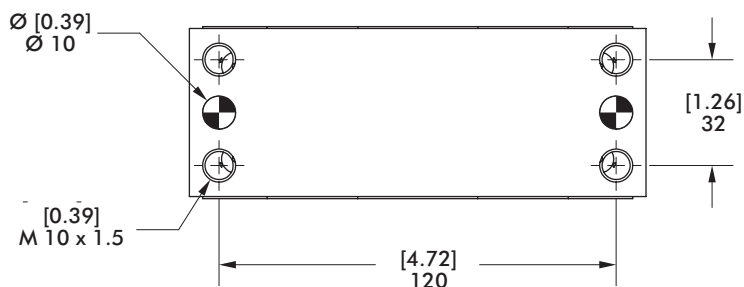
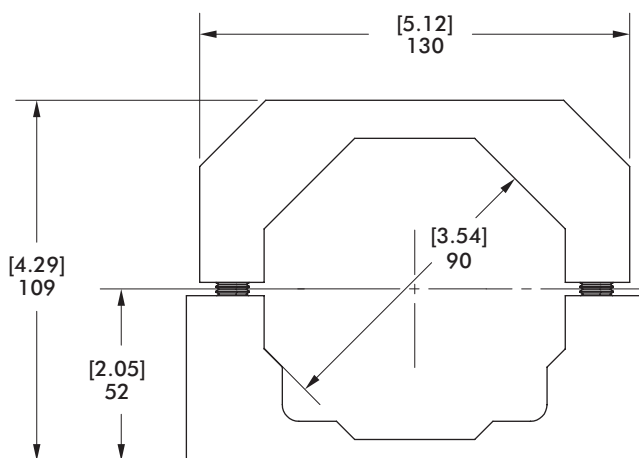
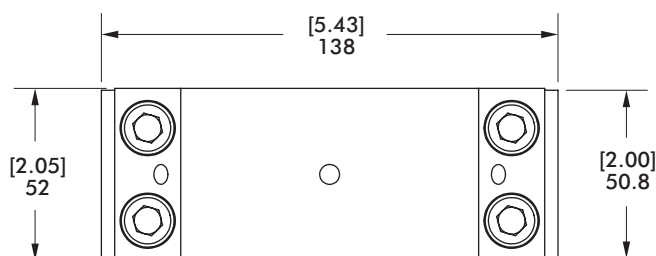


### Features:

- Provides a secure attachment point for clamps and pin locators.

### Specifications:

**Max. Static Clamp Load:**  
746 Nm [550 ft-lb]  
**Material:** Steel



**Model Number**

**TPMS-90**

**Weight**

**1.93kg [4.25lb]**



# BODYBUILDER™ GRIPPER MOUNTS

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



## GPC-150-30BBS 30mm Swivel 150 Series Parallel Gripper Mount

**Specifications:**

**Max. Static Clamp Load:**  
271 Nm [200 ft-lb]

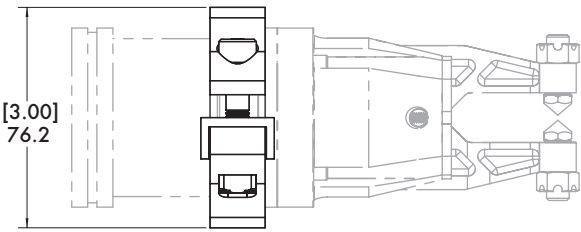
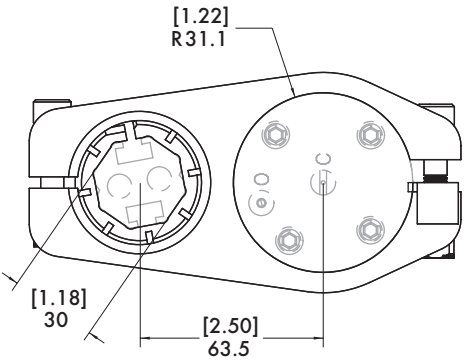
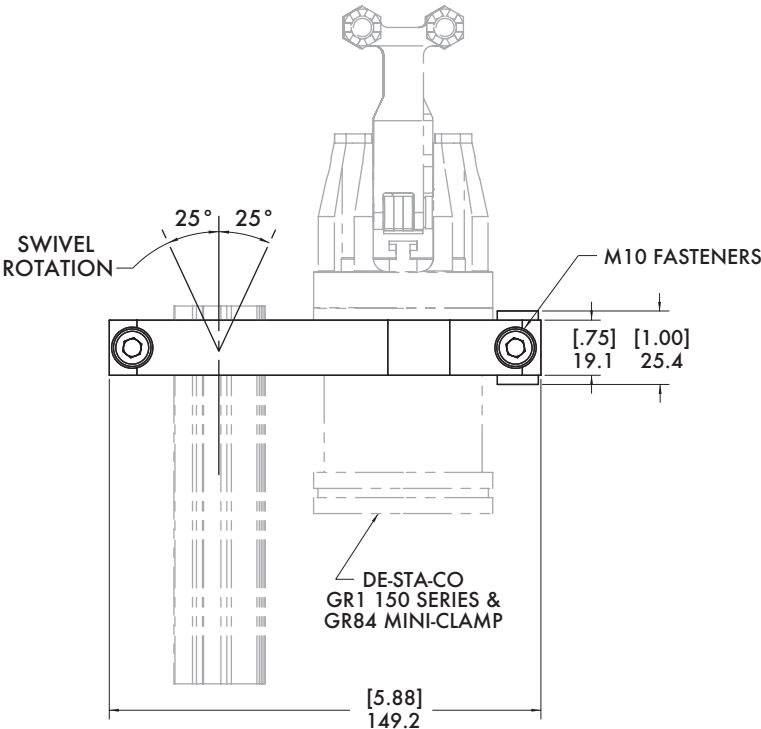
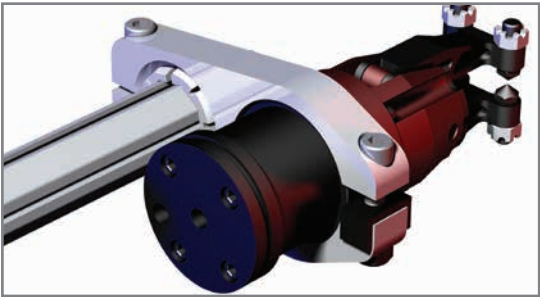
**Material:**

