# **BODYBUILDER™ TOOLING EXAMPLES**

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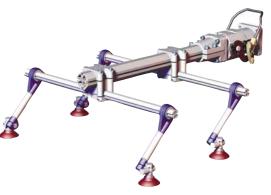


# **BODYBUILDER™ TOOLING EXAMPLES**

BodyBuilder™ Octagonal Tooling | Typical Application Build Examples







End Mount with Venturi Cup
Mounts and Vacuum Cups



End Mount with GR84 Series Mini Clamp



Mid Mount with 82M50 Enclosed Power Clamps



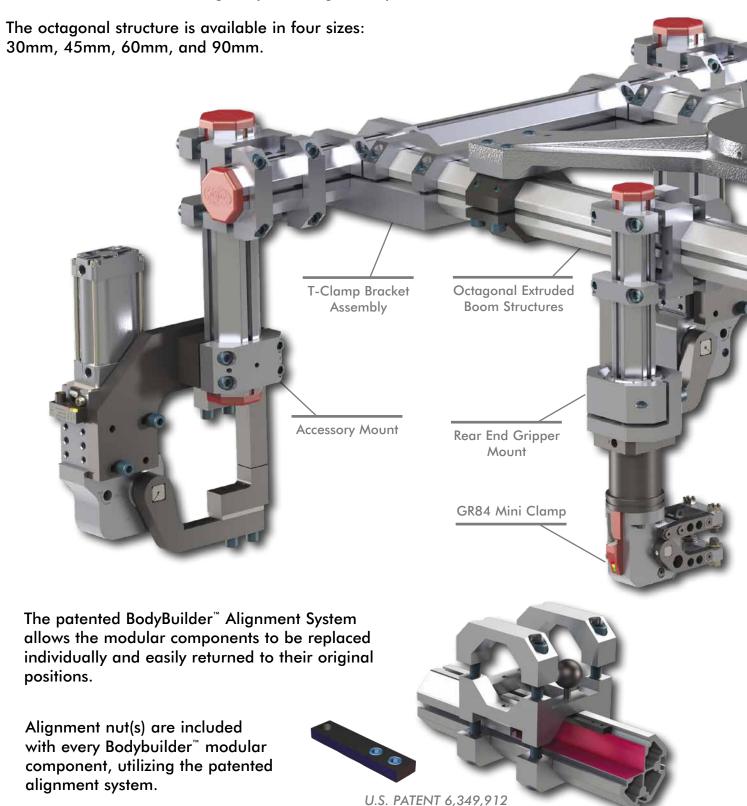


### **BODYBUILDER™ END EFFECTOR SYSTEM**





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.

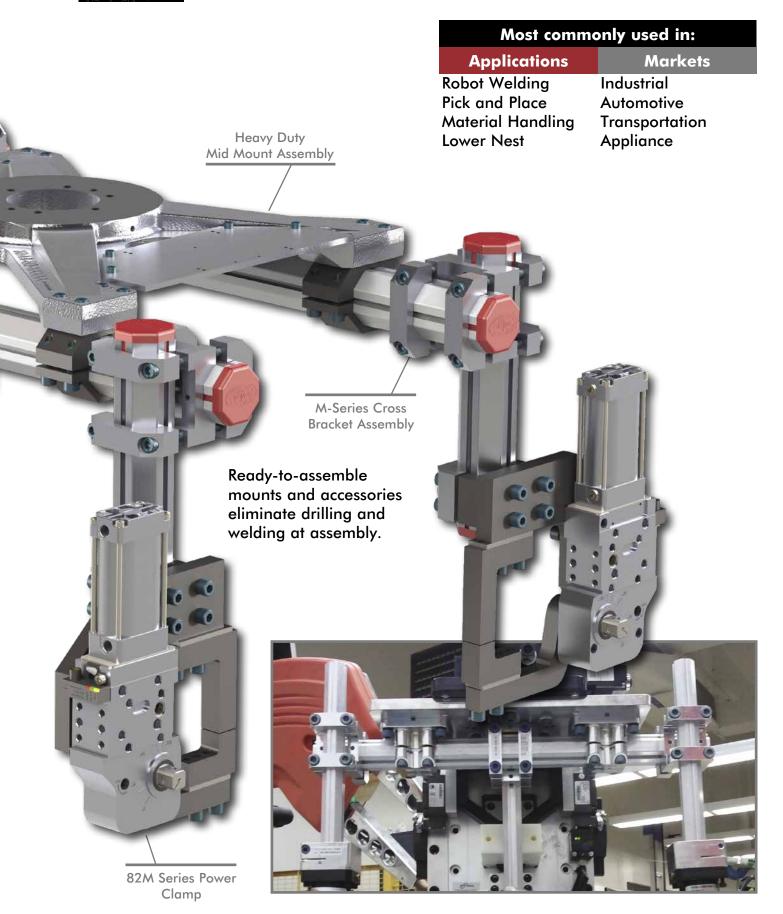






# **BODYBUILDER™ END EFFECTOR SYSTEM**

**Product Overview** 



BodyBuilder™ Octagonal Tooling | Dimensions

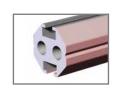


### 30, 45, 60, and 90mm Boom Lengths and Ordering Numbers

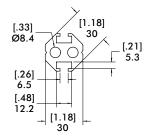
BODYBUILDER** OCTAGONAL ALUMINUM BOOM LENGTHS & ORDER NUMBERS				
(L) Length	B - 30 - (L) - 0	B - 45 - (L) - 0	B - 60 - (L) - 0	B - 90 - (L) - 0
150 mm	B - 30 - 150 - 0	B - 45 - 150 - 0	B - 60 - 150 - 0	N/A
200 mm	B - 30 - 200 - 0	B - 45 - 200 - 0	B - 60 - 200 - 0	N/A
250 mm	B - 30 - 250 - 0	B - 45 - 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









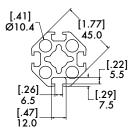


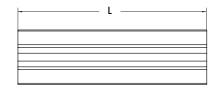
BodyBuilder™ Octagonal Tooling | Dimensions

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

### BodyBuilder™ 45mm Boom







Model Number

Weight

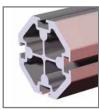
B - 45 - (L) - 0

Model N

B - 60 - (L) - 0

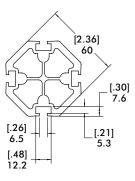
2.0 kg/m [1.4 lb/ft]

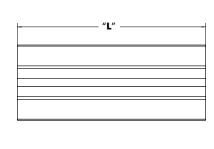
### BodyBuilder™ 60mm Boom



lumber	Weight

3.3 kg/m [2.2 lb/ft]

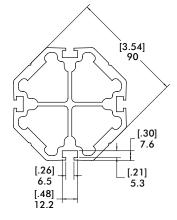


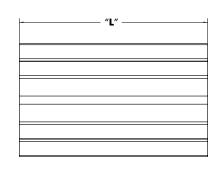


### BodyBuilder™ 90mm Boom



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

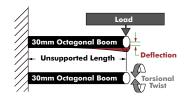




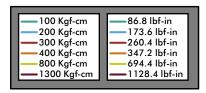
### BodyBuilder™ Octagonal Tooling | Technical Specifications



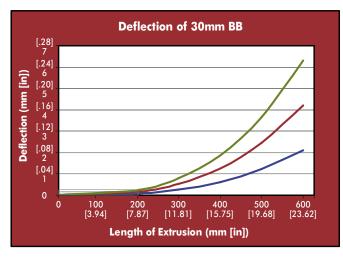
#### **30mm Boom** Deflection and Torsion Charts

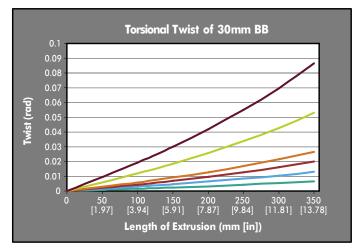




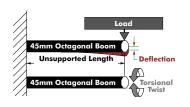


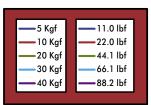


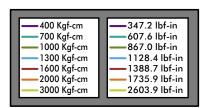




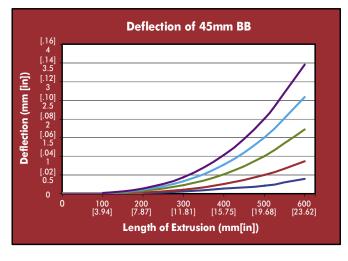
#### 45mm Boom Deflection and Torsion Charts

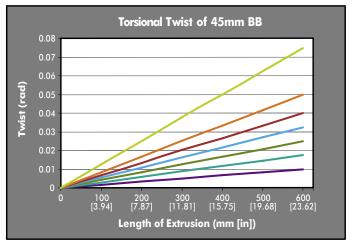












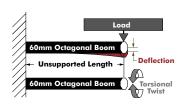
Note: Performance may vary if used with non-DESTACO components

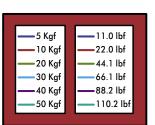


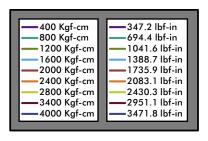


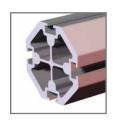
BodyBuilder™ Octagonal Tooling | Technical Specifications

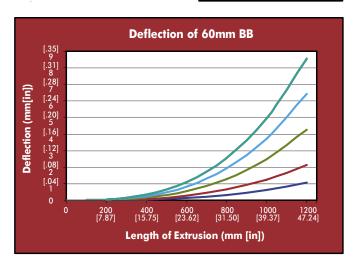
60mm Boom Deflection and Torsion Charts

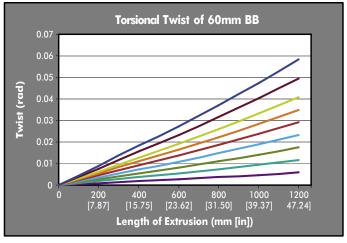




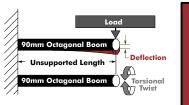


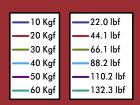


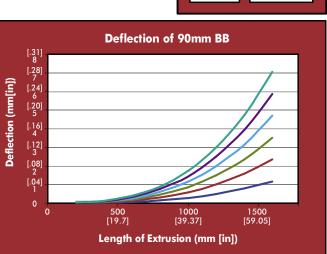


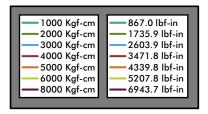


#### 90mm Boom Deflection and Torsion Charts

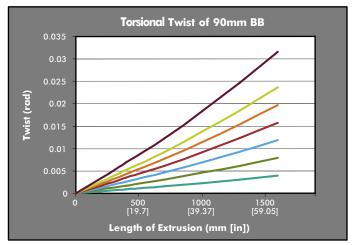












Note: Performance may vary if used with non-DESTACO components

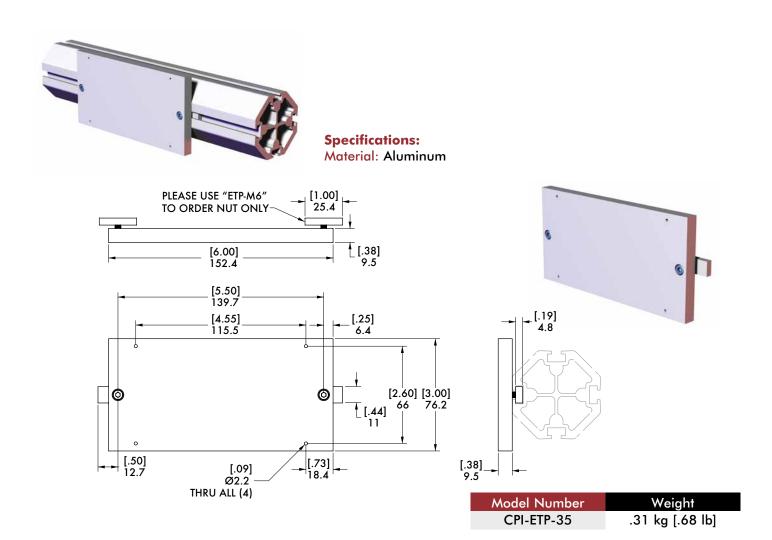


## **BODYBUILDER™ BOOM STRUCTURE ACCESSORIES**

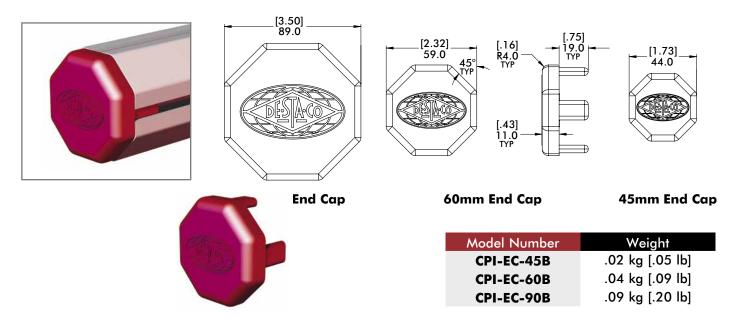
BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



**ETP-35** Extrusion Accessory Mount



### 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

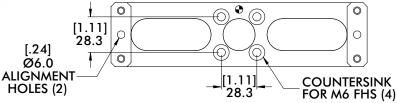


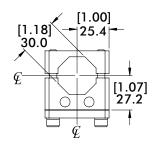
#### **Specifications:**

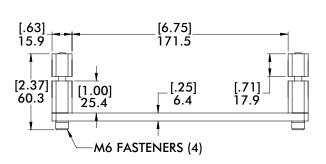
Max. Static Product Load: 102 Nm [75 ft-lb]

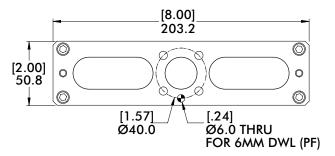
Material: Aluminum











Model Number

Weight

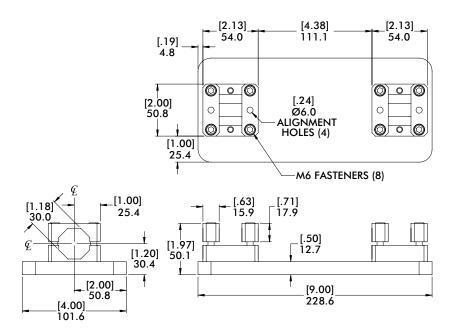
CPI-RMM-30B-40BC-08-90

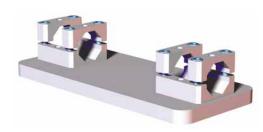
.28 kg [.62 lb]



BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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



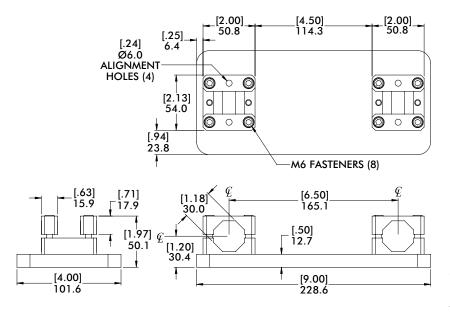


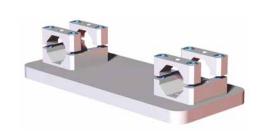
#### **Specifications:**

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

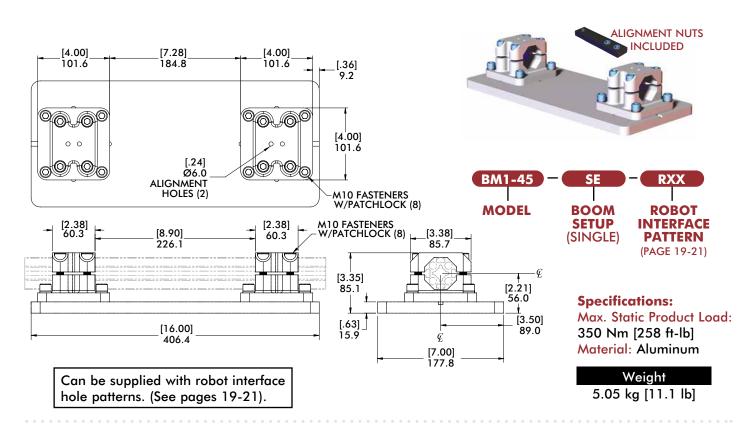
Model Number	Weight
CPI-RMM-30B-DE	1.05 kg [2.31 lb]



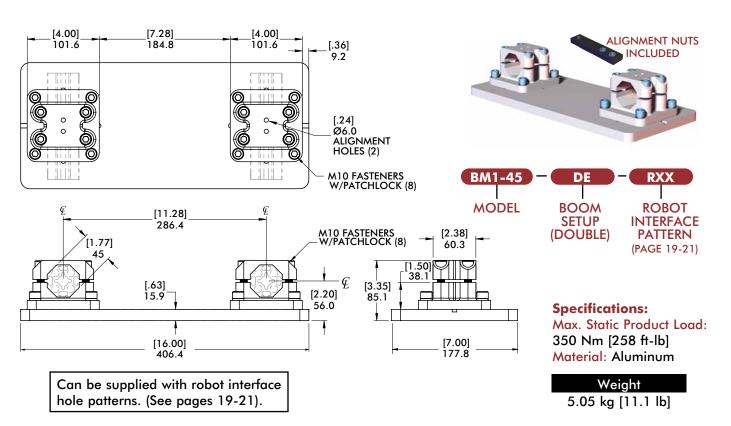


BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

BM1-45-SE Single Extrusion 45mm Mid Mount



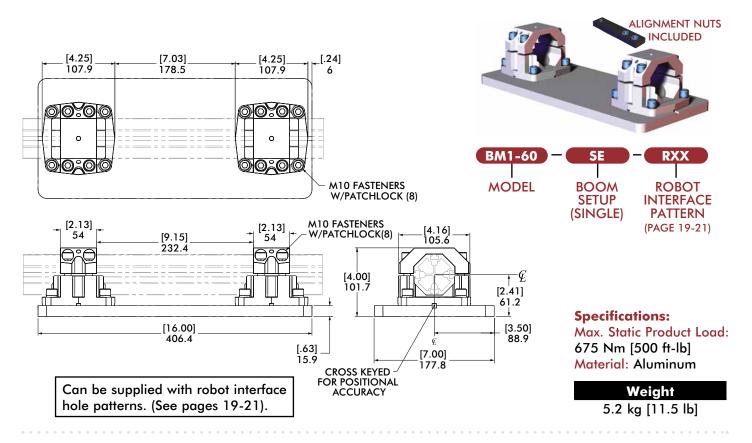
BM1-45-DE Double Extrusion 45mm Mid Mount



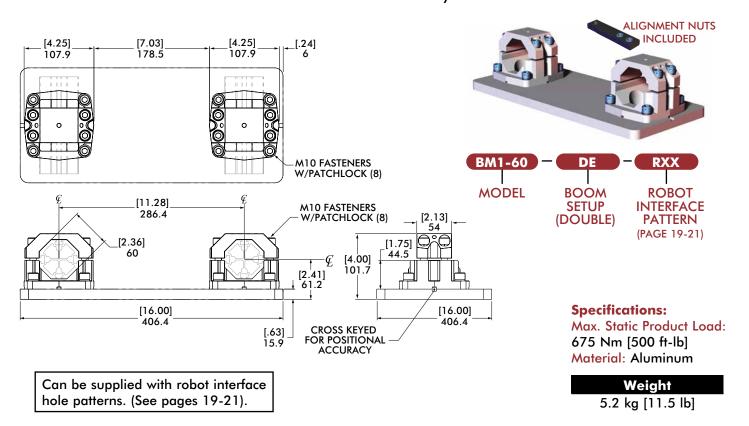




BM1-60-SE 60mm Single Extrusion Mid Mount Assembly



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

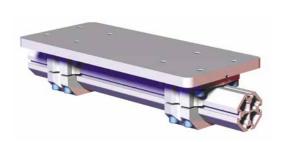






BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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

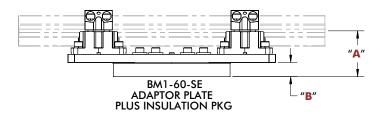


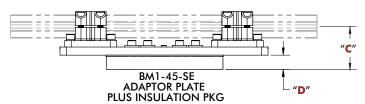
**Specifications:**Material: Aluminum

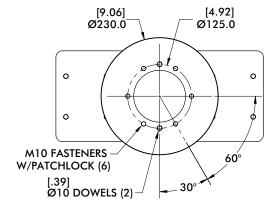
#### **Features:**

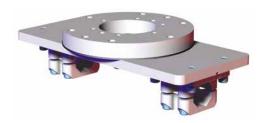
- · Can be machined or left blank.
- Can be supplied with robot interface hole patterns. (See pages 19-21).

### 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:**

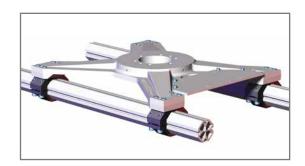
- Can be used as a direct robot interface.
- Provide robust clamping of each extrusion for maximum stability.
- Standard robot interface patterns provided. Plate can also be left blank.

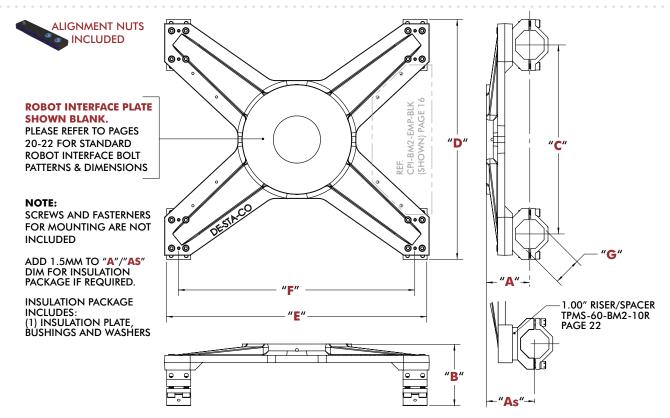
#### **Specifications:**

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

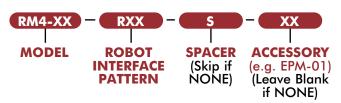
#### Material:

Mid Mount: Cast Aluminum Clamps: Steel





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





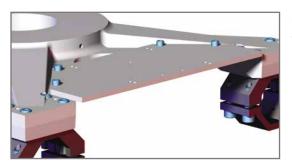




## BODYBUILDER™ MID MOUNT ACCESSORY PLATE

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

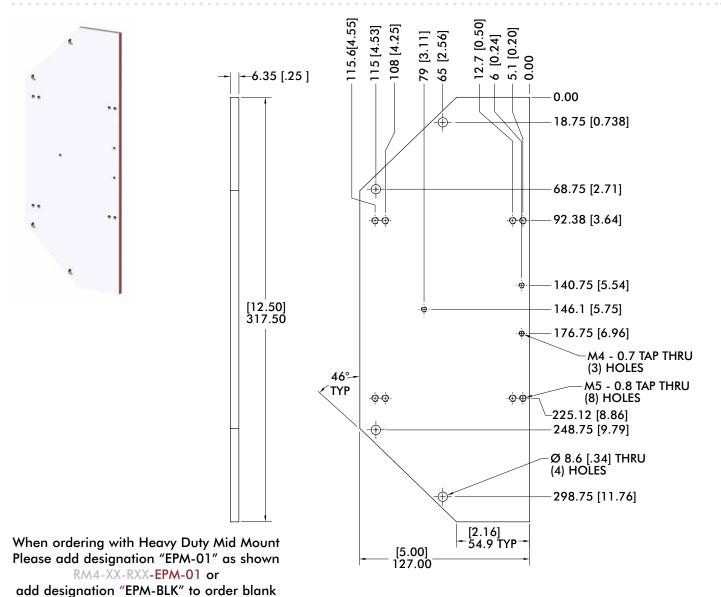
**BM2-EPM** Accessory Mount Plate



**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.



( <b>A</b> )	Pattern	Model <b>RM4-45</b> /60	Weight
EPM-01	Standard	CPI- <b>BM2</b> -EPM- <b>01</b>	42 km [1 20 lb]
FPM-BLK	Blank	CPI-BM2-FPM-BLK	.63 kg [1.39 lb]

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

### BODYBUILDER™ STRUCTURE MID MOUNT ASSEMBLIES

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

BM3-90 90mm 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.

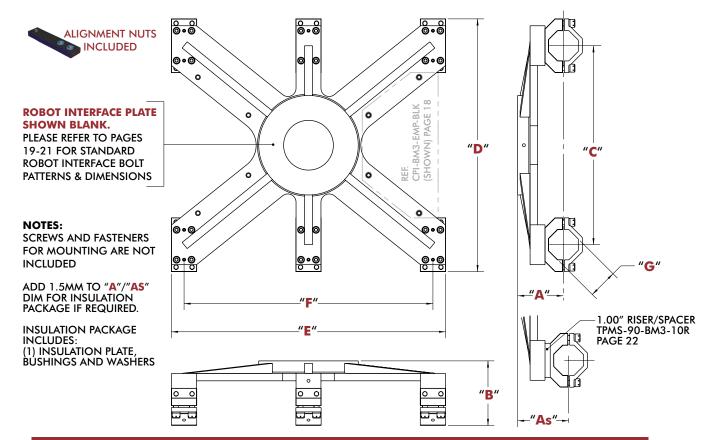
#### **Specifications:**

Max. Static Product Load: 589.7 kg [1300 lb]

#### Material:

Mid Mount: Cast Aluminum Clamps: Steel





HEAVY-DUTY MID MOUNT ASSEMBLY DIMENSIONS									
Model	"A"	"As"	"B"	"C"	"D"	"E"	"F"	"G"	Weight
BM3-90	107.8 [4.24]	133.2 [5.24]	165.3 [6.51]	600.0 [23.62]	738.0 [29.06]	750.0 [29.53]	700.0 [29.53]	90	24.1 kg [53.1 lb]



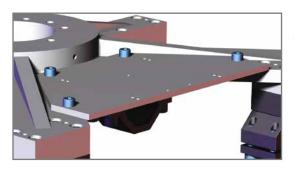




## BODYBUILDER™ MID MOUNT ACCESSORY PLATE

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

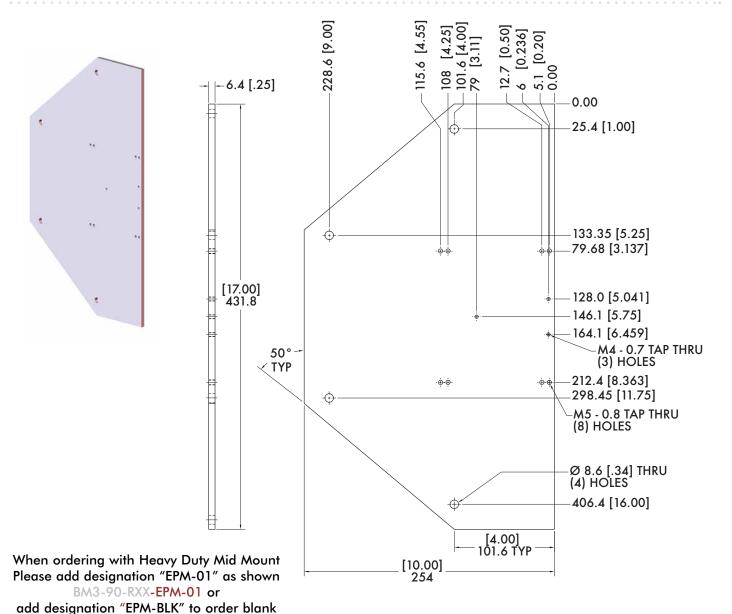
**BM3-EPM** Accessory Mount Plate



**Specifications:**Material: Aluminum

#### Features:

- Mount directly to the BM3-90 Heavy Duty Mid-Mount Assembly.
- Used to mount pneumatic manifolds and electric proximity blocks.





