

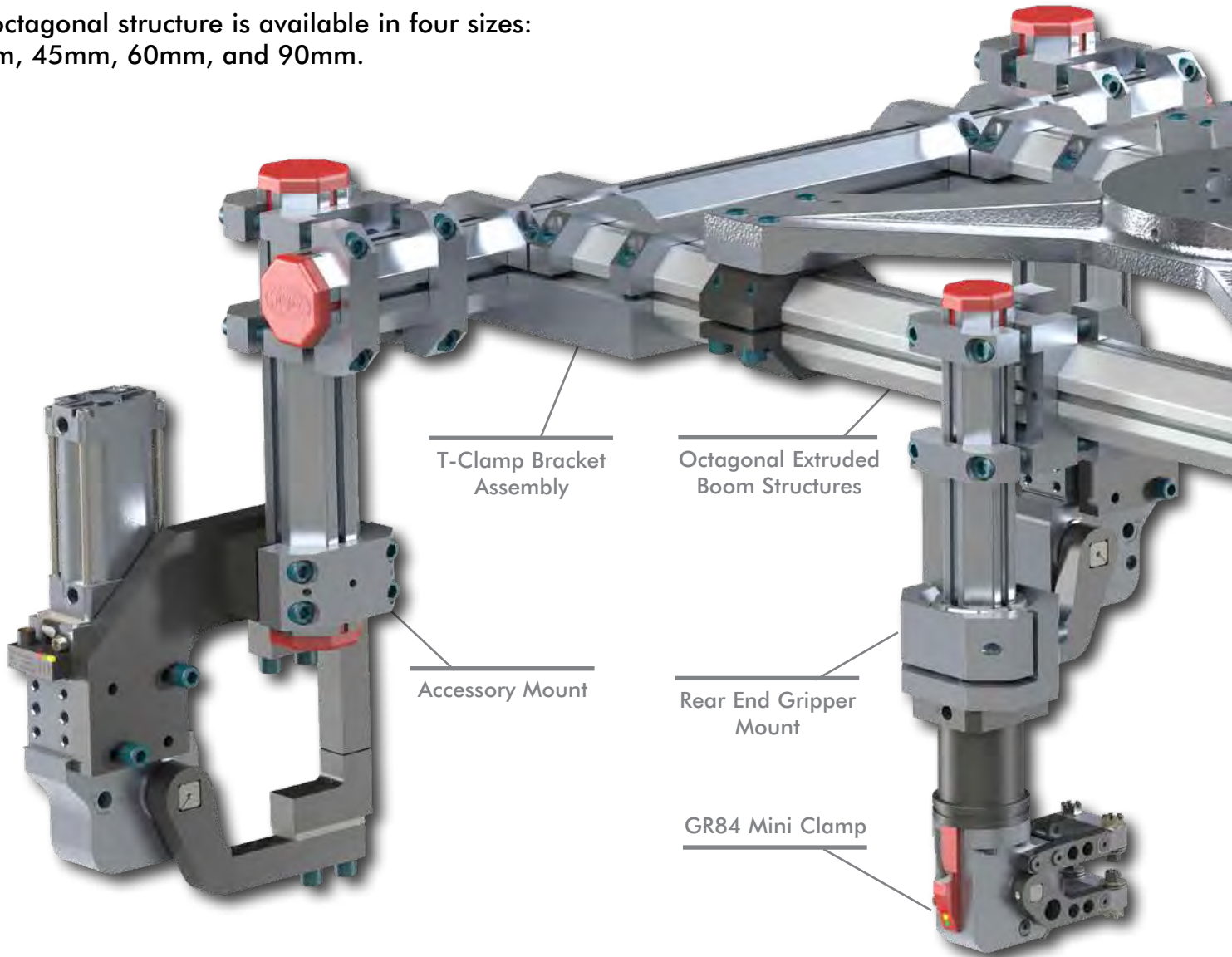
BODYBUILDER™ END EFFECTOR SYSTEM



Product Overview

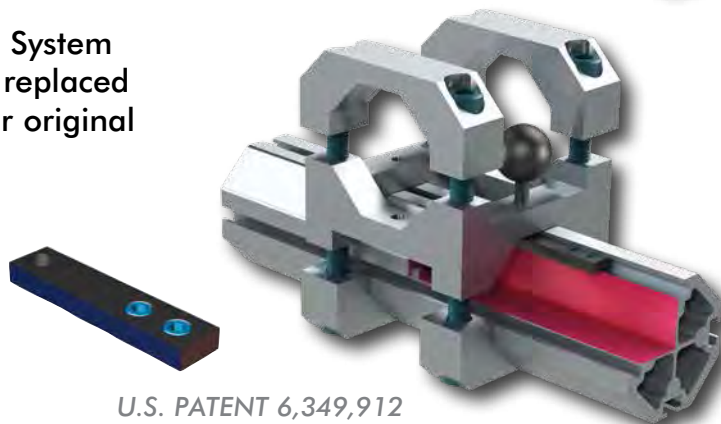
BodyBuilder™ is designed to maximize productivity, both before and after installation. The flexibility of the system allows modifications to the end effector in minutes, greatly reducing start up time to launch.

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



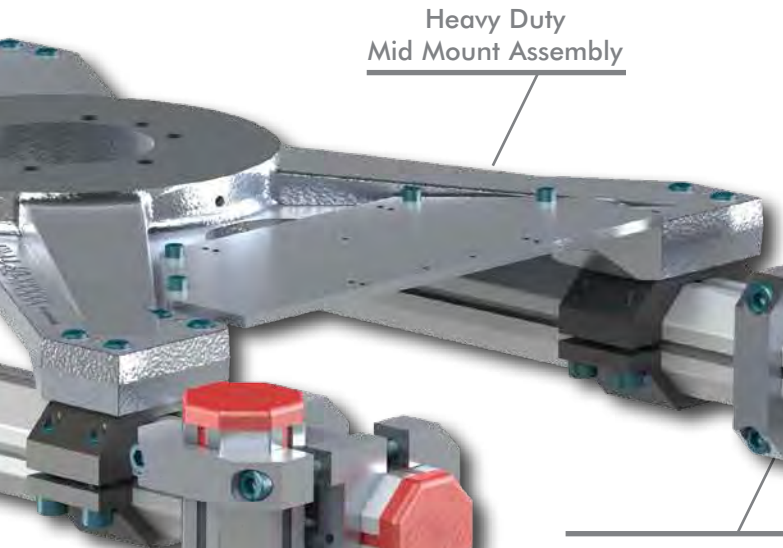
The patented BodyBuilder™ Alignment System allows the modular components to be replaced individually and easily returned to their original positions.

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



Most commonly used in:

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

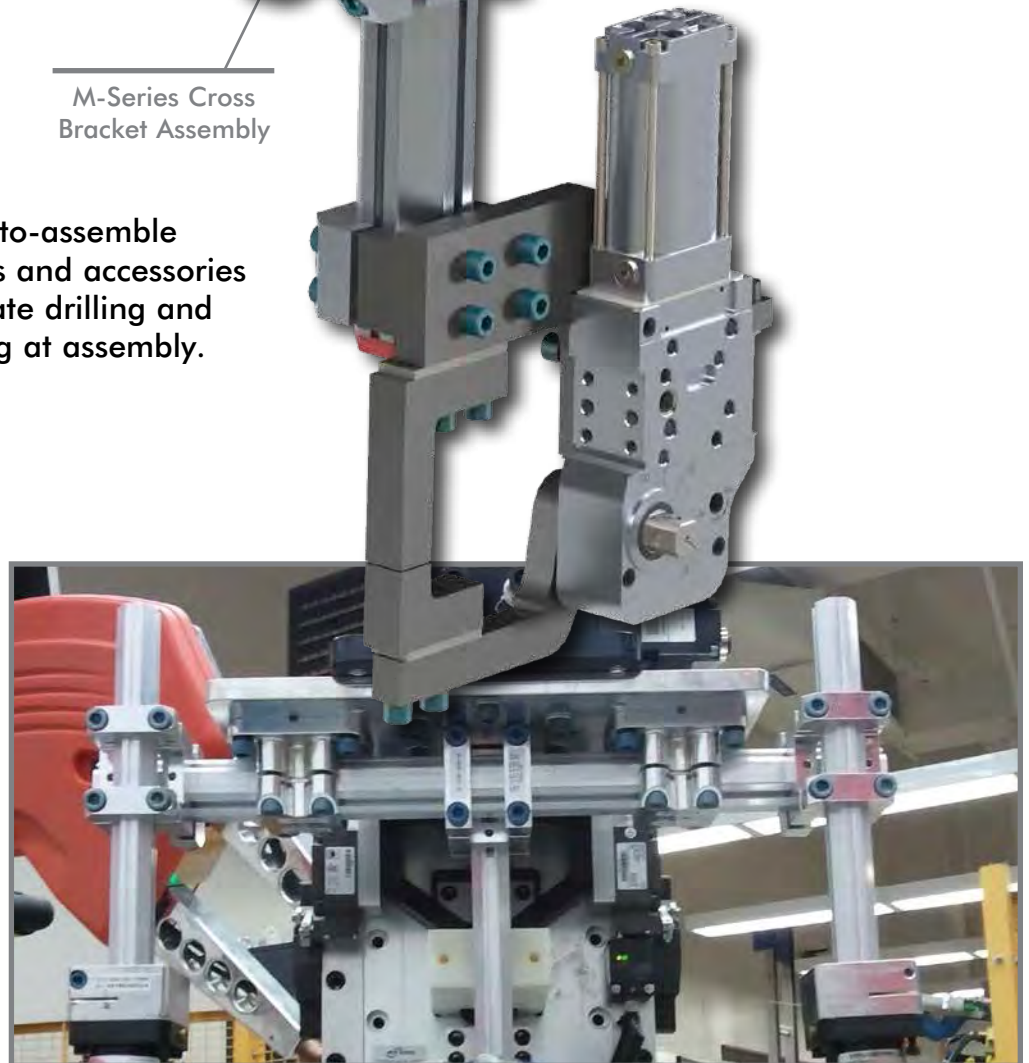


Heavy Duty
Mid Mount Assembly



M-Series Cross
Bracket Assembly

Ready-to-assemble
mounts and accessories
eliminate drilling and
welding at assembly.



82M Series Power
Clamp

BODYBUILDER™ TOOLING EXAMPLES

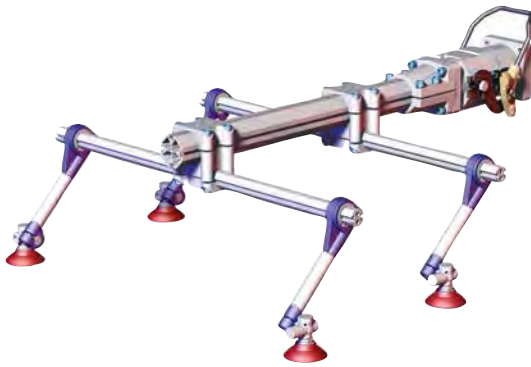
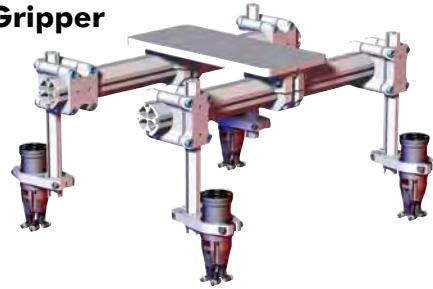


BodyBuilder™ Octagonal Tooling | Typical Application Build Examples



Mid Mount with GR84 Series Mini-Clamps

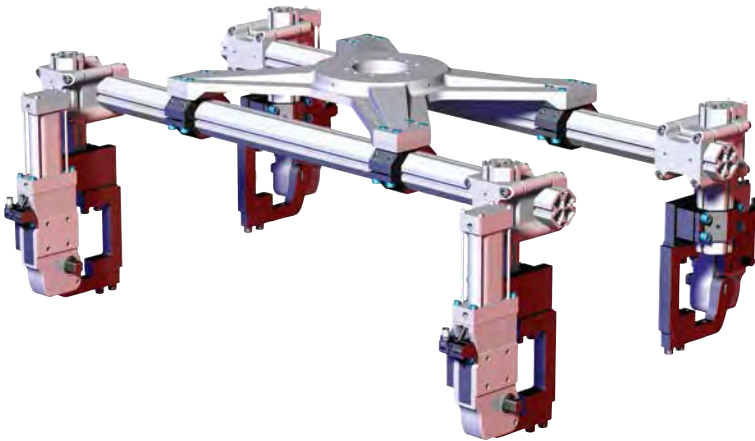
Mid Mount with GR1 Series Gripper



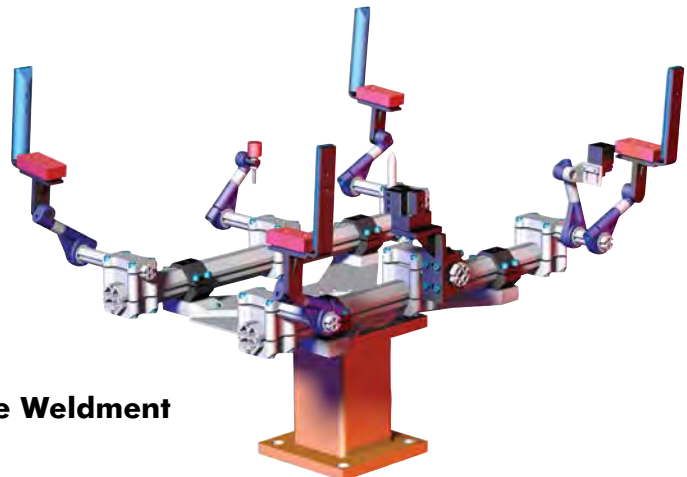
End Mount with Venturi Cup Mounts and Vacuum Cups



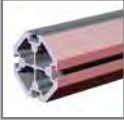








End Mount with GR84 Series Mini Clamp



Mid Mount with 82M50 Enclosed Power Clamps



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

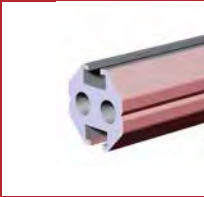
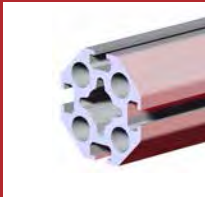
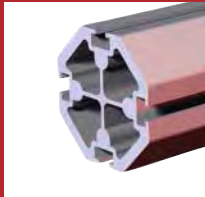
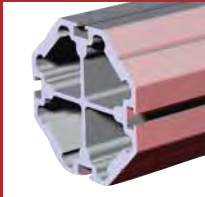
	BodyBuilder™ Extruded Aluminum Octagonal Booms5
	BodyBuilder™ Structure Mid Mount Assemblies..... 11
	BodyBuilder™ Structure End Mount Assemblies28
	BodyBuilder™ Transition Brackets and Blocks32
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	BodyBuilder™ Swivel Arm Mounts.....75
	BodyBuilder™ Swivel Arm Accessories.....79

BODYBUILDER™ BOOM STRUCTURE



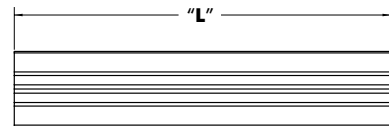
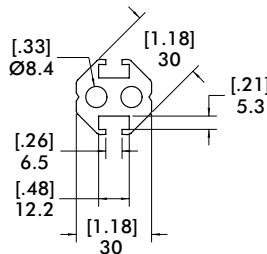
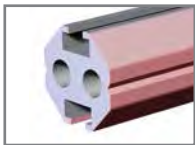
BodyBuilder™ Octagonal Tooling | Dimensions

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

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

30mm Boom Profile Dimensions and Specifications

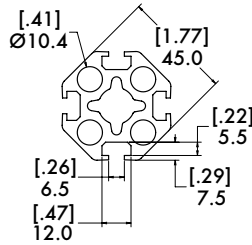
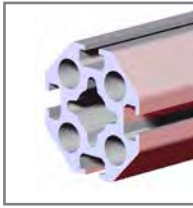
BodyBuilder™ 30mm Boom



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

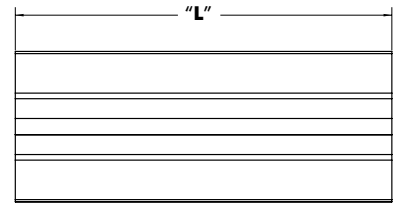
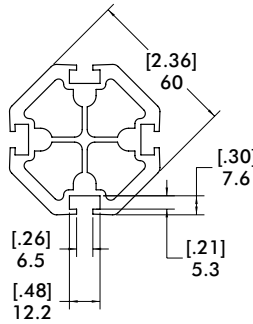
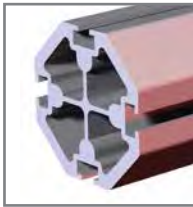
45, 60, and 90mm Boom Profile Dimensions and Specifications

BodyBuilder™ 45mm Boom



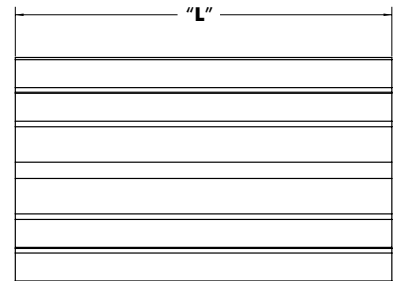
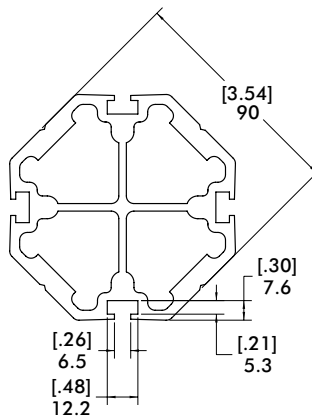
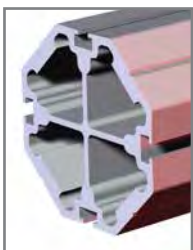
Model Number	Weight
B - 45 - (L) - 0	2.0 kg/m [1.4 lb/ft]

BodyBuilder™ 60mm Boom



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

BodyBuilder™ 90mm Boom



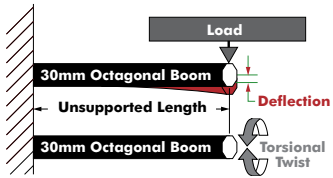
Model Number	Weight
B - 90 - (L) - 0	6.5 kg/m [4.4 lb/ft]

BODYBUILDER™ BOOM STRUCTURE

BodyBuilder™ Octagonal Tooling | Technical Specifications

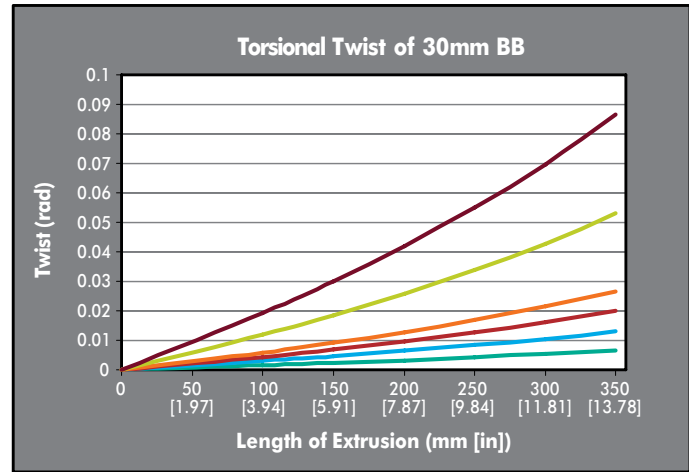
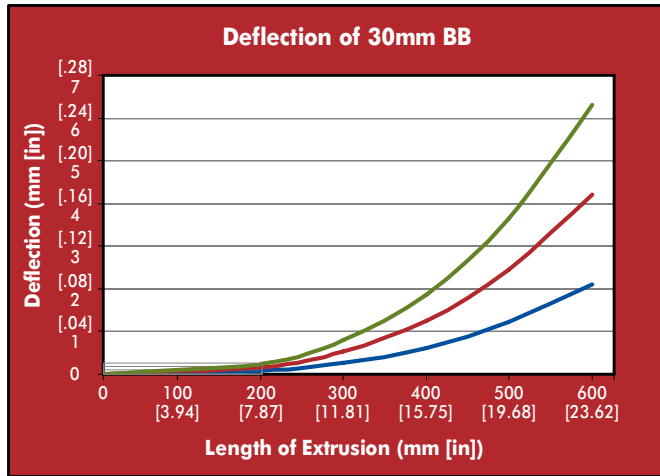
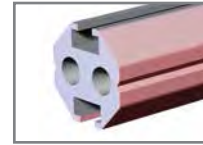