Body: Aluminum

Swivel Ball: Steel

**Features:**

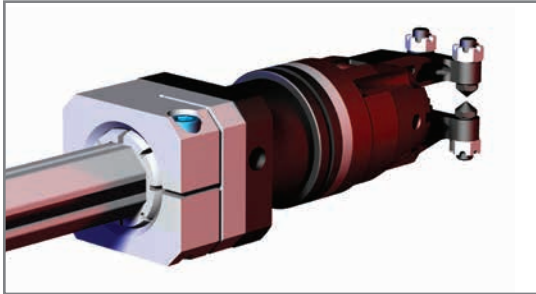
- Removable grip mount lock allows gripper to be adjusted while continuing to holding it in place.
- Swivel ball allows for  $\pm 25^\circ$  adjustment of swivel rotation.



Model Number	Weight
CPI-GPC-150-30BBS-DC	.33 kg [.73 lb]



## RJM-150-30BBS 30mm End Gripper Mount for 150 Series Gripper



### Features:

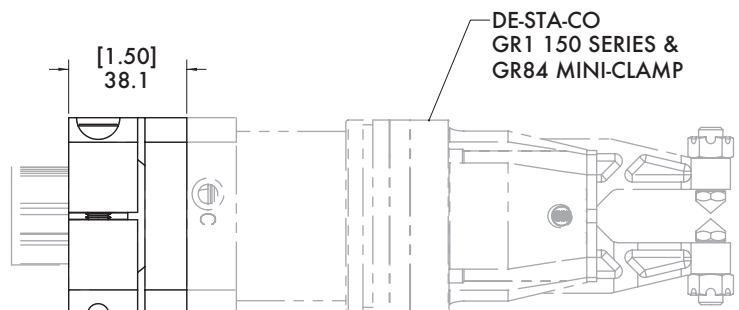
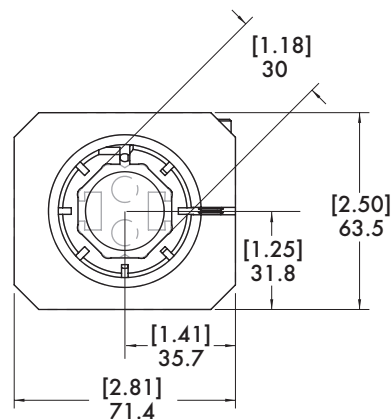
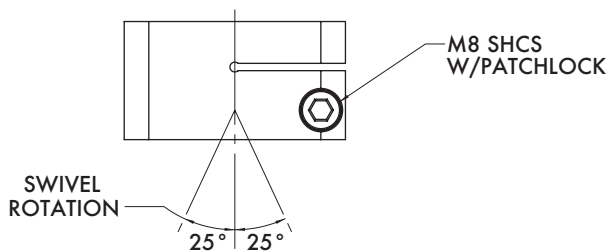
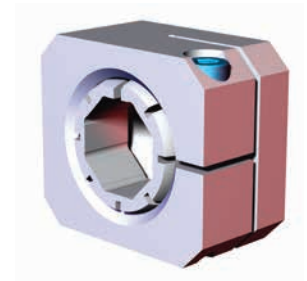
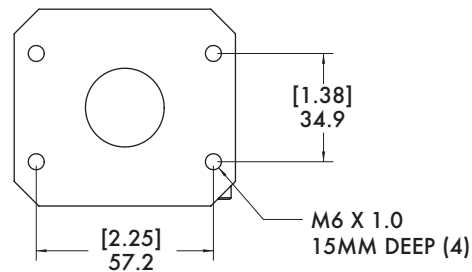
- Swivel ball allows for  $\pm 25^\circ$  adjustment of swivel rotation.

