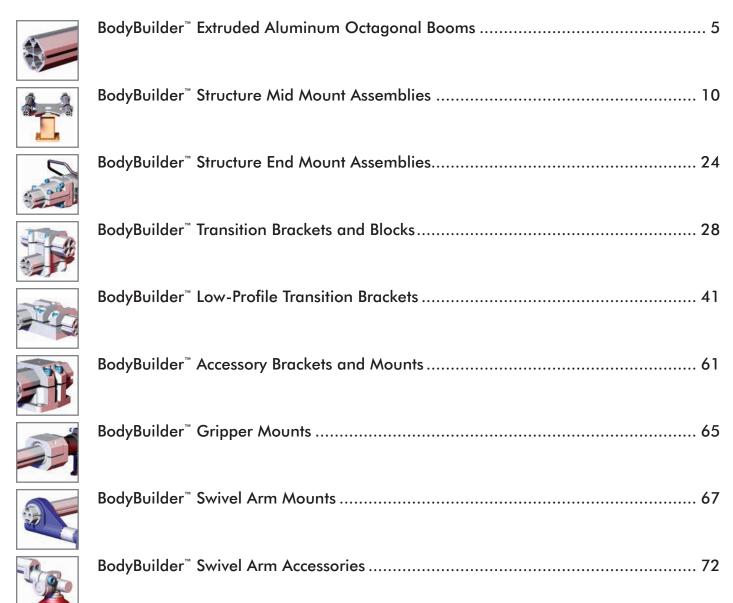
# **BODYBUILDER™ TOOLING EXAMPLES**

### **Table of Contents**







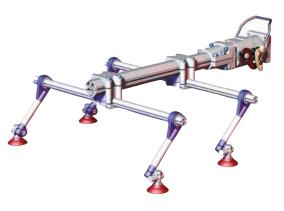


# **BODYBUILDER™ TOOLING EXAMPLES**

BodyBuilder™ Octagonal Tooling | Typical Application Build Examples







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



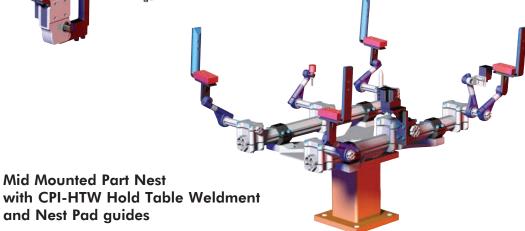
End Mount with GR84 Series Mini Clamp



Mid Mounted Part Nest

and Nest Pad guides

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

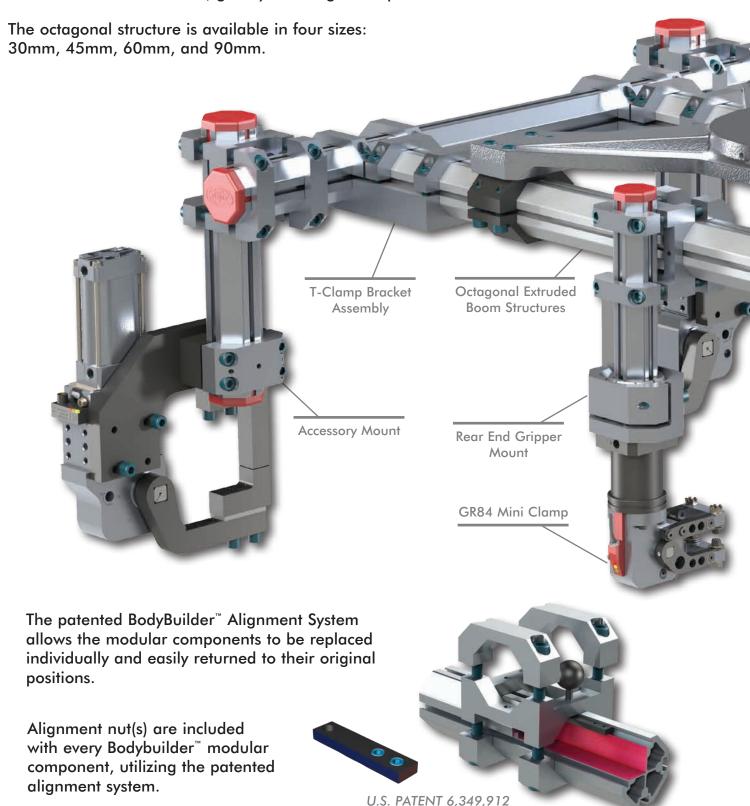


# **BODYBUILDER™ END EFFECTOR SYSTEM**

### **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.

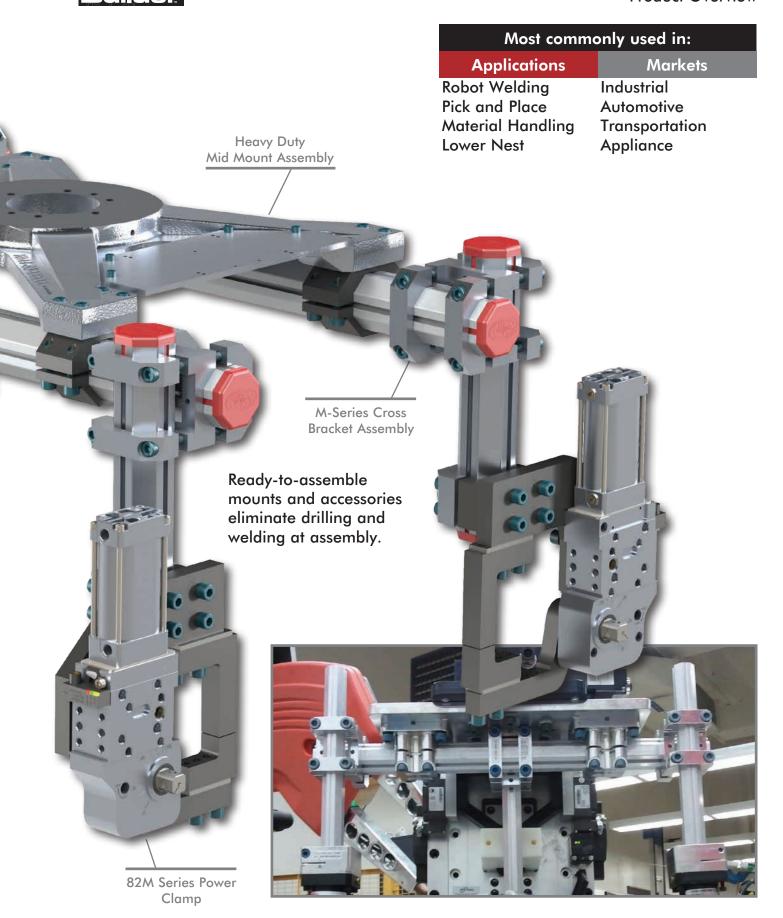






# **BODYBUILDER™ END EFFECTOR SYSTEM**

**Product Overview** 



BodyBuilder™ Octagonal Tooling | Dimensions



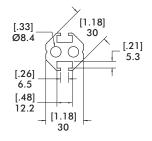
# 30, 45, 60, and 90mm Boom Popular Lengths

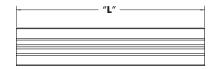
BODYBUILDER <sup>™</sup> OCTAGONAL ALUMINUM BOOM LENGTHS & ORDER NUMBERS				
(L) Length	B-30-(L)-0	B-45-(L)-0	B-60-(L)-0	B-90-(L)-0
150 mm	B-30- <b>150</b> -0	B-45- <b>150</b> -0	B-60- <b>150</b> -0	N/A
200 mm	B-30- <b>200</b> -0	B-45- <b>200</b> -0	B-60- <b>200</b> -0	N/A
250 mm	B-30- <b>250</b> -0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

(L) = Specify Length in 50mm Increments starting from 150mm to 3000mm Ex: B-30-450-0 = 450mm Length



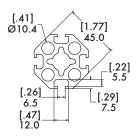


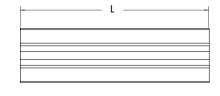
BodyBuilder™ Octagonal Tooling | Dimensions

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

# BodyBuilder™ 45mm Boom



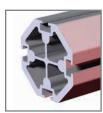




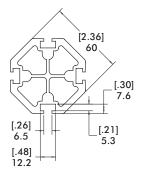
Model Number	Weight	
B-45-(L)-0	2.0 kg/m [1.4 lb/ft]	

(L) = Specify Length in 50mm Increments starting from 150mm to 3000mm Ex: B-45-450-0 = 450mm Length

# BodyBuilder™ 60mm Boom

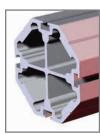






(L) = Specify Length in 50mm Increments starting from 150mm to 3000mm Ex: B-60-450-0 = 450mm Length

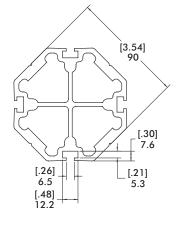
# BodyBuilder™ 90mm Boom

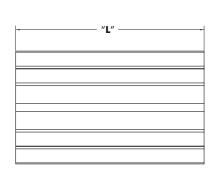


Model Nu

B-90-(L)

- B				
mber	Weight			
)-0	6.5 kg/m [4.4 lb/ft]			



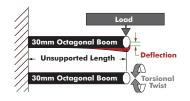


(L) = Specify Length in 50mm Increments starting from 300mm to 3000mm Ex: B-90-450-0 = 450mm Length

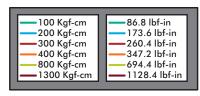
## BodyBuilder™ Octagonal Tooling | Technical Specifications



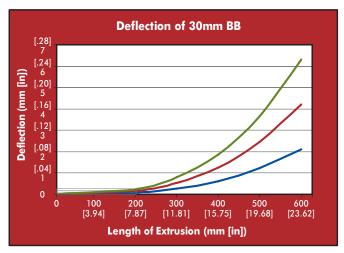
### 30mm Boom Deflection and Torsion Charts

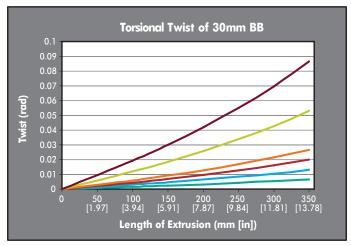


——5 Kgf	——11.0 lbf
——10 Kgf	22.0 lbf
——15 Kgf	33.0 lbf

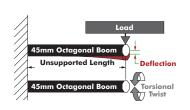




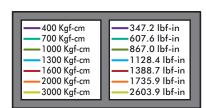




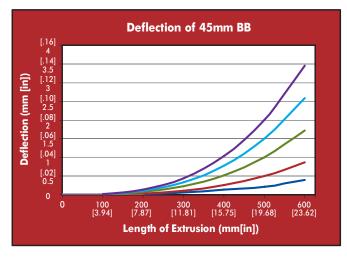
### 45mm Boom Deflection and Torsion Charts

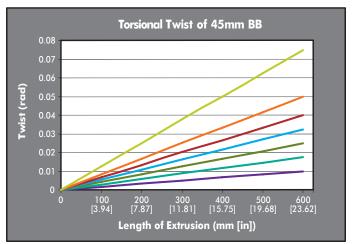












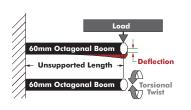
Note: Performance may vary if used with non-DESTACO components

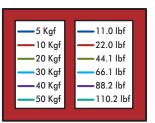


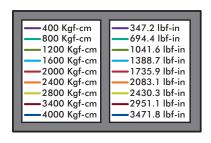


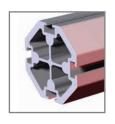
BodyBuilder™ Octagonal Tooling | Technical Specifications

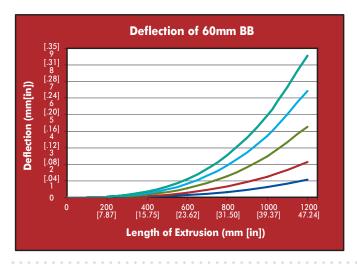
### **60mm Boom** Deflection and Torsion Charts

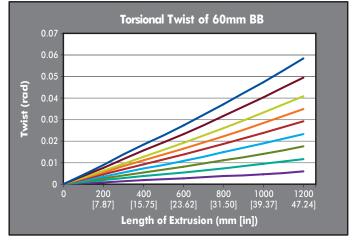




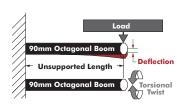




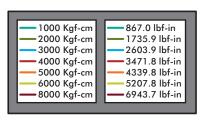




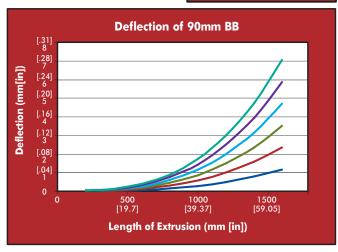
### 90mm Boom Deflection and Torsion Charts