30mm Boom Deflection and Torsion Charts

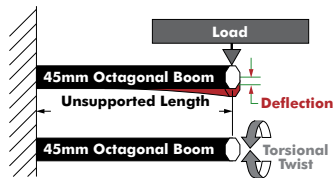


5 Kgf	11.0 lbf
10 Kgf	22.0 lbf
15 Kgf	33.0 lbf

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

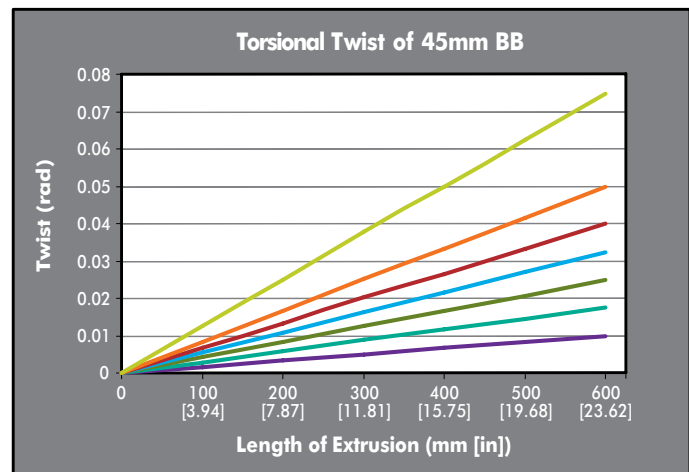
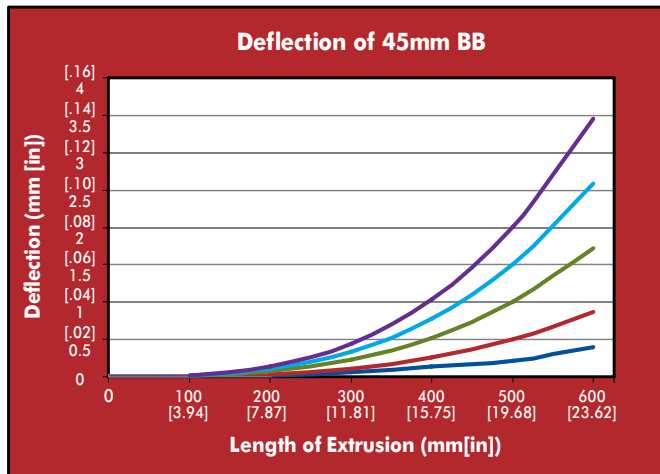
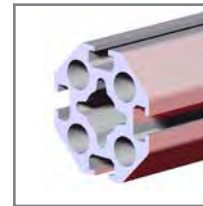


45mm Boom Deflection and Torsion Charts



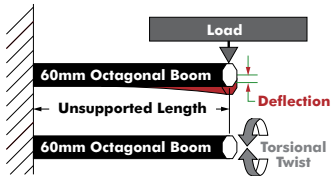
5 Kgf	11.0 lbf
10 Kgf	22.0 lbf
20 Kgf	44.1 lbf
30 Kgf	66.1 lbf
40 Kgf	88.2 lbf

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



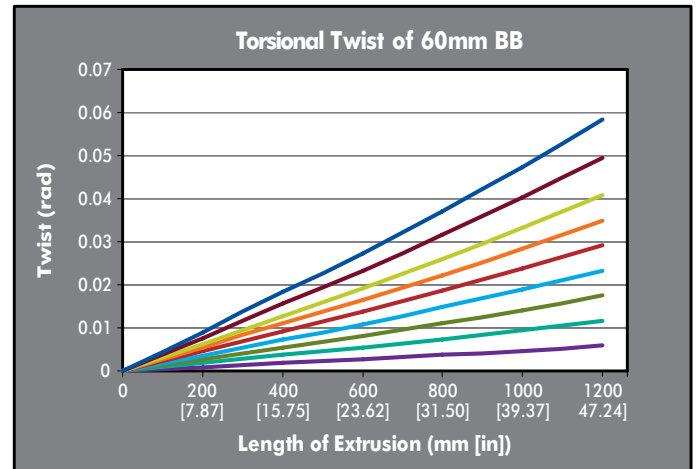
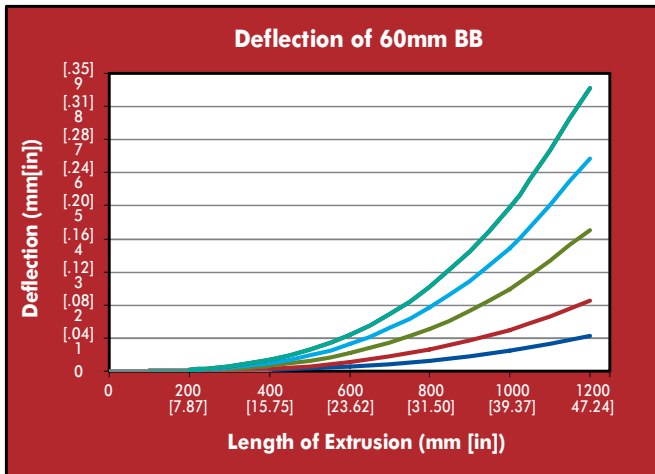
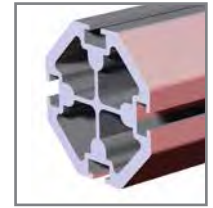
Note: Performance may vary if used with non-DESTACO components

60mm Boom Deflection and Torsion Charts

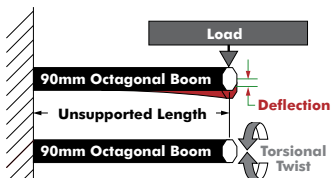


5 Kgf	11.0 lbf
10 Kgf	22.0 lbf
20 Kgf	44.1 lbf
30 Kgf	66.1 lbf
40 Kgf	88.2 lbf
50 Kgf	110.2 lbf

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

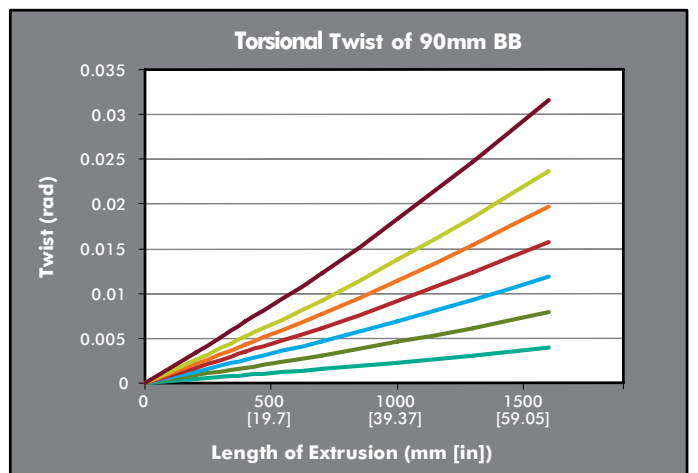
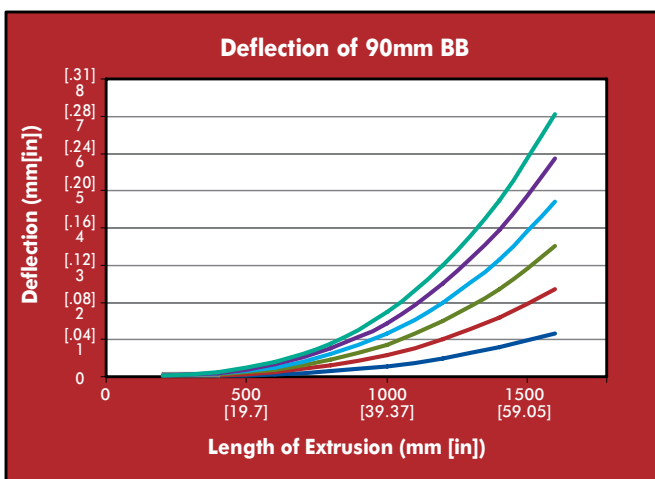
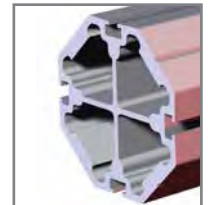


90mm Boom Deflection and Torsion Charts



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

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



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

BODYBUILDER™ BOOM STRUCTURE ACCESSORIES

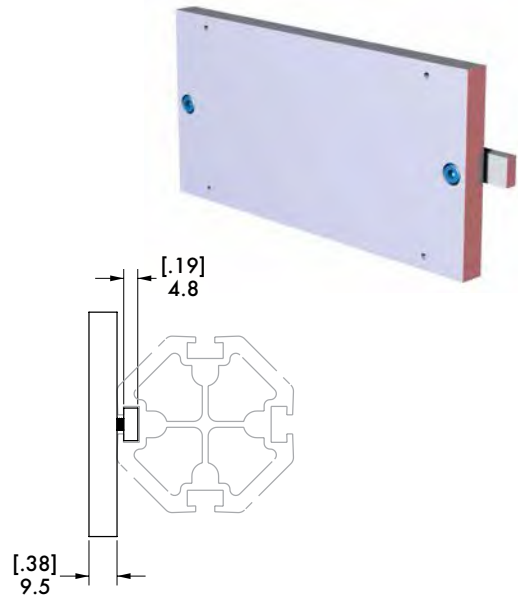
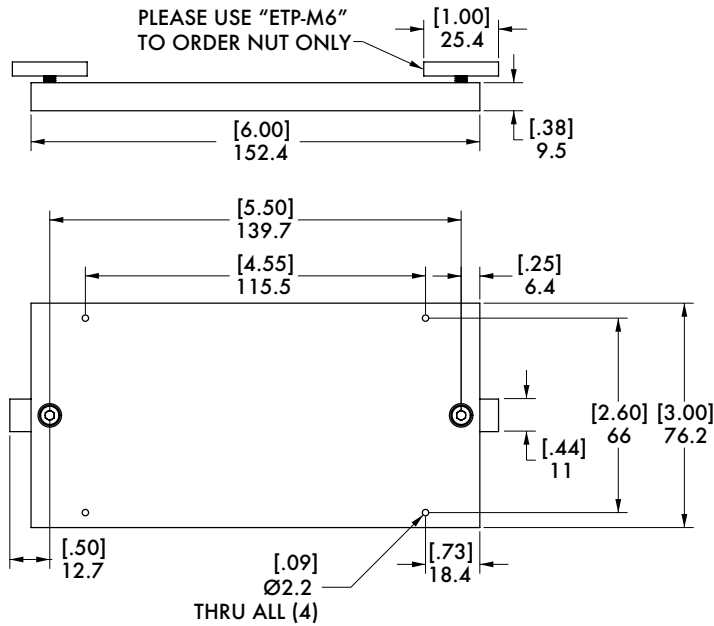


BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions

ETP-35 Extrusion Accessory Mount

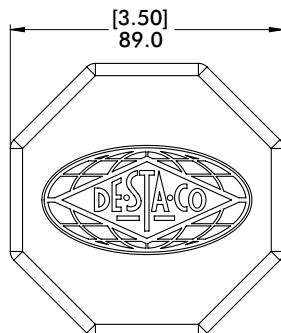


Specifications:
Material: Aluminum

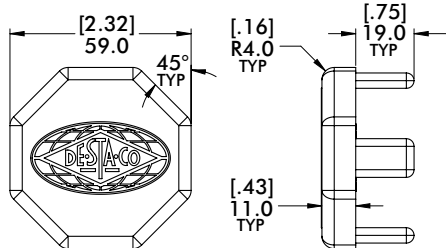


Model Number	Weight
CPI-ETP-35	.31 kg [.68 lb]

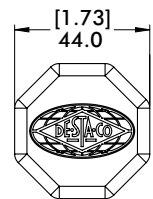
EC-60 60mm Bodybuilder Octagonal Boom End Cap



End Cap



60mm End Cap



45mm End Cap



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



EE-BBR-9

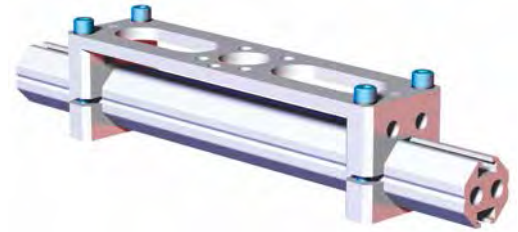
Dimensions and technical information are subject to change without notice



BODYBUILDER™ MID-MOUNT ASSEMBLIES

BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions

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

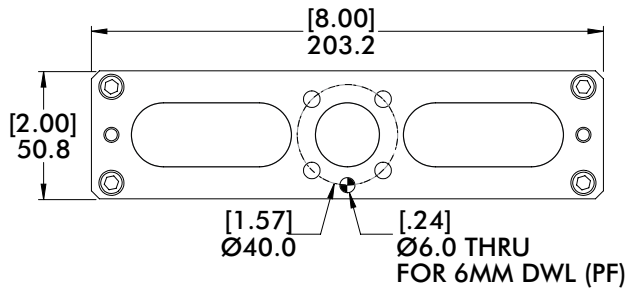
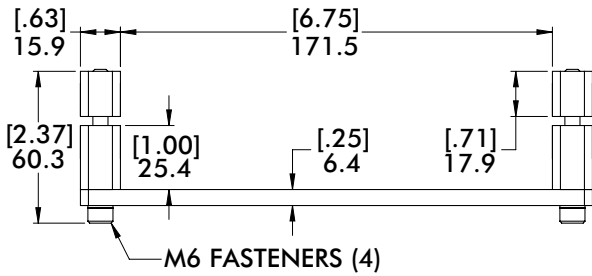
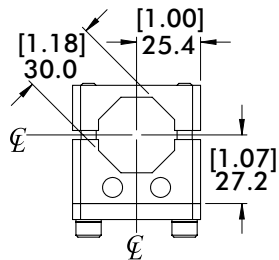
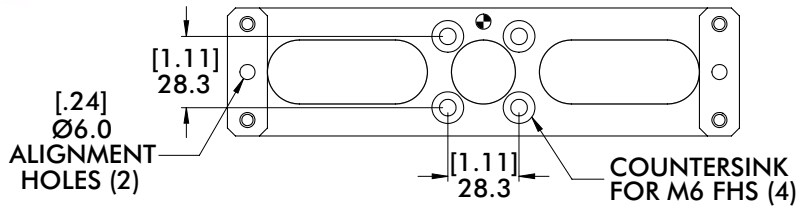
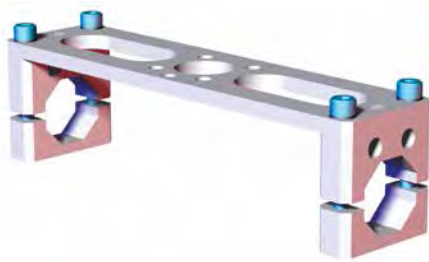


Specifications:

Max. Static Product Load:

102 Nm [75 ft-lb]

Material: Aluminum



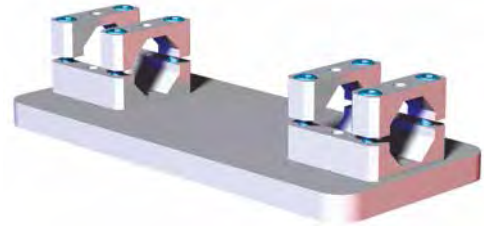
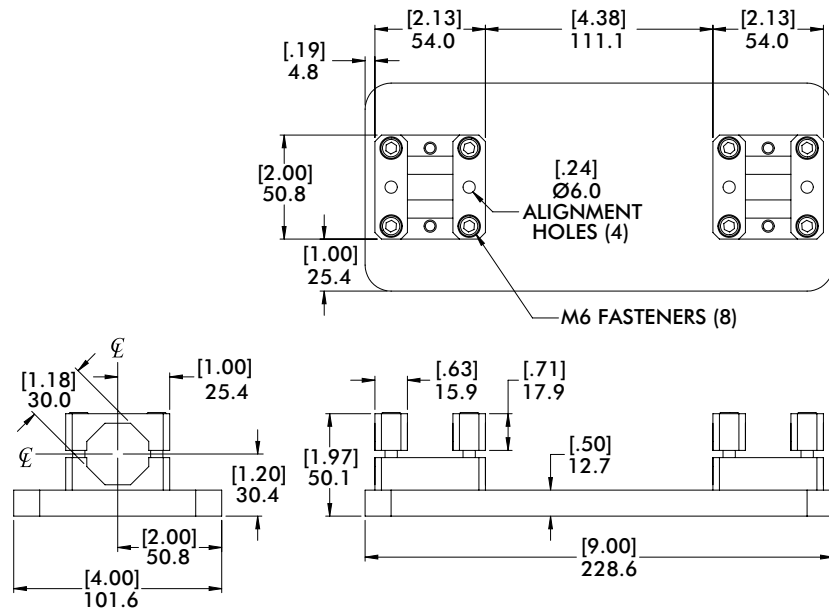
Model Number	Weight
CPI-RMM-30B-40BC-08-90	.28 kg [.62 lb]

BODYBUILDER™ MID-MOUNT ASSEMBLIES

BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions



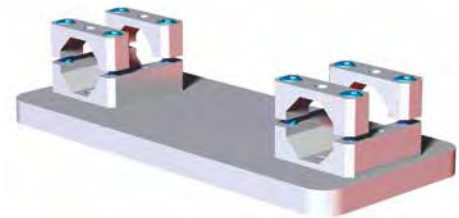
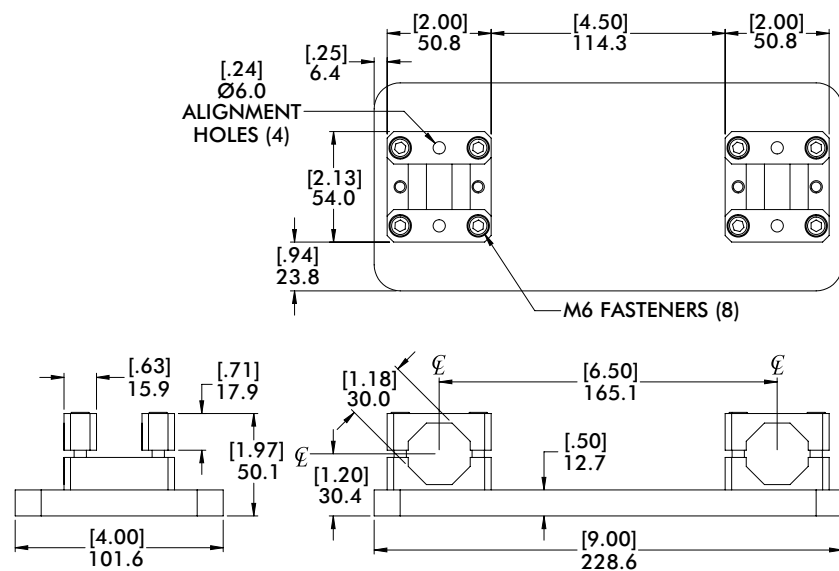
RMM-30B-SE Single Extrusion 60mm Robot Adaptor Mid Mount



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

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

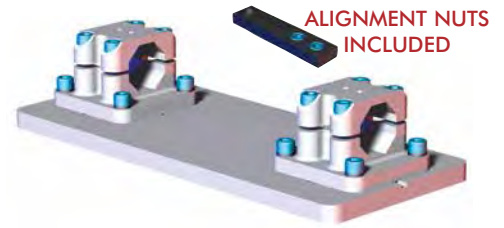
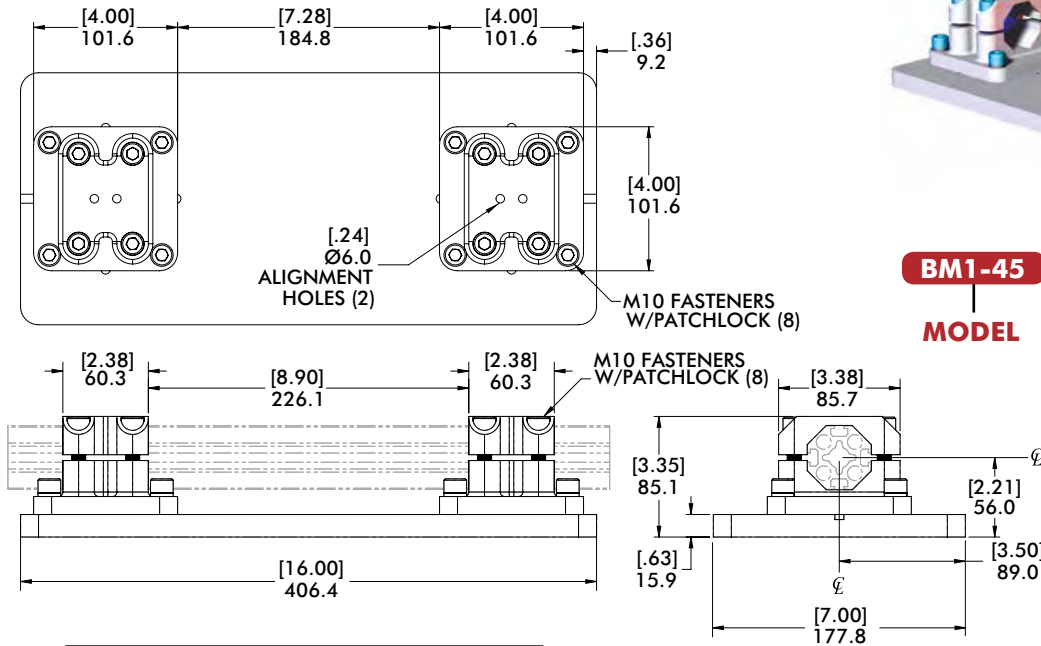
RMM-30B-DE Double Extrusion 30mm Robot Adaptor Mid Mount



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

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

BM1-45-SE Single Extrusion 45mm Mid Mount



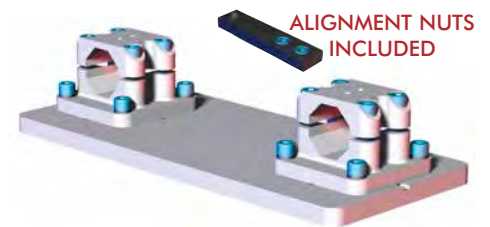
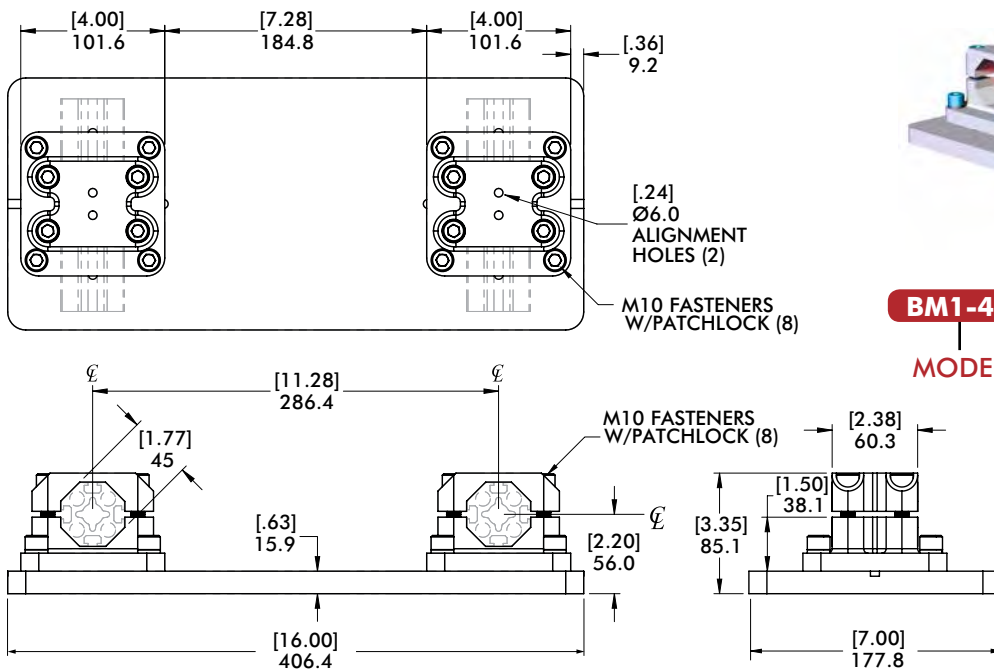
BM1-45 — **SE** — **RXX**
MODEL — **BOOM SETUP (SINGLE)** — **ROBOT INTERFACE PATTERN (PAGE 19-21)**