### Specifications:

**Max. Static Clamp Load:**  
271 Nm [200 ft-lb]

### Material:

Housing:  
Machined Aluminum  
Swivel: Steel



Model Number	Weight
CPI-RJM-150-30BBS	.33 kg [.74 lb]



# BODYBUILDER™ GRIPPER MOUNTS

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



## RJM-150-45BBS 45mm End Gripper Mount for 150 Series Gripper

### Specifications:

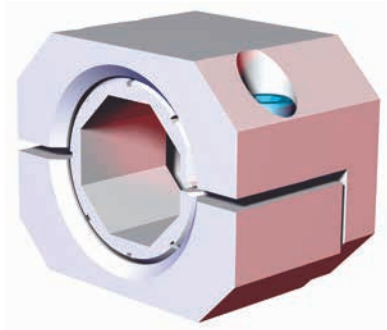
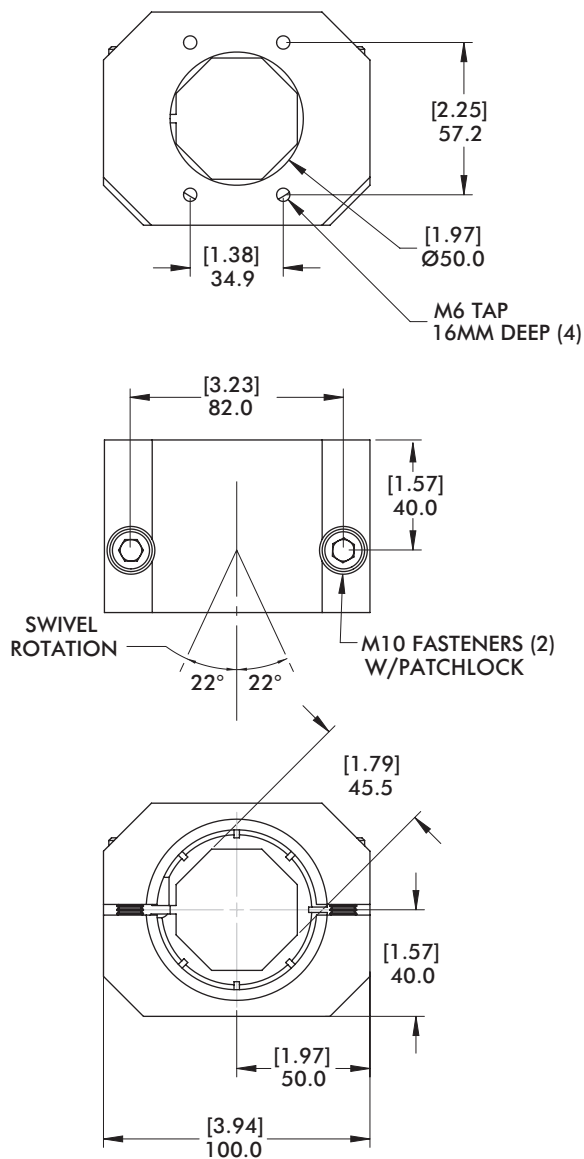
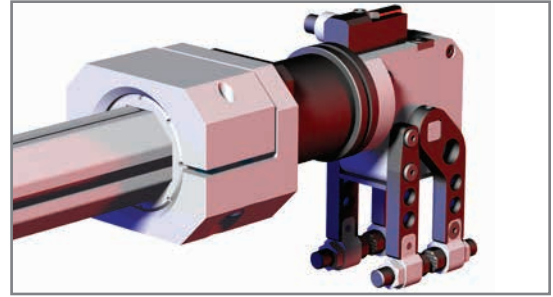
**Max. Static Clamp Load:**  
475 Nm [350 ft-lb]

### Material:

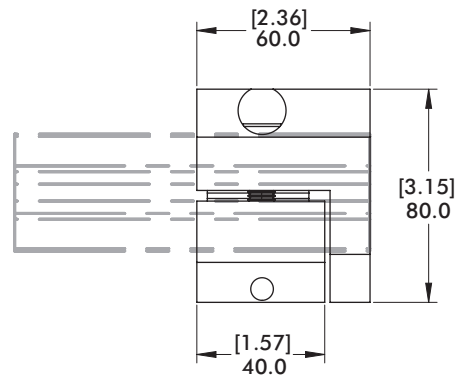
Housing:  
Machined Aluminum  
Swivel: Steel

### Features:

- Swivel ball allows for  $\pm 22^\circ$  adjustment of swivel rotation.



TO USE AS A FIXED MOUNT  
INSERT BOOM COMPLETELY  
UNTIL IT COMES INTO  
CONTACT WITH GRIPPER  
FOR SWIVEL OPTION INSERT  
BOOM 40 MM [1.57 IN] OR  
UNTIL BOOM IS INSERTED  
ENOUGH TO ALLOW  
ROTATION WITHOUT  
OBSTRUCTION



**Model Number**  
**CPI-RJM-150-45BBS**

**Weight**  
**1.23 kg [2.71 lb]**



## 30B50-MSA 30mm Swivel Arms for .50"(in) Apple Core Accessories



### Features:

- Mounts to BodyBuilder™ 30mm extrusion boom.
- One bolt design for easy assembly and adjustment, allowing accessories to be repositioned easily.
- Provides 360° of adjustments in (3) axes.
- Used to mount venturi, bumpers, round locators, and proximity switches.