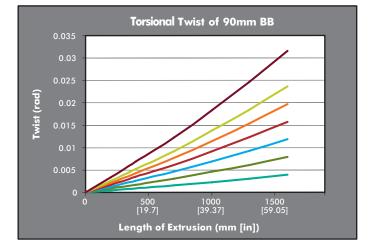












Note: Performance may vary if used with non-DESTACO components



# BODYBUILDER™ BOOM STRUCTURE ACCESSORIES

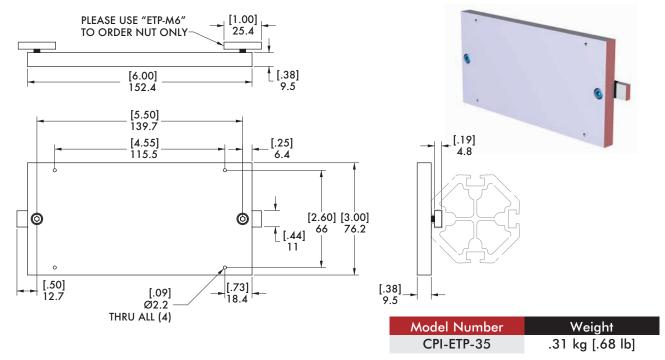
BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



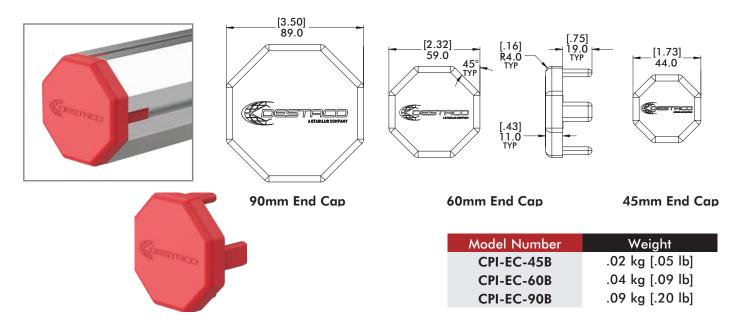
**ETP-35** Extrusion Accessory Mount



**Specifications:** Material: Aluminum



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







BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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

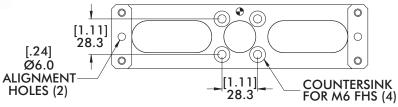


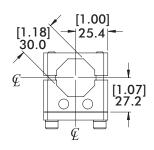
### **Specifications:**

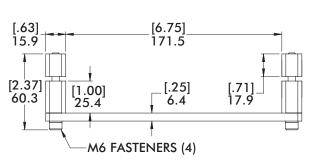
Max. Static Product Load: 102 Nm [75 ft-lb]

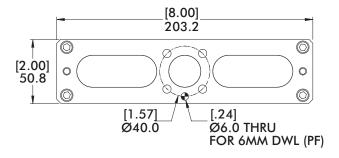
Material: Aluminum











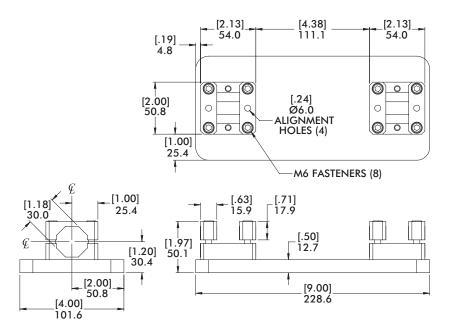
Model Number	Weight
CPI-RMM-30B-40BC-08-90	.28 kg [.62 lb]

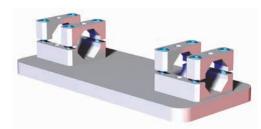


BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



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



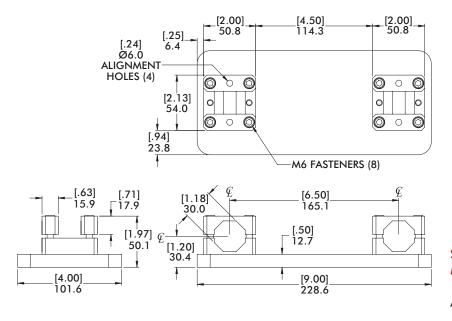


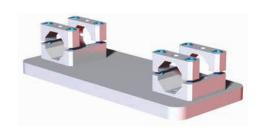
**Specifications:** 

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

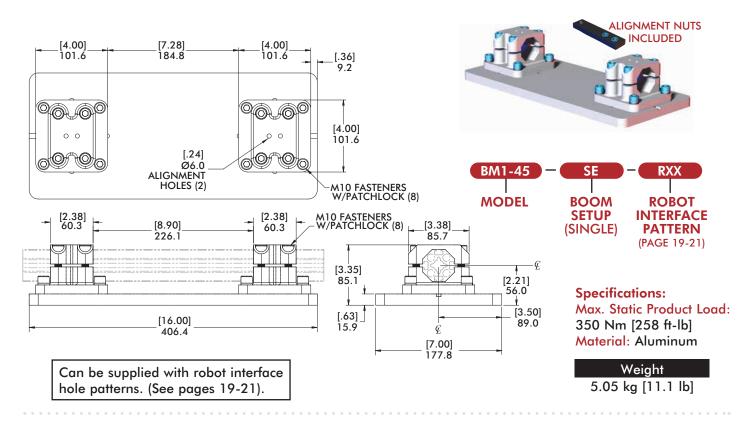
Model Number	Weight	
CPI-RMM-30B-DE	1.05 kg [2.31 lb]	



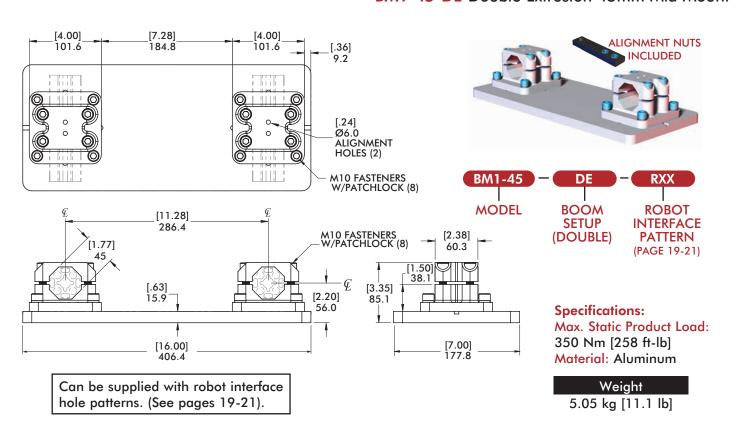


BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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



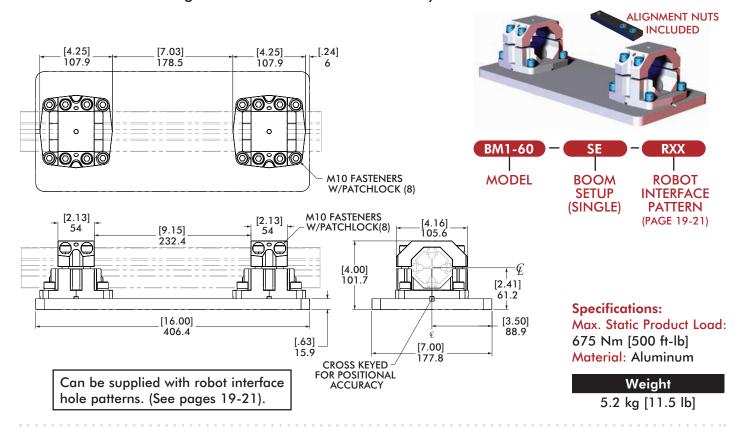
### BM1-45-DE Double Extrusion 45mm Mid Mount



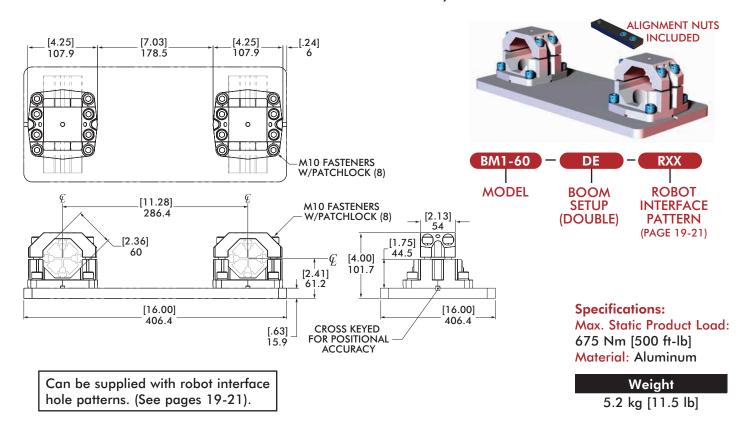
BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



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



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





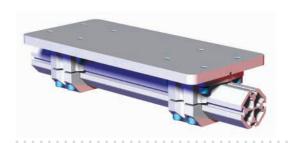
BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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

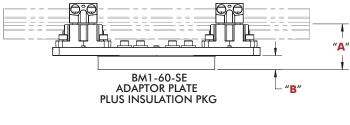
Specifications:
Material: Aluminum

### Features:

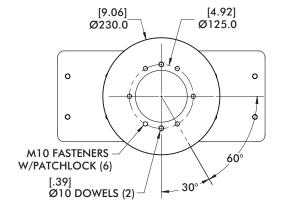
- Can be machined or left blank.
- Can be supplied with robot interface hole patterns. (See pages 19-21).

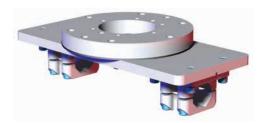


### BM1-45/BM1-60 Mid Mount Assembly - Adapter Plate









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,	89.6	27.8	83.8	27.8		
R11, R16	[3.53]	[1.09]	[3.30]	[1.09]		
R07, R09	96.0	34.1	99.6	34.1		
	[3.78]	[1.34]	[3.92]	[1.34]		



BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



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

#### **Features:**

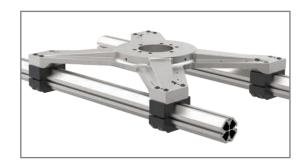
- Can be used as a direct robot interface.
- Provide robust clamping of each extrusion for maximum stability.
- Standard robot interface patterns provided. Plate can also be left blank.

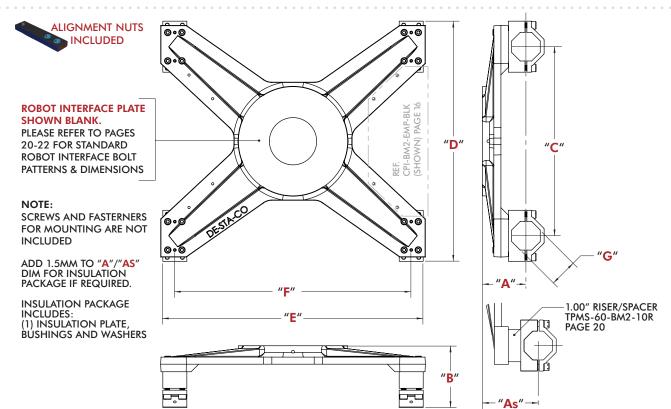
### **Specifications:**

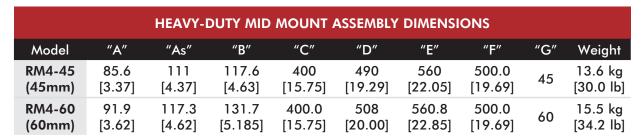
Max. Static Product Load: 453.6 kg [1000 lb]

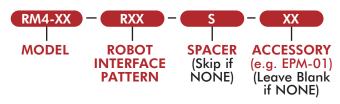
#### Material:

Mid Mount: Cast Aluminum Clamps: Steel









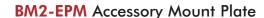






# BODYBUILDER™ MID MOUNT ACCESSORY PLATE

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

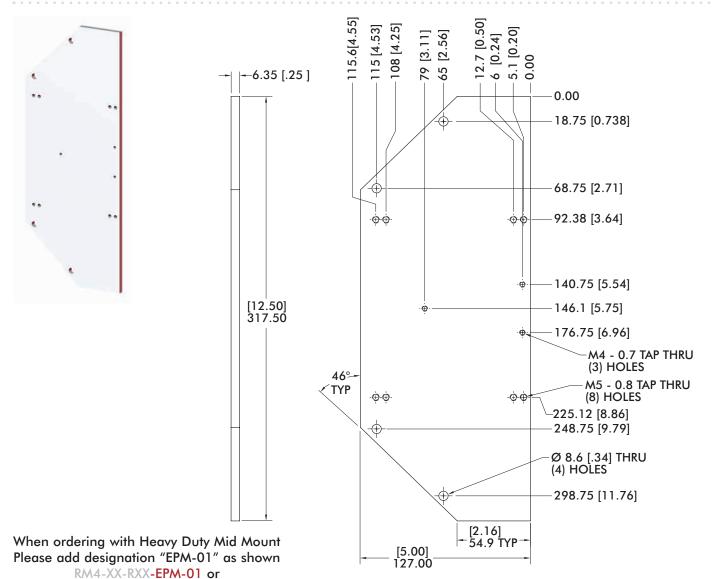




Specifications: Material: Aluminum

#### Features:

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



RM4-XX-RXX-EPM-BLK
To order separately use Model Number

add designation "EPM-BLK" to order blank

(A)	Pattern	Model <b>RM4-45/60</b>	Weight
EPM-01	Standard	CPI-BM2-EPM-01	/2 l [1 20 ll-1
EPM-BLK	Blank	CPI-BM2-EPM-BLK	.63 kg [1.39 lb]