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

Weight
 5.05 kg [11.1 lb]

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

BM1-45-DE Double Extrusion 45mm Mid Mount



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

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

Weight
 5.05 kg [11.1 lb]

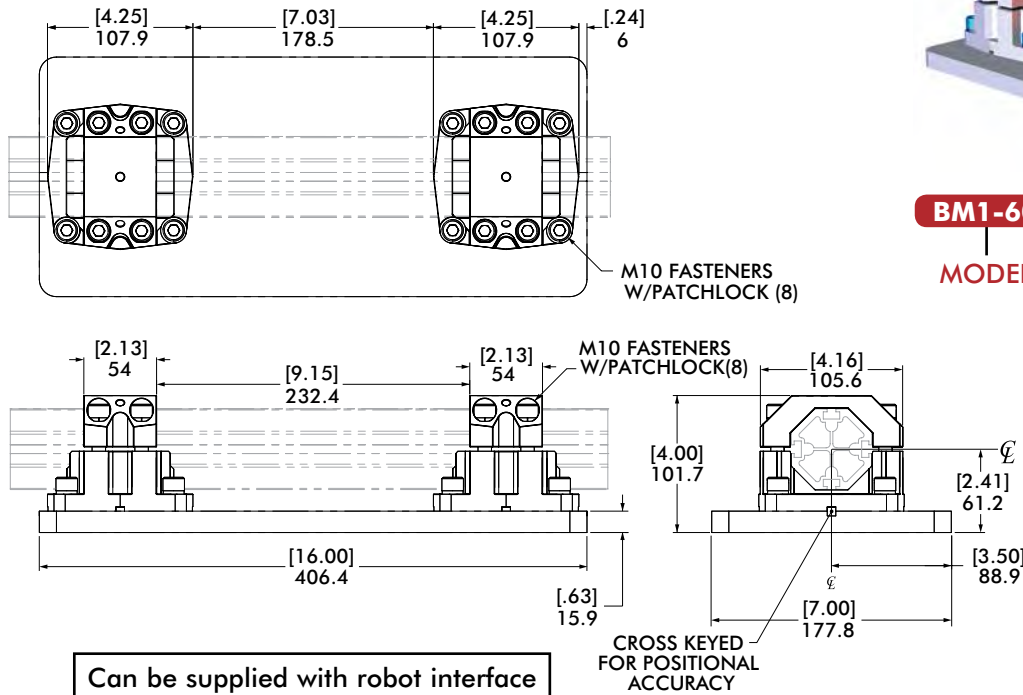
Can be supplied with robot interface hole patterns. (See pages 19-21).

BODYBUILDER™ MID MOUNT ASSEMBLIES

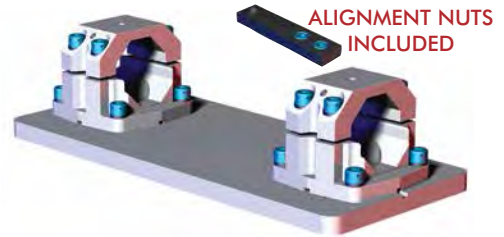
BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions



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



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



ALIGNMENT NUTS INCLUDED

BM1-60

MODEL

SE

BOOM
SETUP
(SINGLE)

RXX

ROBOT
INTERFACE
PATTERN
(PAGE 19-21)

Specifications:

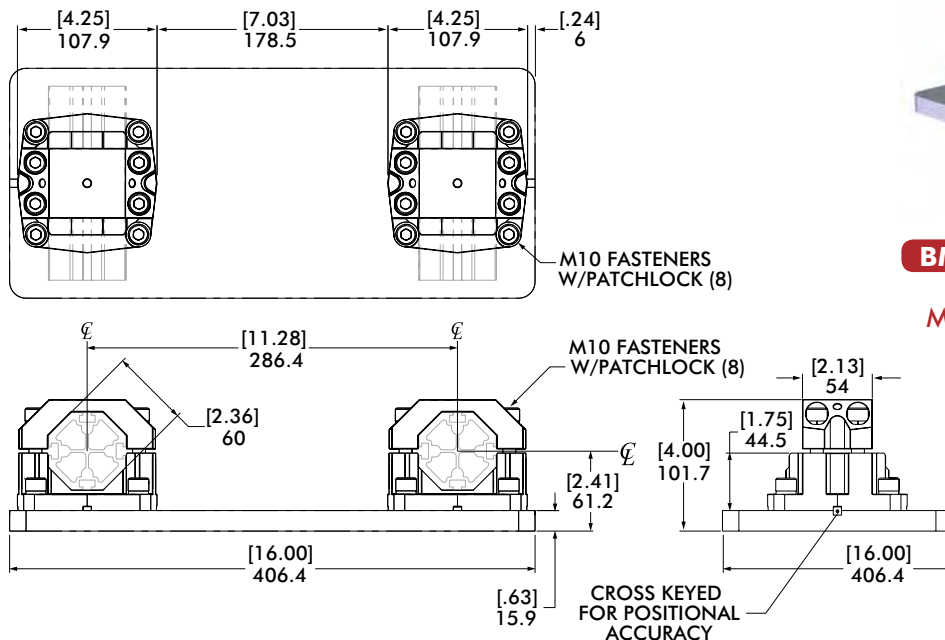
Max. Static Product Load:
675 Nm [500 ft-lb]

Material: Aluminum

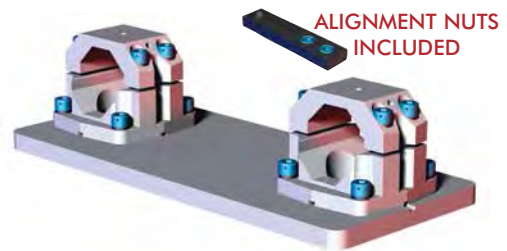
Weight

5.2 kg [11.5 lb]

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



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



ALIGNMENT NUTS INCLUDED

BM1-60

MODEL

DE

BOOM
SETUP
(DOUBLE)

RXX

ROBOT
INTERFACE
PATTERN
(PAGE 19-21)

Specifications:

Max. Static Product Load:
675 Nm [500 ft-lb]

Material: Aluminum

Weight

5.2 kg [11.5 lb]

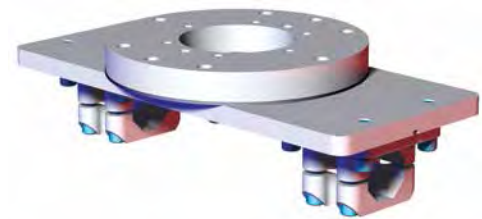
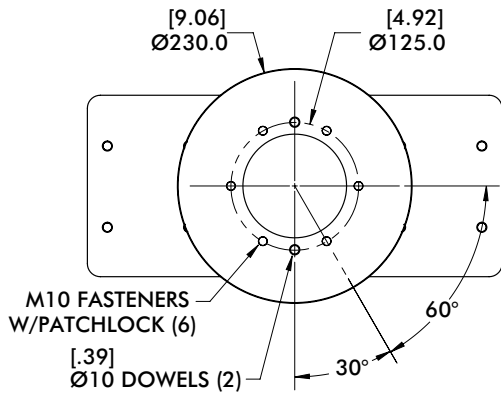
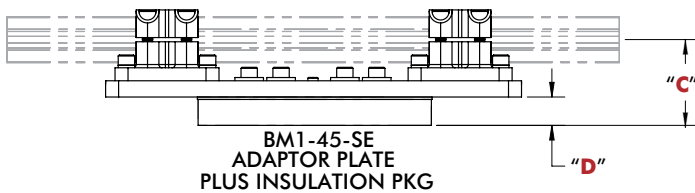
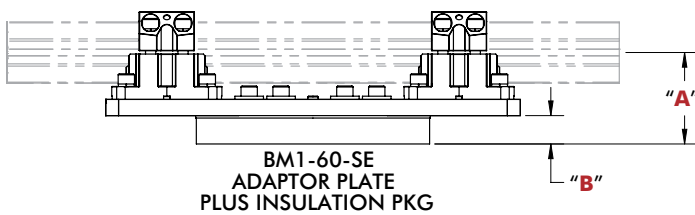
BM1-45/BM1-60 Mid Mount Assembly - Mount Plate



Specifications:
Material: Aluminum

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

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



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

MID MOUNT ASSEMBLY ADAPTER PLATE

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

BODYBUILDER™ MID MOUNT ASSEMBLIES



BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions

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

Features:

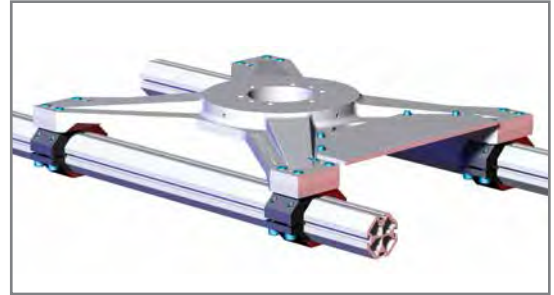
- Can be used as a direct robot interface.
- Provide robust clamping of each extrusion for maximum stability.
- Standard robot interface patterns provided. Plate can also be left blank.

Specifications:

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

Material:

Mid Mount:
Cast Aluminum
Clamps: Steel



ROBOT INTERFACE PLATE SHOWN BLANK.

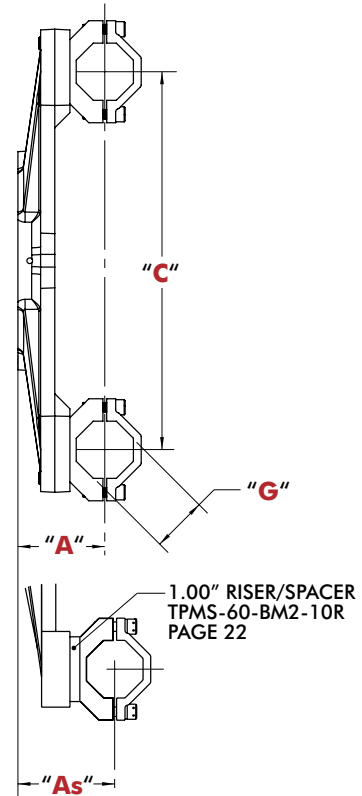
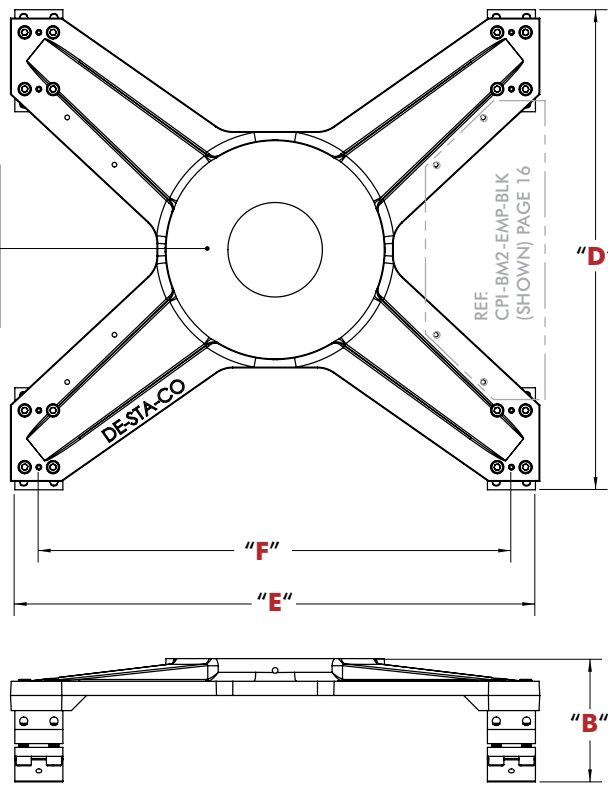
PLEASE REFER TO PAGES 20-22 FOR STANDARD ROBOT INTERFACE BOLT PATTERNS & DIMENSIONS

NOTE:

SCREWS AND FASTENERS FOR MOUNTING ARE NOT INCLUDED

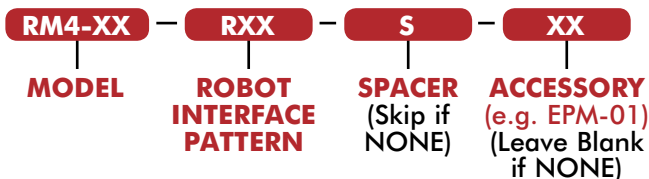
ADD 1.5MM TO "A"/"AS" DIM FOR INSULATION PACKAGE IF REQUIRED.

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

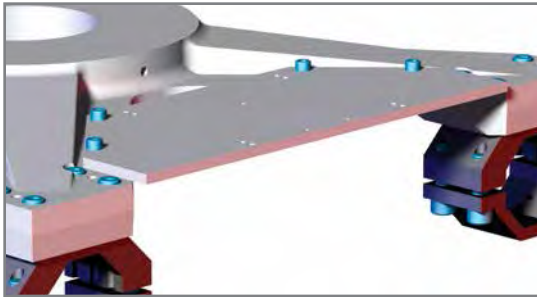


HEAVY-DUTY MID MOUNT ASSEMBLY DIMENSIONS

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

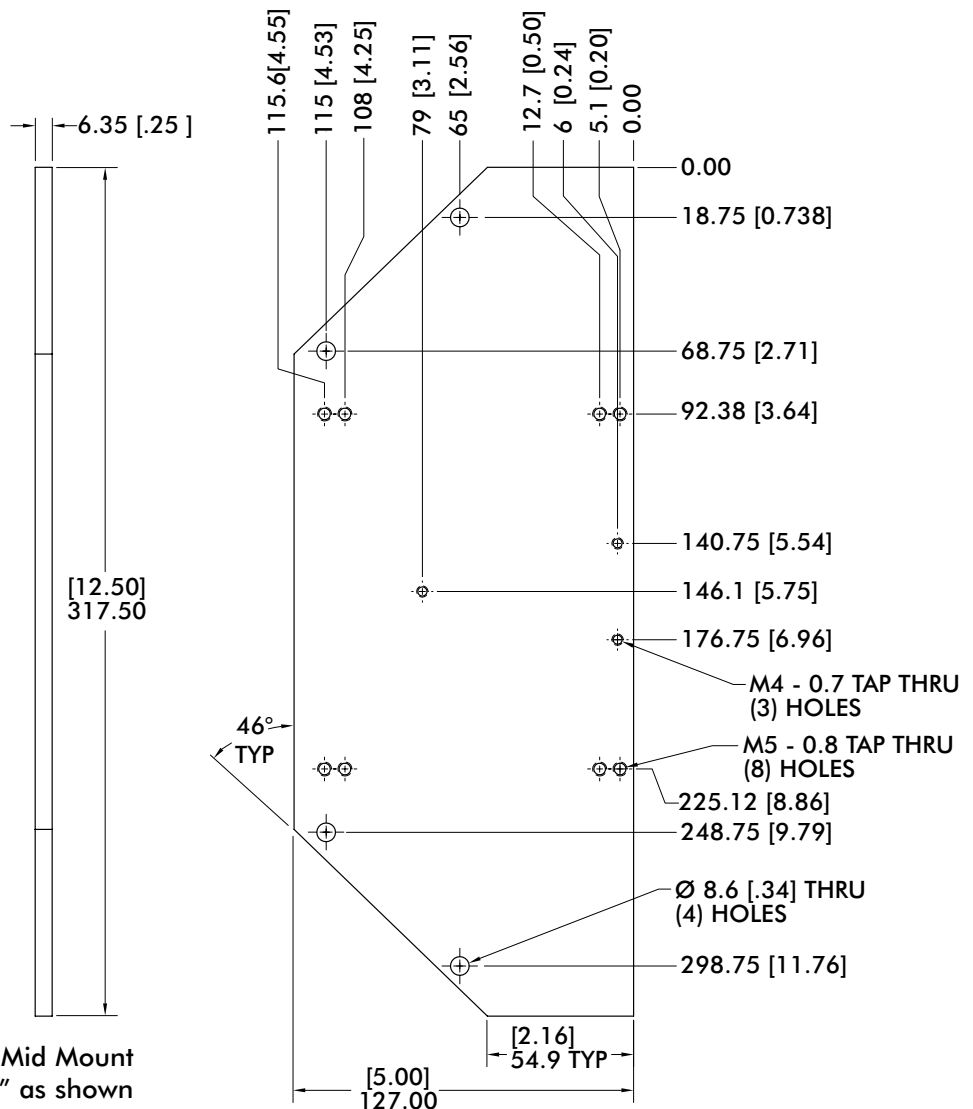


BM2-EPM Accessory Mount Plate



Specifications:
Material: Aluminum

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



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

To order separately use Model Number

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

BODYBUILDER™ STRUCTURE MID MOUNT ASSEMBLIES

BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions



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



ROBOT INTERFACE PLATE SHOWN BLANK.

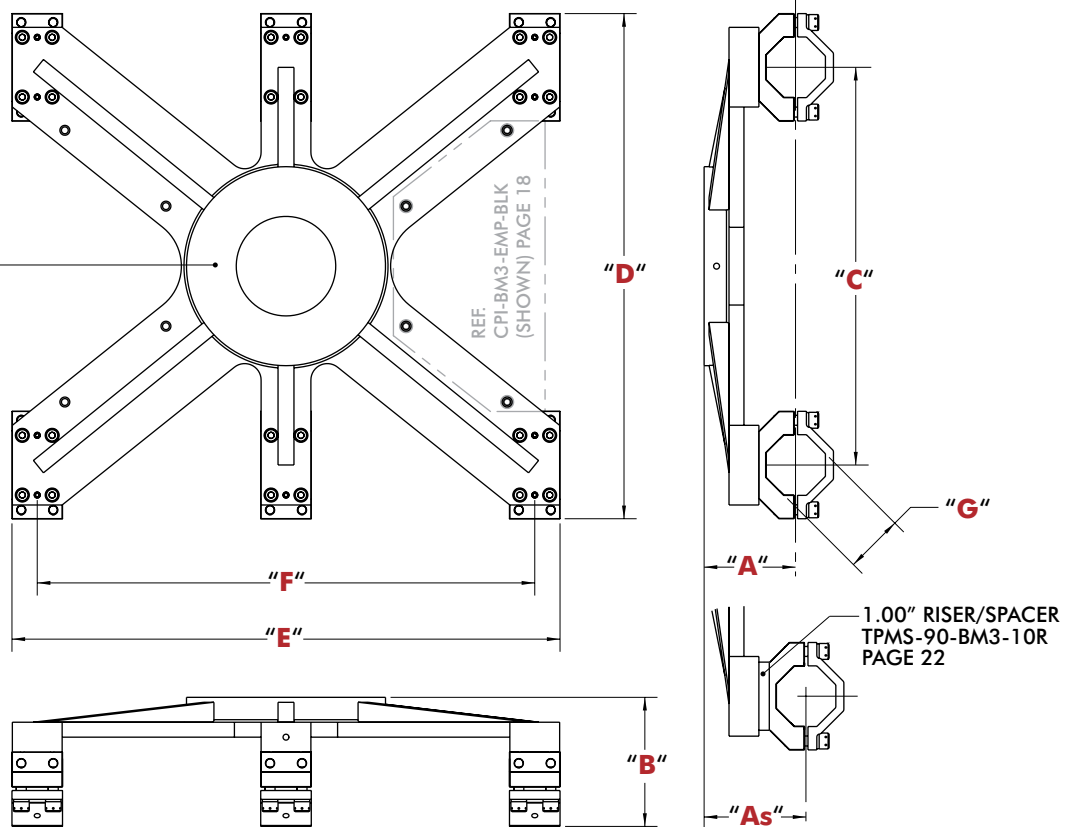
PLEASE REFER TO PAGES 19-21 FOR STANDARD ROBOT INTERFACE BOLT PATTERNS & DIMENSIONS

NOTES:

SCREWS AND FASTENERS FOR MOUNTING ARE NOT INCLUDED

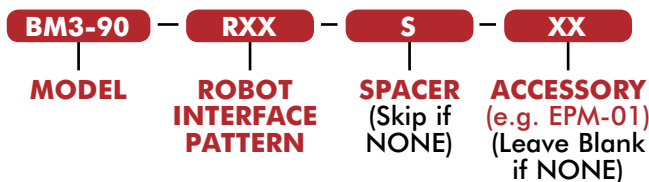
ADD 1.5MM TO "A"/"AS" DIM FOR INSULATION PACKAGE IF REQUIRED.