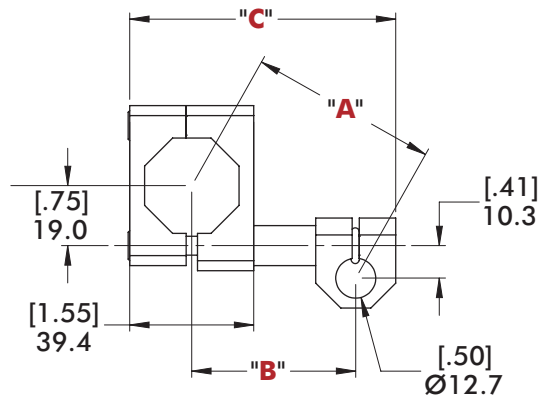
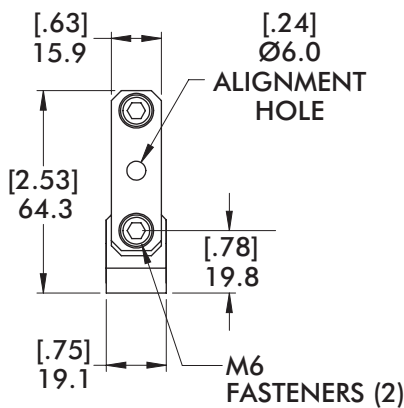
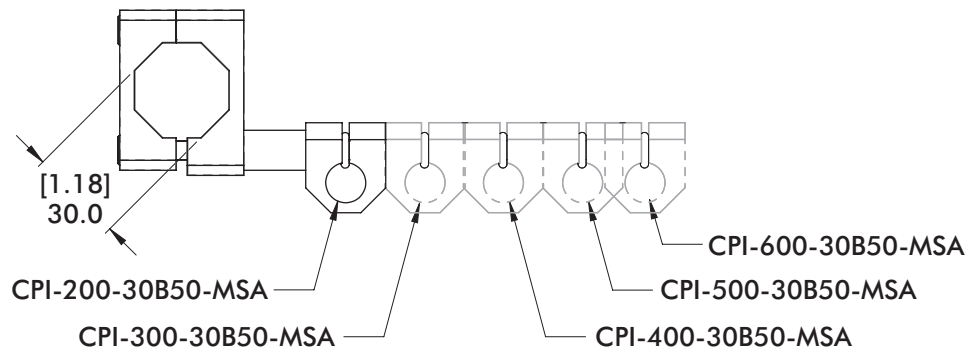
### Specifications:

**Max. Static Clamp Load:**  
102 Nm [75 ft-lb]

### Material:

**Body:**  
Cast Aluminum

**Insert:**  
Machined Aluminum



### CPI- L -30B50-MSA SWIVEL ARM

"L"	"A"	"B"	"C"	Weight
200	59.8 [2.35]	52.1 [2.05]	84.5 [3.33]	.10 kg [.22 lb]
300	82.6 [3.25]	77.2 [3.04]	109.6 [4.32]	.11 kg [.24 lb]
400	106.2 [4.18]	102.1 [4.02]	134.5 [5.30]	.12 kg [.26 lb]
500	130.6 [5.14]	127.3 [5.01]	159.7 [6.29]	.13 kg [.29 lb]
600	150.0 [5.90]	147.1 [5.79]	179.5 [7.07]	.14 kg [1.72 lb]



# BODYBUILDER™ SWIVEL ARMS

## BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



### 45B-CSA 45mm Swivel Arms for Ø19mm [.75 in] Apple Core Accessories

### Specifications:

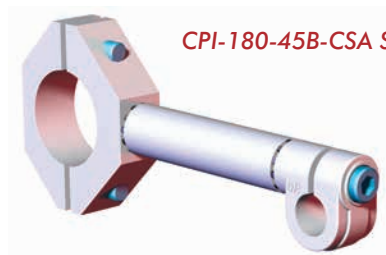
**Max. Static Clamp Load:**  
271 Nm [200 ft-lb]

**Material:**

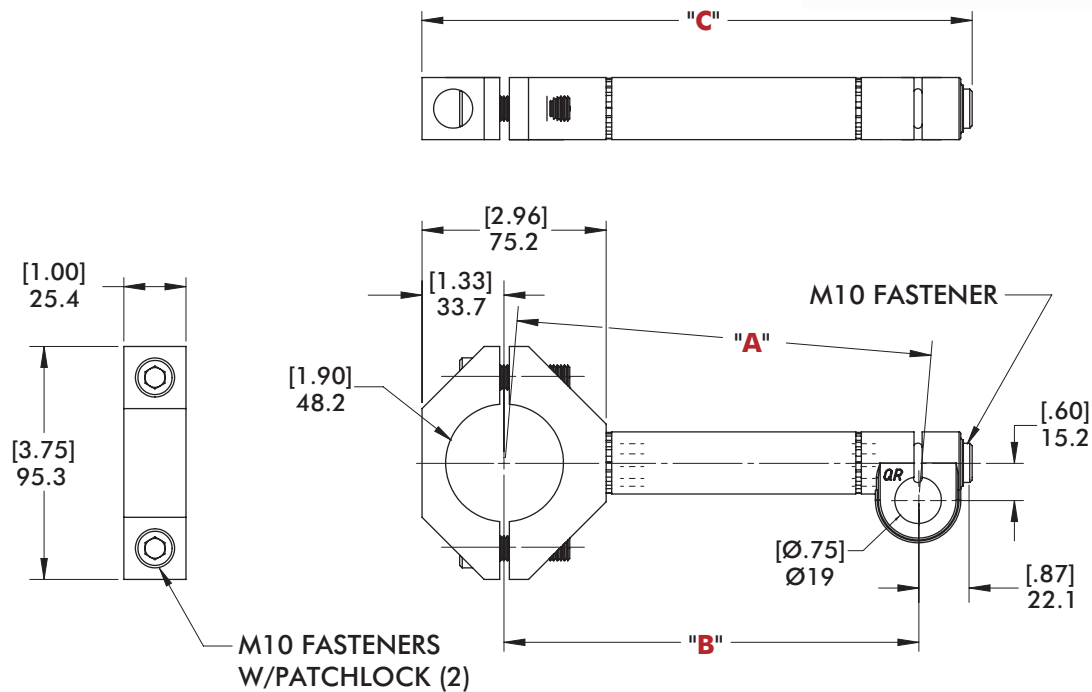
Body:  
Cast Aluminum  
Insert:  
Machined Aluminum