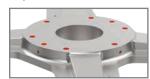


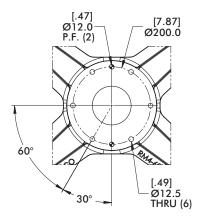
# **BODYBUILDER™ MID MOUNT BOLT PATTERNS**

BodyBuilder™ Octagonal Tooling | Robot Interface Bolt Patterns

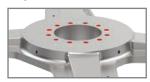


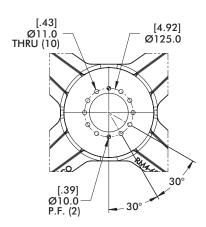
R01 (Ø200mm Bolt Circle)





R02 (Ø125mm Bolt Circle)

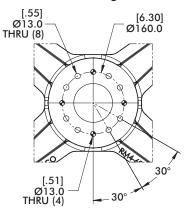




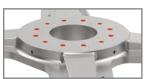
R03 (Ø160mm Bolt Circle)

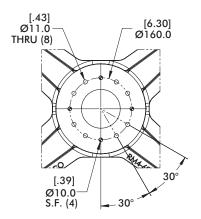


Includes Insulation
Add 1.5mm to Height Dim "A"/"AS"



R04 (Ø160mm Bolt Circle)

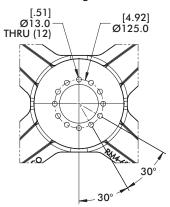




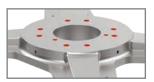
R05 (Ø125mm Bolt Circle)

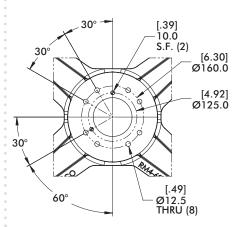


Includes Insulation
Add 1.5mm to Height Dim "A"/"AS"



### R06 (Ø125/160mm Bolt Circle)





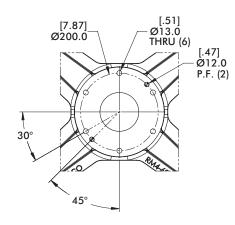


# **BODYBUILDER™ MID MOUNT BOLT PATTERNS**

BodyBuilder™ Octagonal Tooling | Robot Interface Bolt Patterns

### R07 (Ø200mm Bolt Circle)

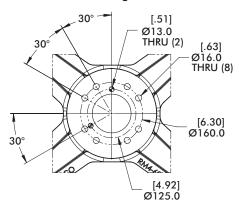




### R08 (Ø125/160mm Bolt Circle)



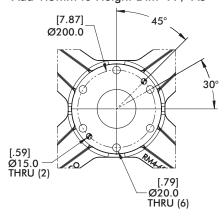
Includes Insulation
Add 1.5mm to Height Dim "A"/"AS"



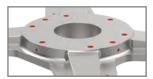
### R09 (Ø200mm Bolt Circle)

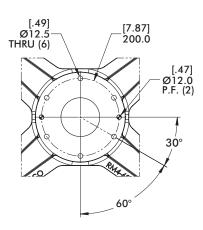


Includes Insulation
Add 1.5mm to Height Dim "A"/"AS"

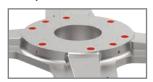


### R10 (Ø200mm Bolt Circle)

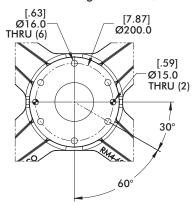




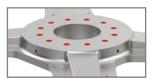
### R11 (Ø200mm Bolt Circle)



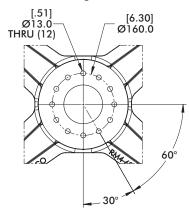
Includes Insulation
Add 1.5mm to Height Dim "A"/"AS"



### R12 (Ø160mm Bolt Circle)



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

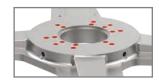


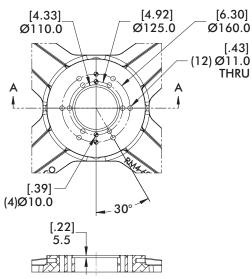
# **BODYBUILDER™ MID MOUNT BOLT PATTERNS**

BodyBuilder™ Octagonal Tooling | Robot Interface Bolt Patterns



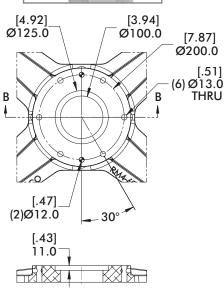
### R13 (Ø125/160mm Bolt Circle) (Ø110mm Pilot, 5.5mm Deep)



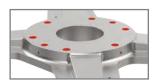


### R14 (Ø200mm Bolt Circle) (Ø125mm Pilot, 11mm Deep)

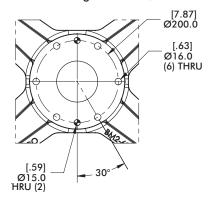




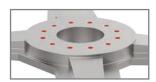
### R16 (Ø200mm Bolt Circle)

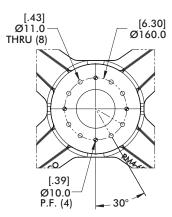


Includes Insulation
Add 1.5mm to Height Dim "A"/"AS"



### R17 (Ø160mm Bolt Circle)







# **BODYBUILDER™ MID MOUNT RISERS**

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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





[2.36] 9.7 60 Ø8.8 [59] 15 [2.00] [1.18] 50.8 30 Ø6MM S.F. (2) [1.00] 25.4

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	Specifications:
RM4-60	TPMS-60-BM2-10R	.26 kg [.56 lb]	Material: Aluminum



BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



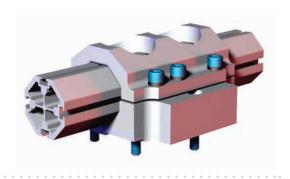
### ATI-151-90HD-60BB 60mm Mid Mount

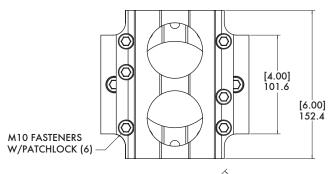
**Specifications:** 

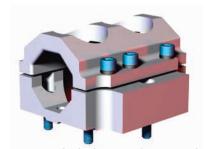
Max. Static Product Load: 746 Nm [550 ft-lb]] Material: Aluminum

### **Features:**

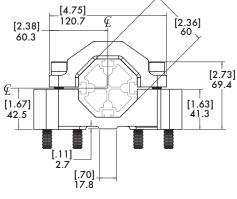
Can be used as direct robot interface.

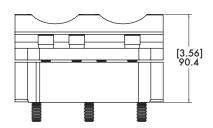


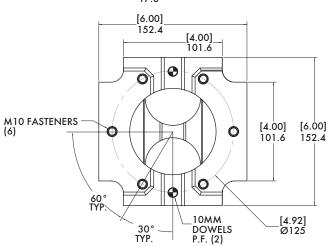




Fasteners included, Dowels not included







Model Number	Weight
CPI-ATI-151-90HD-60BB	3.22 kg [/.10 lb]





BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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

 $\bigcirc$ [4.00] [6.00] 101.6 152.4 M10 FASTENERS W/PATCHLOCK [6.00] 152.4 Fasteners and Dowels Included [3.54][3.00] 76.2 [1.02] 25.8 [4.99] 126.9  $\mathcal{E}$ [2.54] 64.5 [3.58] [2.48] [.11] 2.7 [.70] 17.8 [6.00]152.4 [4.00] 101.6 Ø O M10 FASTENERS [4.00] 101.6 [6.00] 152.4 Ø10MM DOWELS P.F. (2) 30° TYP.



Weight

Model Number

**CPI-ATI-151-90HD-90BB** 2.89 kg [6.38 lb]

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



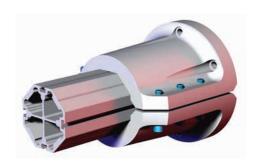
### CL-90B-160F 90mm End Mount

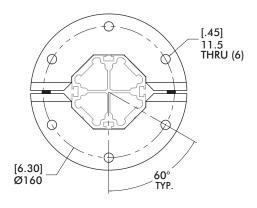
**Specifications:** 

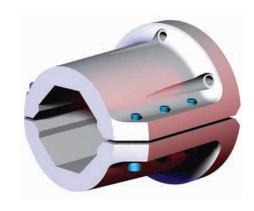
Max. Static Clamp Load: 746 Nm [550 ft-lb] Material: Aluminum

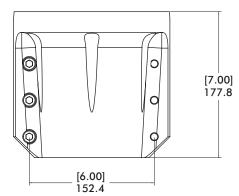
#### Features:

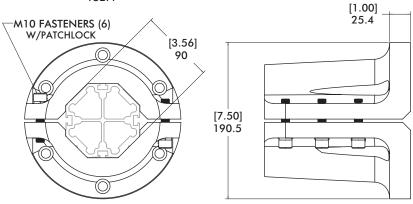
Can be used as direct robot interface.











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





BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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:**

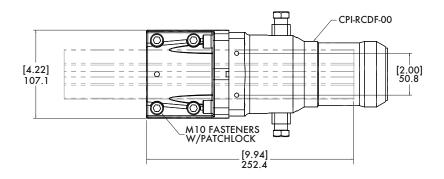
Max. Static Product Load: 746 Nm [550 ft-lb]
Material:

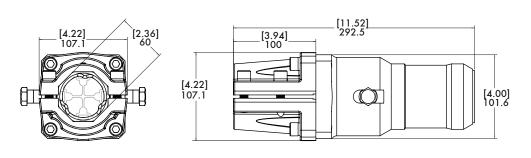
Body: Aluminum Pins: Steel

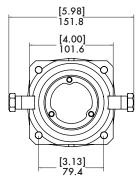
Used in conjunction with Quick Disconnect Housing to provide an efficient method for changing tools manually.



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

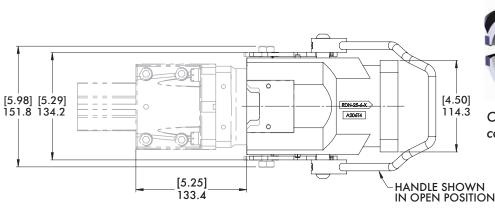
Inserts: Urethane

#### **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.

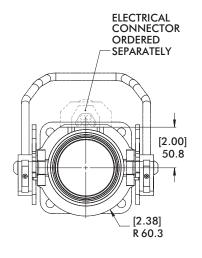


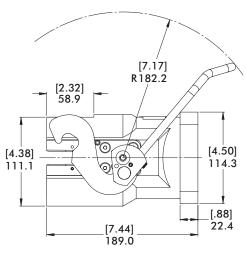
Used in conjunction with 60 mm BodyBuilder™ Bayonet to provide an efficient method for changing tools manually.

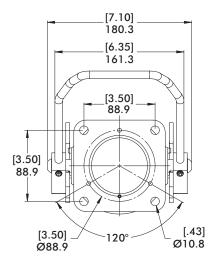




Optional 4-port air and electric connections available.







Model Number	Weight
CPI-RDN-25-6	4.00 kg [8.90 lb]





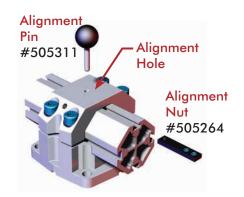
# **BODYBUILDER™ ALIGNMENT SYSTEM**

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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

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

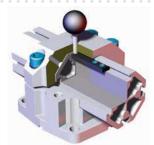
Be sure the alignment nut is inserted so that when it is slid under the bracket mount, the set screws can still be accessed outside the bracket mount as shown.



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<sup>™</sup> 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™ Octagonal Tooling | Explaining the Patented Alignment System



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

#### **Features:**

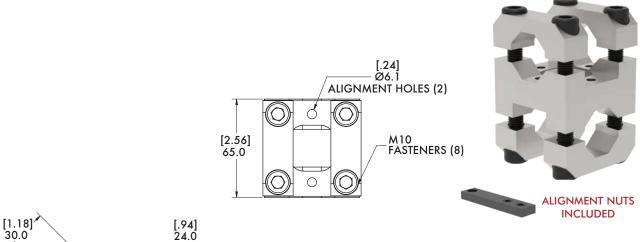
- Connects (2) 30mm extrusions perpendicular to each other.
- Lightweight, high-strength aluminum design.