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

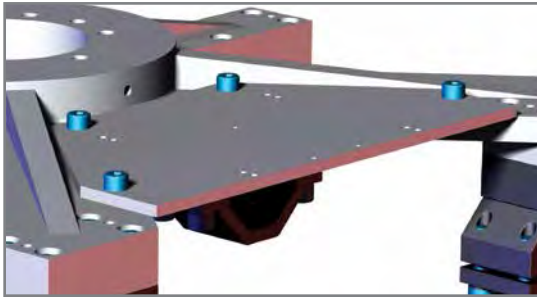


HEAVY-DUTY MID MOUNT ASSEMBLY DIMENSIONS

Model	"A"	"As"	"B"	"C"	"D"	"E"	"F"	"G"	Weight
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]



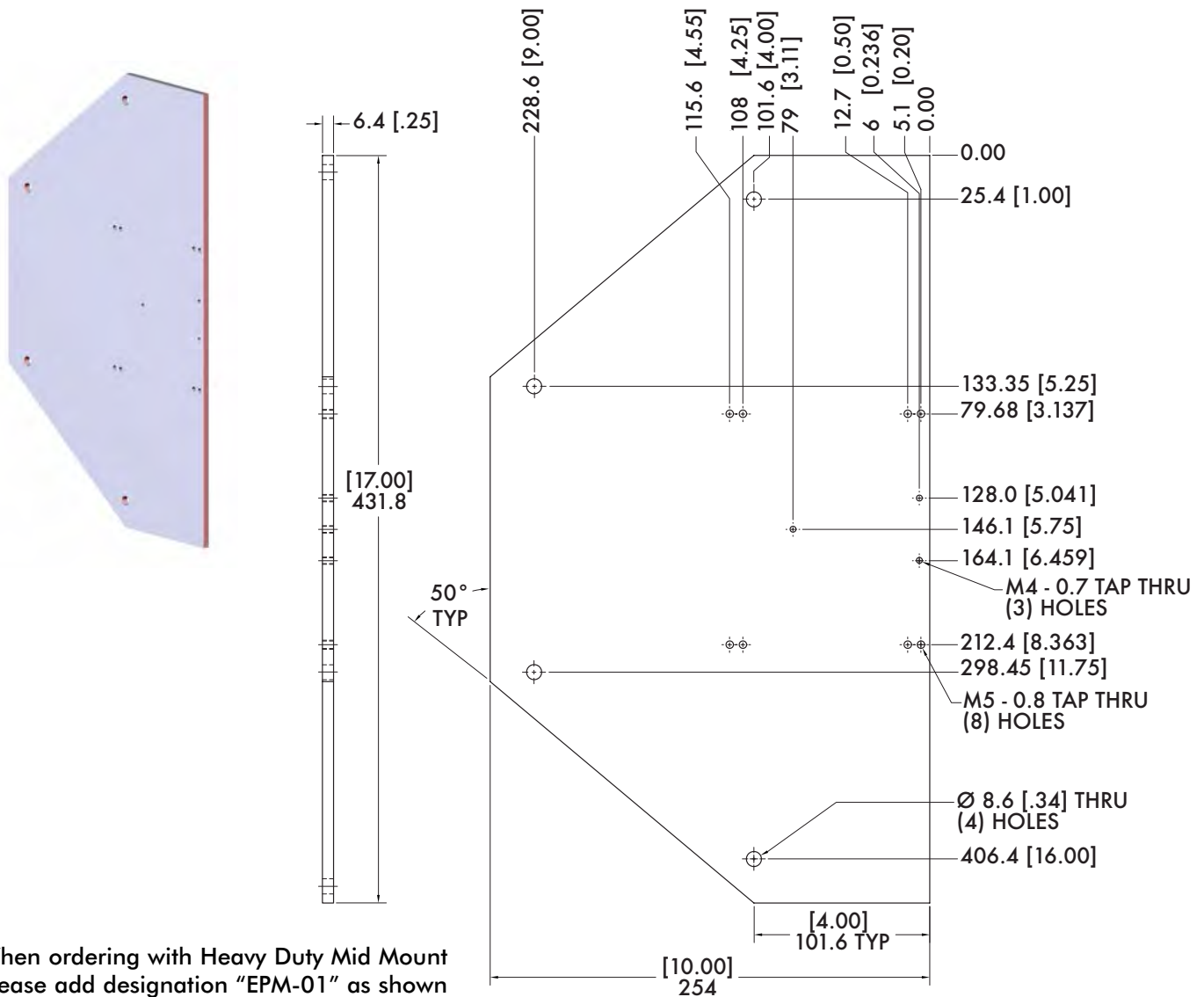
BM3-EPM Accessory Mount Plate



Specifications:
Material: Aluminum

Features:

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



When ordering with Heavy Duty Mid Mount Please add designation "EPM-01" as shown
BM3-90-RXX-EPM-01 or
 add designation "EPM-BLK" to order blank
BM3-90-RXX-EPM-BLK
 To order separately use Model Number

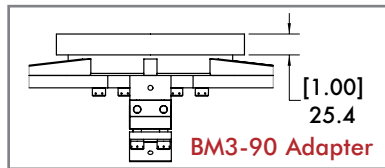
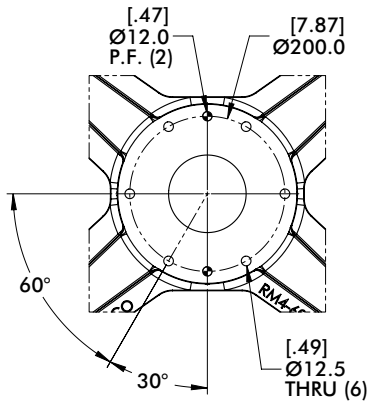
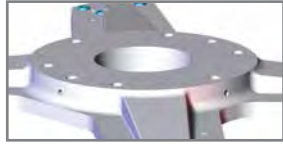
Model Number	Weight
CPI-BM3-EPM-xx	1.54 kg [3.39 lb]

BODYBUILDER™ MID MOUNT BOLT PATTERNS

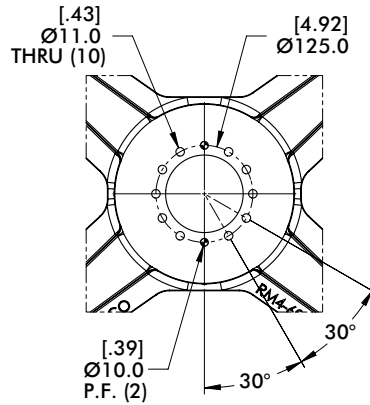
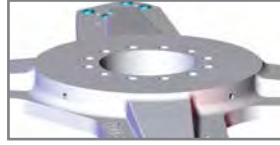
BodyBuilder™ Octagonal Tooling | Robot Interface Bolt Patterns



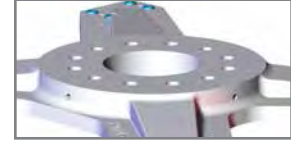
R01 (Ø200mm Bolt Circle)



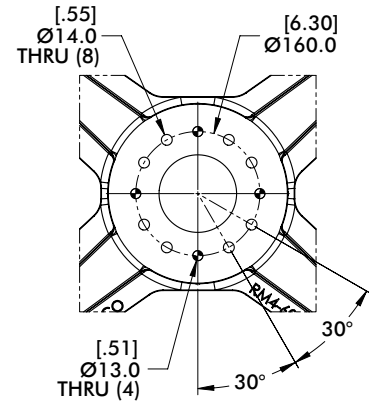
R02 (Ø125mm Bolt Circle)



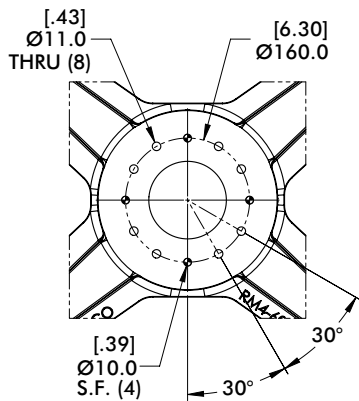
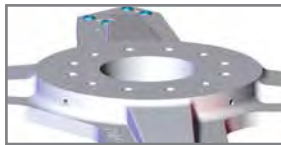
R03 (Ø160mm Bolt Circle)



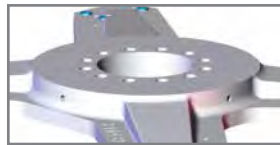
Includes Insulation
Add 1.5mm to Height Dim "A"/"AS"



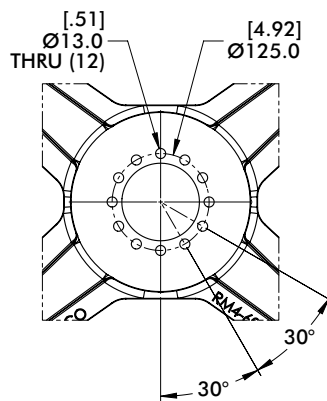
R04 (Ø160mm Bolt Circle)



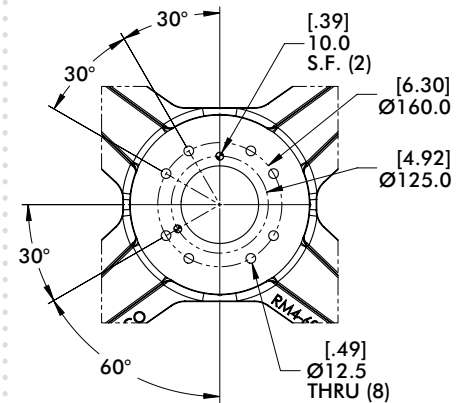
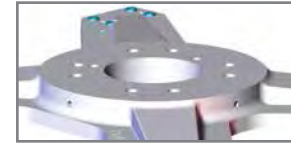
R05 (Ø125mm Bolt Circle)



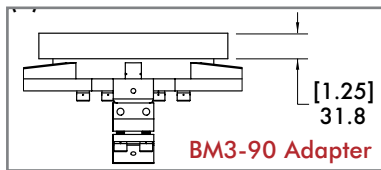
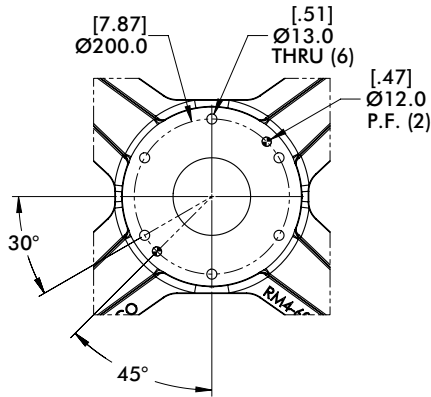
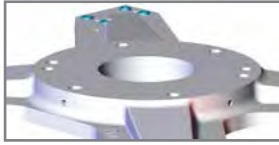
Includes Insulation
Add 1.5mm to Height Dim "A"/"AS"



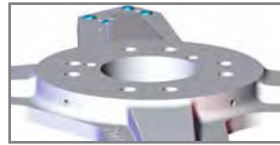
R06 (Ø125/160mm Bolt Circle)



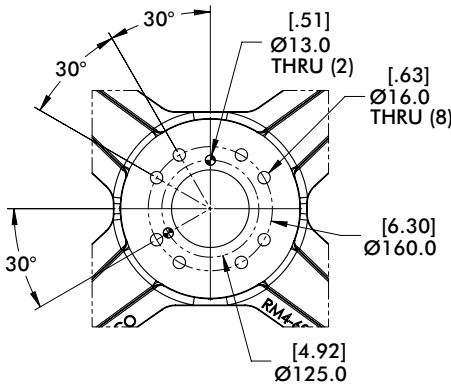
R07 (Ø200mm Bolt Circle)



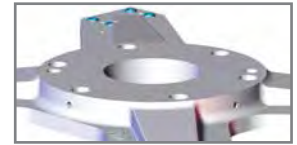
R08 (Ø125/160mm Bolt Circle)



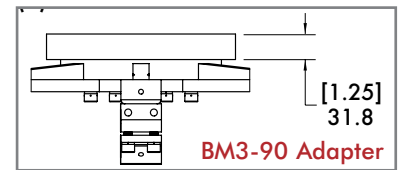
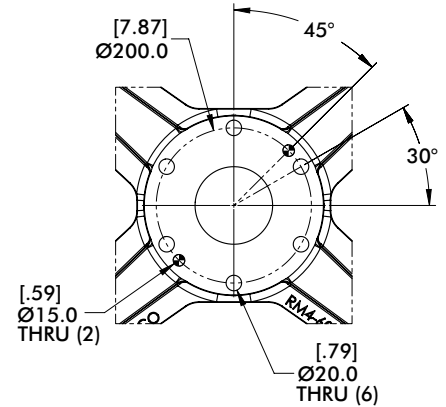
Includes Insulation
Add 1.5mm to Height Dim "A"/"AS"



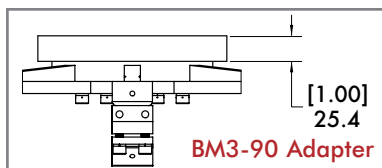
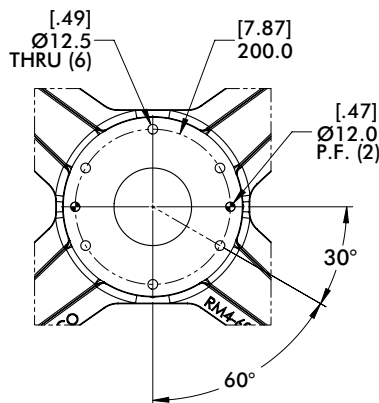
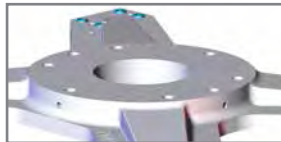
R09 (Ø200mm Bolt Circle)



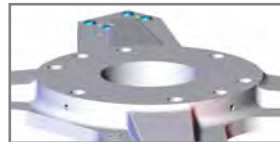
Includes Insulation
Add 1.5mm to Height Dim "A"/"AS"



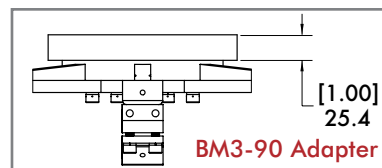
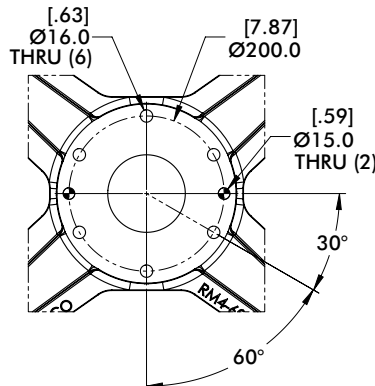
R10 (Ø200mm Bolt Circle)



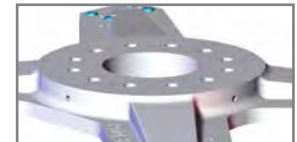
R11 (Ø200mm Bolt Circle)



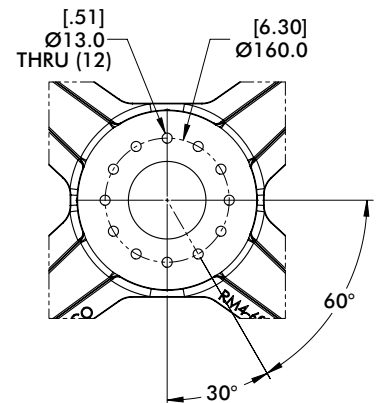
Includes Insulation
Add 1.5mm to Height Dim "A"/"AS"



R12 (Ø160mm Bolt Circle)



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

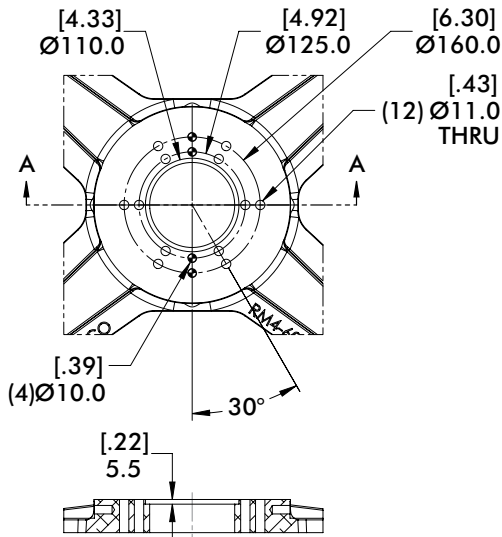
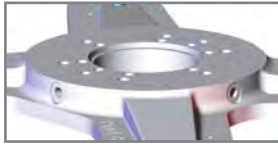


BODYBUILDER™ MID MOUNT BOLT PATTERNS

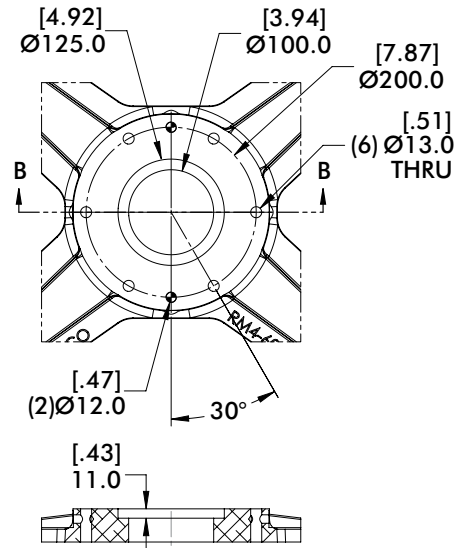
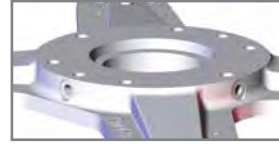


BodyBuilder™ Octagonal Tooling | Robot Interface Bolt Patterns

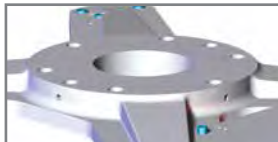
**R13 (Ø125/160mm Bolt Circle)
(Ø110mm Pilot, 5.5mm Deep)**



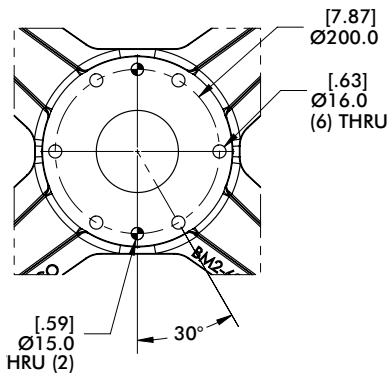
**R14 (Ø200mm Bolt Circle)
(Ø125mm Pilot, 11mm Deep)**



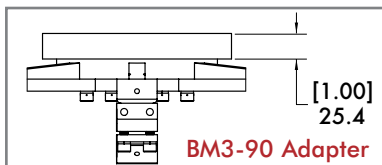
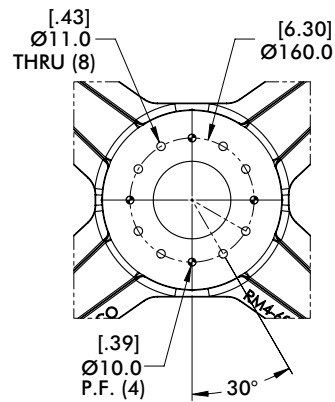
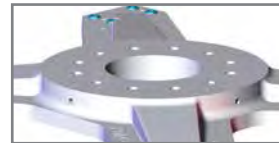
R16 (Ø200mm Bolt Circle)



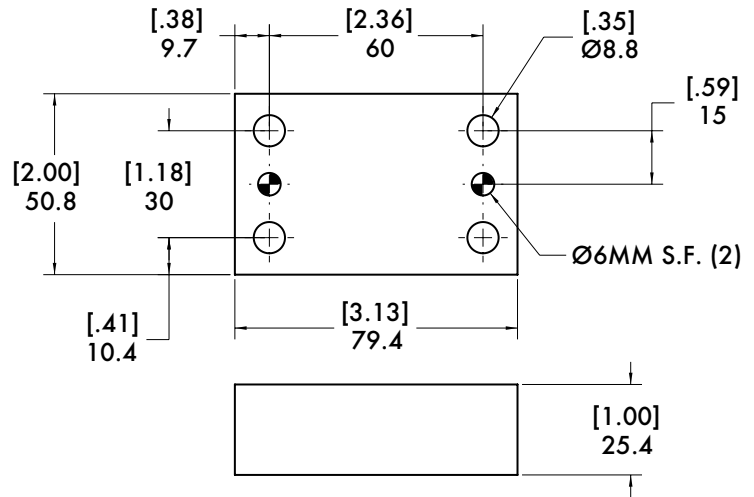
Includes Insulation
Add 1.5mm to Height Dim "A"/"AS"



R17 (Ø160mm Bolt Circle)



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



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

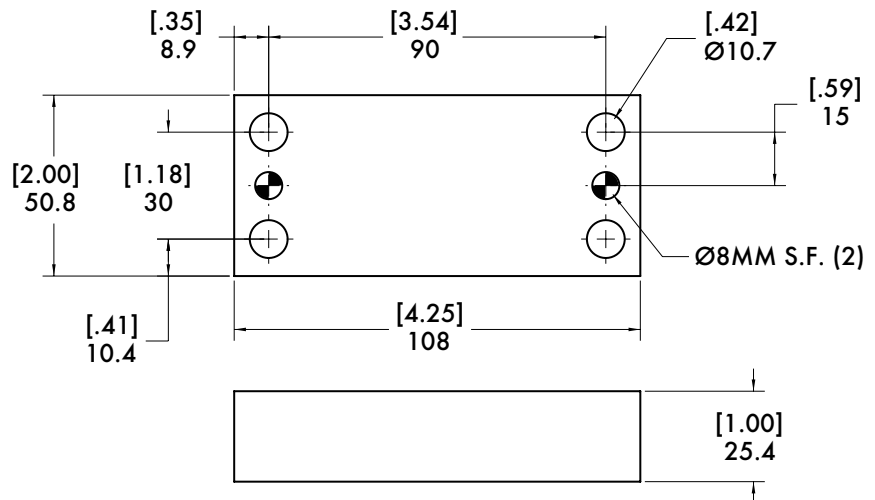
RM4-60-RXX-S

To order Riser separately use Model Number.