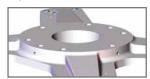
BM3-90-RXX-EPM-BLK
To order separately use Model Number

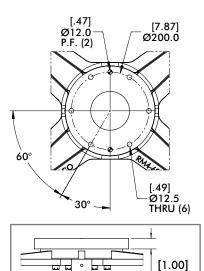
## **BODYBUILDER™ MID MOUNT BOLT PATTERNS**

BodyBuilder™ Octagonal Tooling | Robot Interface Bolt Patterns

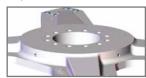


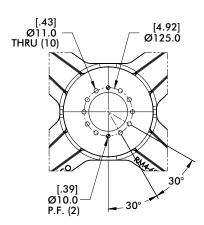
### R01 (Ø200mm Bolt Circle)





#### R02 (Ø125mm Bolt Circle)

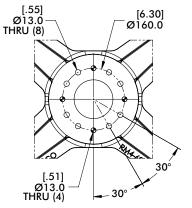




### R03 (Ø160mm Bolt Circle)



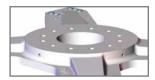
**Includes Insulation** Add 1.5mm to Height Dim "A"/"AS"

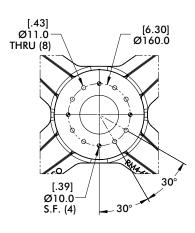


### **R04 (Ø160mm Bolt Circle)**

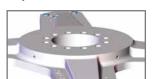
25.4

BM3-90 Adapter

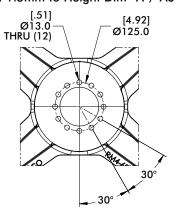




#### R05 (Ø125mm Bolt Circle)

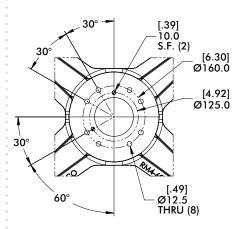


**Includes Insulation** Add 1.5mm to Height Dim "A"/"AS"



### R06 (Ø125/160mm Bolt Circle)





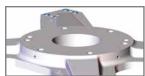


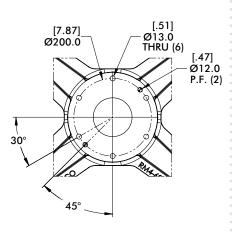


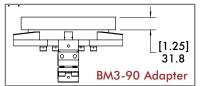
## **BODYBUILDER™ MID MOUNT BOLT PATTERNS**

BodyBuilder™ Octagonal Tooling | Robot Interface Bolt Patterns

### R07 (Ø200mm Bolt Circle)



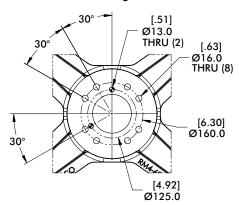




#### **R08 (Ø125/160mm Bolt Circle)**



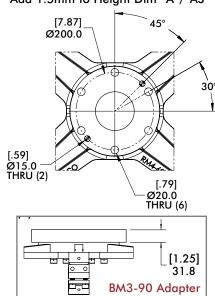
Includes Insulation
Add 1.5mm to Height Dim "A"/"AS"



### R09 (Ø200mm Bolt Circle)

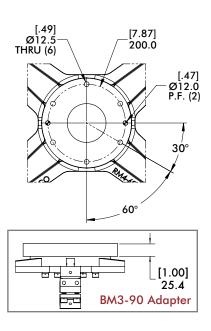


Includes Insulation
Add 1.5mm to Height Dim "A"/"AS"

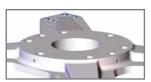


#### R10 (Ø200mm Bolt Circle)

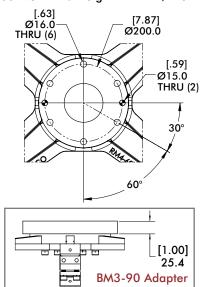




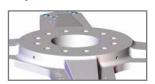
### R11 (Ø200mm Bolt Circle)



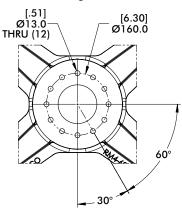
Includes Insulation
Add 1.5mm to Height Dim "A"/"AS"



### R12 (Ø160mm Bolt Circle)



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

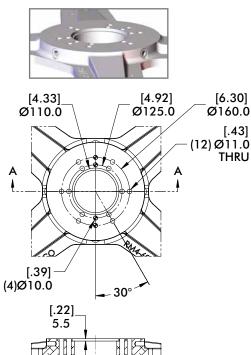


## **BODYBUILDER™ MID MOUNT BOLT PATTERNS**

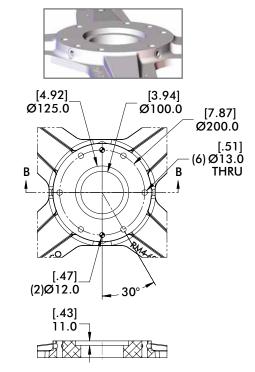
BodyBuilder™ Octagonal Tooling | Robot Interface Bolt Patterns



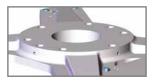
#### **R13 (Ø125/160mm Bolt Circle)** (Ø110mm Pilot, 5.5mm Deep)



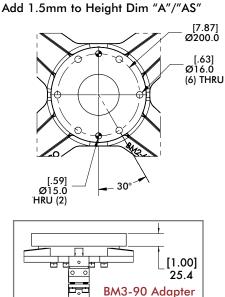
### R14 (Ø200mm Bolt Circle) (Ø125mm Pilot, 11mm Deep)



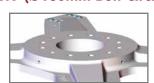
### R16 (Ø200mm Bolt Circle)

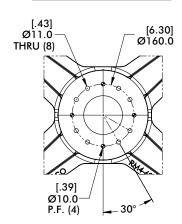


Includes Insulation



### R17 (Ø160mm Bolt Circle)





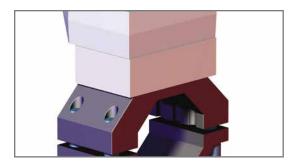




## **BODYBUILDER™ MID MOUNT RISERS**

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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





[.38] [2.36][.35]60 Ø8.8 [.59] 15 [2.00] [1.18] 50.8 30 Ø6MM S.F. (2) [3.13][.41] 79.4 10.4 [1.00] 25.4

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

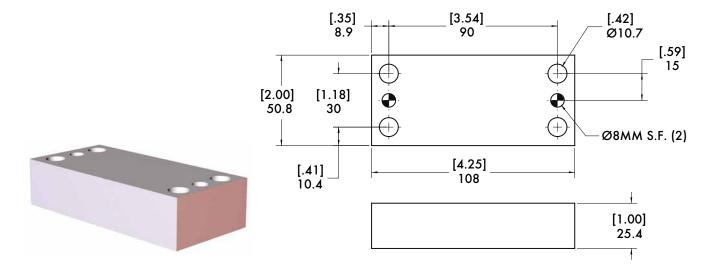
RM4-60-RXX-S

To order Riser separately use Model Number.

Riser for	Model	Weight
RM4-45/60	TPMS- <b>60-BM2</b> -10R	.26 kg [.56 lb]

Specifications:
Material: Aluminum

BM3-90 Heavy Duty Mid Mount Assembly - 1.00" Riser/Spacer



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

BM3-90-RXX-S

To order Riser separately use Model Number.

Model Number	Weight	Specifications:		
TPMS-90-BM3-10R	.34 kg [.76 lb]	Material: Aluminum		



# **BODYBUILDER™ HOLD TABLE**





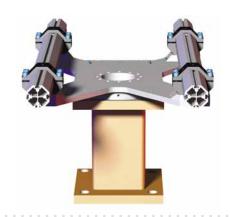
### HTW 6" SQ. Pedestal Hold Table Weldment

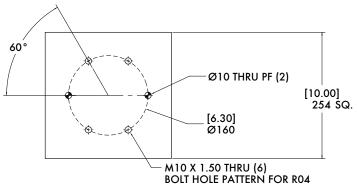
#### **Features:**

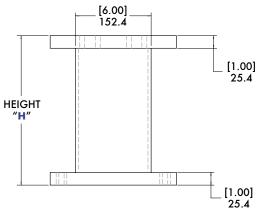
Pedestal Hold Table Weldment when used in conjunction with Mid Mount assemblies serves as a pedestal base for a robust parts nest.

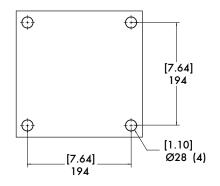
### **Specifications:**

Material: Steel











CPI-HTW-"H" HOLD TABLE WELDMENT		
"H"	Model Number	Weight
250	CPI-HTW-250	32.43 kg [71.30lb]
300	CPI-HTW-300	33.75 kg [74.40lb]
350	CPI-HTW-350	35.16 kg [77.50lb]
400	CPI-HTW-400	36.56 kg [80.60lb]
450	CPI-HTW-450	37.97 kg [83.70lb]
500	CPI-HTW-500	39.37 kg [86.81lb]
550	CPI-HTW-550	40.78 kg [89.91lb]
600	CPI-HTW-600	42.19 kg [93.01lb]
650	CPI-HTW-650	43.59 kg [96.11lb]
700	CPI-HTW-700	45.00 kg [99.21lb]
750	CPI-HTW-750	46.41 kg [102.31lb]
800	CPI-HTW-800	47.81 kg [105.41lb]
850	CPI-HTW-850	49.22 kg [108.51lb]
900	CPI-HTW-900	50.62 kg [111.61lb]





## **BODYBUILDER™ HOLD TABLE**

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

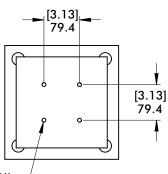
HTW-4 4" SQ. Pedestal Hold Table Weldment



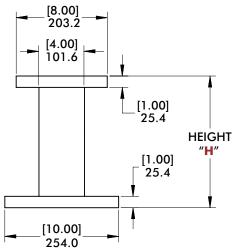
#### **Specifications:** Material: Steel

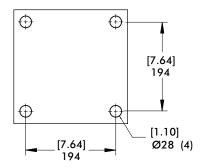
#### **Features:**

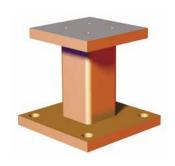
Pedestal Hold Table Weldment when used in conjunction with 45mm or 60mm flange and end mount assemblies serves as a pedestal base for a robust parts nest.



M10 X 1.50 THRU (6) HOLE PATTERN FOR **TBC-60-00** AND TBC-45-00







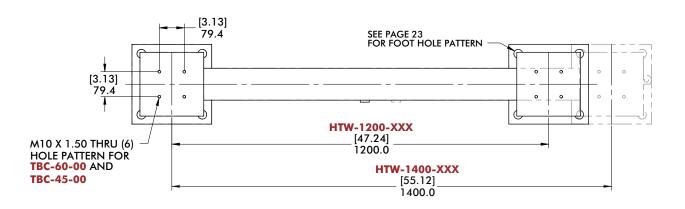
CPI-HTW-"H"-4 HOLD TABLE WELDMENT		
"H"	Model Number	Weight
250	CPI-HTW-250-4	24.02 kg [52.97lb]
300	CPI-HTW-300-4	24.93 kg [54.96lb]
350	CPI-HTW-350-4	25.83 kg [56.95lb]
400	CPI-HTW-400-4	26.73 kg [58.94lb]
450	CPI-HTW-450-4	27.63 kg [60.93lb]
500	CPI-HTW-500-4	28.54 kg [62.92lb]
550	CPI-HTW-550-4	29.44 kg [63.82lb]
600	CPI-HTW-600-4	30.35 kg [66.90lb]
650	CPI-HTW-650-4	31.25 kg [68.89lb]
700	CPI-HTW-700-4	32.15 kg [70.88lb]
750	CPI-HTW-750-4	33.05 kg [72.87lb]
800	CPI-HTW-800-4	33.96 kg [74.87lb]
850	CPI-HTW-850-4	34.86 kg [76.86lb]
900	CPI-HTW-900-4	35.76 kg [78.85lb]

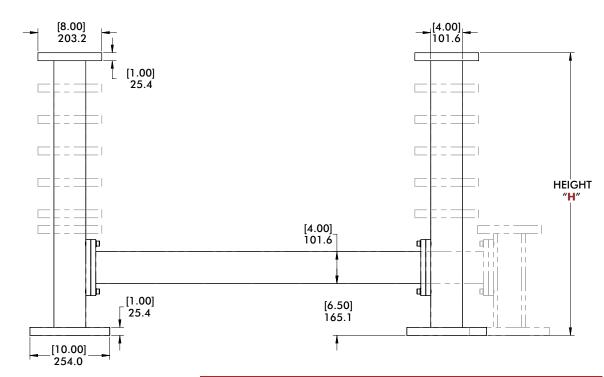
## **BODYBUILDER™ HOLD TABLE**



BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

HTW-1200/1400 Pass-Thru Hold Table Weldment







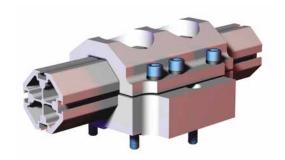
CPI-"MODEL"-"H" PASS THROUGH TABLE WELDMENT				
" H "	"Model"	Weight	"Model"	Weight
350	HTW-1200	84.62 kg [186.55lb]	HTW-1400	88.39 kg [194.87lb]
400	HTW-1200	86.42 kg [190.53lb]	HTW-1400	90.02 kg [198.85lb]
500	HTW-1200	90.04 kg [198.50lb]	HTW-1400	93.81 kg [206.82lb]
600	HTW-1200	93.65 kg [206.46lb]	HTW-1400	97.42 kg [214.78lb]
700	HTW-1200	97.26 kg [214.42lb]	HTW-1400	101.04 kg [222.74lb]
800	HTW-1200	100.87 kg [222.39lb]	HTW-1400	104.65 kg [230.71lb]
900	HTW-1200	104.49 kg [230.35lb]	HTW-1400	108.26 kg [238.67lb]





BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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

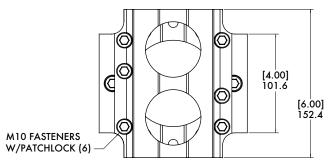


#### **Specifications:**

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

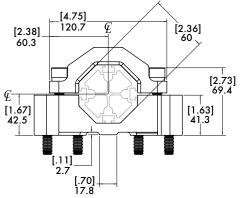
#### **Features:**

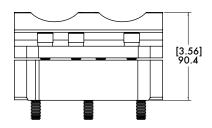
Can be used as direct robot interface.