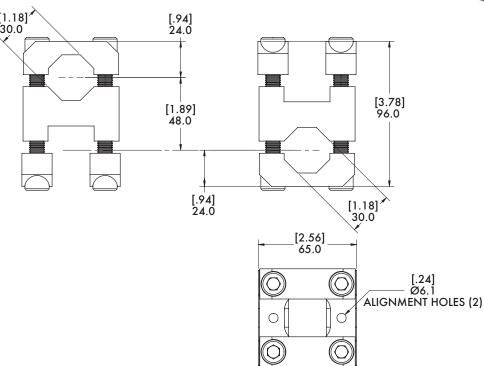
### **Specifications:**

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

Material: Aluminum







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





BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

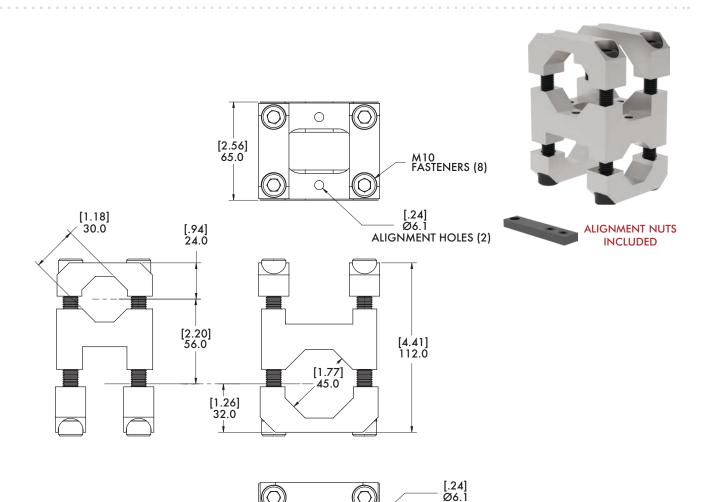
30B-45B 30mm to 45mm Transition Bracket Assembly

### **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.





[3.15] 80.0



ALIGNMENT HOLES (2)

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



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

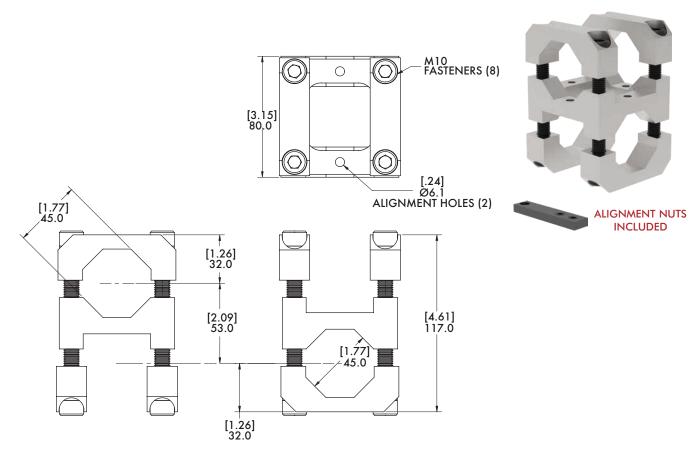
#### **Features:**

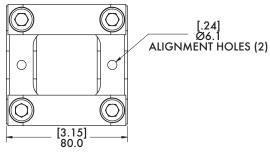
- Connects (2) 45mm extrusions perpendicular to each other.
- Lightweight, high-strength aluminum design

### **Specifications:**

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







Model Number	Weight
M-45B-45B-M	1.05 kg [2.31 lb]





BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

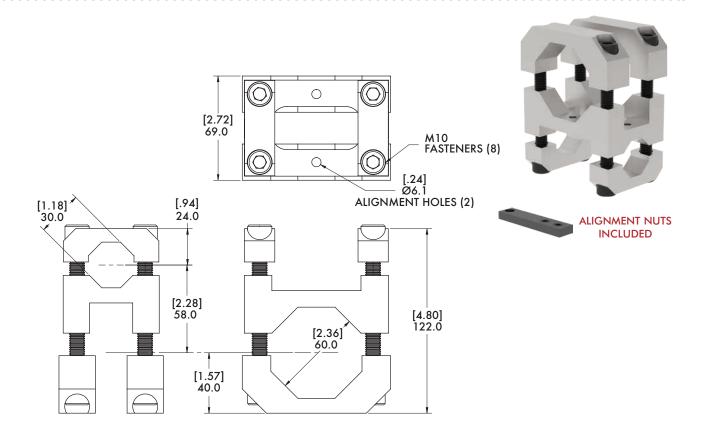
30B-60B 30mm to 60mm Transition Bracket Assembly

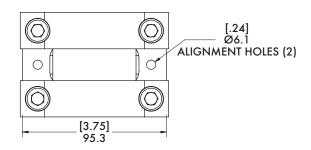
### **Specifications:**

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	Weight
M-30B-60B-M	1.13 kg [2.50 lb]



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BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



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

#### **Features:**

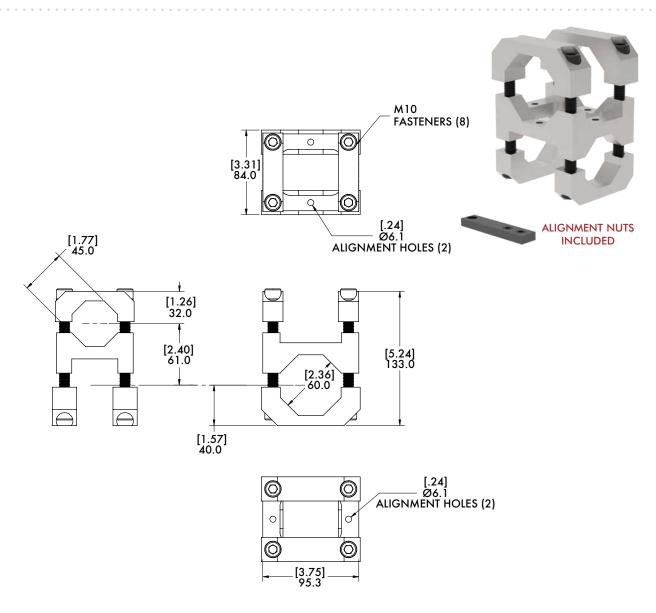
- Connects 45mm and 60mm extrusions perpendicular to each other.
- Lightweight, high-strength aluminum design.

### **Specifications:**

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

Material: Aluminum





Model Number	Weight
M-45B-60B-M	1.23 kg [2.70 lb]





BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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

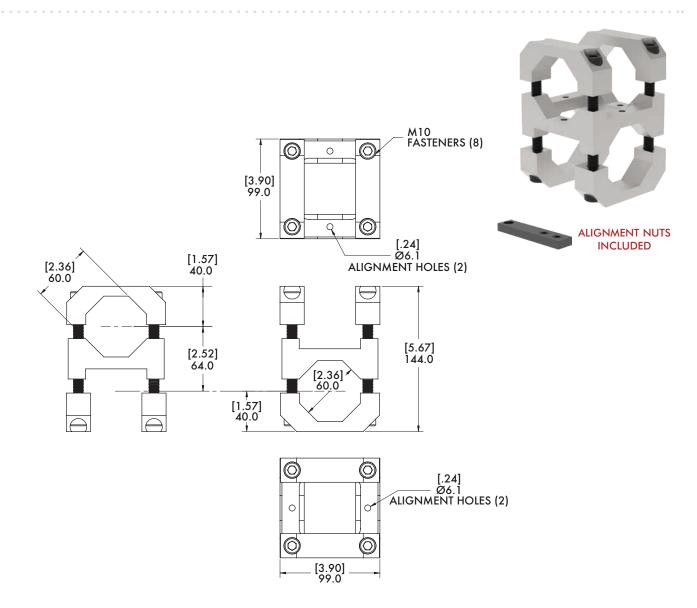


### **Specifications:**

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	Weight
M-60B-60B-M	1.36 kg [3.00 lb]



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BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



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

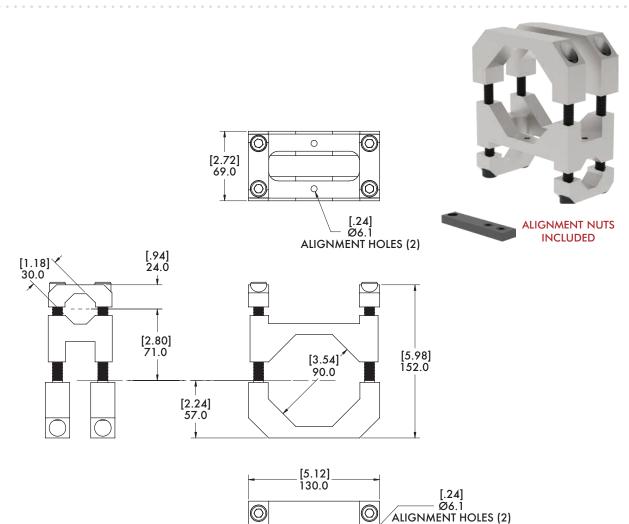
#### **Features:**

- 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





0 0

Model Number	Weight
M-30B-90B-M	1.78 kg [3.93 lb]

0

0



M10 FASTENERS (8)



BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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

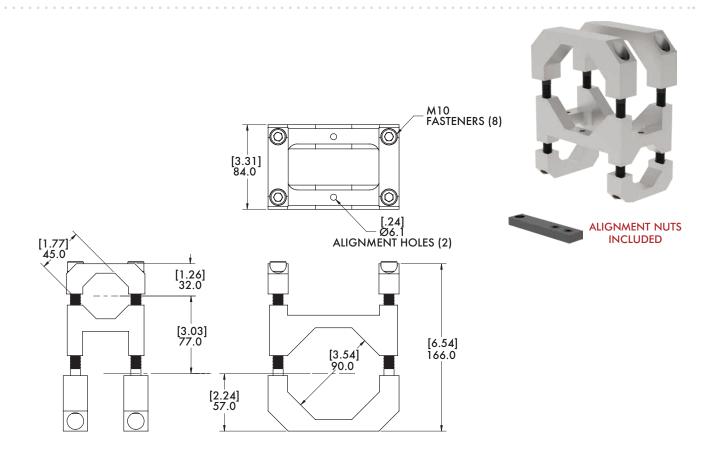


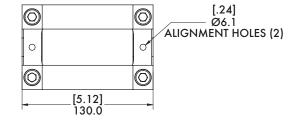
### **Specifications:**

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
 Weight

 M-45B-90B-M
 1.91 kg [4.21 lb]



BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



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

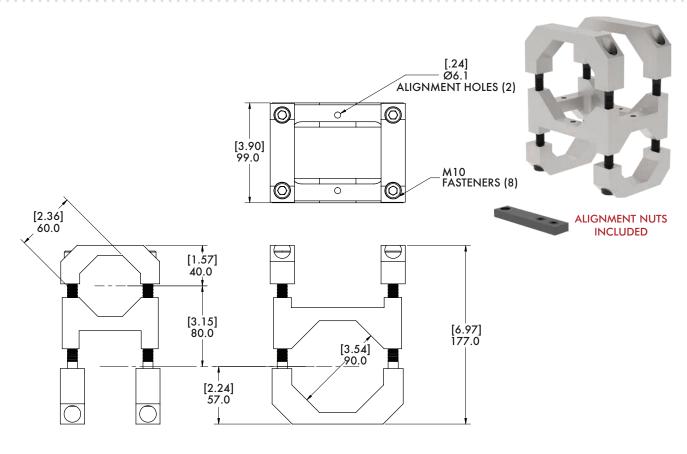
#### **Features:**

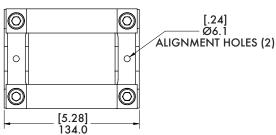
- Connects 60mm and 90mm extrusions perpendicular to each other.
- Lightweight, high-strength aluminum design.

# **Specifications:**Maximum Clamp Load:

60mm and 90mm: 746 Nm [550 ft-lb] Material: Aluminum







Model Number Weight
M-60B-90B-M 2.25 kg [4.97 lb]





BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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

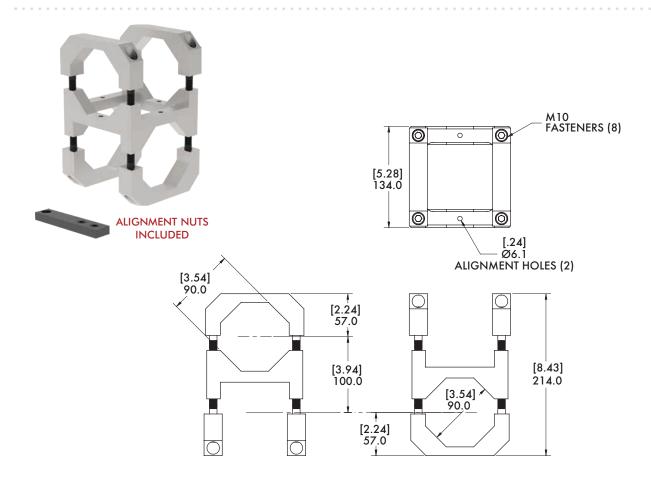


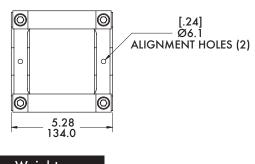
### **Specifications:**

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.