## Features:

- Mounts to BodyBuilder™ 45mm extrusion boom.
- One bolt design for easy assembly and adjustment, allowing accessories to be repositioned easily.
- Provides 360° of adjustments in (3) axes.
- Used to mount venturi, bumpers, round locators, and proximity switches.



CPI-180-45B-CSA SHOWN



## CPI-1" L 1/2"-45B-CSA SWIVEL ARM

" L "	"A"	"B"	"C"	Weight
130	119.8	118.8	140.9	.48 kg
	[4.72]	[4.68]	[5.56]	[1.06 lb]
180	169.8	169.1	224.9	.54 kg
	[6.68]	[66.6]	[8.89]	[1.20 lb]
230	219.7	219.1	275.0	.61 kg
	[8.65]	[8.63]	[10.83]	[1.34 lb]
280	269.6	269.2	325.0	.67 kg
	[10.61]	[10.60]	[12.80]	[1.47 lb]



## SA-30 30mm Swivel Arms for Ø19mm [.75 in] Apple Core Accessories



### Features:

- Mounts to BodyBuilder™ 30mm extrusion boom.
- One bolt design for easy assembly and adjustment, allowing accessories to be repositioned easily.
- Provides 360° of adjustments in (3) axes.
- Used to mount venturi, bumpers, round locators, and proximity switches.

### Specifications:

**Max. Static Clamp Load:**  
271 Nm [200 ft-lb]

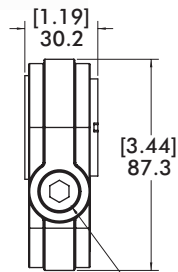
### Material:

**Body:**  
Cast Aluminum

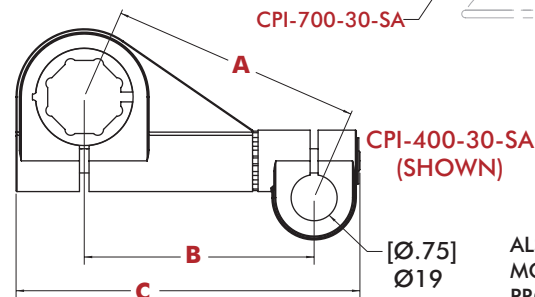
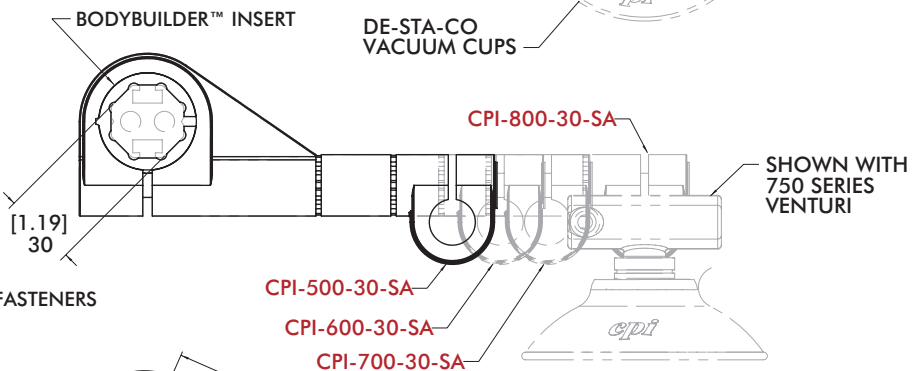
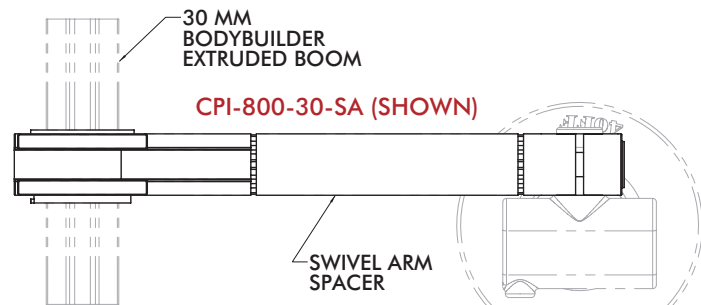
**Insert:**  
Machined Aluminum



CPI-400-30-SA SHOWN



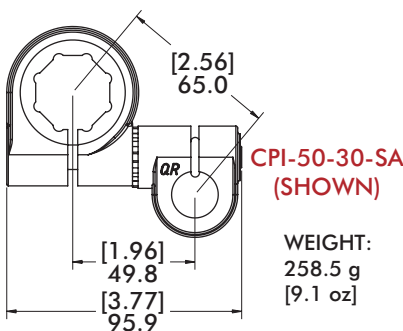
M10 FASTENERS



ALSO USED TO MOUNT SAP AND PSM SERIES PROXIMITY MOUNTS.