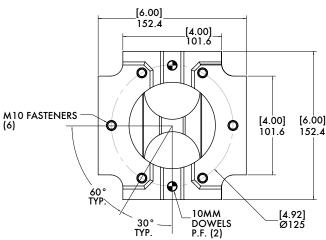




Fasteners included, Dowels not included







Model Number

Weight

**CPI-ATI-151-90HD-60BB** 3.22 kg [7.10 lb]



Body (S)

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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

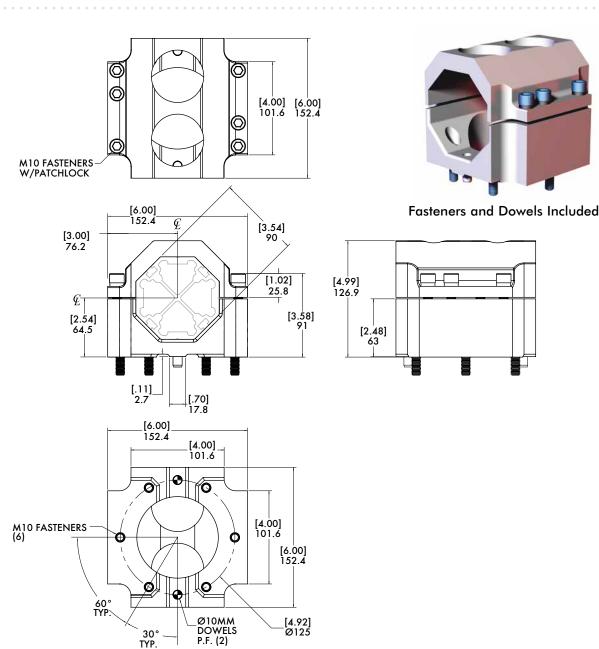
#### **Features:**

Can be used as direct robot interface.

#### **Specifications:**

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











BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

CL-90B-160F 90mm End Mount

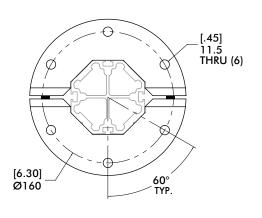


### **Specifications:**

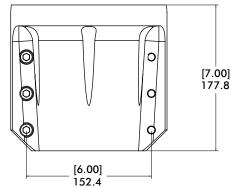
Max. Static Clamp Load: 746 Nm [550 ft-lb] Material: Aluminum

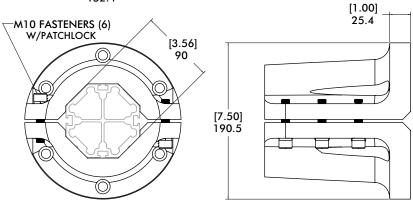
#### **Features:**

Can be used as direct robot interface.









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



## **BODYBUILDER™ BAYONETS**





### 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:

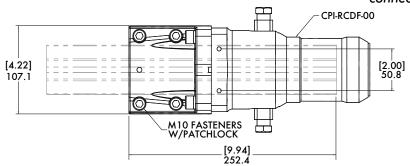
Body: Aluminum Pins: Steel

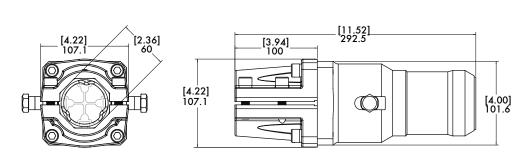


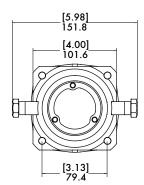
Used in conjunction with Quick Disconnect Housing to provide an efficient method for changing tools manually.



Optional 4-port air and electric connections available.







Model Number Weight

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



### BODYBUILDER™ STRUCTURE END MOUNT ASSEMBLIES

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

RDN-25-6 Manual Quick Disconnect Housing





#### **Specifications:**

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

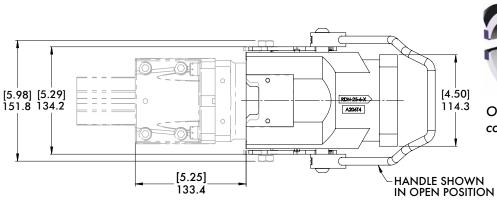
Body: Aluminum Knuckles: Brass

Handle and Hooks: Steel Inserts: Urethane

#### **Features:**

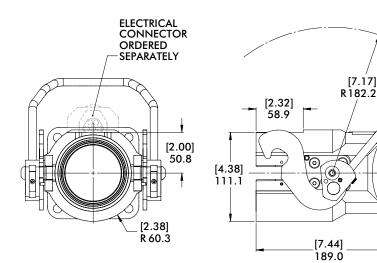
- Actuation of handle allows quick and accurate installation by pulling the bayonet into a fixed position within the housing.
- The internal rings eliminate vibration and seat the bayonet into a clamped position.
- Hardened steel retainer slots reduce wear and extend product life.

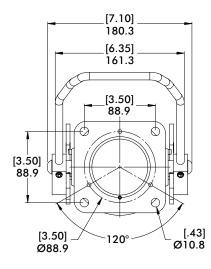
Used in conjunction with 60 mm BodyBuilder™ Bayonet to provide an efficient method for changing tools manually.





Optional 4-port air and electric connections available.





Model	Number
CPI-RI	DN-25-6

Weight

4.00 kg [8.90 lb]

[4.50]

114.3

[.88]

22.4

# **BODYBUILDER™ ALIGNMENT SYSTEM**



BodyBuilder™ Octagonal Tooling | Explaining the Patented Alignment System

system — site at the at

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™ 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.



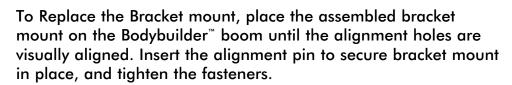
With the alignment pin in place, the alignment nut should not move. Secure bracket mount in the channel groove by tightening the two set screws. Remove alignment pin as it is used as a probe for alignment purposes only.



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



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





U.S. PATENT 6,349,912





BodyBuilder<sup>™</sup> Octagonal Tooling | Dimensions | Technical Specifications

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

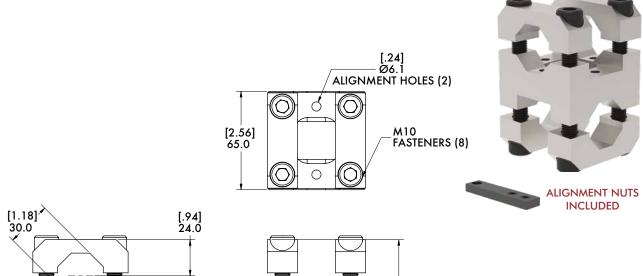
#### **Features:**

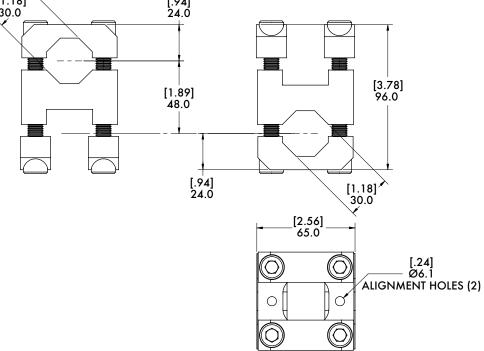
- Connects (2) 30mm extrusions perpendicular to each other.
- Lightweight, high-strength aluminum design.

#### **Specifications:**

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







Model Number
M-30B-30B-M

Weight

.82 kg [1.80 lb]

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



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





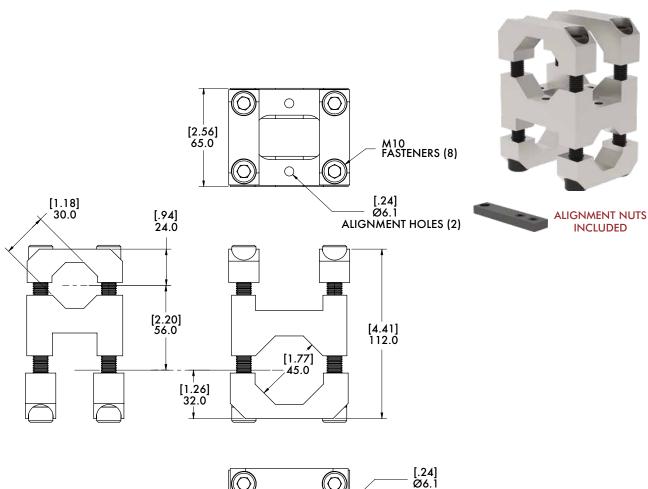
#### **Specifications:**

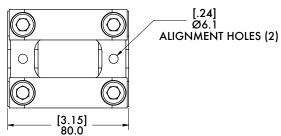
Max. Static Clamp Load: 45mm: 475 Nm [350 ft-lb] 30mm: 271 Nm [200 ft-lb]

Material: Aluminum

#### **Features:**

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





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





BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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

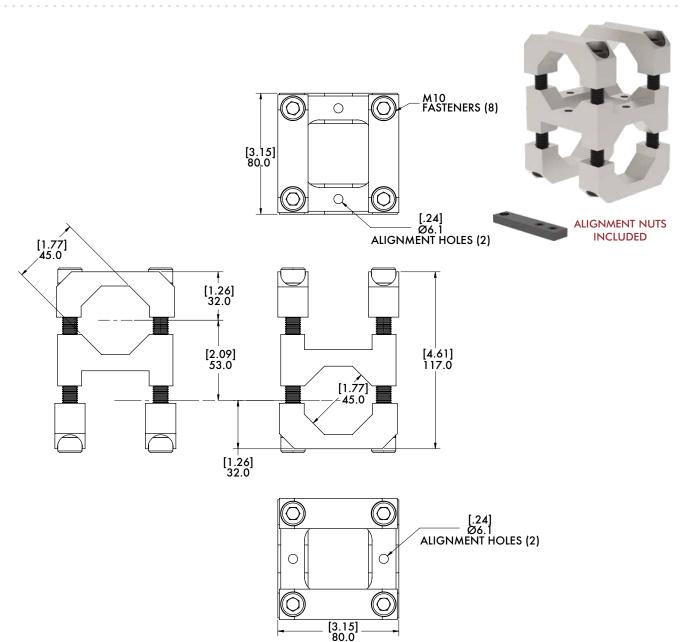
#### **Features:**

- 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









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BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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



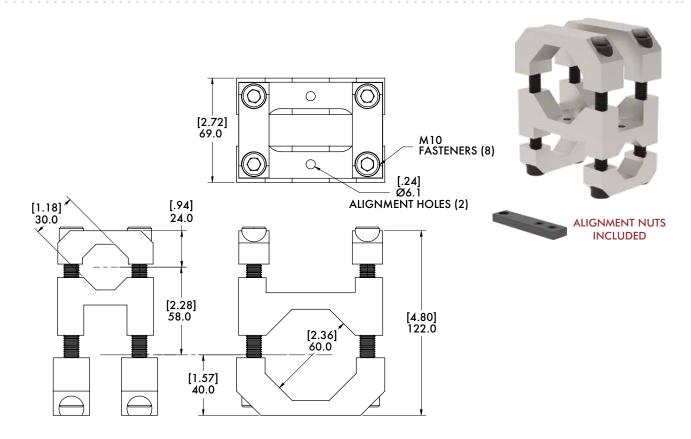


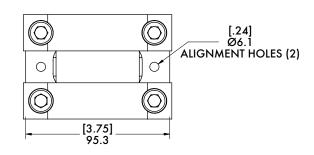
#### **Specifications:**

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]





BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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

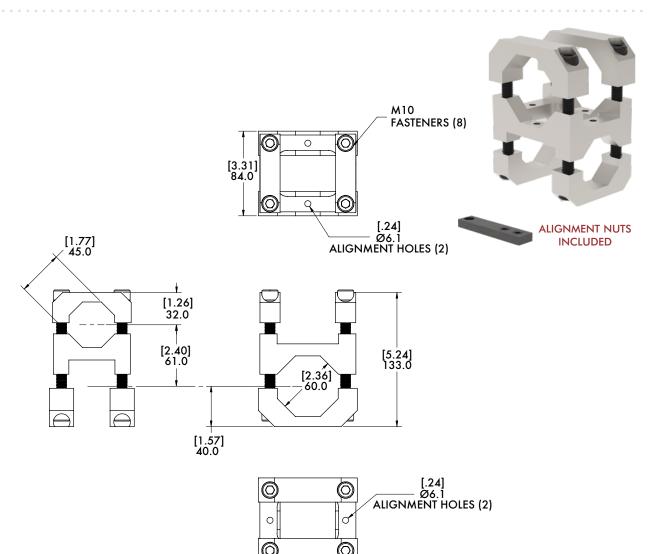
#### **Features:**

- 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



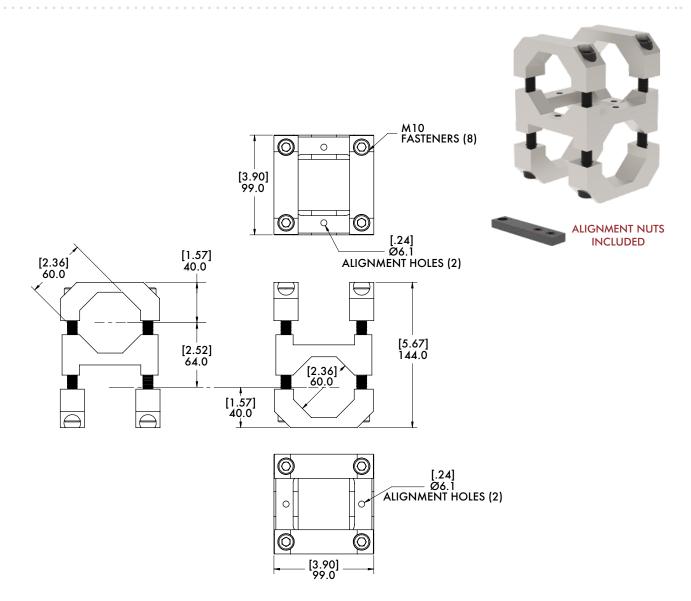


## **Specifications:**

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]





BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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