Model Number Weight
M-90B-90B-M 3.33 kg [7.34 lb]



## **BODYBUILDER™ SQUARE CLAMPS**

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

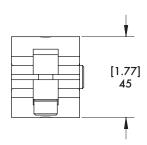


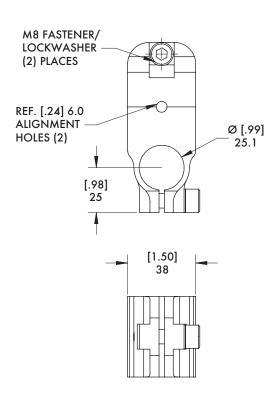
30B-25M 30mm Octagon to 25mm Round

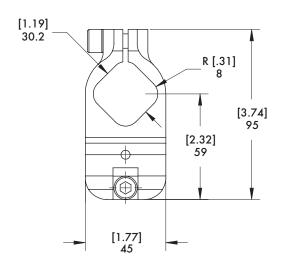
Specifications:

Max. Static Clamp Load: 407 Nm [300 ft-lb]

Material: High Strength Aluminum









Model	Num	ber
W-3U	R_25M	_ ^ ^

203g [0.45lbs]





# **BODYBUILDER™ SQUARE CLAMPS**

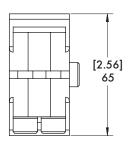
BodyBuilder™ Octagonal Tooling | Octagon to Round Transition Block Assembly

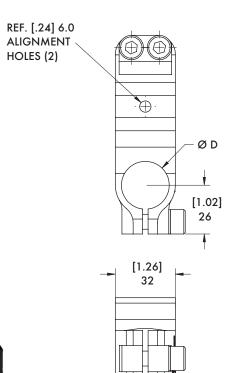
45B-25M (-10E) 45mm Octagon to 25mm or 1 in. Round

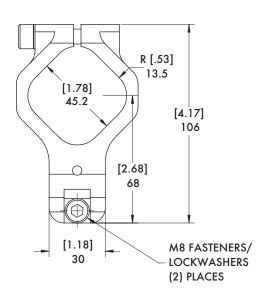
**Specifications:** 

Max. Static Clamp Load: 407 Nm [300 ft-lb]

Material: High Strength Aluminum













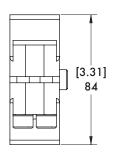
38

## **BODYBUILDER™ SQUARE CLAMPS**

BodyBuilder™ Octagonal Tooling | Octagon to Round Transition Block Assembly

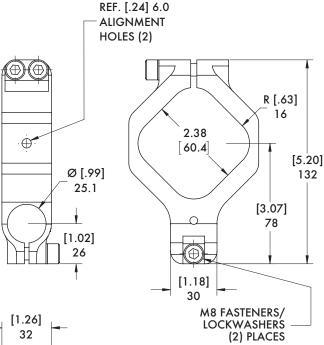


60B-25M 60mm Octagon to 25mm Round



### Specifications: Max. Static Clamp Load: 407 Nm [300 ft-lb]

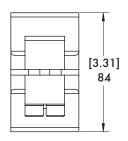
Material: High Strength Aluminum





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

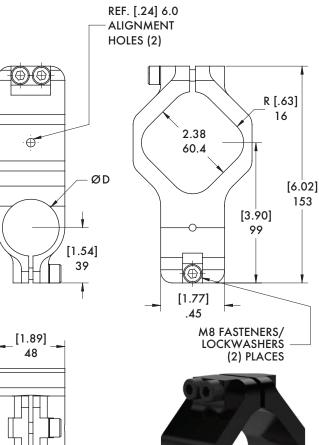
## **60B-40M (-15E)** 60mm Octagon to 40mm or 1.5 in. Round



### **Specifications:**

Max. Static Clamp Load: 813 Nm [600 ft-lb]

Material: High Strength Aluminum



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





## BODYBUILDER™ TRANSITION BRACKETS AND BLOCKS

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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



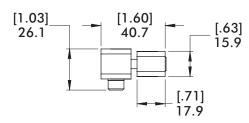
### **Features:**

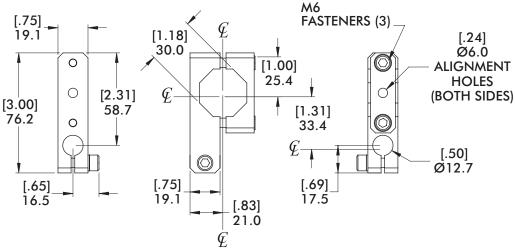
- Connects BodyBuilder<sup>™</sup> extrusion and round tubing perpendicular to each other.
- Lightweight, high-strength aluminum design.

**Specifications:** 

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







Model Number
CPI-CLM-30B-50-TR

Weight

-TR .092 kg [.20 lb]



BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



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

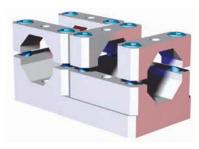
**Specifications:** 

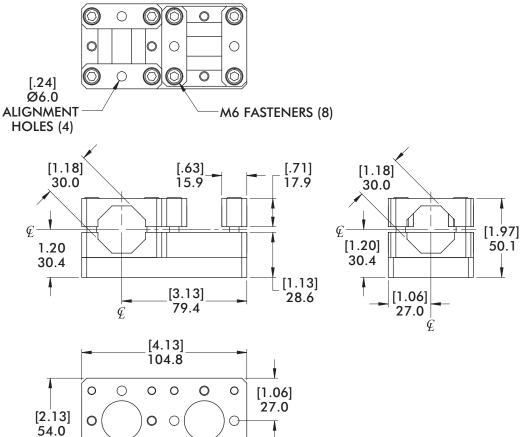
Max. Static Clamp Load: 102 Nm [75 ft-lb] Material: Aluminum

### **Features:**

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









0

0

Weight

0 0

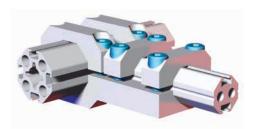


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BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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



### **Features:**

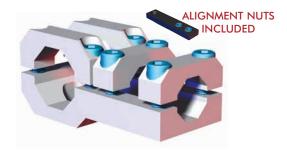
- Connects 30mm and 45mm octagon extrusion perpendicular on the same plane.
- Lightweight, high-strength aluminum design.

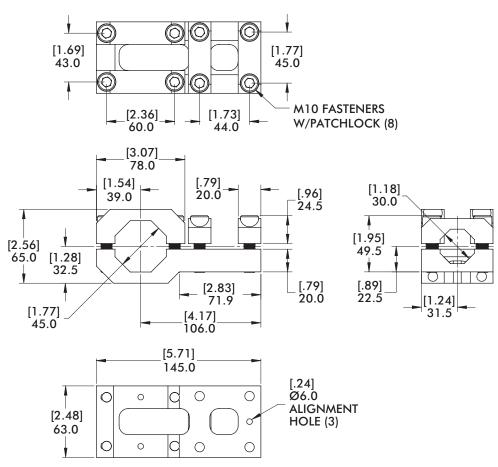
### **Specifications:**

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

Material: Aluminum







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

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



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

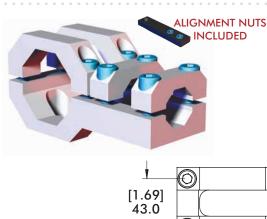
### **Specifications:**

Max. Static Clamp Load: 60mm: 746 Nm [550 ft-lb] 30mm: 271 Nm [200 ft-lb] Material: Aluminum

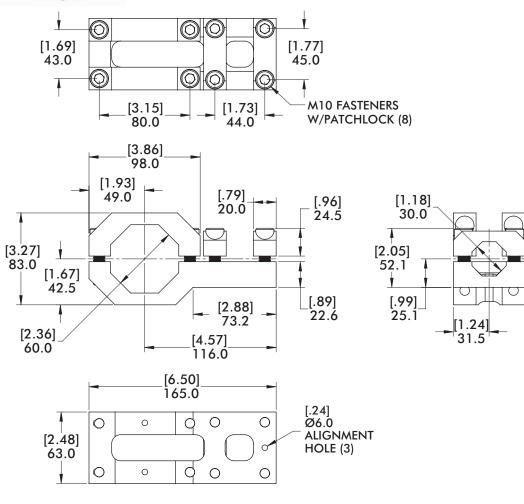
### **Features:**

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









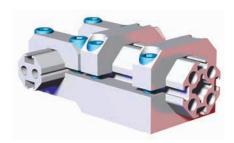






BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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



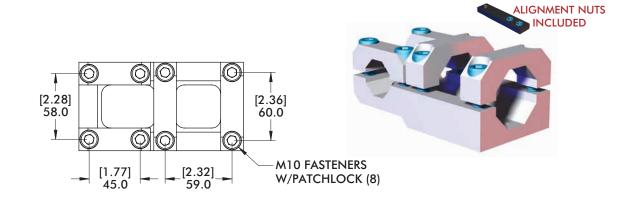
### Features:

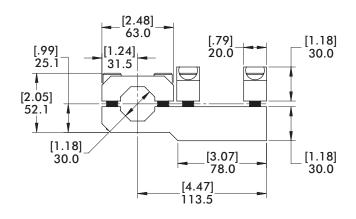
- Connects 45mm and 30mm octagon extrusion perpendicular on the same plane.
- Lightweight, high-strength aluminum design.

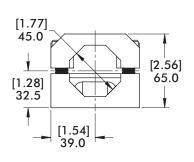
### **Specifications:**

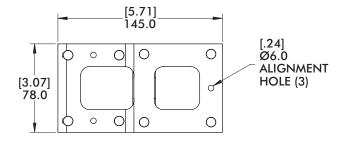
Max. Static Clamp Load: 45mm: 475 Nm [350 ft-lb] 30mm: 271 Nm [200 ft-lb]

Material: Aluminum









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



BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



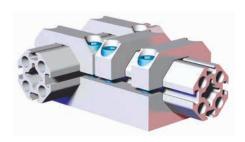
### TCA-45B-45B 45mm to 45mm Octagon T-Clamp Bracket Assembly

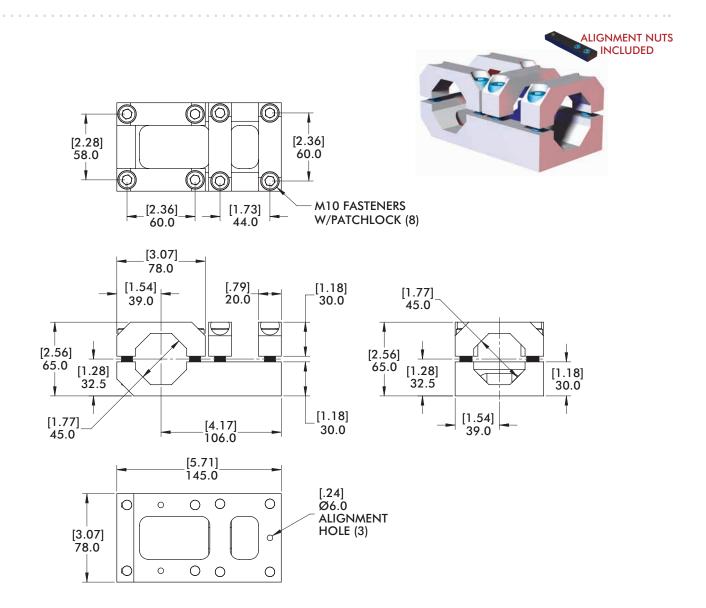
### **Specifications:**

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]	





BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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



### **Features:**

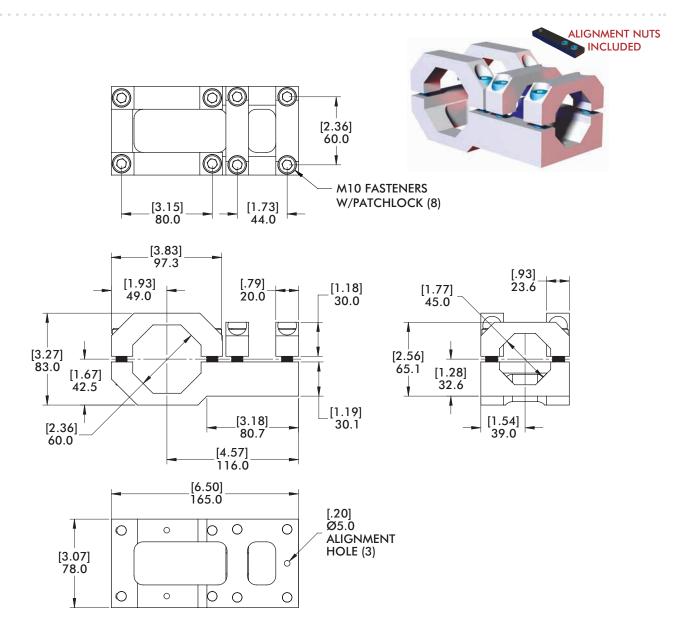
- Connects 45mm and 60mm octagon extrusion perpendicular on the same plane.
- Lightweight, high-strength aluminum design.