ROUGH LOCATORS, NEST PAD GUIDES, AND BUMPERS CAN ALSO BE MOUNTED WITH THE USE OF AN APPLE CORE STYLE MOUNT BRACKET SUCH AS THE EST AND AB SERIES NEST PAD BRACKETS

CPI-" L "-30-SA SWIVEL ARM				
" L "	" A "	" B "	" C "	Weight
400	103.8 [4.09]	95.1 [3.74]	142.5 [5.61]	.35 kg [.75 lb]
500	132.8 [5.26]	126.0 [4.96]	172.7 [6.80]	.39 kg [.88 lb]
600	151.7 [5.97]	146.0 [5.75]	192.5 [7.58]	.48 kg [1.06 lb]
700	170.6 [6.72]	165.4 [6.51]	212.1 [8.35]	.51 kg [1.13 lb]
800	209.7 [8.26]	205.5 [8.09]	252.2 [9.93]	.58 kg [1.25 lb]





# BODYBUILDER™ SWIVEL ARMS

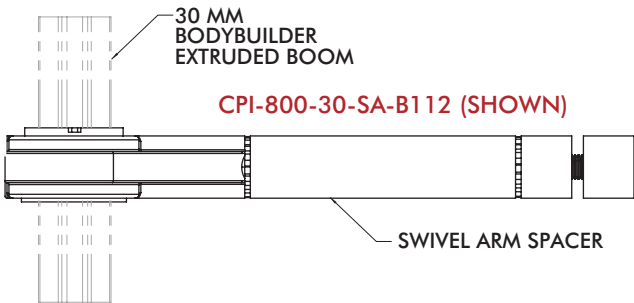
BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



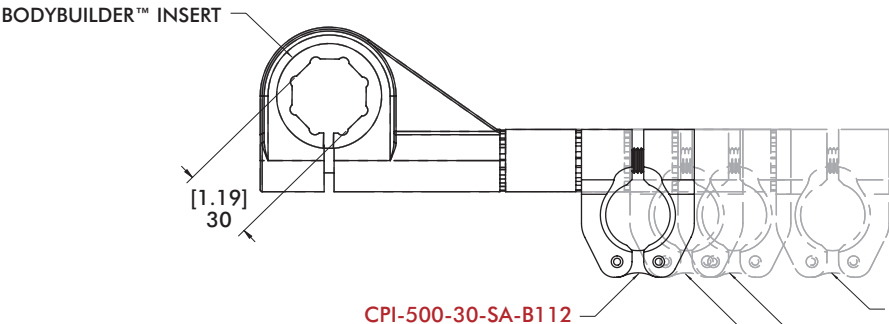
## 30-SA-B112 30mm Swivel Arms for Swivel Ball Mount Accessories



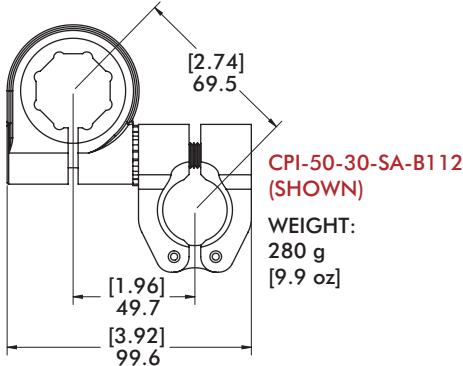
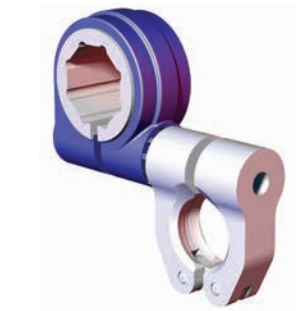
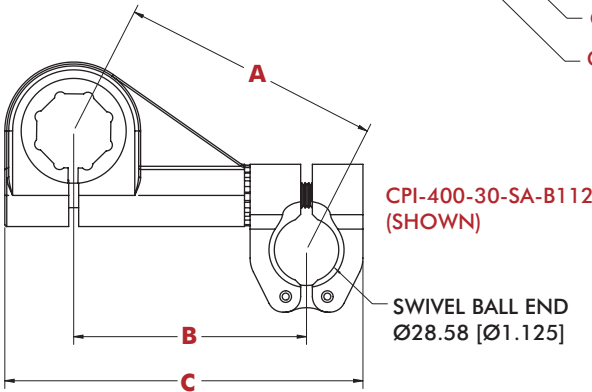
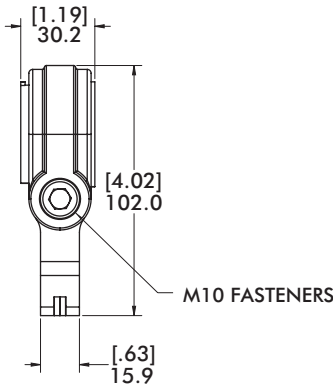
CPI-500-30-SA-B112 (SHOWN)