Riser for	Model	Weight
RM4-45/60	TPMS-60-BM2-10R	.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
TPMS-90-BM3-10R	.34 kg [.76 lb]

Specifications:
Material: Aluminum

BODYBUILDER™ HOLD TABLE



BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions

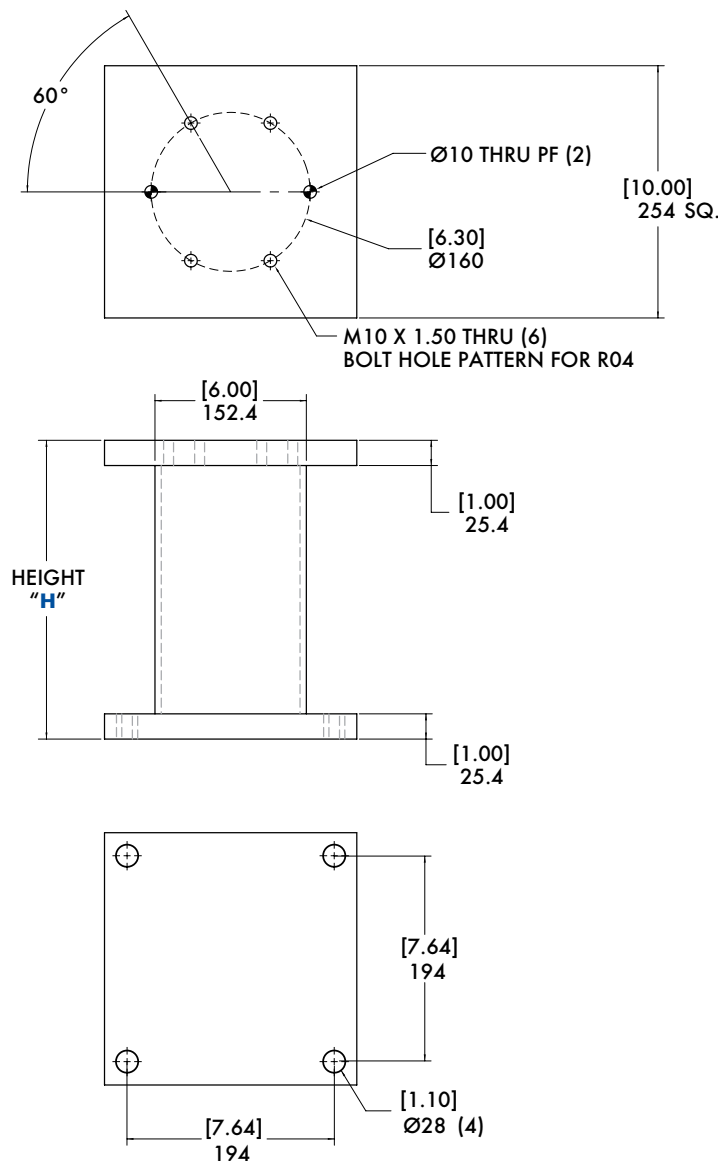
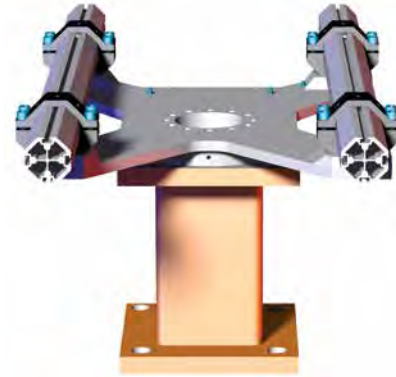
HTW 6" SQ. Pedestal Hold Table Weldment

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]

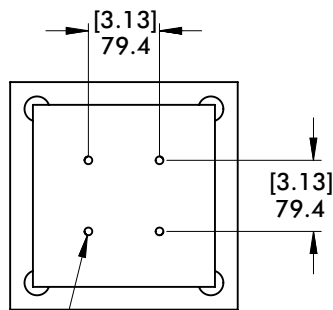


HTW-4 4" SQ. Pedestal Hold Table Weldment

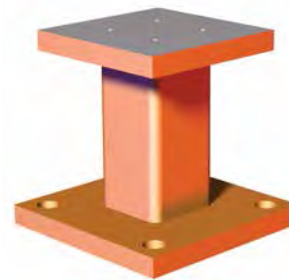
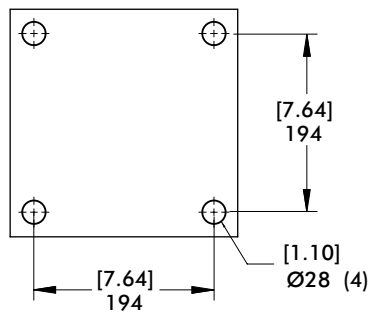
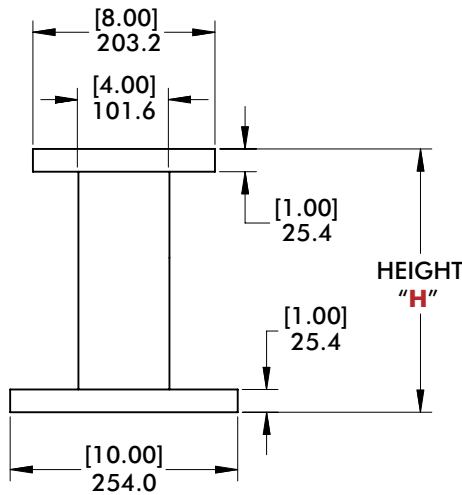
Specifications:
Material: Steel

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

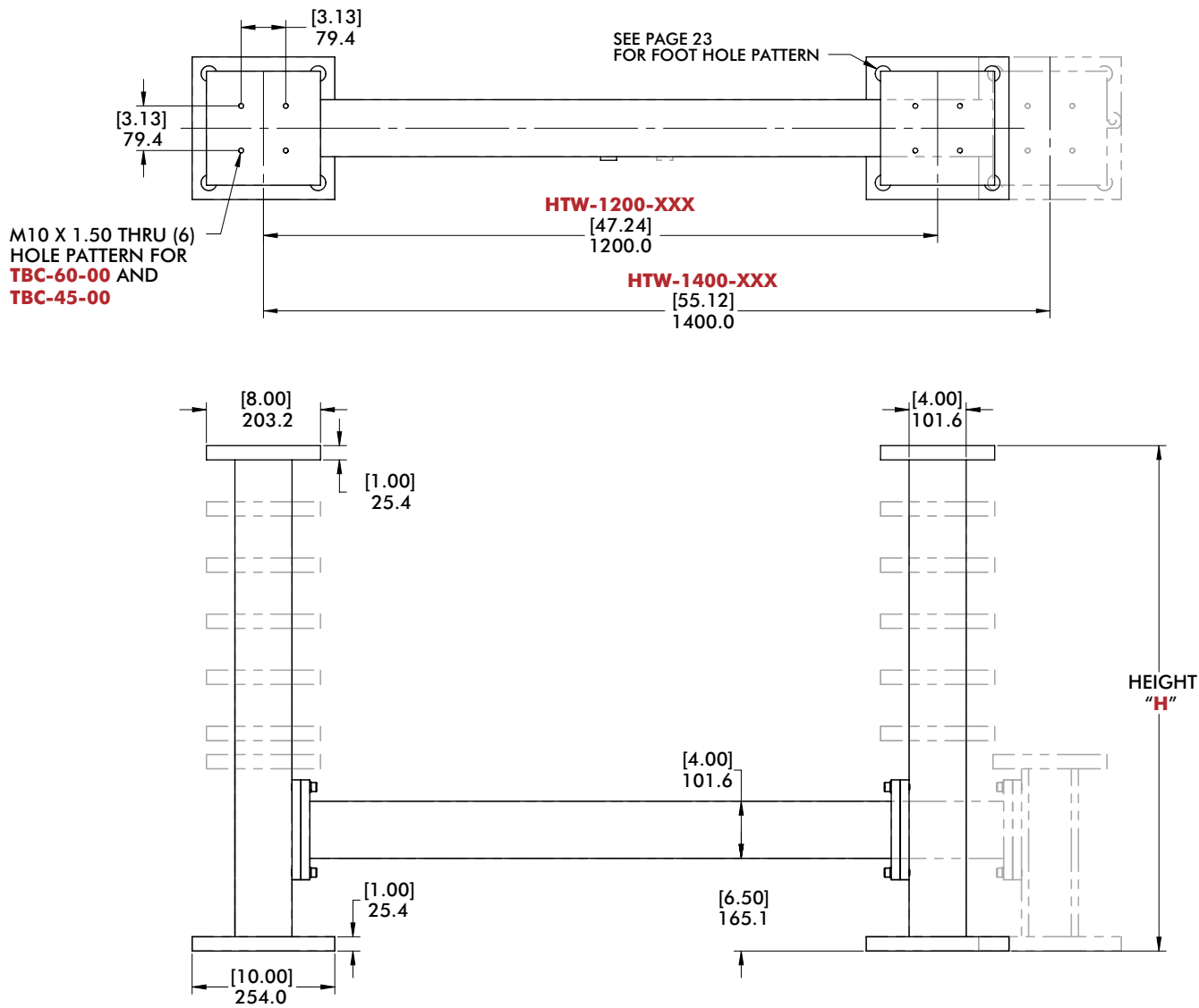
“H”	Model Number	Weight
250	CPI-HTW-250-4	24.02 kg [52.97lb]
300	CPI-HTW-300-4	24.93 kg [54.96lb]
350	CPI-HTW-350-4	25.83 kg [56.95lb]
400	CPI-HTW-400-4	26.73 kg [58.94lb]
450	CPI-HTW-450-4	27.63 kg [60.93lb]
500	CPI-HTW-500-4	28.54 kg [62.92lb]
550	CPI-HTW-550-4	29.44 kg [63.82lb]
600	CPI-HTW-600-4	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 | Technical Specifications and Dimensions



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]

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



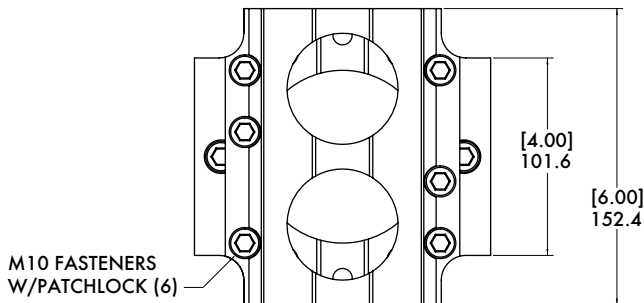
Specifications:

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

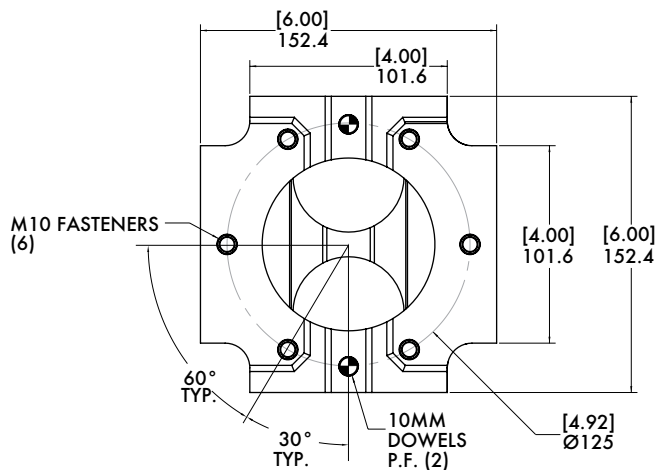
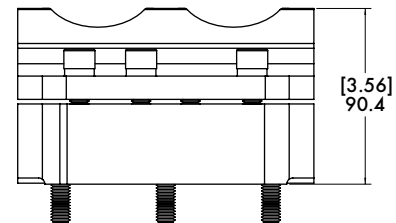
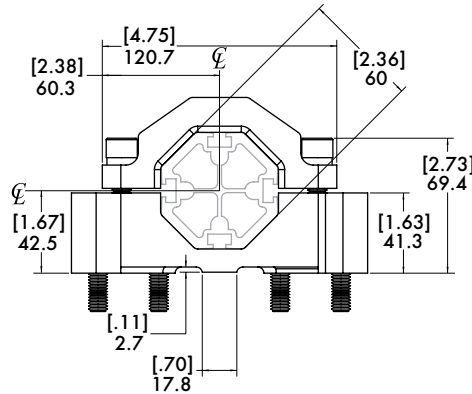
Material: Aluminum

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]

BODYBUILDER™ MID MOUNT ASSEMBLIES



BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions

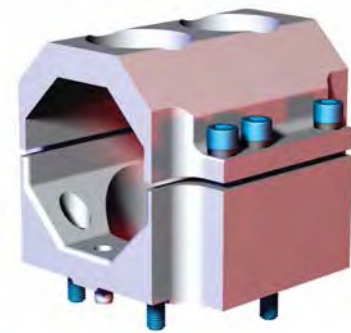
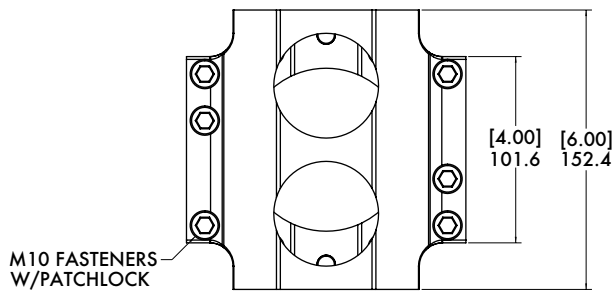
ATI-151-90HD-90BB 90mm Mid Mount

Features:

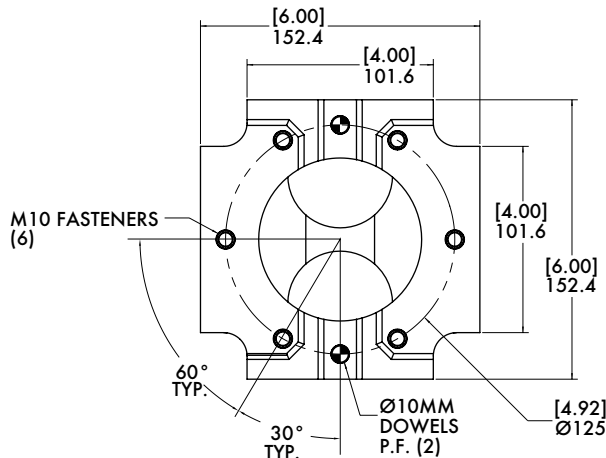
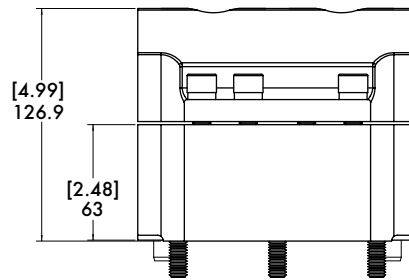
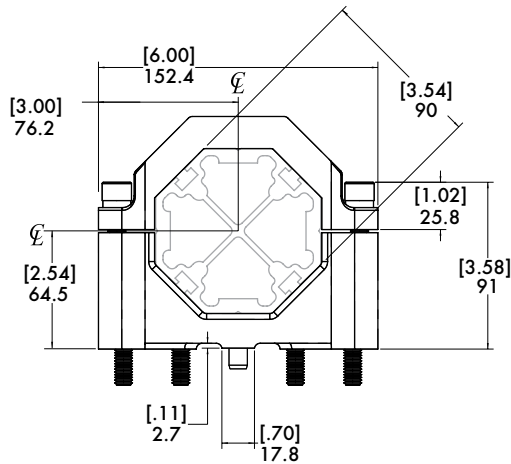
- Can be used as direct robot interface.

Specifications:

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



Fasteners and Dowels Included



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



EE-BBR-27

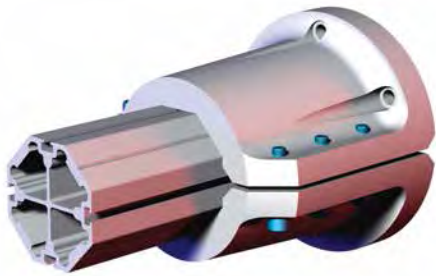
Dimensions and technical information are subject to change without notice



BODYBUILDER™ END MOUNT ASSEMBLIES

BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions

CL-90B-160F 90mm End Mount



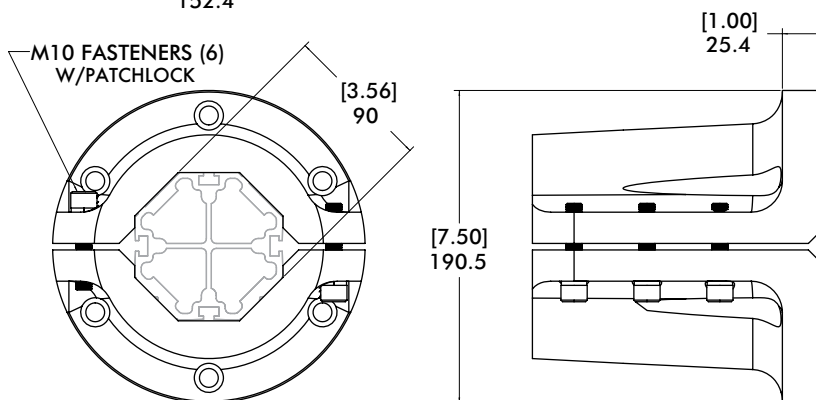
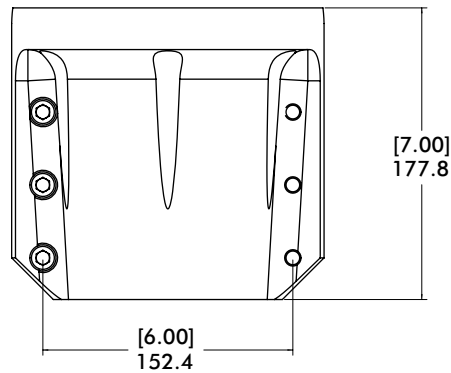
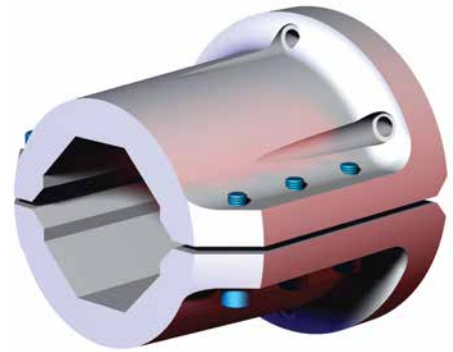
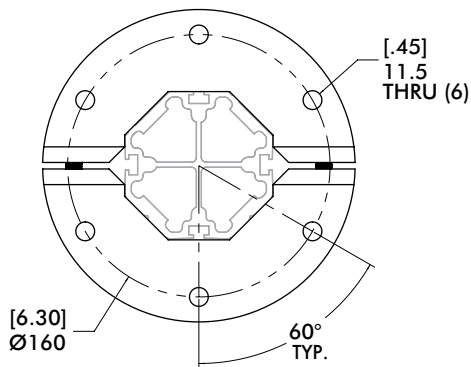
Specifications:

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



BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions

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.