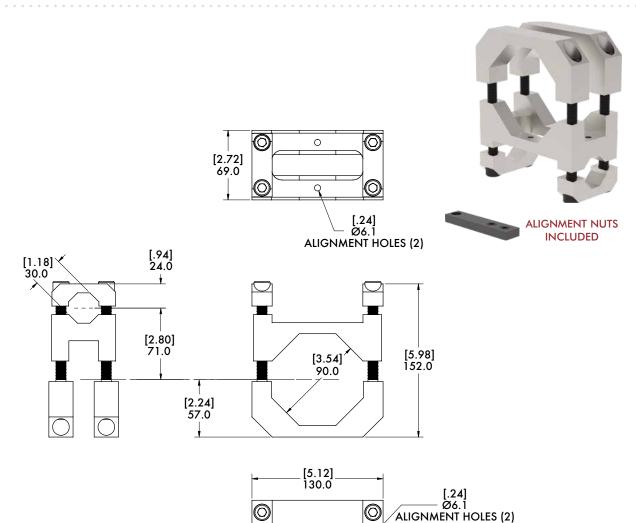
#### **Features:**

- 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





M10 FASTENERS (8)

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



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

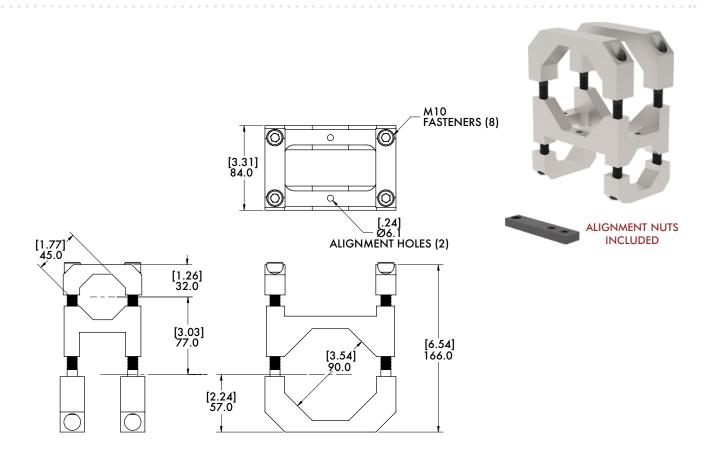


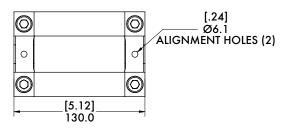
## **Specifications:**

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

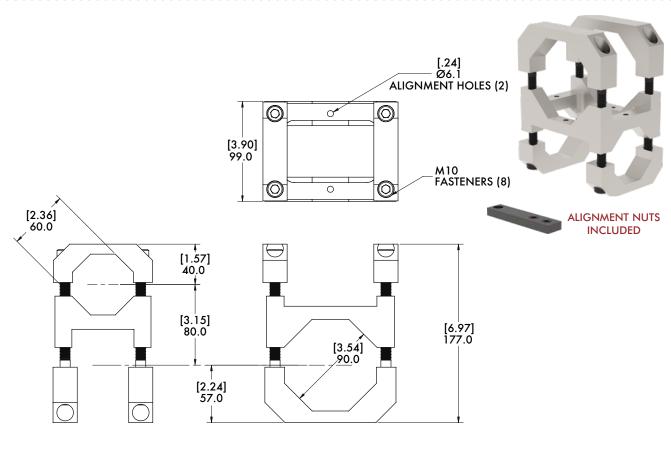
### **Features:**

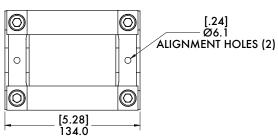
- Connects 60mm and 90mm extrusions perpendicular to each other.
- Lightweight, high-strength aluminum design.

## **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

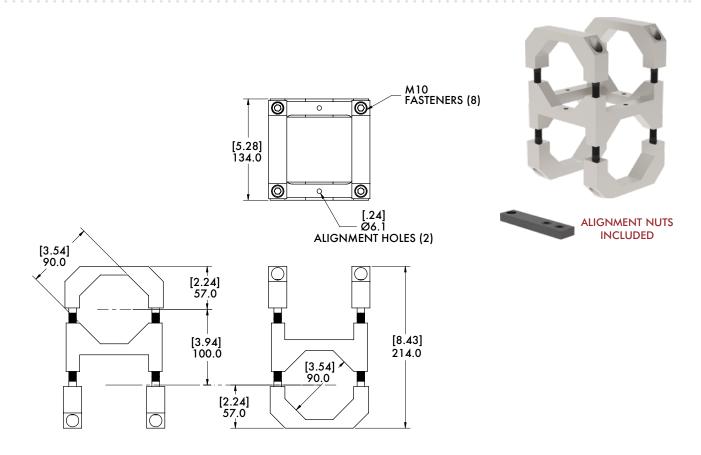


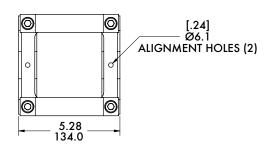
## **Specifications:**

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 | Octagon to Round Transition Block Assembly

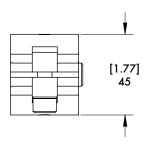


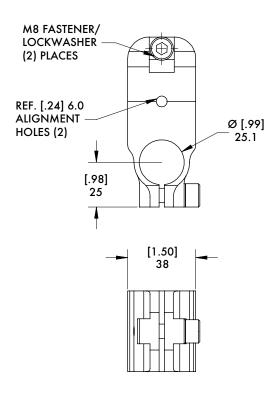
30B-25M 30mm Octagon to 25mm Round

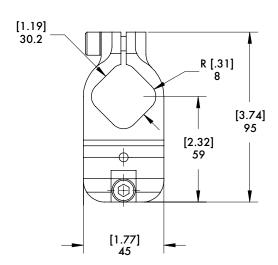
## **Specifications:**

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

Material: High Strength Aluminum









Model Number	Weight
M-30B-25M-M	203g [0.45lbs]

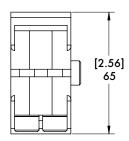


# **BODYBUILDER™ SQUARE CLAMPS**



BodyBuilder™ Octagonal Tooling | Octagon to Round Transition Block Assembly

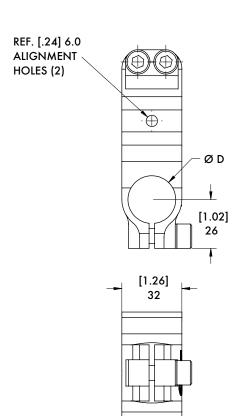
45B-25M (-10E) 45mm Octagon to 25mm or 1 in. Round

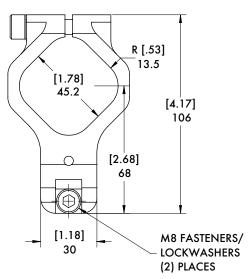


## **Specifications:**

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

Material: High Strength Aluminum







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



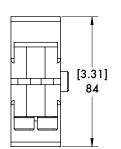


# **BODYBUILDER™ SQUARE CLAMPS**

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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

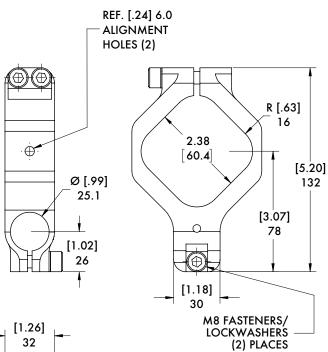
# gon to 25mm Round 60B-40M (-15E) 60mm Octagon to 40mm or 1.5 in. Round



## **Specifications:**

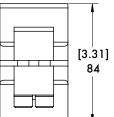
Max. Static Clamp Load: 407 Nm [300 ft-lb]

Material: High Strength Aluminum





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

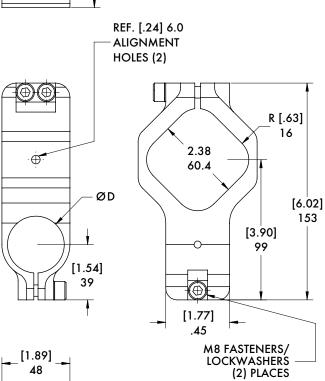


## **Specifications:**

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™ Octagonal Tooling | Dimensions | Technical Specifications



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

### **Features:**

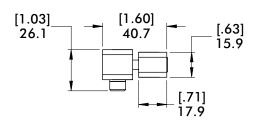
- Connects BodyBuilder<sup>™</sup> extrusion and round tubing perpendicular to each other.
- Lightweight, high-strength aluminum design.

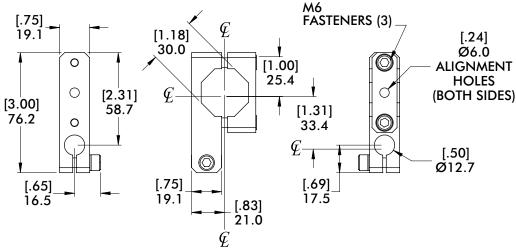
## **Specifications:**

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









Model Number

Weight

CPI-CLM-30B-50-TR

.092 kg [.20 lb]





BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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

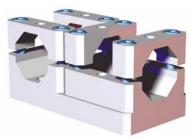


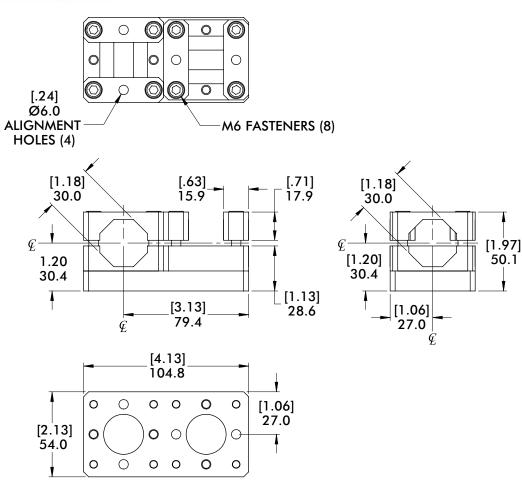
## **Specifications:**

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.





Model Number

Weight

CPI-TCAM-30B-30B-M

.45 kg [.99 lb]



BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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

### **Features:**

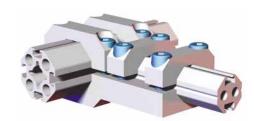
- Connects 30mm and 45mm octagon extrusion perpendicular on the same plane.
- Lightweight, high-strength aluminum design.

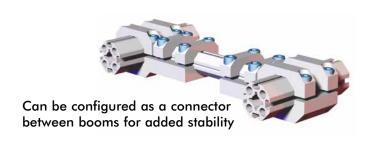
## **Specifications:**

Max. Static Clamp Load:

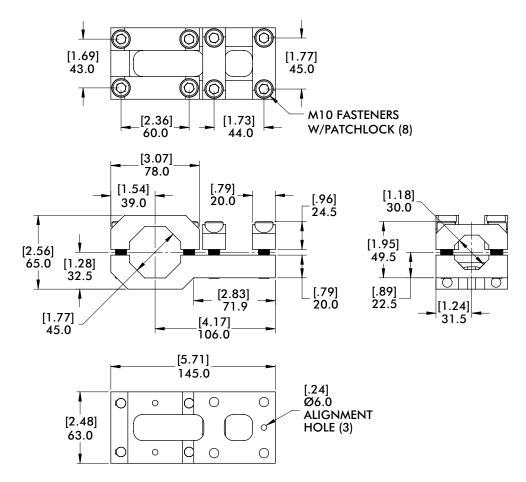
45mm: 475 Nm [350 ft-lb] 30mm: 271 Nm [200 ft-lb]

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:**

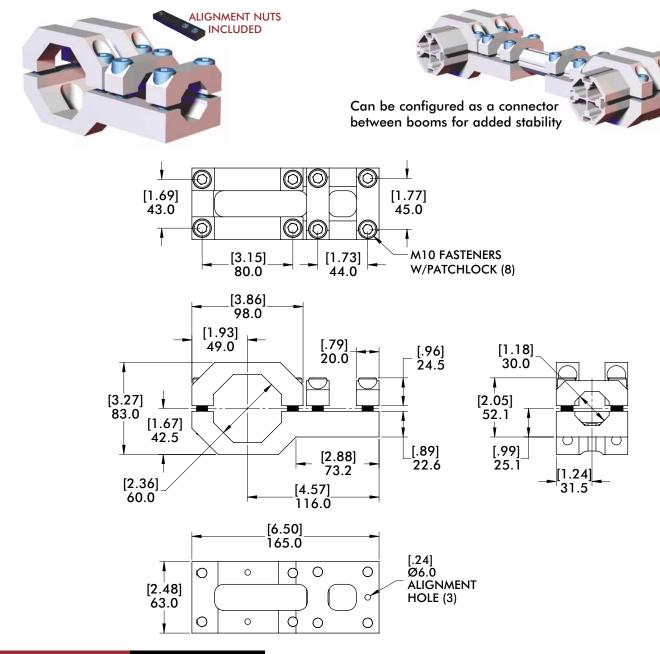
Max. Static Clamp Load:

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.



Model Number

Weight

CPI-TCA-30B-60B

1.23 kg [2.71 lb]

48



BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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

### **Features:**

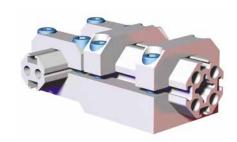
- Connects 45mm and 30mm octagon extrusion perpendicular on the same plane.
- Lightweight, high-strength aluminum design.