CPI-800-30-SA-B112 (SHOWN)



CPI-500-30-SA-B112  
CPI-800-30-SA-B112  
CPI-700-30-SA-B112  
CPI-600-30-SA-B112



CPI- " L " -30-SA-B112 SWIVEL ARM				
" L "	" A "	" B "	" C "	Weight
400	106.7 [4.20]	95.0 [3.74]	146.1 [5.75]	.40 kg [.88 lb]
500	135.0 [5.32]	126.0 [4.96]	177.1 [6.97]	.46 kg [1.00 lb]
600	153.7 [6.05]	145.8 [5.74]	196.9 [7.75]	.49 kg [1.06 lb]
700	172.3 [6.78]	165.4 [6.51]	216.5 [8.52]	.53 kg [1.19 lb]
800	211.1 [8.31]	205.5 [8.09]	256.6 [10.10]	.60 kg [1.31 lb]



## BC19 30mm Bodybuilder to Ø19mm [.75 in] Apple Core Swivel End Mount



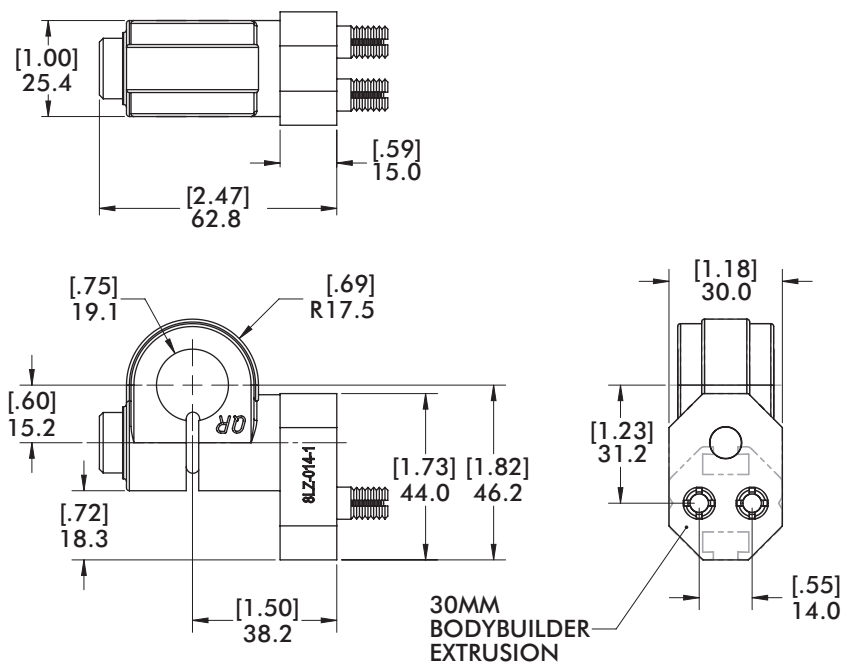
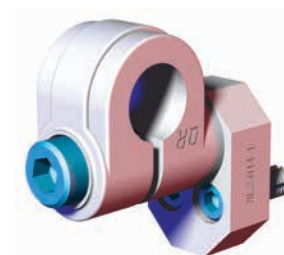
### Features:

- Mounts to BodyBuilder™ 30mm extrusion boom.
- One bolt design for easy assembly and adjustment, allowing accessories to be repositioned easily.
- Provides 360° of adjustment along (2) axis.

### Specifications:

**Material:**  
Aluminum

INCLUDES (2) INSERTS TO BE PRESS-FITTED INTO THE END OF 30MM BODYBUILDER™ OCTAGONAL BOOM



**Model Number**  
CPI-BC-19

**Weight**  
.13 kg [.28 lb]



# BODYBUILDER™ SWIVEL ARM ACCESSORIES

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



## AB-750-SL Part Present Proximity Switch Mount

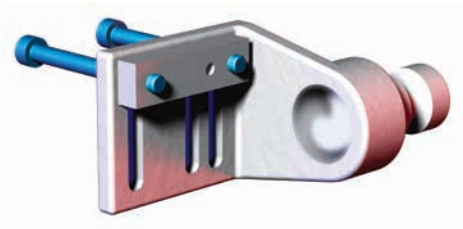
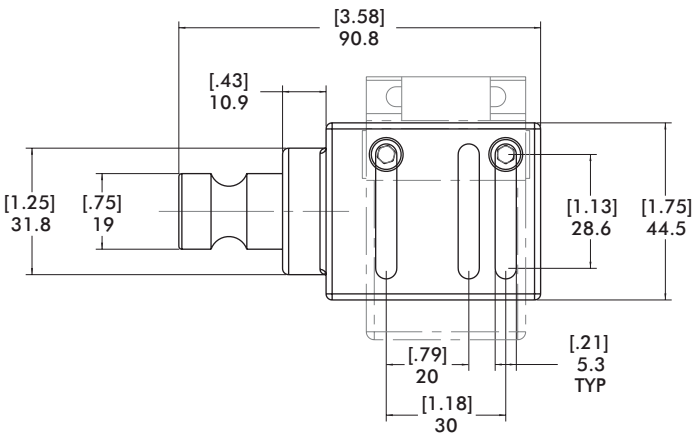
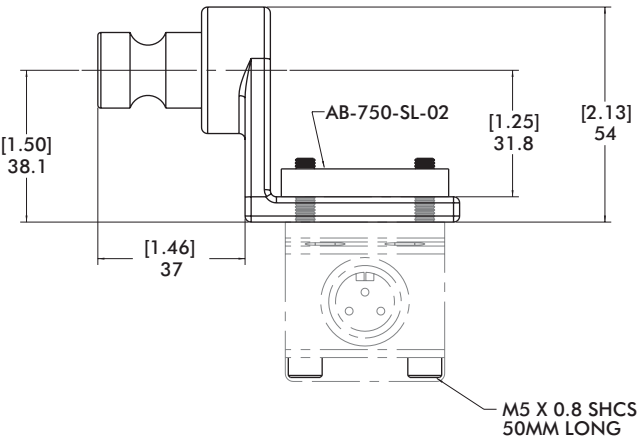
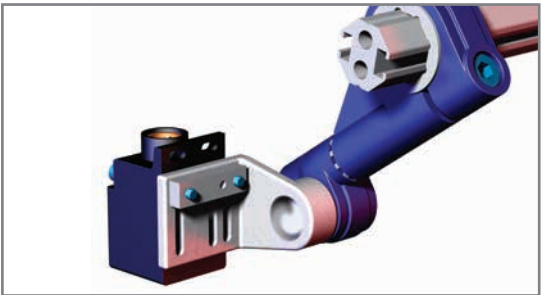
### Specifications:

**Max. Static Clamp Load:**  
271 Nm [200 ft-lb]

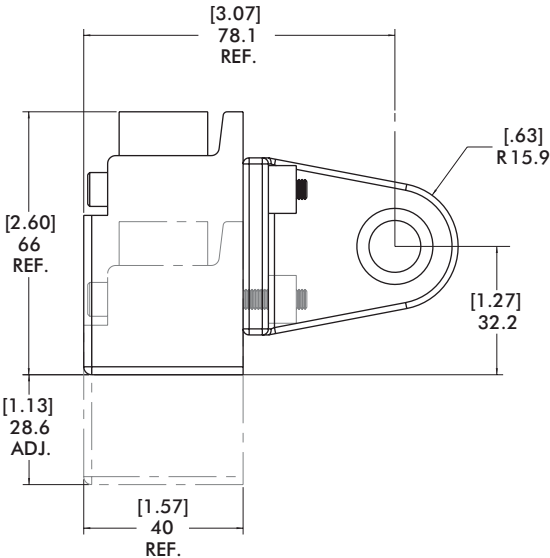
**Material:**  
Aluminum

### Features:

- Mounts a 40mm square proximity sensor to the BodyBuilder™ 30mm Swivel Arm (CPI-"L"-30-SA).
- Mount allows for 360 degrees of radial adjustment along one axis.
- Slots allows 28.6mm [1.13 in] of linear adjustment for fine tuning during final setup.



**FASTENERS AND NUT  
INCLUDED**

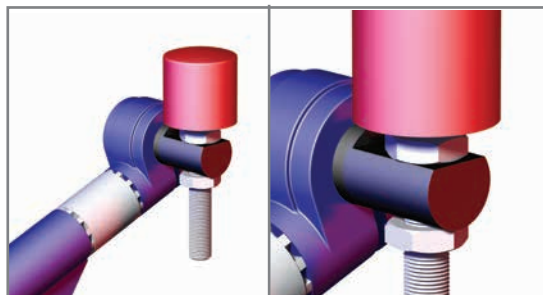


**Model Number**  
**CPI-AB-750-SL**

**Weight**  
**.10 KG [.22 lb]**



## SAP-BM10 Ø19mm [.75 in] Apple Core Nest Bumper Mount



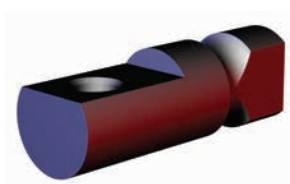
### Specifications:

**Max. Static Clamp Load:**

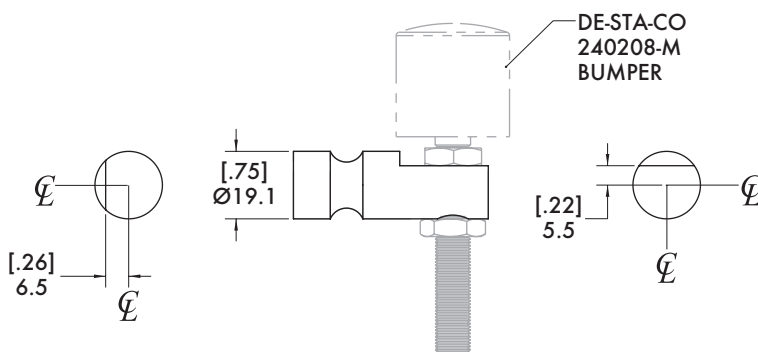
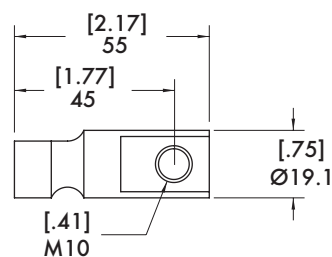
271 Nm [200 ft-lb]

**Material:**

Steel



Model Number	Weight
CPI-SAP-BM10	.10 kg [.21 lb]







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