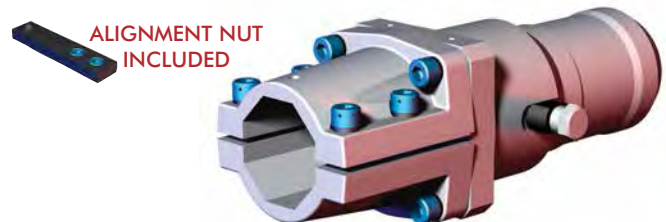
Specifications:

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

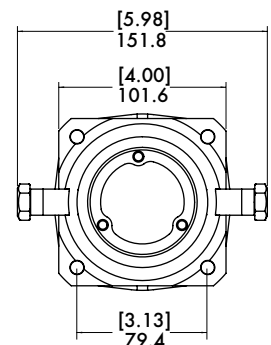
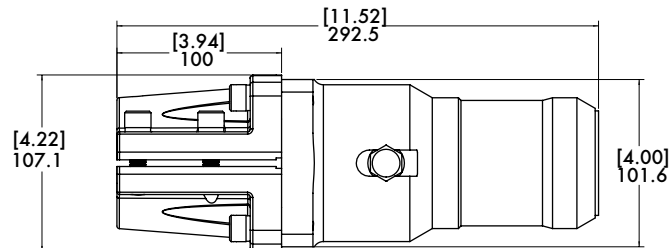
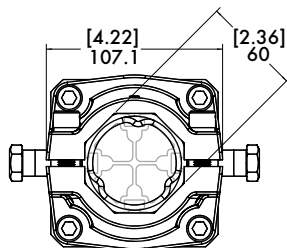
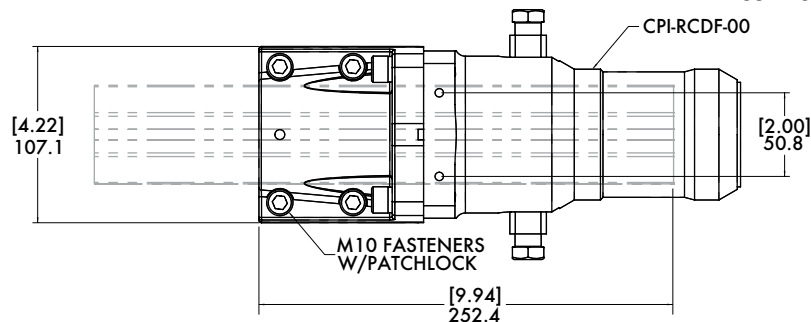
Material:
Body: Aluminum
Pins: Steel



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 | Technical Specifications and Dimensions

RDN-25-6 Manual Quick Disconnect Housing



Specifications:

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

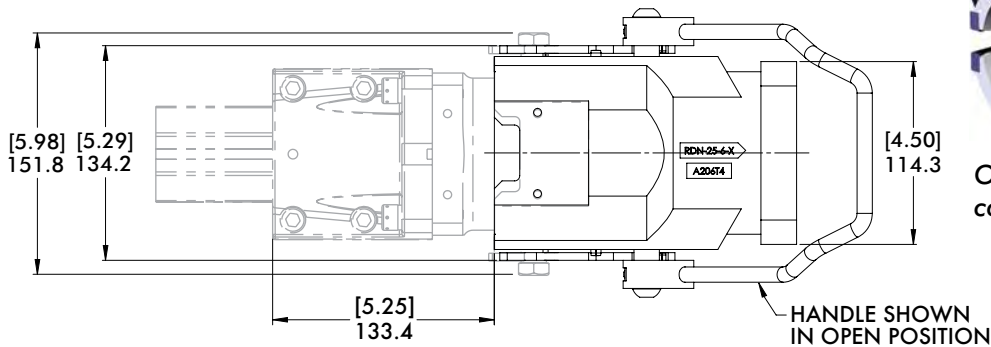
Material:

Body: Aluminum
Knuckles: Brass
Handle and Hooks: Steel
Inserts: Urethane

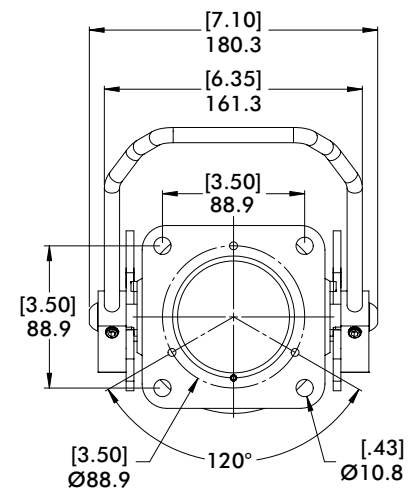
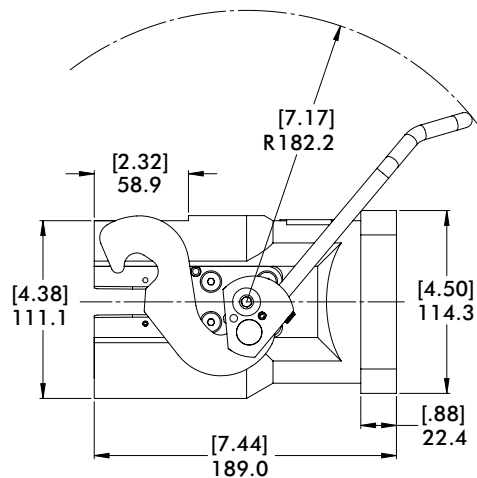
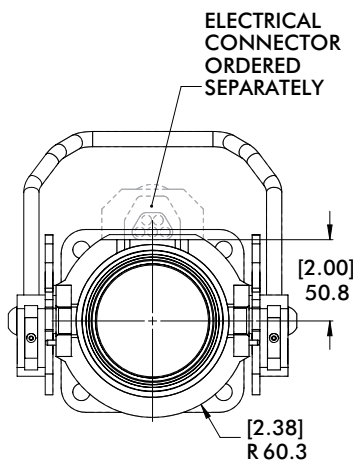
Features:

- 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-RDN-25-6

Weight
4.00 kg [8.90 lb]

BODYBUILDER™ ALIGNMENT SYSTEM



BodyBuilder™ Octagonal Tooling | Explaining the Patented Alignment System

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

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

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

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

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

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

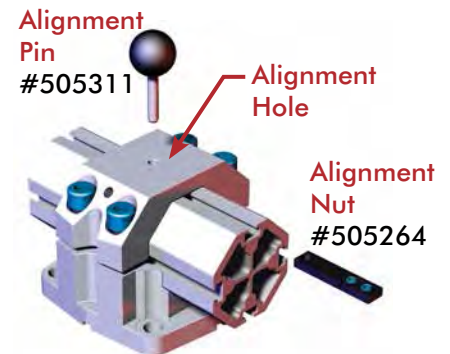
The alignment nut remains in place even when the bracket mount is removed.

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

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

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

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



U.S. PATENT 6,349,912

CLM-30B-30B 30mm to 30mm (Micro) Transition Bracket Assembly



Specifications:

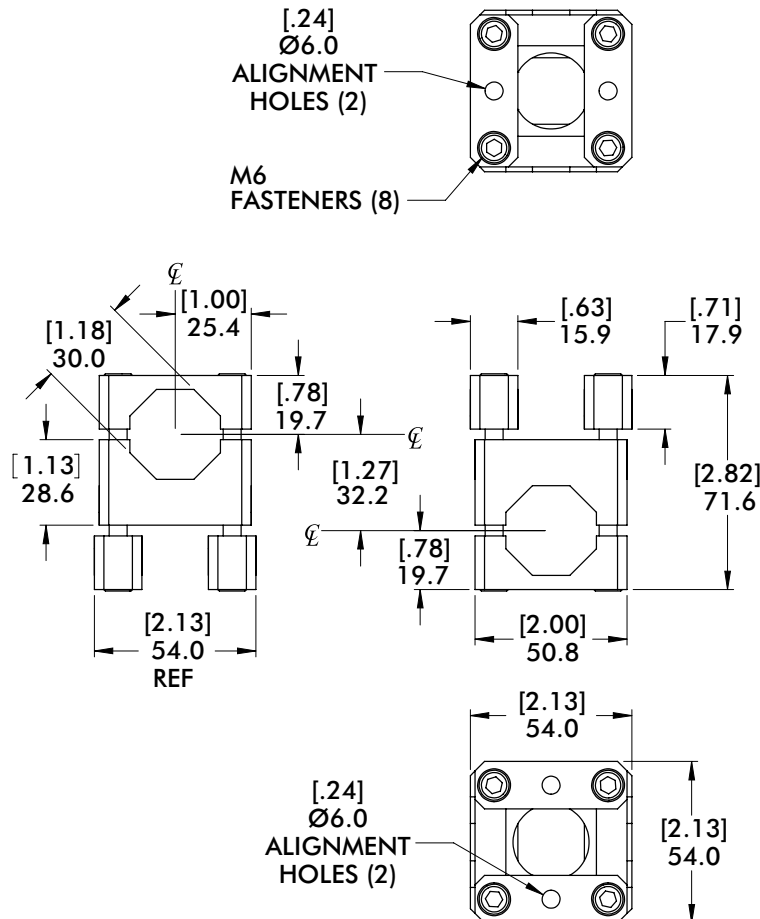
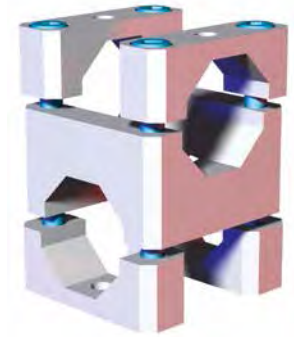
Max. Static Clamp Load:

102 Nm [75 ft-lb]

Material: Aluminum

Features:

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



Model Number	Weight
CPI-CLM-30B-30B	.24 kg [.54 lb]

BODYBUILDER™ TRANSITION BRACKETS AND BLOCKS

BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions



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

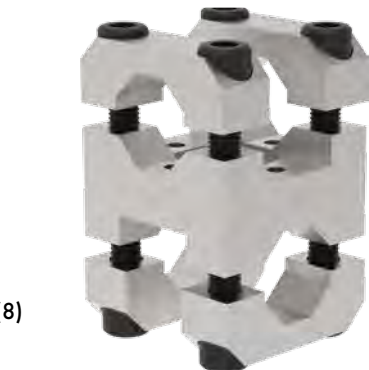
Features:

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

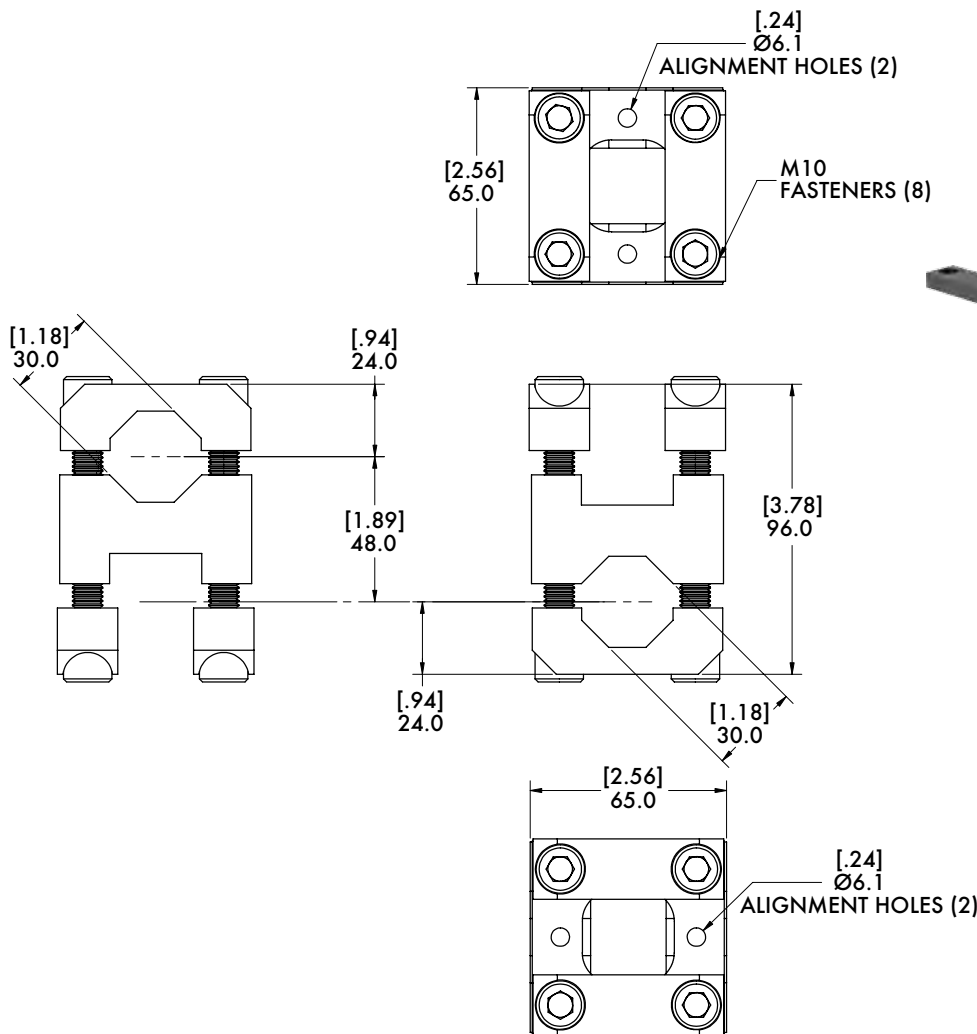
Specifications:

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

Material: Aluminum



ALIGNMENT NUTS INCLUDED



Model Number

M-30B-30B-M

Weight

.82 kg [1.80 lb]

BODYBUILDER™ TRANSITION BRACKETS AND BLOCKS

BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions



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

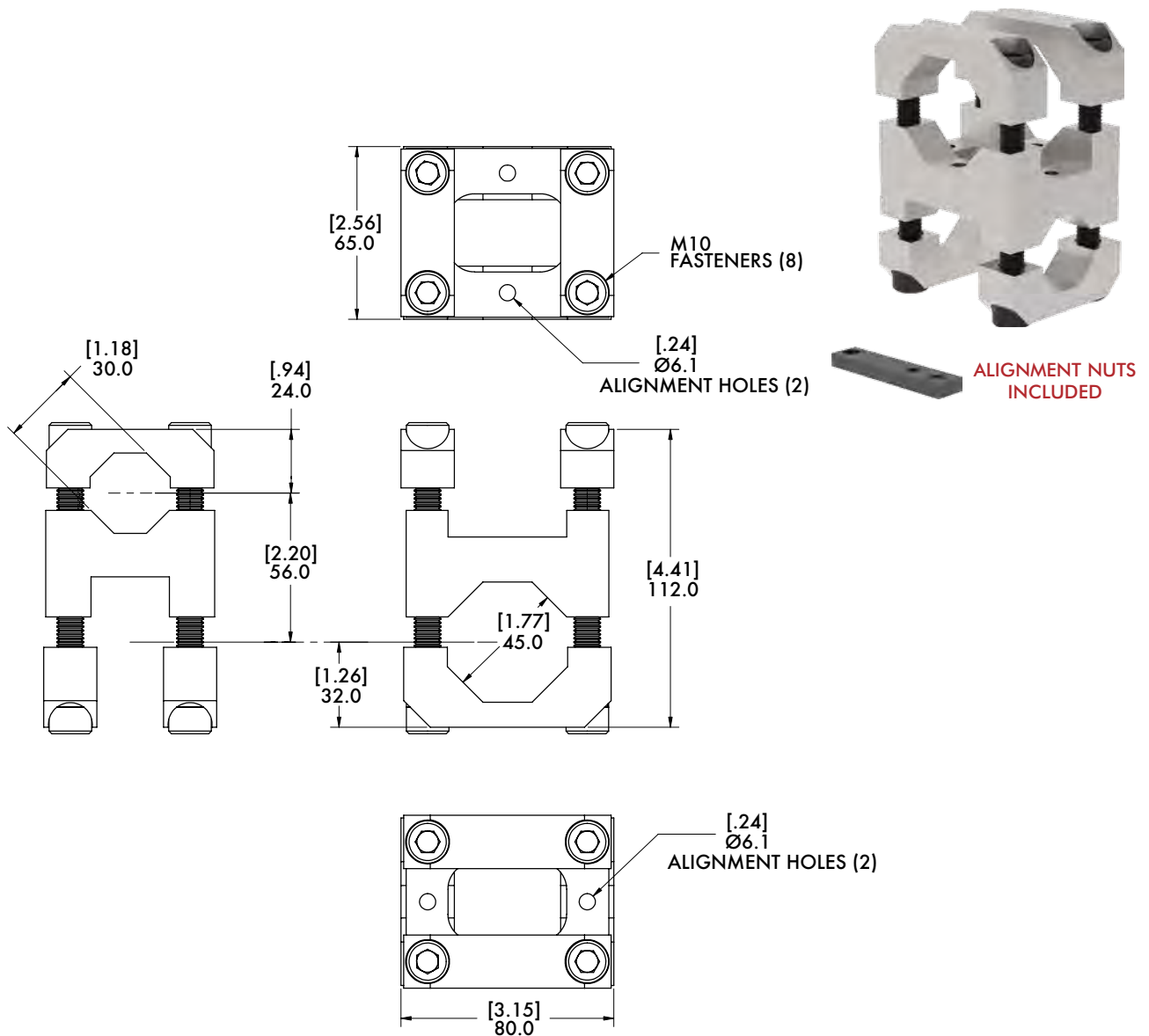


Specifications:

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

Features:

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



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

BODYBUILDER™ TRANSITION BRACKETS AND BLOCKS

BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions



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

Features:

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

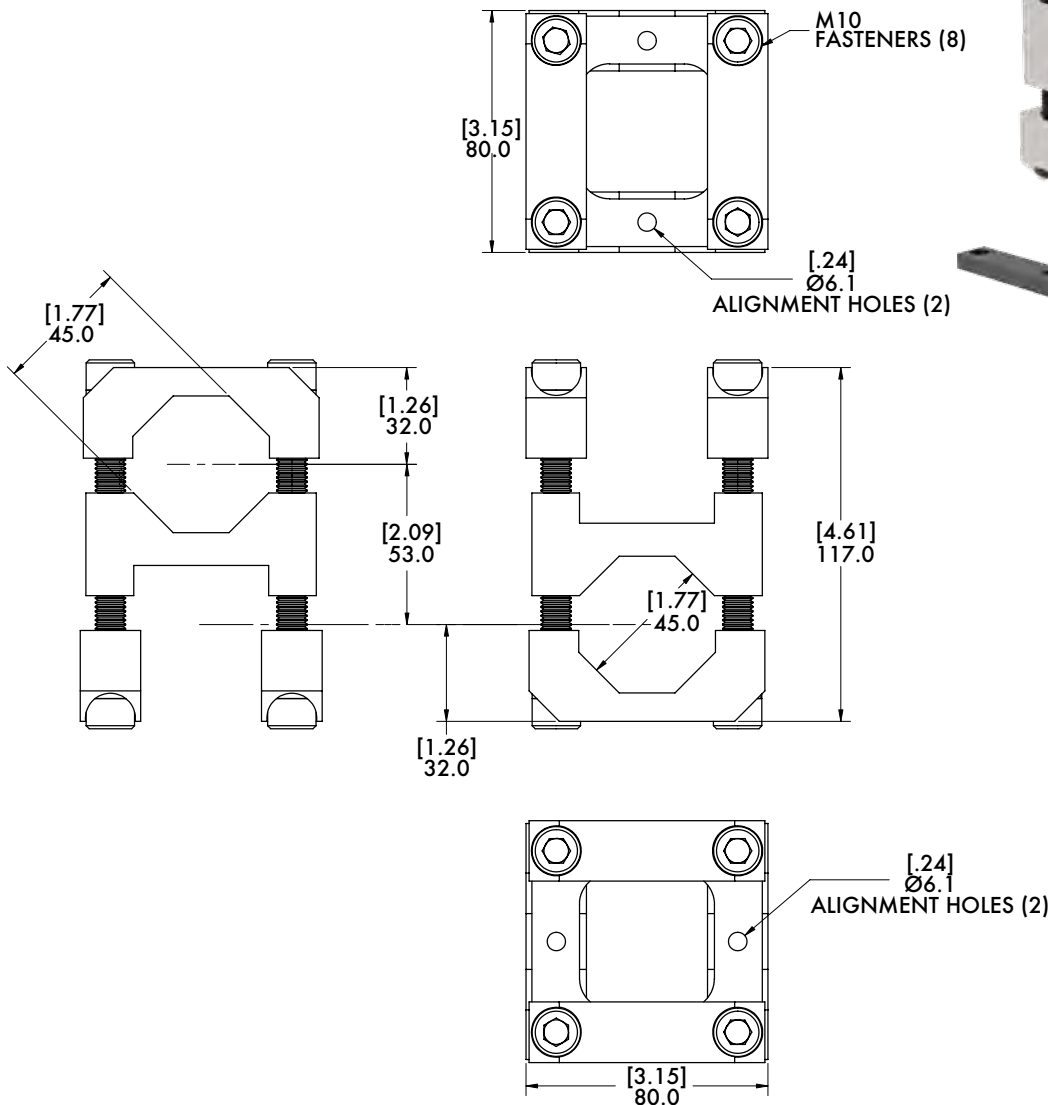
Specifications:

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

Material: Aluminum



ALIGNMENT NUTS INCLUDED



Model Number

M-45B-45B-M

Weight

1.05 kg [2.31 lb]

BODYBUILDER™ TRANSITION BRACKETS AND BLOCKS

BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions



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

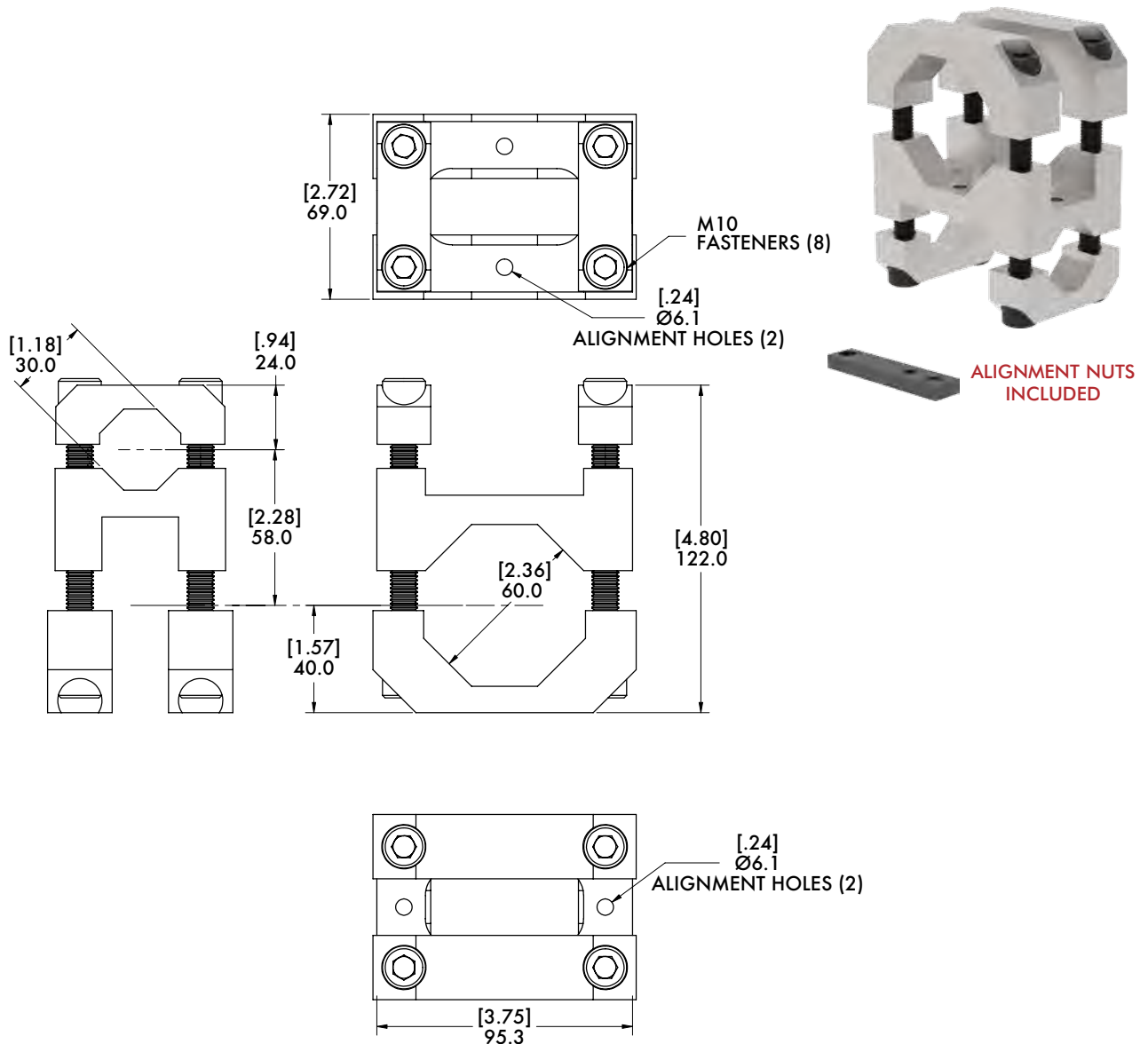


Specifications:

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™ TRANSITION BRACKETS AND BLOCKS

BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions



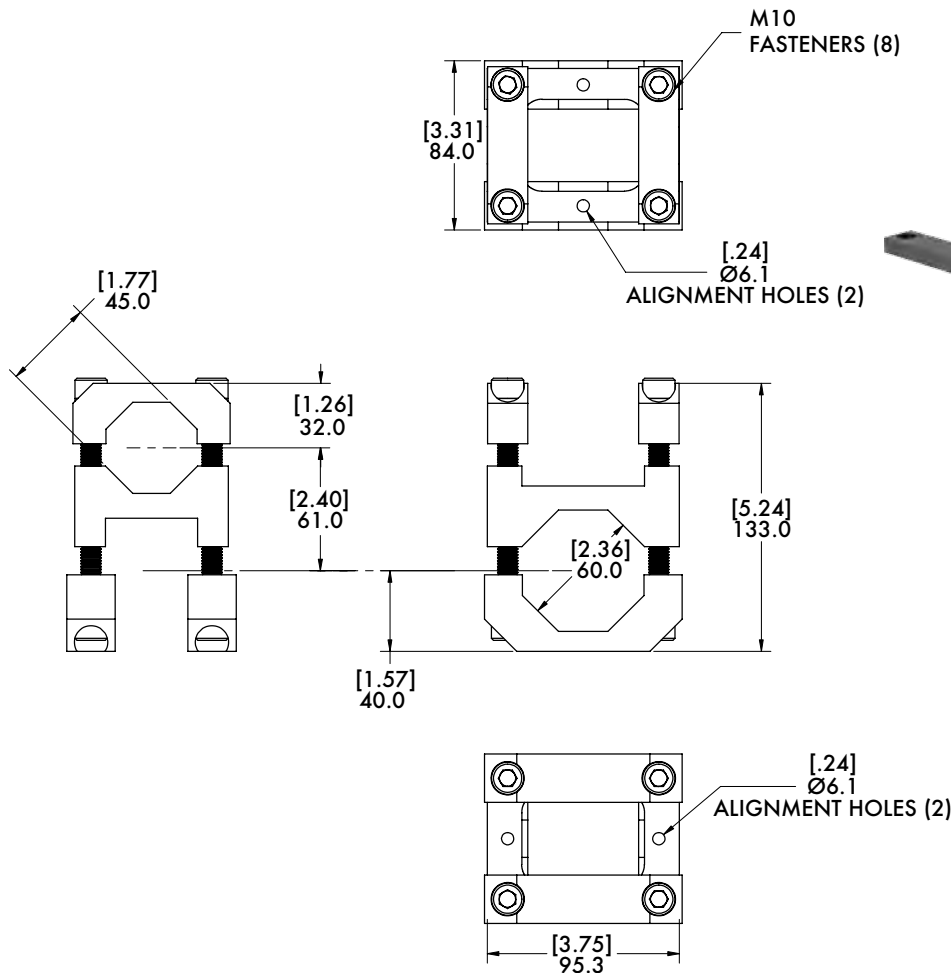
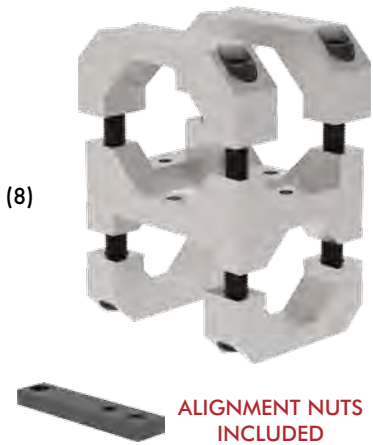
45B-60B 45mm to 60mm Transition Bracket Assembly

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™ TRANSITION BRACKETS AND BLOCKS

BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions



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

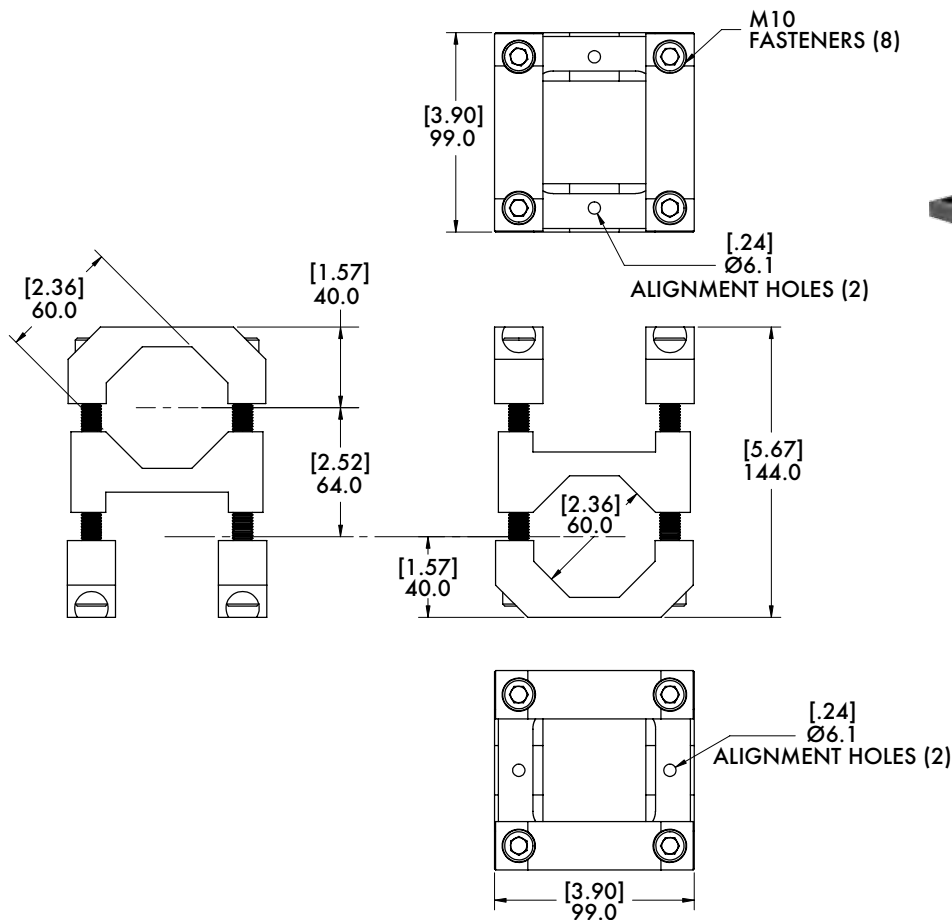
Specifications:

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



ALIGNMENT NUTS INCLUDED

Model Number

Weight

M-60B-60B-M

1.36 kg [3.00 lb]

BODYBUILDER™ TRANSITION BRACKETS AND BLOCKS

BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions



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

Features:

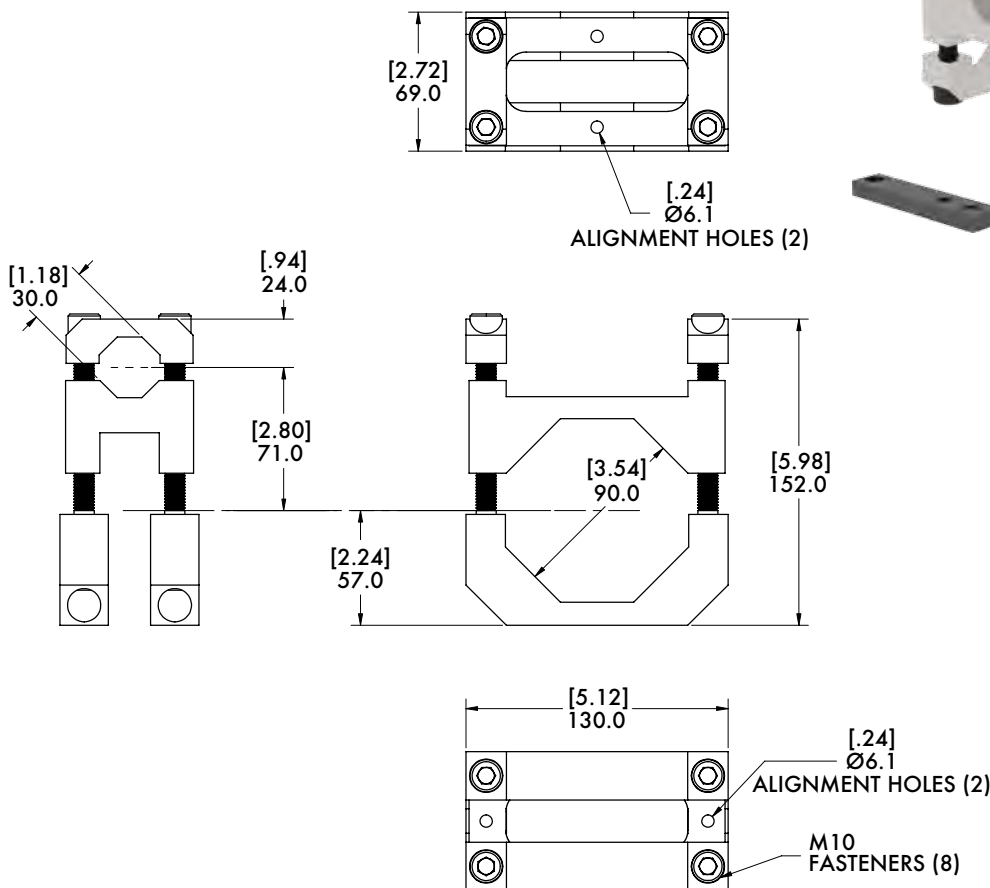
- Connects 30 and 90mm extrusions perpendicular to each other.
- Lightweight, high-strength aluminum design.

Specifications:

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



ALIGNMENT NUTS INCLUDED



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

BODYBUILDER™ TRANSITION BRACKETS AND BLOCKS

BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions



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

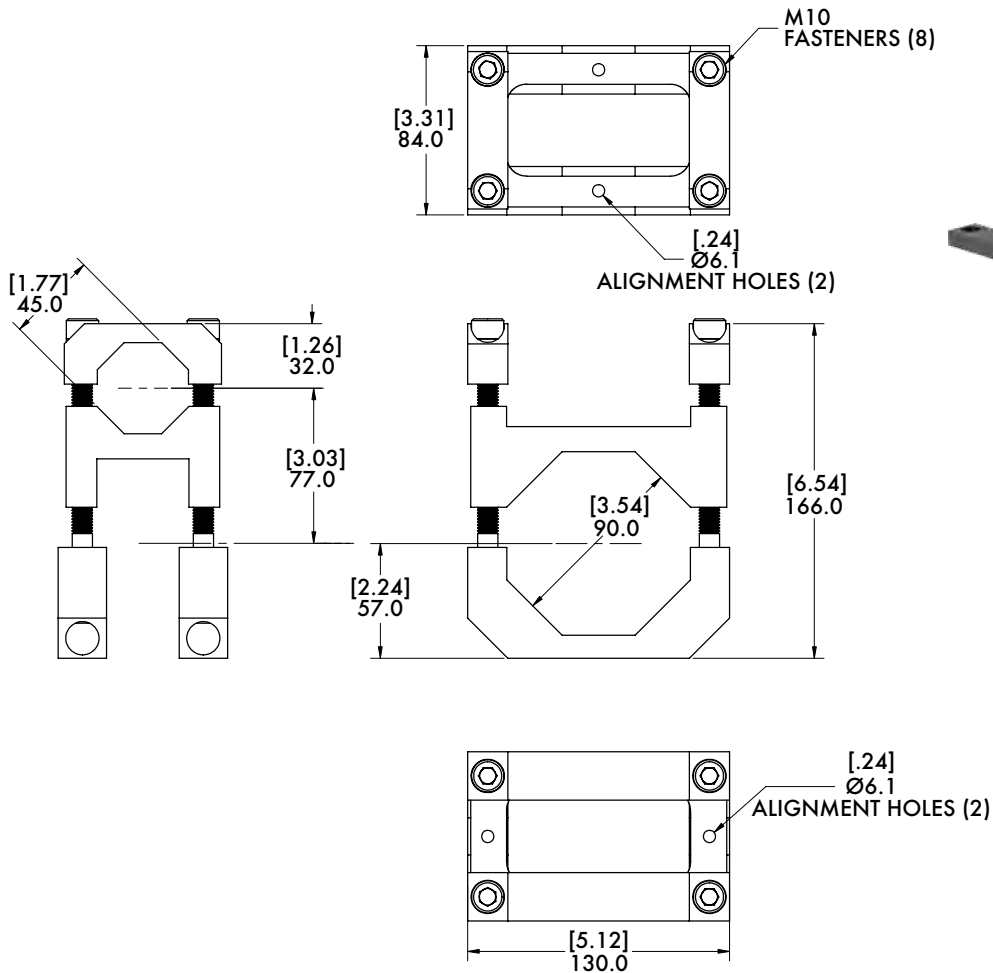


Specifications:

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™ TRANSITION BRACKETS AND BLOCKS

BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions



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

Features:

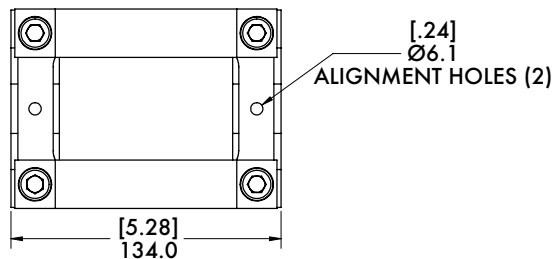
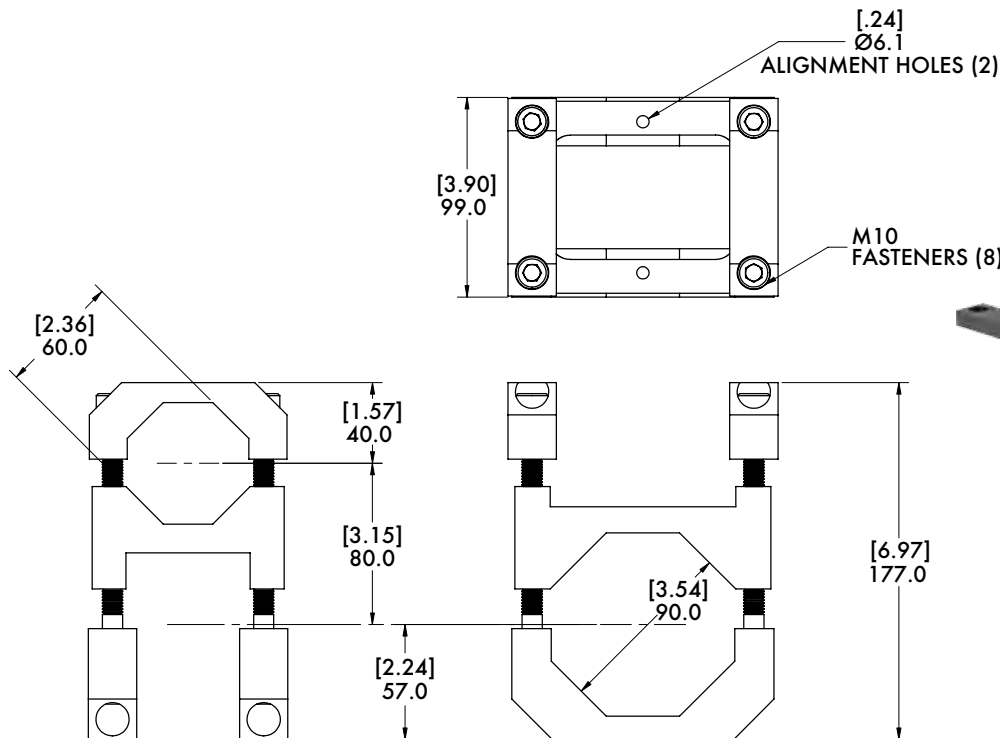
- Connects 60mm and 90mm extrusions perpendicular to each other.
- Lightweight, high-strength aluminum design.

Specifications:

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



ALIGNMENT NUTS INCLUDED



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

BODYBUILDER™ TRANSITION BRACKETS AND BLOCKS

BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions



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

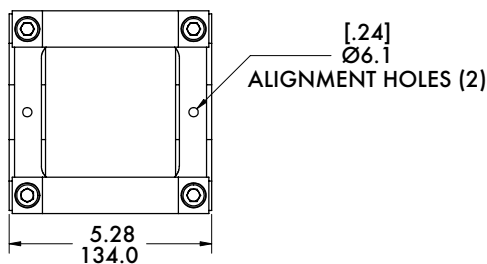
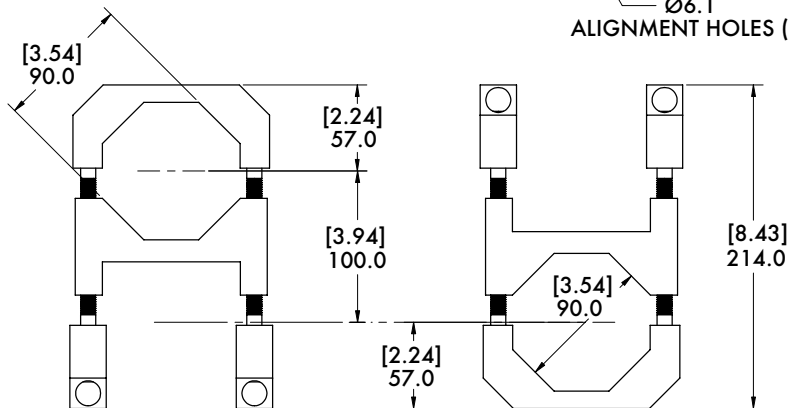
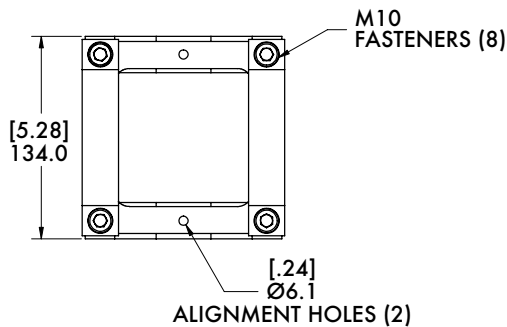
Specifications:

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

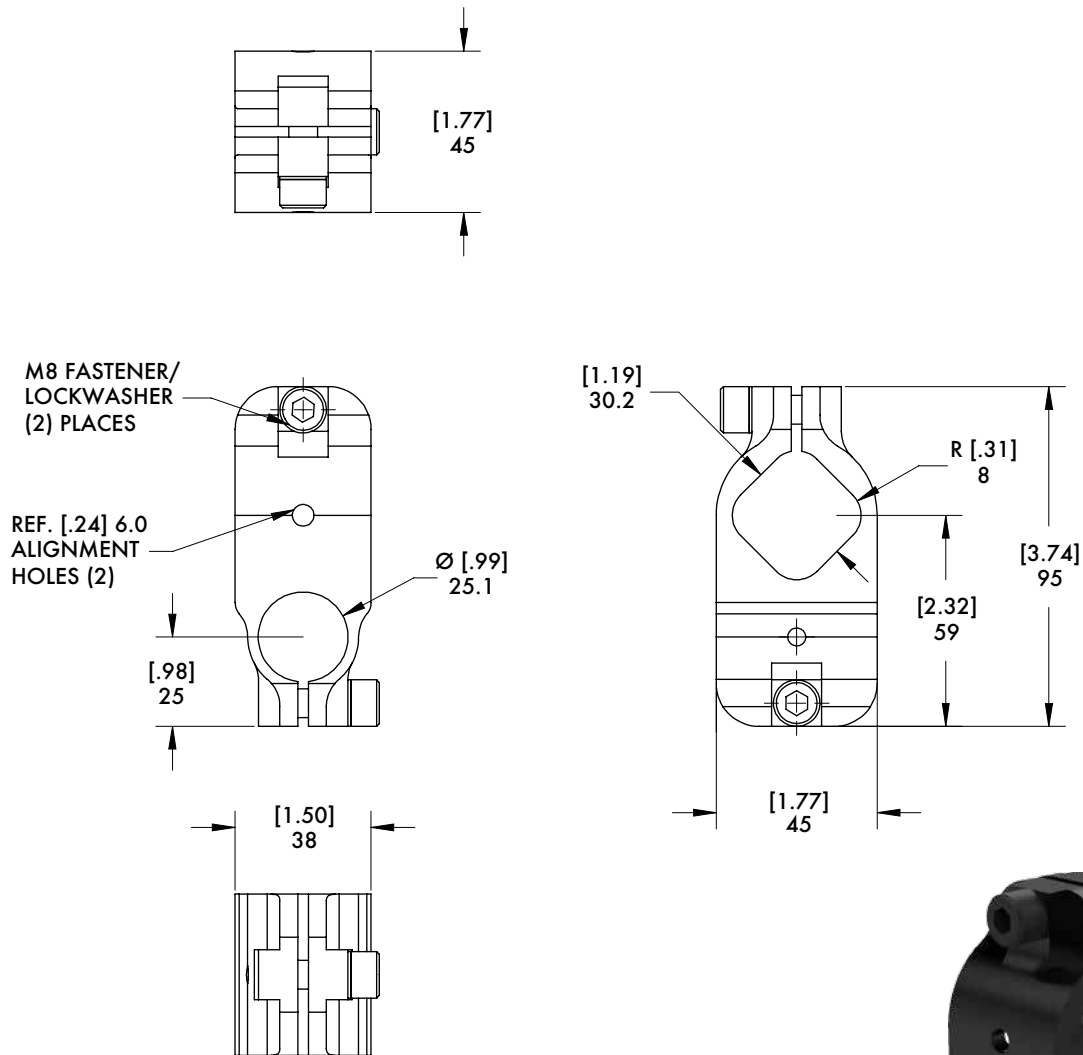
30B-25M 30mm Octagon to 25mm Round

Specifications:

Max. Static Clamp Load:

407 Nm [300 ft-lb]

Material: High Strength Aluminum



Model Number

M-30B-25M-M

Weight

203g [0.45lbs]

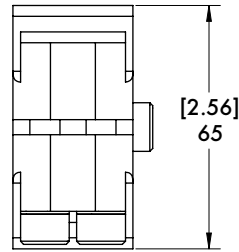
45B-25M (-10E) 45mm Octagon to 25mm or 1 in. Round

Specifications:

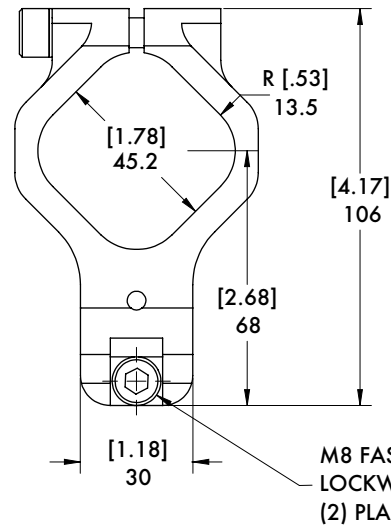
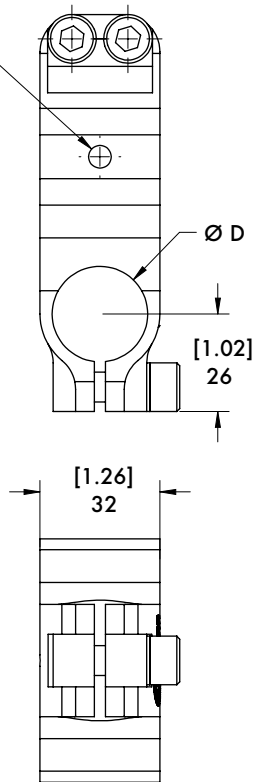
Max. Static Clamp Load:

407 Nm [300 ft-lb]

Material: High Strength Aluminum



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



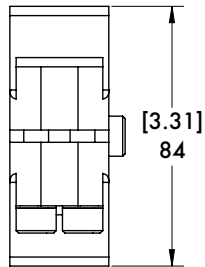
Model Number	Weight	ØD
M-45B-25M-M	239g [0.53lbs]	25mm
M-45B-10E-M	237g [0.52lbs]	1 in.