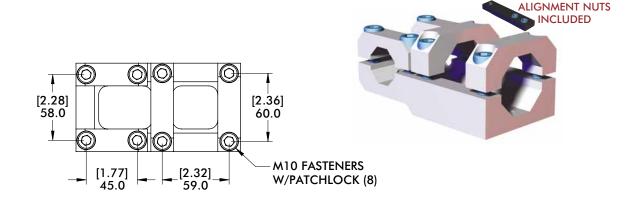
## **Specifications:**

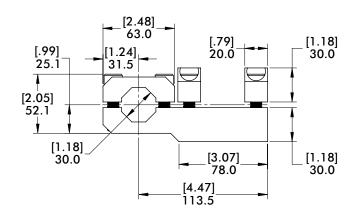
Max. Static Clamp Load:

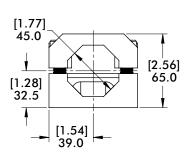
45mm: 475 Nm [350 ft-lb] 30mm: 271 Nm [200 ft-lb]

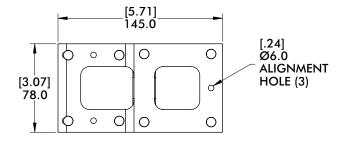
Material: Aluminum











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

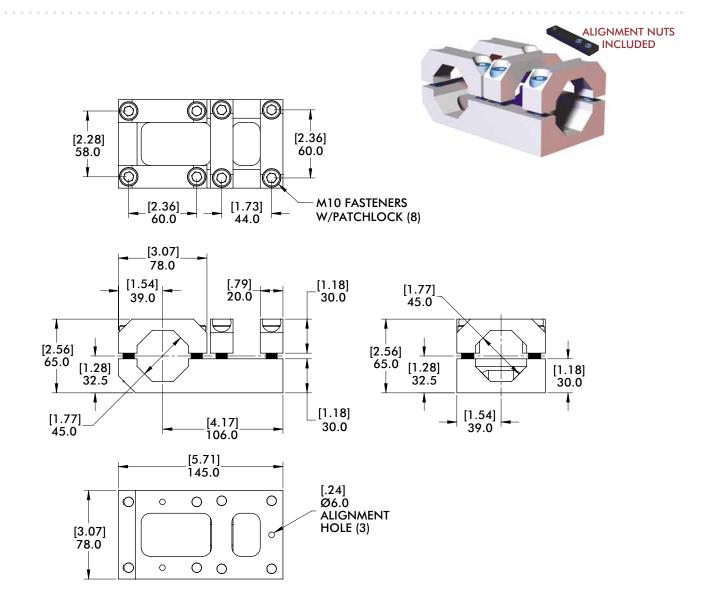


## **Specifications:**

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.





Weight

.95 kg [2.09 lb]

50



BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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

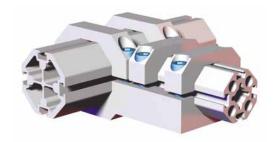
### **Features:**

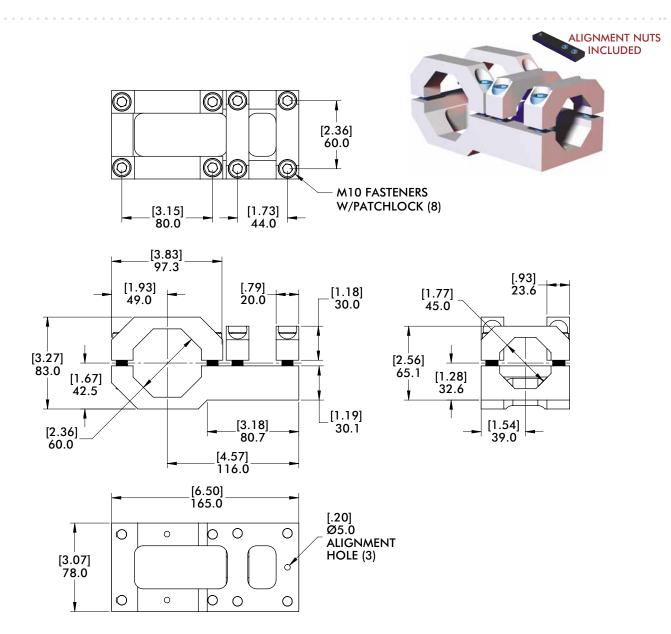
- Connects 45mm and 60mm octagon extrusion perpendicular on the same plane.
- Lightweight, high-strength aluminum design.

## **Specifications:**

Max. Static Clamp Load:

60mm: 746 Nm [550 ft-lb] 45mm: 475 Nm [350 ft-lb] Material: Aluminum





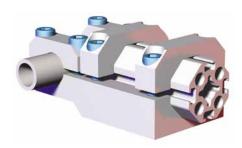
Model Number	Weight
CPI-TCA-45B-60B	1.21 kg [2.67lb]





BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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



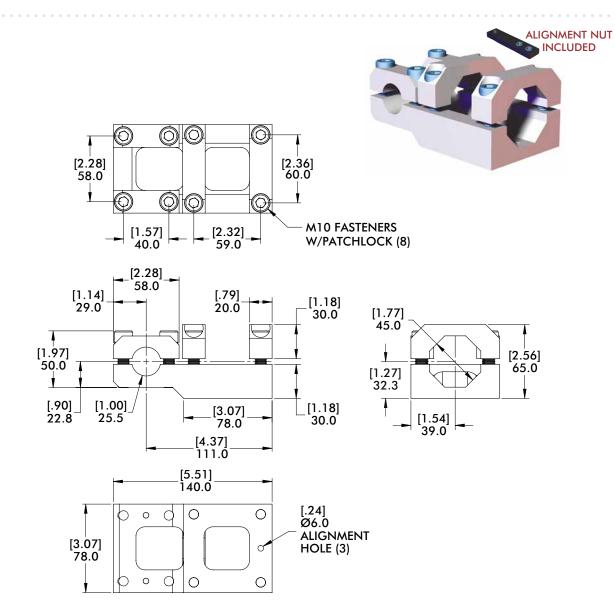
## **Specifications:**

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 CPI-TCA-45B-25M Weight

.89 kg [1.97lb]

**52** 



BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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

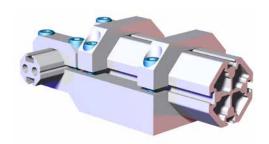
### **Features:**

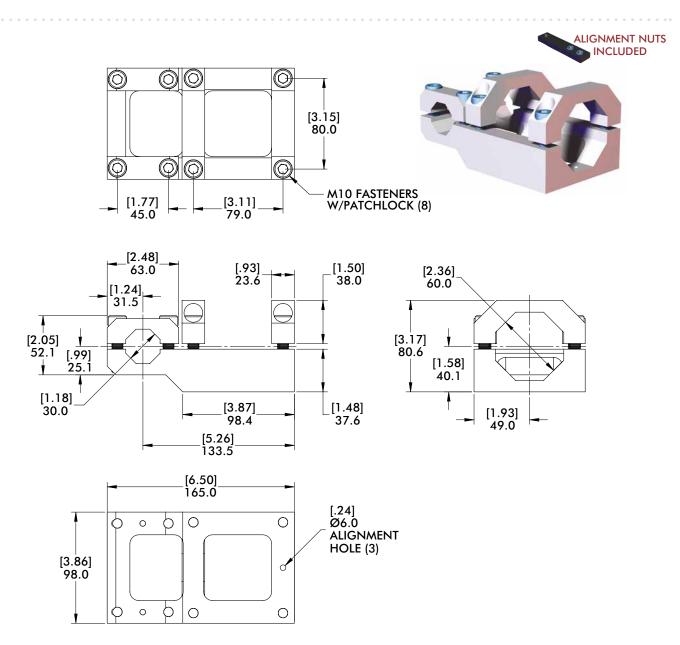
- Connects 60mm and 30mm octagon extrusion perpendicular on the same plane.
- Lightweight, high-strength aluminum design.

## **Specifications:**

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

Material: Aluminum





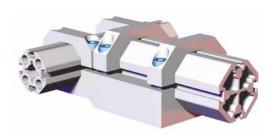
Model Number	Weight
CPI-TCA-60B-30B	1.32 kg [2.91 lb]





BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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



## **Specifications:**

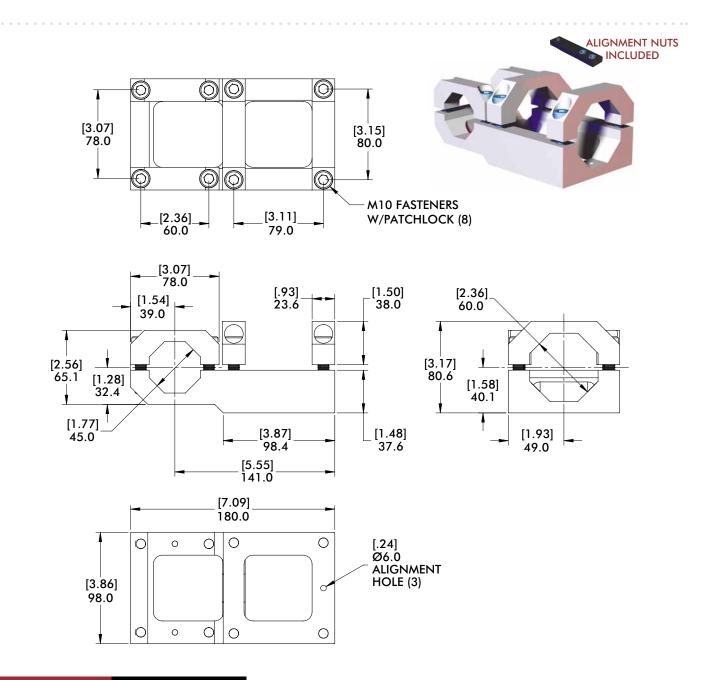
Max. Static Clamp Load:

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.



Model Number

Weight

CPI-TCA-60B-45B

1.45 kg [3.20 lb]

54



BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

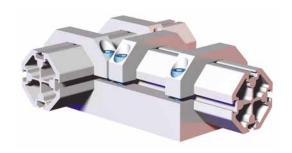
## TCA-60B-60B 60mm to 60mm octagon T-Clamp Bracket Assembly

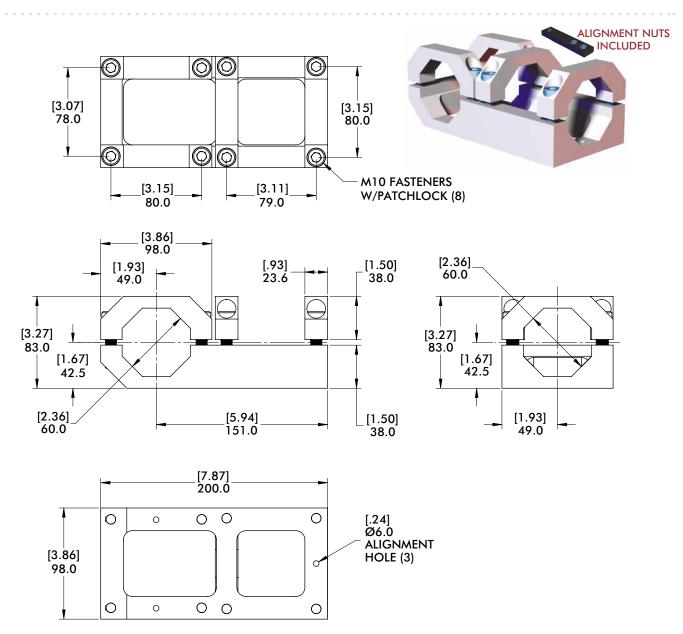
### **Features:**

- 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





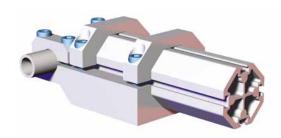
Model Number	Weight
CPI-TCA-60B-60B	1.77 kg [3.90 lb]





BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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



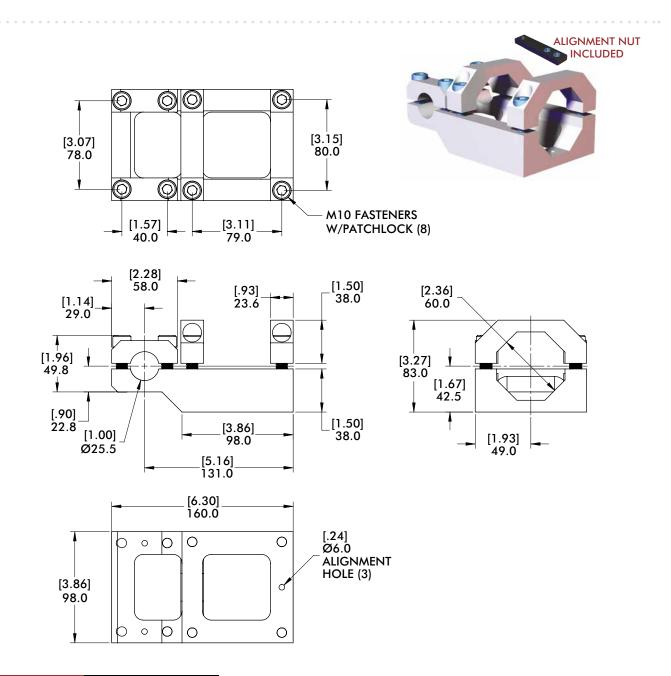
## **Specifications:**

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.







56



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:**

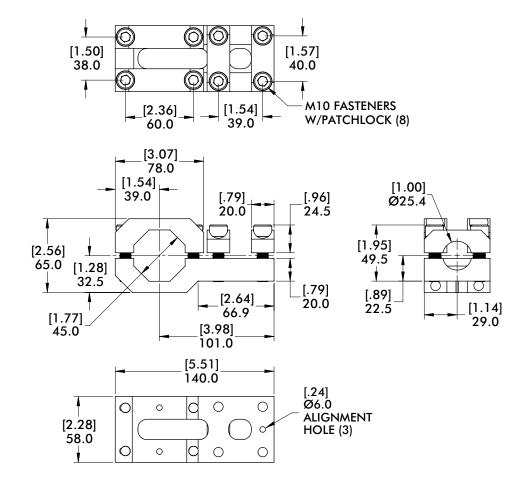
Max. Static Clamp Load: 45mm: 475 Nm [350 ft-lb] 25mm: 271 Nm [200 ft-lb]

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:**

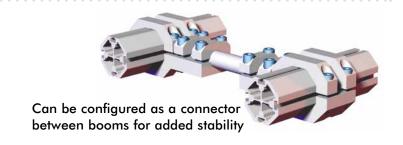
Max. Static Clamp Load: 60mm: 746 Nm [550 ft-lb] 25mm: 271 Nm [200 ft-lb]

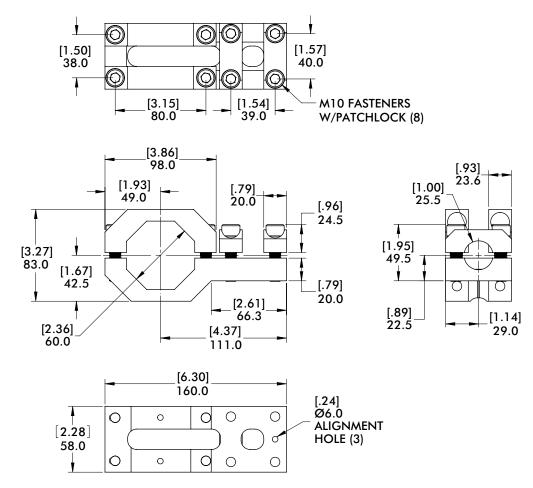
Material: Aluminum

### Features:

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









Weight

CPI-TCA-25M-60B .85 k

.85 kg [1.87 lb]

# **BODYBUILDER™ ELBOWS**

## BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications



## 45° Angular Boom Clamp Brackets

### **Features:**

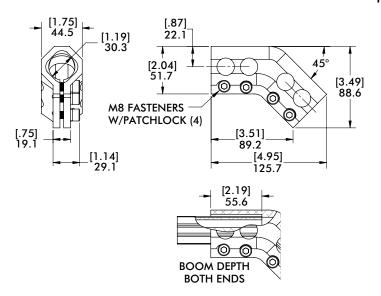
 Mounts (2) Bodybuilder extrusion booms inline at a 45° angle.