### **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™ Octagonal Tooling | Dimensions | Technical Specifications



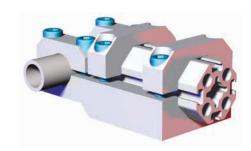
### TCA-45B-25M 45mm Octagon to 25mm Round T-Clamp Bracket Assembly

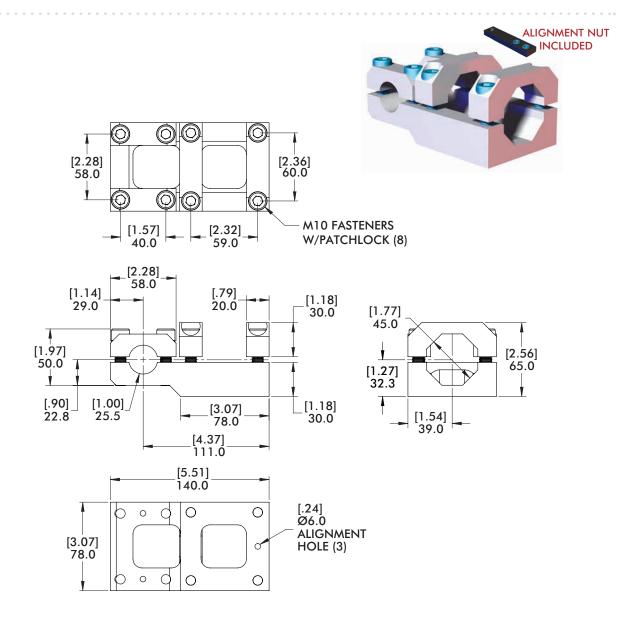
### **Specifications:**

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.





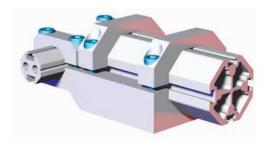
Model Number Weight
CPI-TCA-45B-25M .89 kg [1.97lb]





BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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



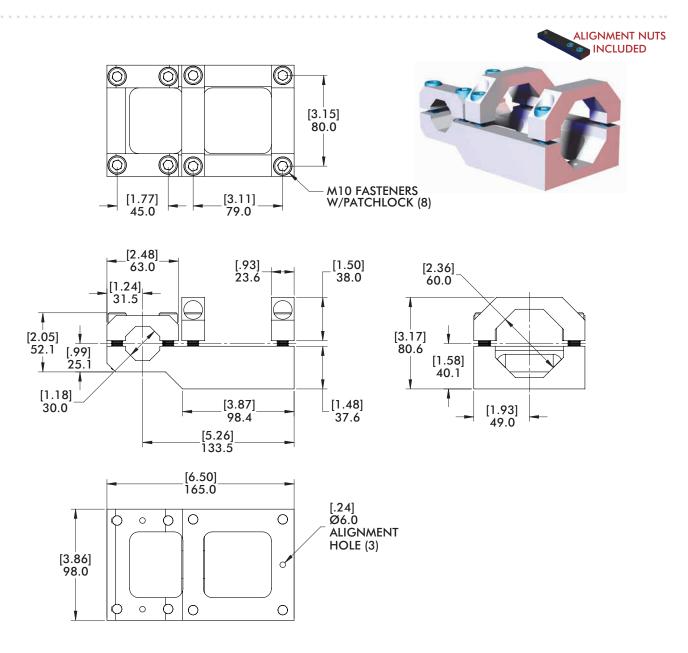
### **Features:**

- 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





Weight

1.32 kg [2.91 lb]

Model Number

CPI-TCA-60B-30B

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



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

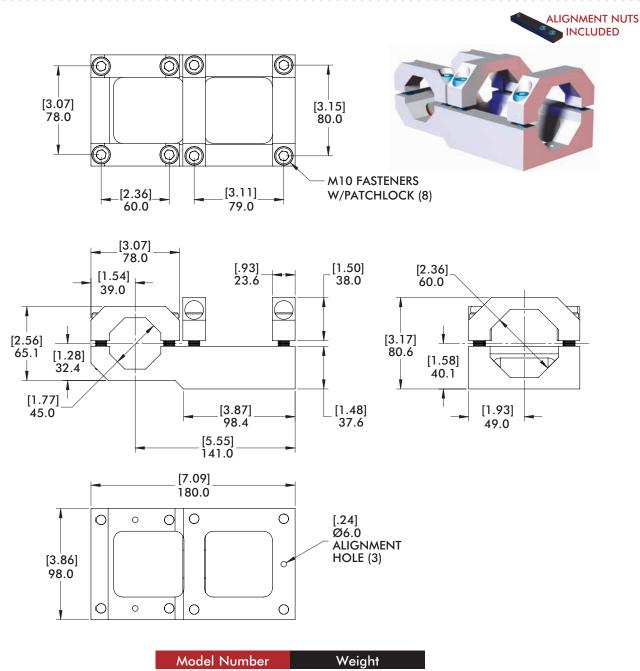
### **Specifications:**

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.





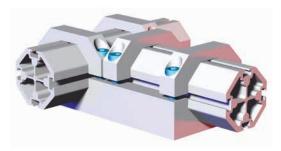






BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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

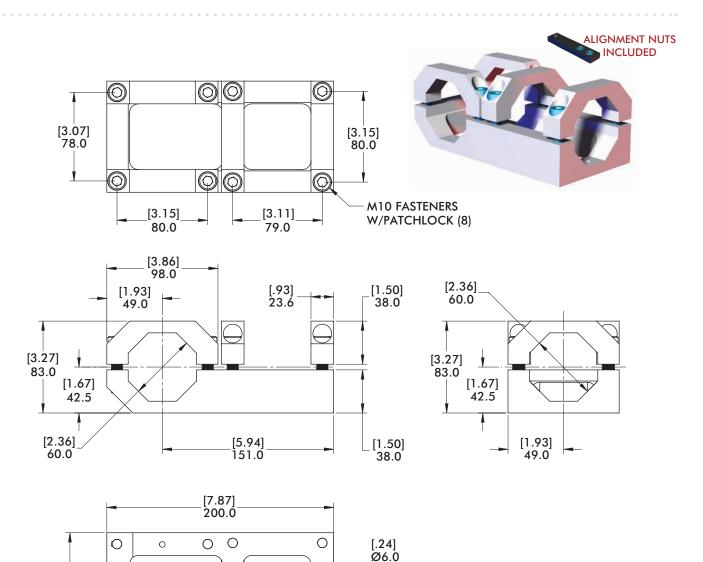


### **Features:**

- 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





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**ALIGNMENT** 

HOLE (3)

0

0 0

[3.86]

98.0

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



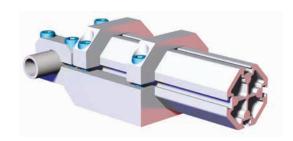
### TCA-60B-25M 60mm Octagon to 25mm Round T-Clamp Bracket Assembly

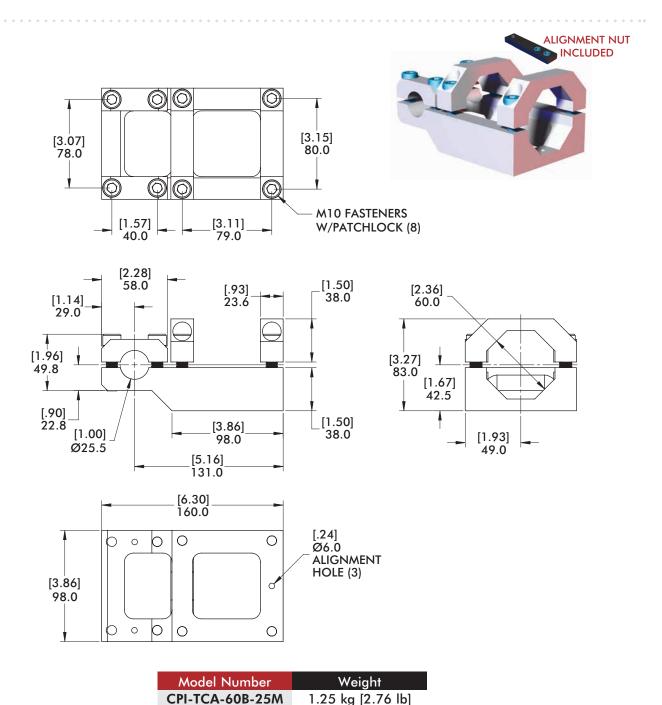
### **Specifications:**

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.









BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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.

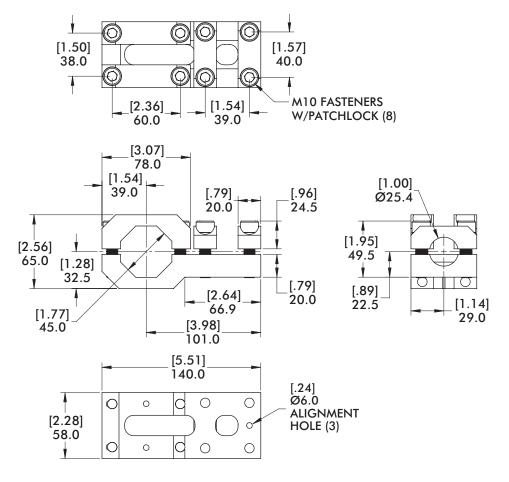
### **Specifications:**

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

Material: Aluminum







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

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

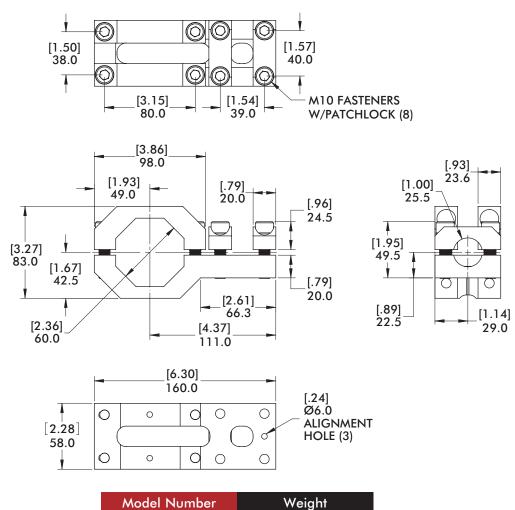
### **Features:**

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









.85 kg [1.87 lb]



CPI-TCA-25M-60B



# **BODYBUILDER™ ELBOWS**

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

45° Angular Boom Clamp Brackets



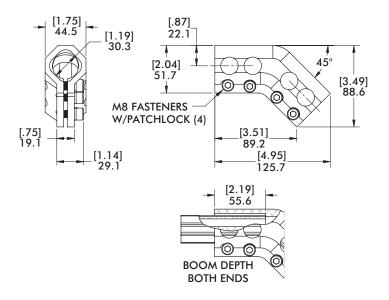
### **Features:**

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

## **Specifications:**

Material: Aluminum

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



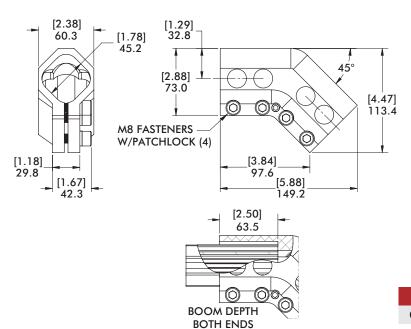
### Specifications: Max. Static Clamp Load: 271Nm [200 ft-lb]



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

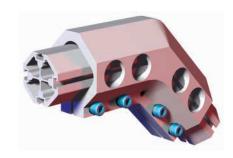
Specifications:
Max. Static Clamp Load:

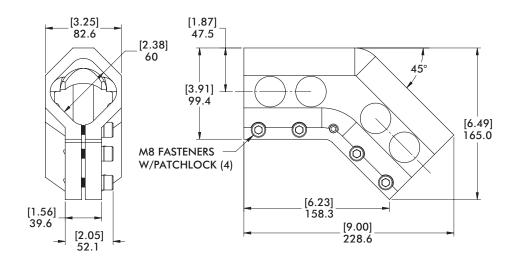
746 Nm [550 ft-lb]

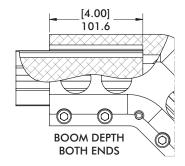
Material: Aluminum

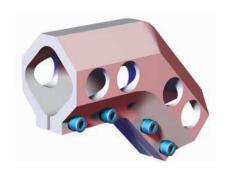
### **Features:**

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









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





## BODYBUILDER™ MID FLANGE CLAMPS

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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

### **Features:**

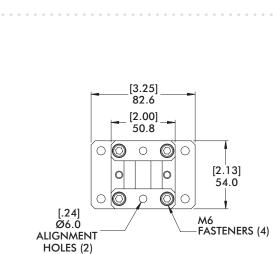
Mounts 30mm extrusion parallel to the mounting surface.

 Can be used as robot interface when quick-change connector is not required.