## **Specifications:**

Material: Aluminum



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



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

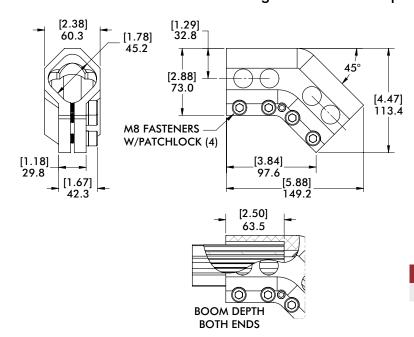


Model Number
CPI-DC-3030B-45

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

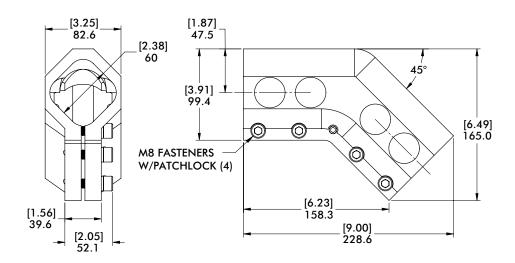


## **Specifications:**

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

#### **Features:**

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



[4.00]101.6

**BOOM DEPTH BOTH ENDS** 



Model Number

Weight

CPI-DC-6060B-45

1.74 kg [3.8 lb]



# **BODYBUILDER™ MID FLANGE CLAMPS**



BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

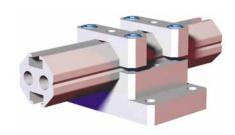
## CLM-30B-152F-90 30mm Mid Flange Clamp Mount

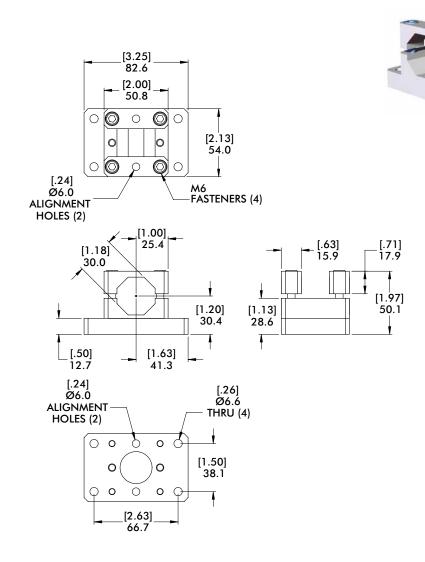
### **Features:**

- 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	Weight		
CPI-CLM-30B-152F-90	0.28 kg [.61 lb]		





# **BODYBUILDER™ MID FLANGE CLAMPS**

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

TBC-45 45mm Mid Flange Clamp Mount

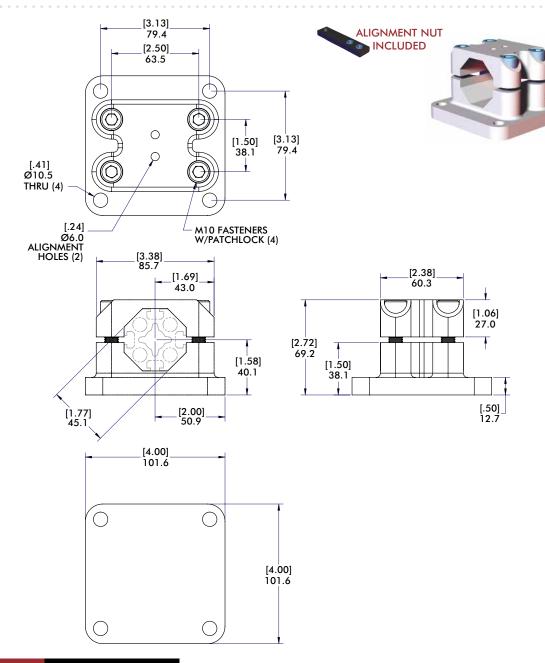


## **Specifications:**

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.



Model Number

Weight

TBC-45-00

0.79 kg [1.74 lb]

# **BODYBUILDER™ MID FLANGE CLAMPS**



BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

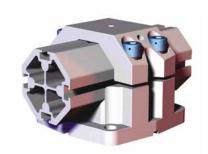
## TBC-60 60mm Mid Flange Clamp Mount

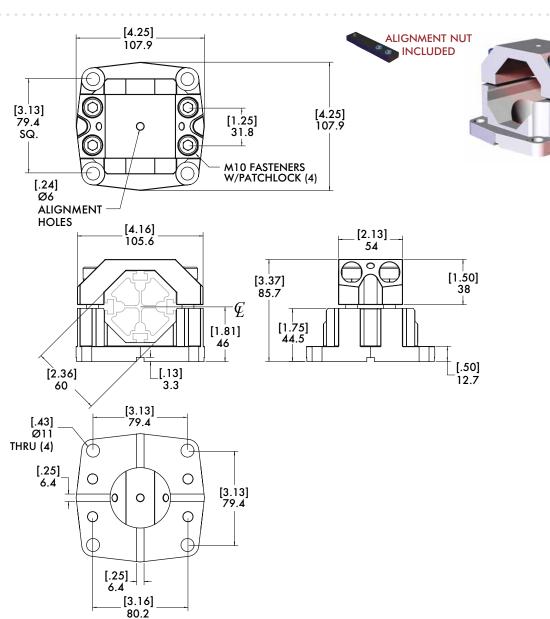
### **Features:**

- 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





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

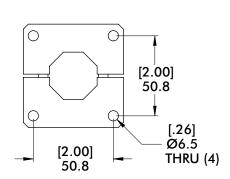


## **Specifications:**

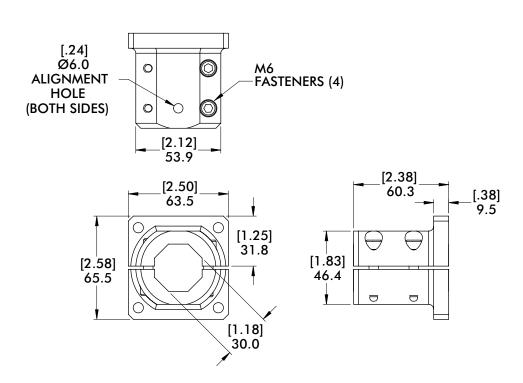
Max. Static Clamp Load: 102 Nm [75 ft-lb] Material: Aluminum

#### **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]

# **BODYBUILDER™ END FLANGE CLAMPS**



BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

## **BECC-60** 60mm End Flange Clamp Mount

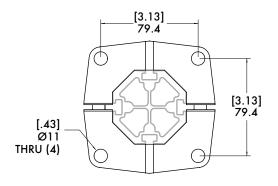
### **Features:**

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

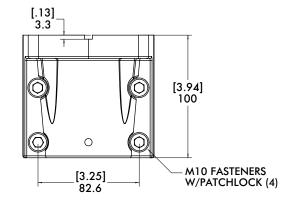
## **Specifications:**

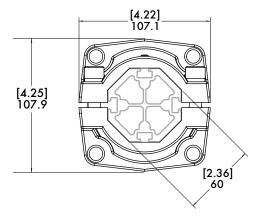
Max. Static Clamp Load: 746 Nm [550 ft-lb] Material: Cast Aluminum

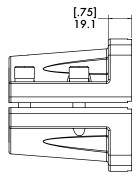












Cross Key sold separately: (2) x 540-25388

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





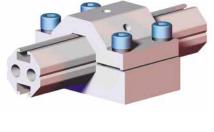
BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

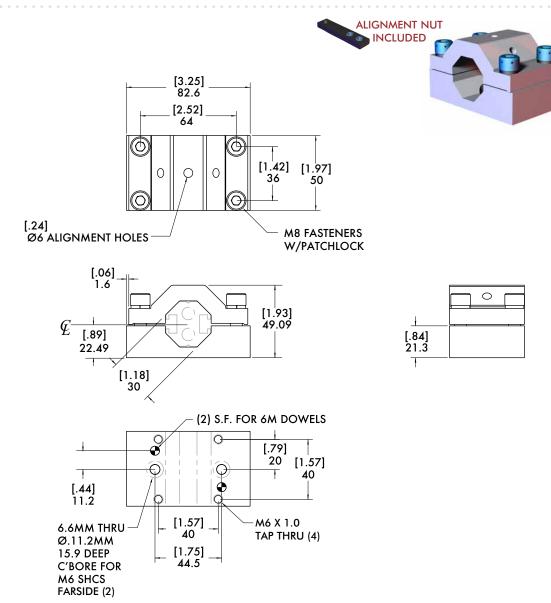
**TPM-30** 30mm Accessory Mounting Bracket

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.

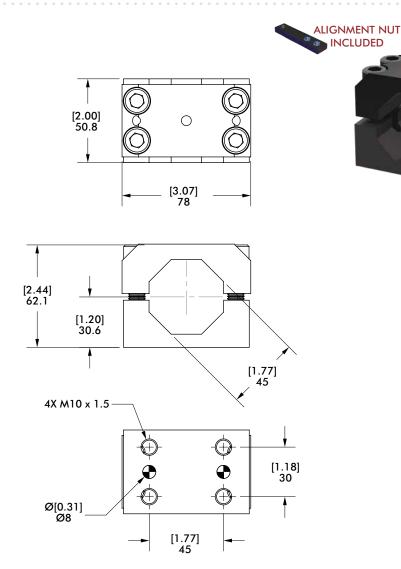
## **Specifications:**

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.



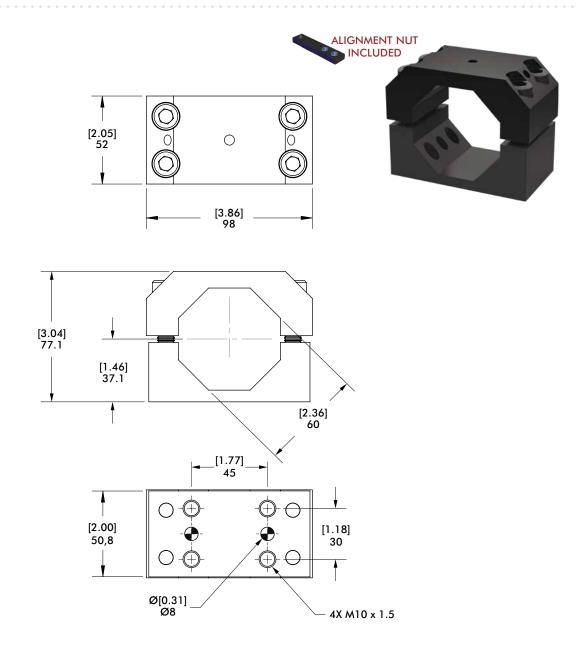
## **Specifications:**

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

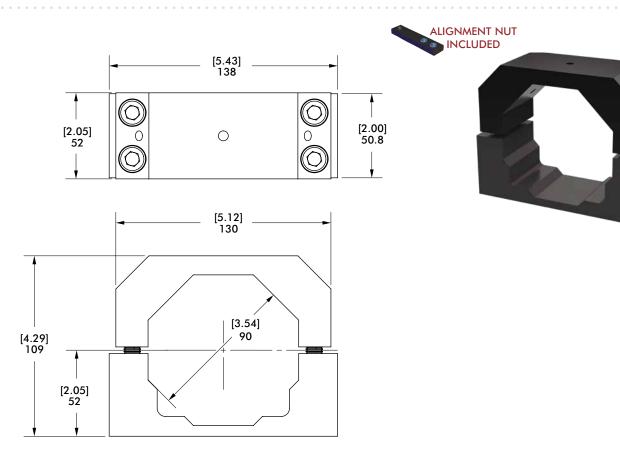
## **Features:**

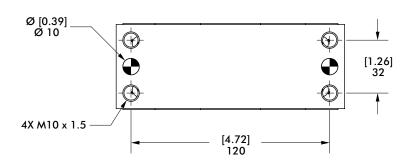
 Provides a secure attachment point for clamps and pin locators.

## **Specifications:**

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







Model Number	Weight
TPMS-90	1.93kg [4.25lb]





# **BODYBUILDER™ GRIPPER MOUNTS**

BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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



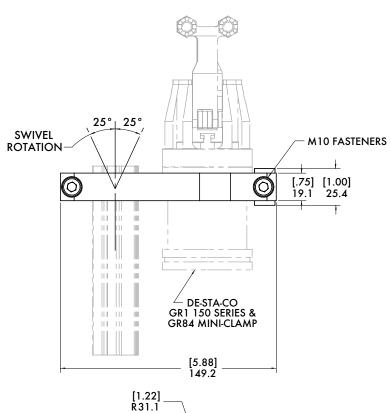
## **Specifications:**Max. Static Clamp Load:

271 Nm [200 ft-lb]
Material:

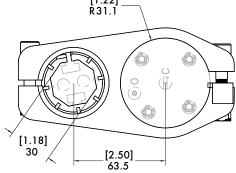
Body: Aluminum Swivel Ball: Steel

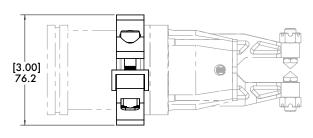
### **Features:**

- Removable grip mount lock allows gripper to be adjusted while continuing to holding it in place.
- Swivel ball allows for ±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:**

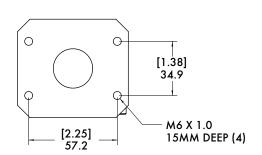
 Swivel ball allows for ±25° adjustment of swivel rotation.