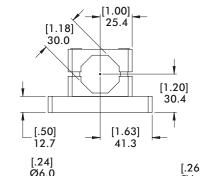
## **Specifications:**

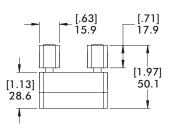
Max. Static Clamp Load: 102 Nm [75 ft-lb]

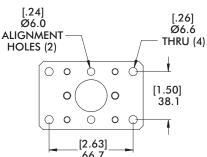
Material: Cast Aluminum











Model Number CPI-CLM-30B-152F-90

Weight 0.28 kg [.61 lb]



## **BODYBUILDER™ MID FLANGE CLAMPS**

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



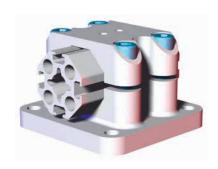
## TBC-45 45mm Mid Flange Clamp Mount

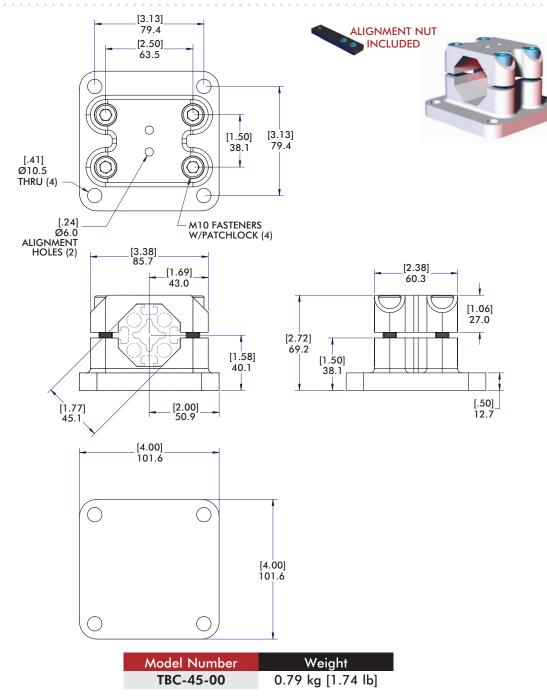
### **Specifications:**

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.





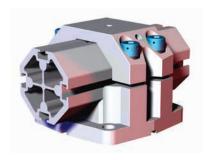




# **BODYBUILDER™ MID FLANGE CLAMPS**

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

TBC-60 60mm Mid Flange Clamp Mount



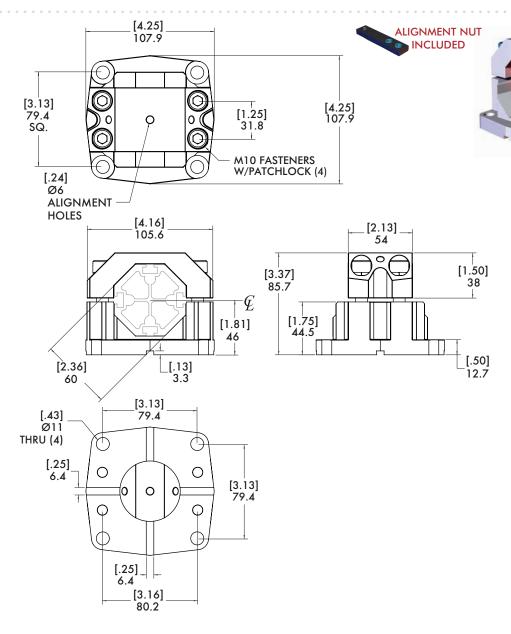
### **Features:**

- 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

nterface plate.



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

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



58

## BODYBUILDER™ END FLANGE CLAMPS

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



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

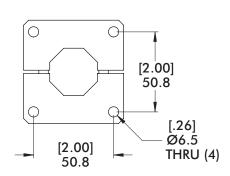
**Specifications:** 

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

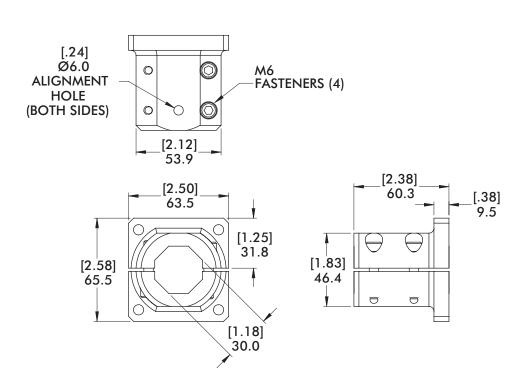
#### **Features:**

- 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]

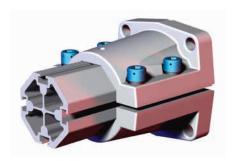




## **BODYBUILDER™ END FLANGE CLAMPS**

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

BECC-60 60mm End Flange Clamp Mount



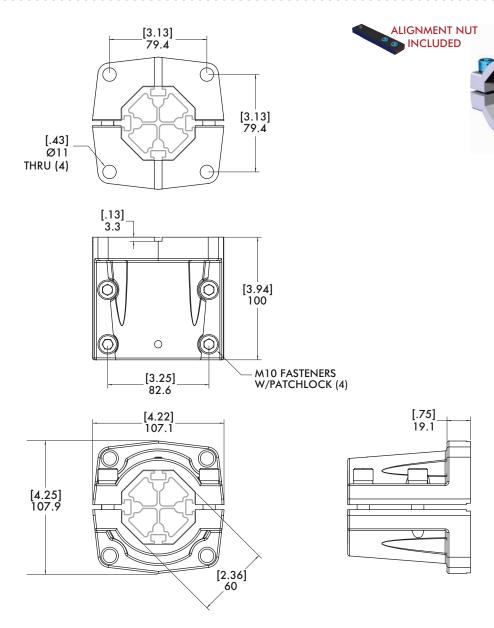
### **Features:**

- Mounts 60mm extrusion 90° to the mounting surface.
- Can be used as robot interface when quick-change connector is not required.
- and key mechanism.

### **Specifications:**

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

Cross-key design provides added strength for high-torque applications when used in conjunction with a slot



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

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



BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



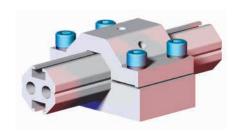
## **TPM-30** 30mm Accessory Mounting Bracket

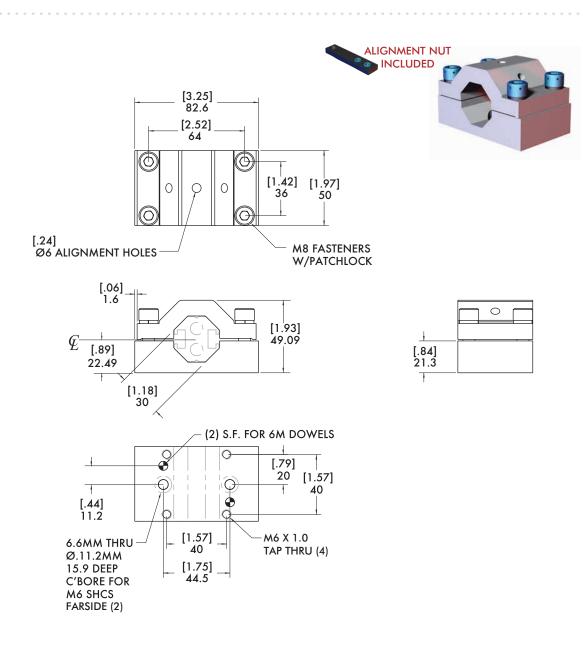
**Specifications:** 

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

### **Features:**

 Provides a secure attachment point for clamps and pin locators.





Model Number	Weight		
TPM-30	.36 kg [.80 lb]		





BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

TPM(S)-45 45mm Accessory Mounting Bracket



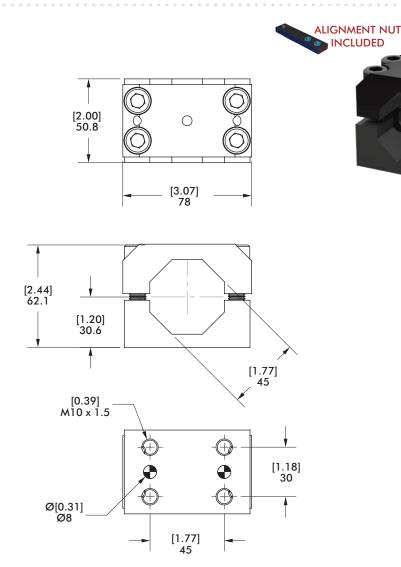
### **Features:**

- 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™ Octagonal Tooling | Dimensions | Technical Specifications



TPMS-60 60mm Accessory Mounting Bracket.

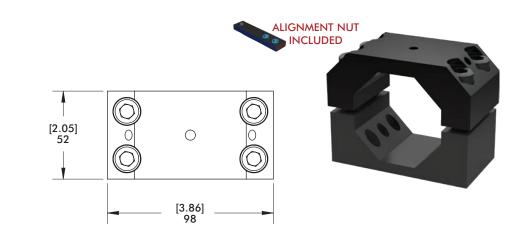
**Specifications:** 

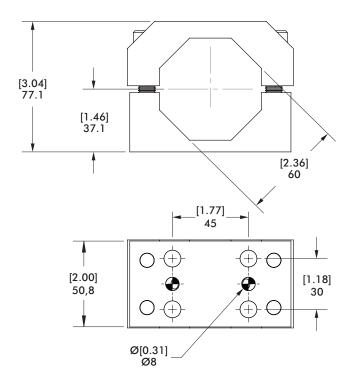
Max. Static Clamp Load: 746 Nm [550 ft-lb] Material: Steel

### **Features:**

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







Model Number	Weight
TPMS-60	1.3 kg [2.90 lb]





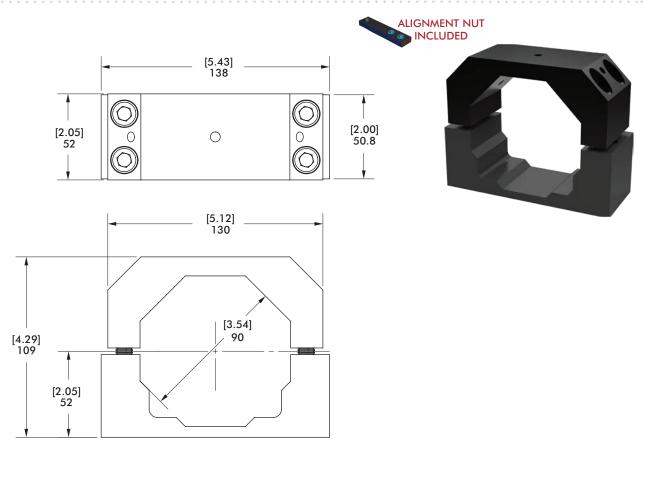
BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

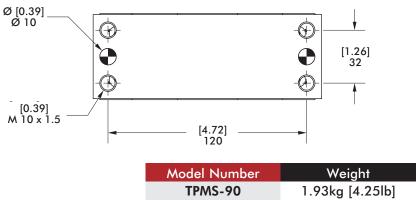
**TPMS-90** 90mm Accessory Mounting Bracket

## Features:

 Provides a secure attachment point for clamps and pin locators. Specifications:
Max. Static Clamp Load:
746 Nm [550 ft-lb]
Material: Steel









## **BODYBUILDER™ GRIPPER MOUNTS**

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



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

**Specifications:** 

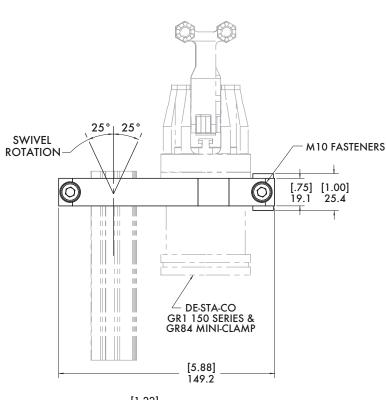
Max. Static Clamp Load: 271 Nm [200 ft-lb] Material:

Body: Aluminum Swivel Ball: Steel

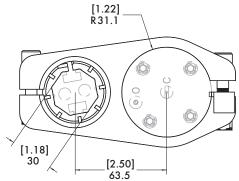
### **Features:**

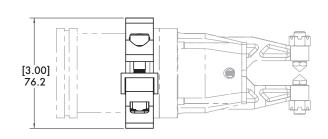
- Removable grip mount lock allows gripper to be adjusted while continuing to holding it in place.
- Swivel ball allows for ±25° adjustment of swivel rotation.











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





## **BODYBUILDER™ GRIPPER MOUNTS**

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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



### **Features:**

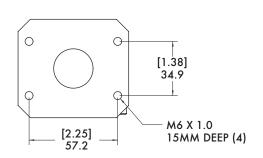
 Swivel ball allows for ±25° adjustment of swivel rotation. Specifications:
Max. Static Clamp Load:

271 Nm [200 ft-lb]
Material:

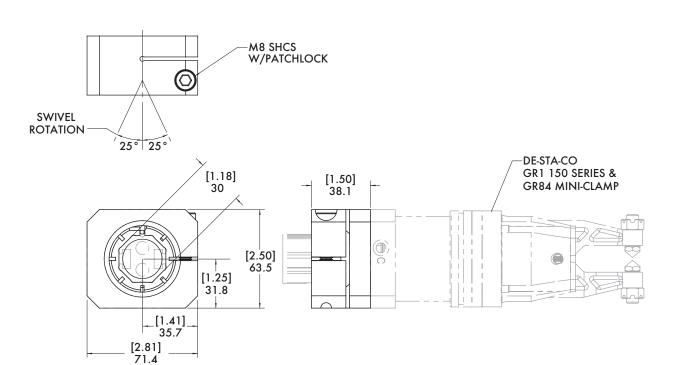
Housing:

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:

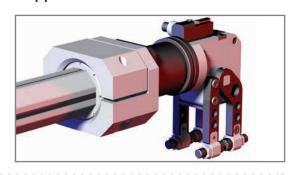
Housing:

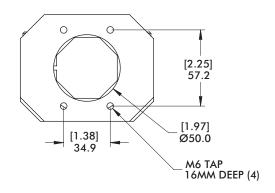
Machined Aluminum

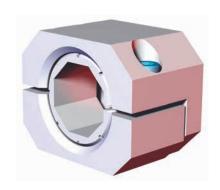
Swivel: Steel

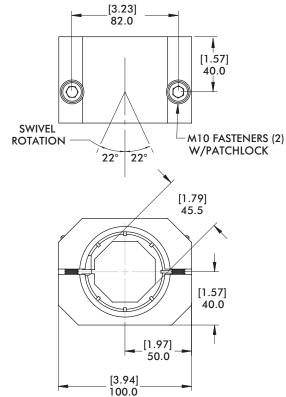
### **Features:**

 Swivel ball allows for ±22° adjustment of swivel rotation.

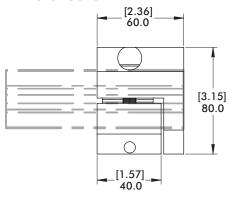








TO USE AS A FIXED MOUNT **INSERT BOOM COMPLETELY UNTIL IT COMES INTO CONTACT WITH GRIPPER** FOR SWIVEL OPTION INSERT BOOM 40 MM [1.57 IN] OR UNTIL BOOM IS INSERTED **ENOUGH TO ALLOW** ROTATION WITHOUT **OBSTRUCTION** 



Model Number Weight CPI-RJM-150-45BBS 1.23 kg [2.71 lb]



BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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



### **Features:**

- Mounts to BodyBuilder<sup>™</sup> 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:

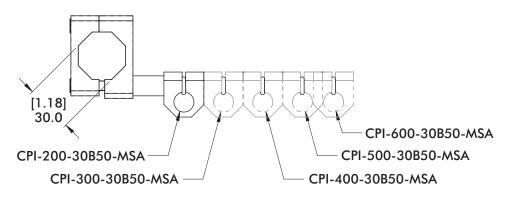
Body:

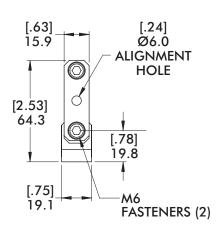
Cast Aluminum

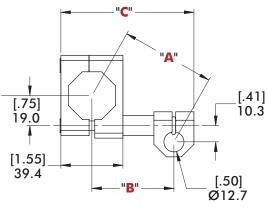
Insert:

Machined Aluminum









CPI- <u>L</u> -30B50-MSA SWIVEL ARM				
" <u>L</u> "	"A"	"B"	"C"	Weight
200	59.8	52.1	84.5	.10 kg
	[2.35]	[2.05]	[3.33]	[.22 lb]
300	82.6	77.2	109.6	.11 kg
	[3.25]	[3.04]	[4.32]	[.24 lb]
400	106.2	102.1	134.5	.12 kg
	[4.18]	[4.02]	[5.30]	[.26 lb]
500	130.6	127.3	159.7	.13 kg
	[5.14]	[5.01]	[6.29]	[.29 lb]
600	150.0	147.1	179.5	.14 kg
	[5.90]	[5.79]	[7.07]	[1.72 lb]







## 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

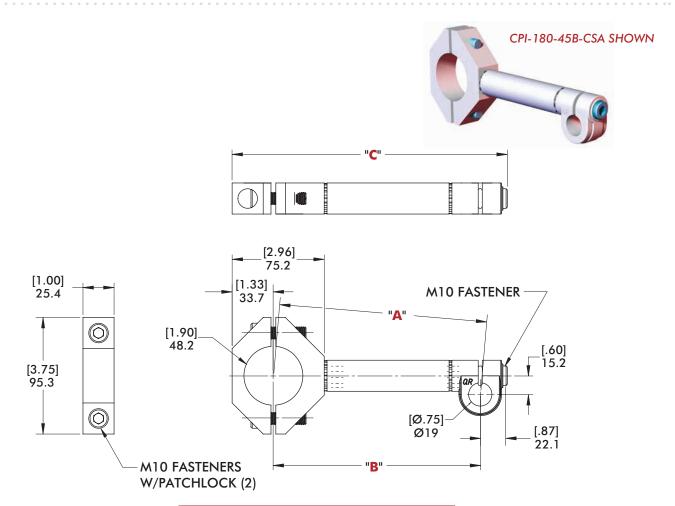
Insert:

Machined Aluminum

### Features:

- Mounts to BodyBuilder<sup>™</sup> 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-" L "-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]





BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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



### Features:

- Mounts to BodyBuilder<sup>™</sup> 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:**

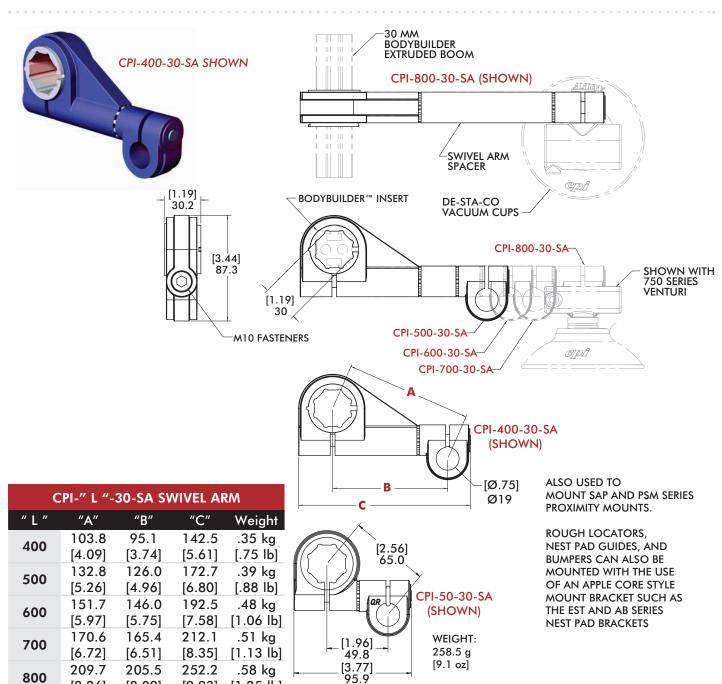
Max. Static Clamp Load: 271 Nm [200 ft-lb] Material:

Body:

Cast Aluminum

Insert:

Machined Aluminum





[9.93]

[1.25 lb]

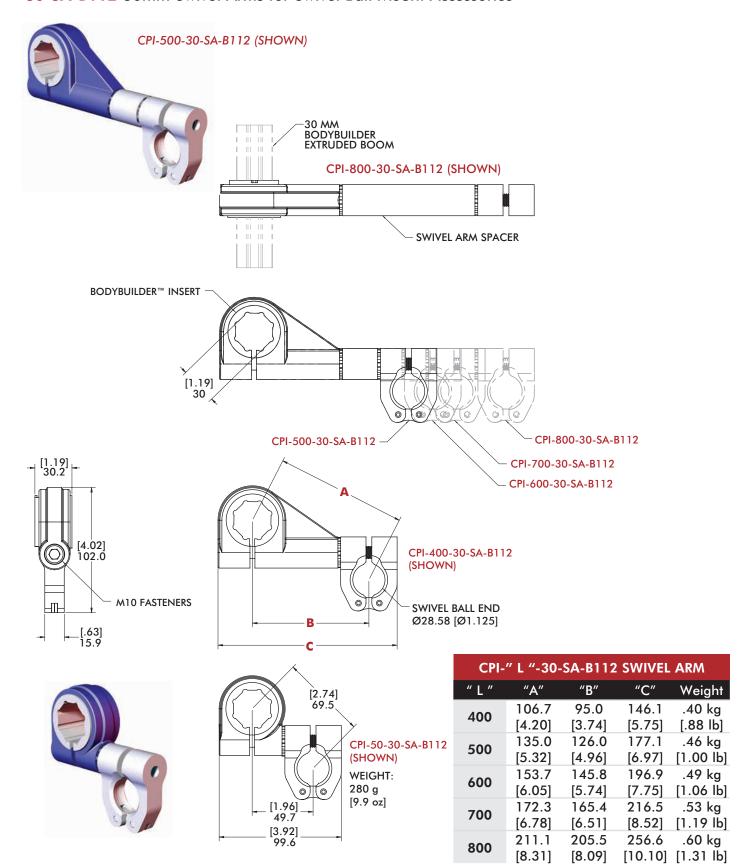
[8.09]

[8.26]

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



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





## **BODYBUILDER™ SWIVEL ARM ACCESSORIES**

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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



### **Features:**

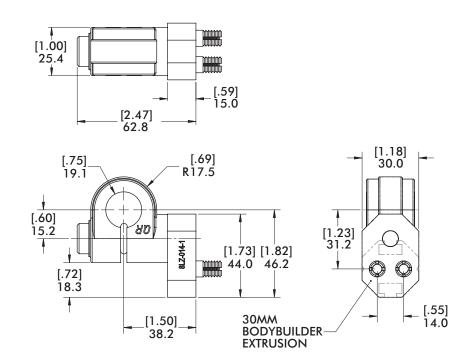
- Mounts to BodyBuilder<sup>™</sup> 30mm extrusion boom.
- One bolt design for easy assembly and adjustment, allowing accessories to be repositioned easily.
- Provides 360° of adjustment along (2) axis.

**Specifications:** Material:

Aluminum

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





Model Number Weight
CPI-BC-19 .13 kg [.28 lb]



# **BODYBUILDER™ SWIVEL ARM ACCESSORIES**

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



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

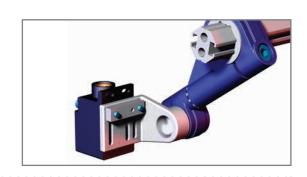
**Specifications:** 

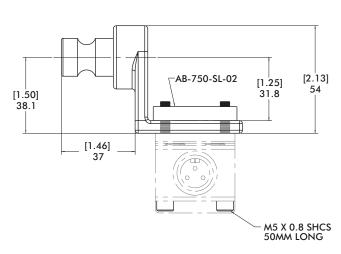
Max. Static Clamp Load: 271 Nm [200 ft-lb] Material:

**Aluminum** 

### **Features:**

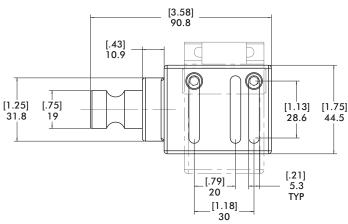
- Mounts a 40mm square proximity sensor to the BodyBuilder<sup>™</sup> 30mm Swivel Arm (CPI-"L"-30-SA).
- Mount allows for 360 degrees of radial adjustment along one axis.
- Slots allows 28.6mm [1.13 in] of linear adjustment for fine tuning during final setup.

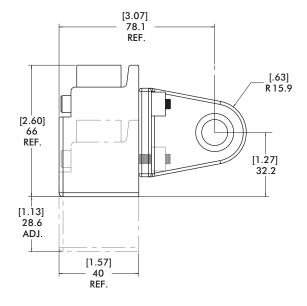






FASTENERS AND NUT INCLUDED





Model Number Weight
CPI-AB-750-SL .10 KG [.22 lb]

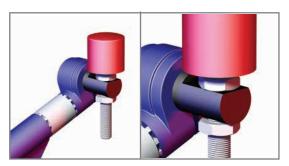




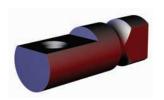
## **BODYBUILDER™ SWIVEL ARM ACCESSORIES**

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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

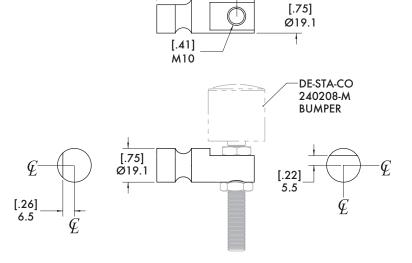


Specifications:
Max. Static Clamp Load:
271 Nm [200 ft-lb]
Material:
Steel



Model Number CPI-SAP-BM10

Weight .10 kg [.21 lb]



[2.17] 55

[1.77] 45