## **Specifications:**

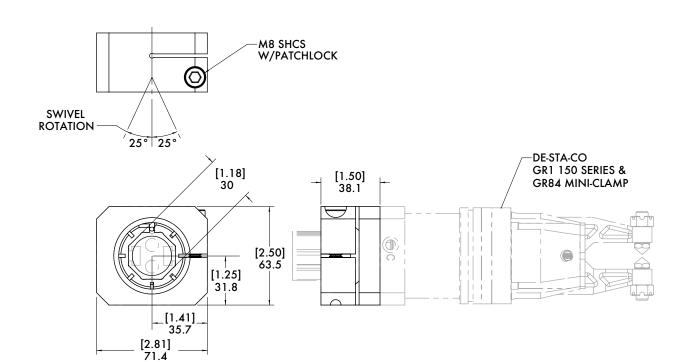
Max. Static Clamp Load: 271 Nm [200 ft-lb] Material:

Housing: Machined Aluminum Swivel: Steel









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

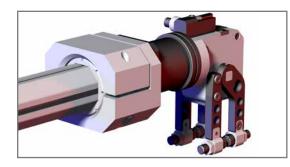




# **BODYBUILDER™ GRIPPER MOUNTS**

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:

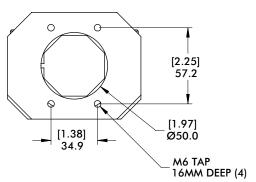
Housing:

Machined Aluminum

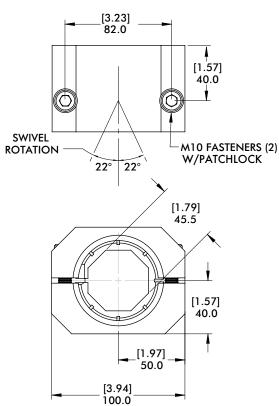
Swivel: Steel

### **Features:**

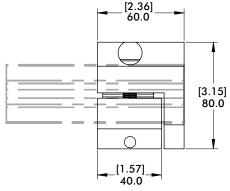
Swivel ball allows for ±22° adjustment of swivel rotation.







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]





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:

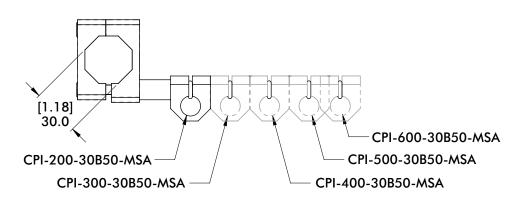
Cast Aluminum

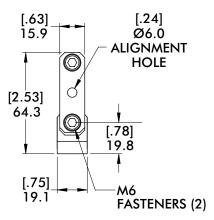
Insert:

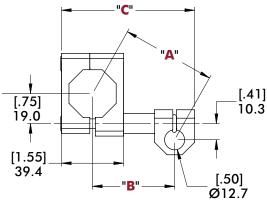
Machined Aluminum











CPI- <u>L</u> -30B50-MSA SWIVEL ARM				
<u>"L"</u>	"A"	"B"	"C"	Weight
200	59.8	52.1	84.5	.10 kg
200	[2.35]	[2.05]	[3.33]	[.22 lb]
300	82.6	77.2	109.6	.11 kg
300	[3.25]	[3.04]	[4.32]	[.24 lb]
400	106.2	102.1	134.5	.12 kg
400	[4.18]	[4.02]	[5.30]	[.26 lb]
E00	130.6	127.3	159.7	.13 kg
500	[5.14]	[5.01]	[6.29]	[.29 lb]
400	150.0	147.1	179.5	.14 kg
600	[5.90]	[5.79]	[7.07]	[1.72 lb]





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:

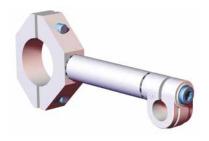
Body:

Cast Aluminum Insert:

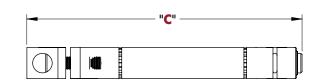
**Machined Aluminum** 

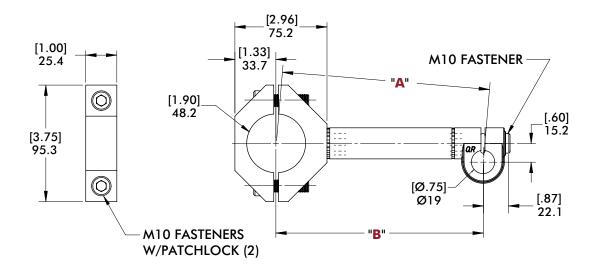
### **Features:**

- Mounts to BodyBuilder<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-180-45B-CSA SHOWN





CPI-" L "-45B-CSA SWIVEL ARM				
" L "	"A"	"B"	"C"	Weight
130	119.8	118.8	140.9	.48 kg
130	[4.72]	[4.68]	[5.56]	[1.06 lb]
180	169.8	169.1	224.9	.54 kg
100	[6.68]	[66.6]	[8.89]	[1.20 lb]
230	219.7	219.1	275.0	.61 kg
230	[8.65]	[8.63]	[10.83]	[1.34 lb]
280	269.6	269.2	325.0	.67 kg
200	[10.61]	[10.60]	[12.80]	[1.47 lb]



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BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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:

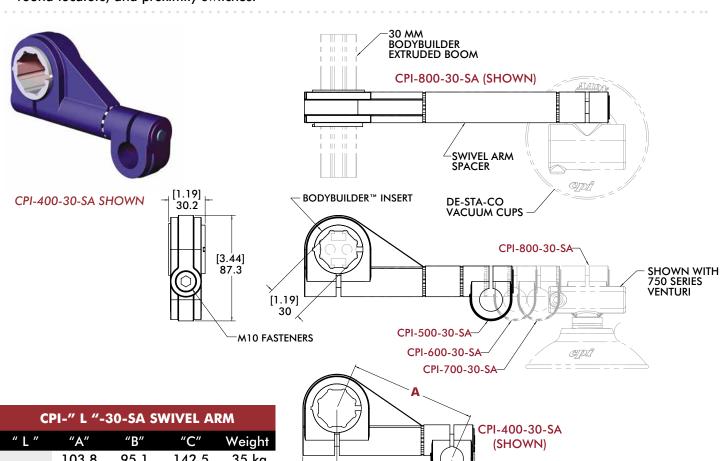
Body:

Cast Aluminum

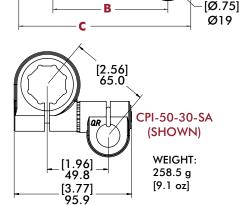
Insert:

Machined Aluminum





CPI-" L "-30-SA SWIVEL ARM				
" L "	"A"	"B"	"C"	Weight
400	103.8	95.1	142.5	.35 kg
700	[4.09]	[3.74]	[5.61]	[.75 lb]
500	132.8	126.0	172.7	.39 kg
500	[5.26]	[4.96]	[6.80]	[.88 lb]
600	151.7	146.0	192.5	.48 kg
800	[5.97]	[5.75]	[7.58]	[1.06 lb]
700	170.6	165.4	212.1	.51 kg
700	[6.72]	[6.51]	[8.35]	[1.13 lb]
000	209.7	205.5	252.2	.58 kg
800	[8.26]	[8.09]	[9.93]	[1.25 lb]



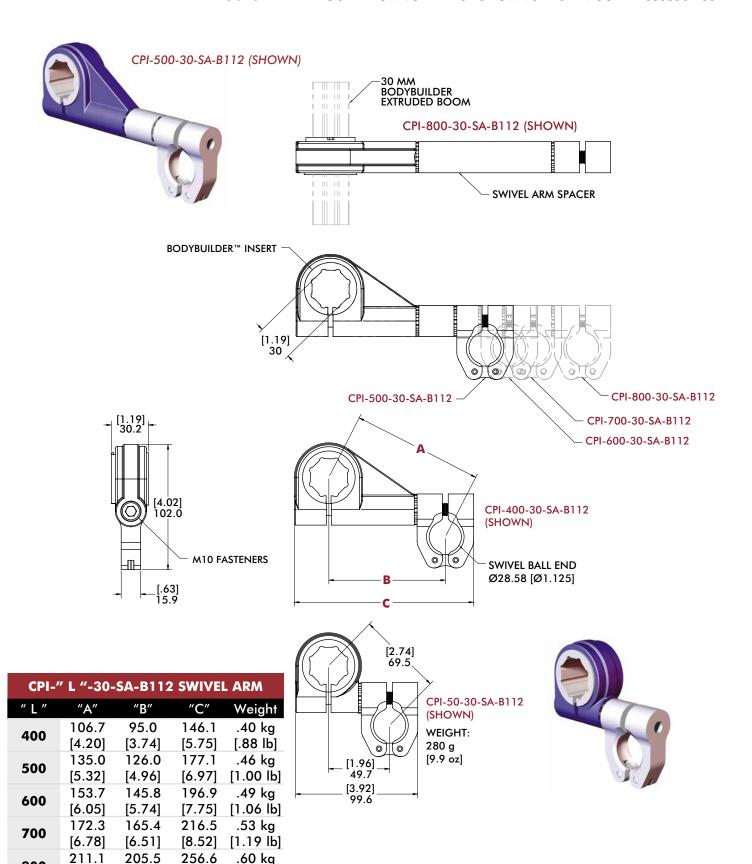
ALSO USED TO MOUNT SAP AND PSM SERIES PROXIMITY MOUNTS.

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** 



BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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



[10.10] [1.31 lb]

[8.09]

800

[8.31]



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.

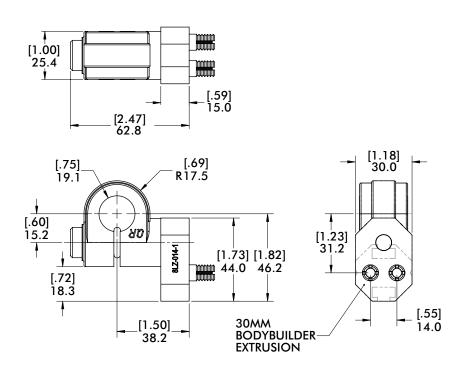
## **Specifications:** Material:

**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™ Octagonal Tooling | Dimensions | Technical Specifications

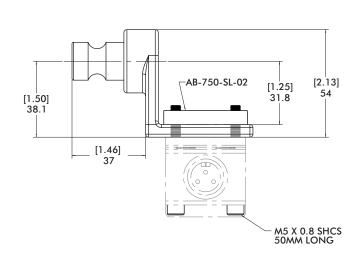
**AB-750-SL** Part Present Proximity Switch Mount



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

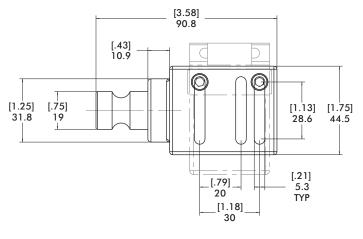
### **Features:**

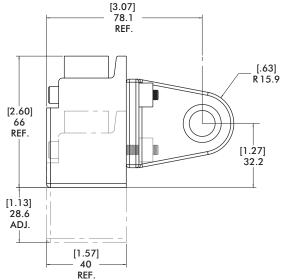
- Mounts a 40mm square proximity sensor to the BodyBuilder<sup>™</sup> 30mm Swivel Arm (CPI-"L"-30-SA).
- Mount allows for 360 degrees of radial adjustment along one axis.
- Slots allows 28.6mm [1.13 in] of linear adjustment for fine tuning during final setup.





FASTENERS AND NUT INCLUDED





Model Number

Weight

CPI-AB-750-SL

.10 KG [.22 lb]

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BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

## NPG-15RL-400 Rough Locator

### **Features:**

 Mounts to Nest Pad Brackets and indirectly to BodyBuilder™ 30mm Swivel Arm Mount.

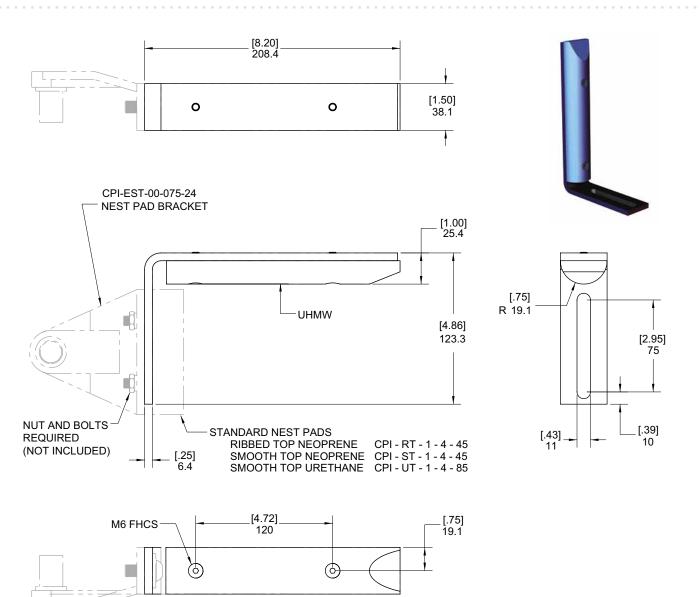
### **Specifications:**

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

Bracket: Steel

Wear Surface: UHMW





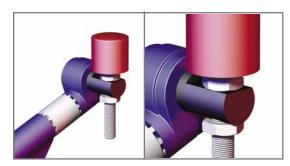




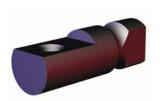


BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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



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



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