TRANSITION SQUARE CLAMPS



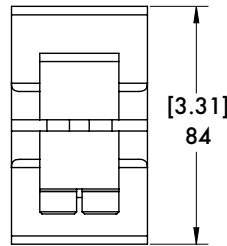
BodyBuilder™ Octagonal Tooling | Dimensions | Technical Specifications

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

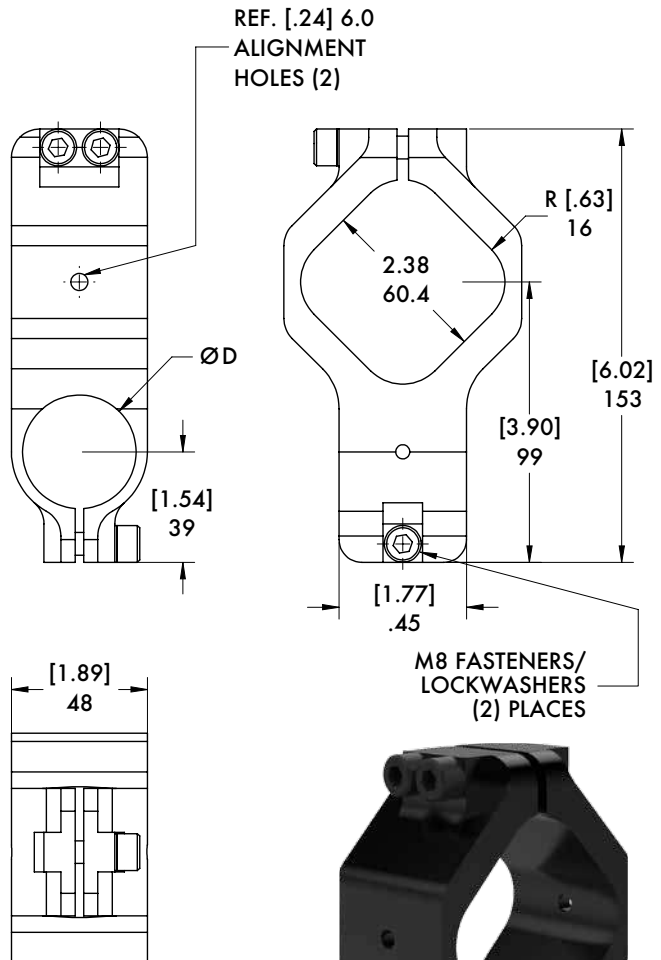
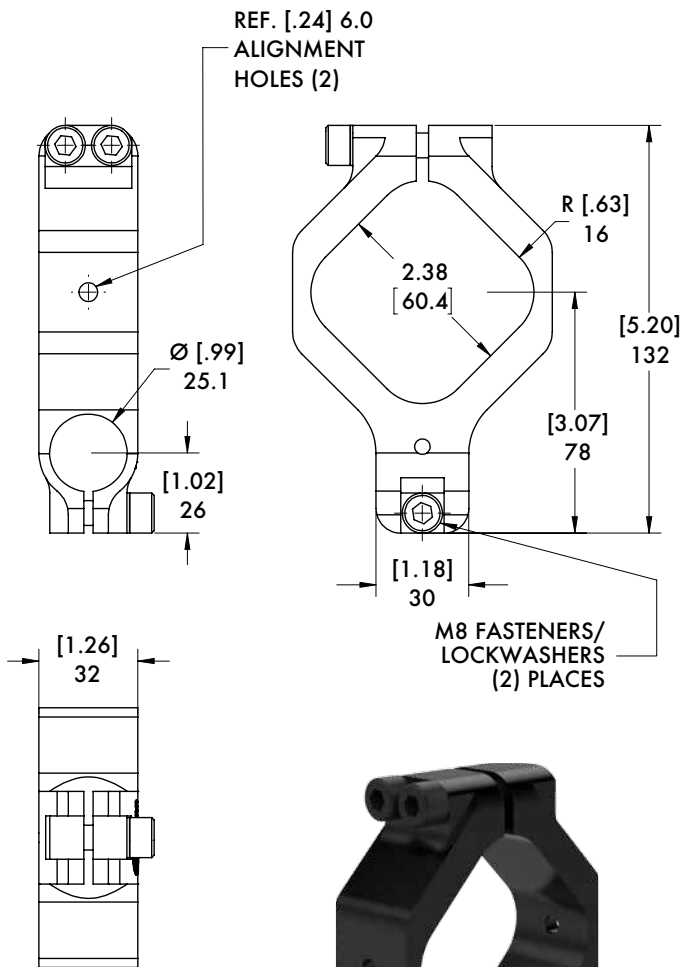


Specifications:
 Max. Static Clamp Load:
 407 Nm [300 ft-lb]
 Material: High Strength Aluminum

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
M-60B-25M-M	356g [0.78lbs]

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 | Technical Specifications and Dimensions



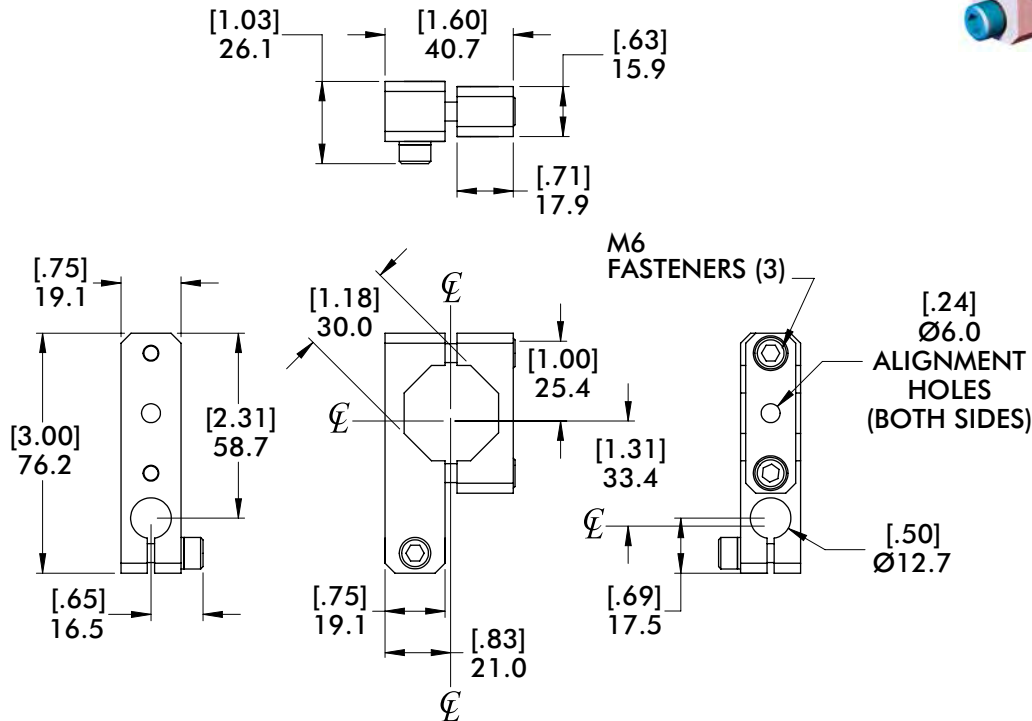
CLM-30B-50 30mm Octagon to Ø50"(in) Round Transition Bracket Assembly

Features:

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

Specifications:

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



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

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



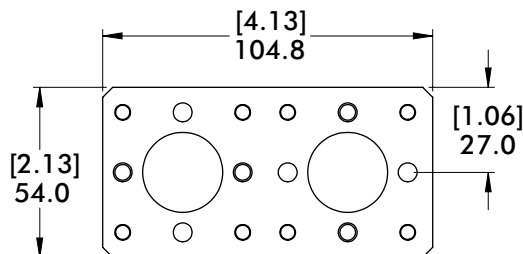
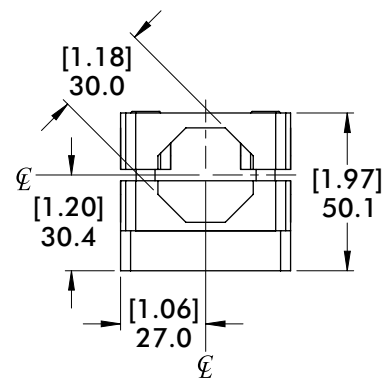
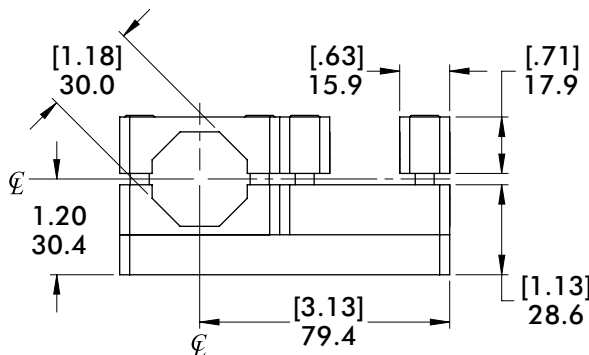
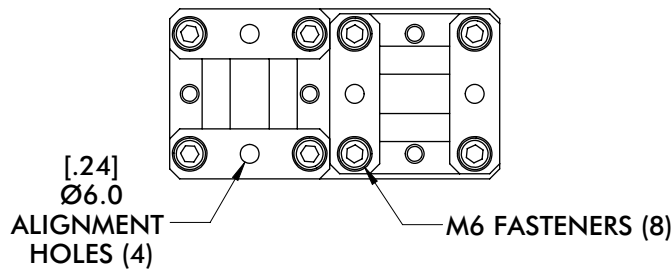
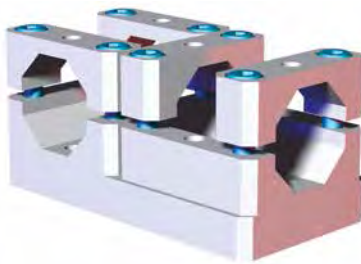
Specifications:

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™ T-CLAMPS



BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions

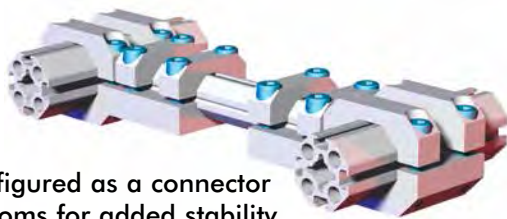
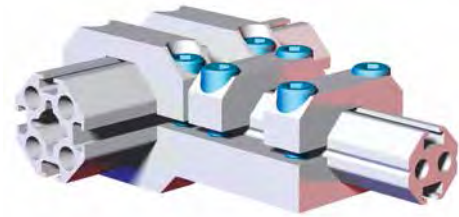
TCA-30B-45B 30mm to 45mm Octagon T-Clamp Bracket Assembly

Features:

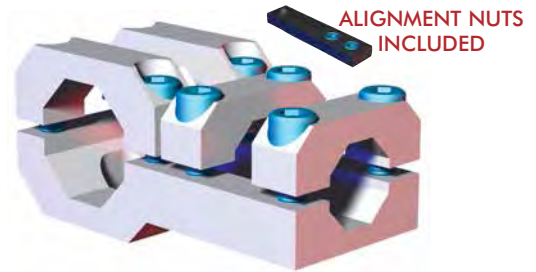
- Connects 30mm and 45mm octagon extrusion perpendicular on the same plane.
- Lightweight, high-strength aluminum design.

Specifications:

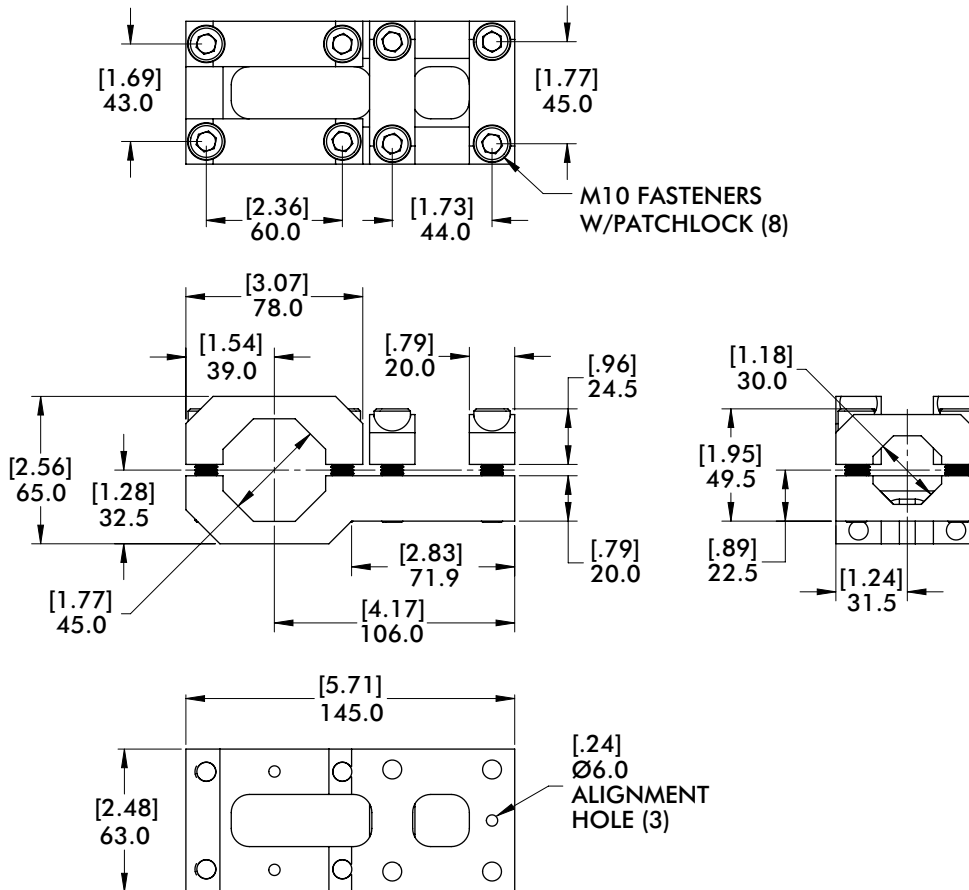
Max. Static Clamp Load:
 45mm: 475 Nm [350 ft-lb]
 30mm: 271 Nm [200 ft-lb]
Material: Aluminum



Can be configured as a connector between booms for added stability



ALIGNMENT NUTS INCLUDED



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

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



Specifications:

Max. Static Clamp Load:

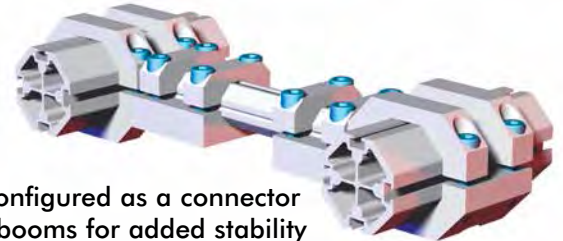
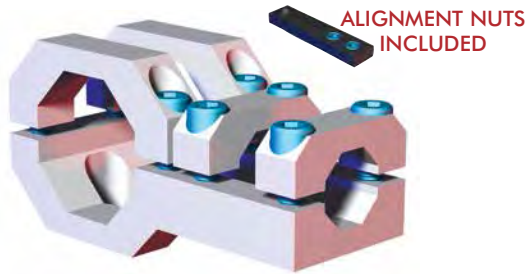
60mm: 746 Nm [550 ft-lb]

30mm: 271 Nm [200 ft-lb]

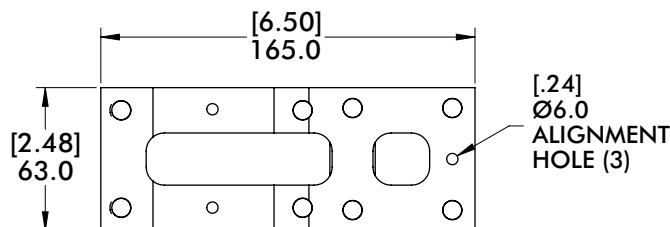
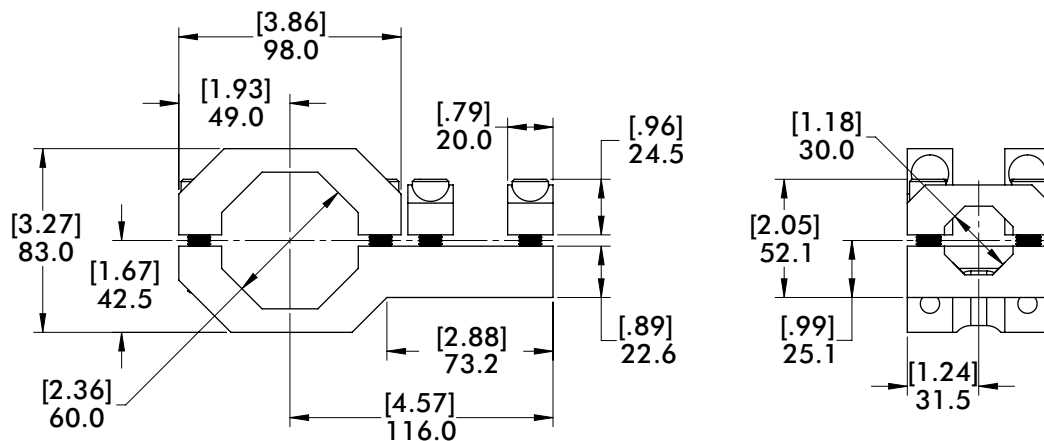
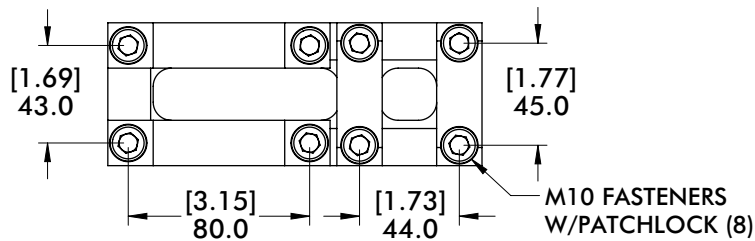
Material: Aluminum

Features:

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



Can be configured as a connector between booms for added stability



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

BODYBUILDER™ T-CLAMPS



BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions

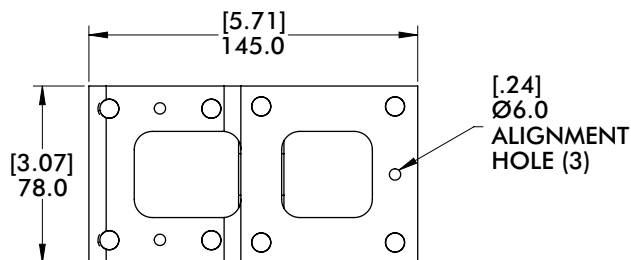
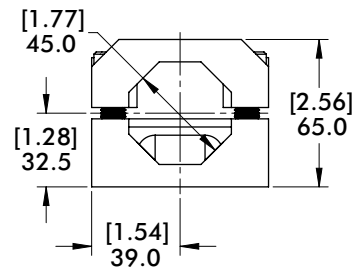
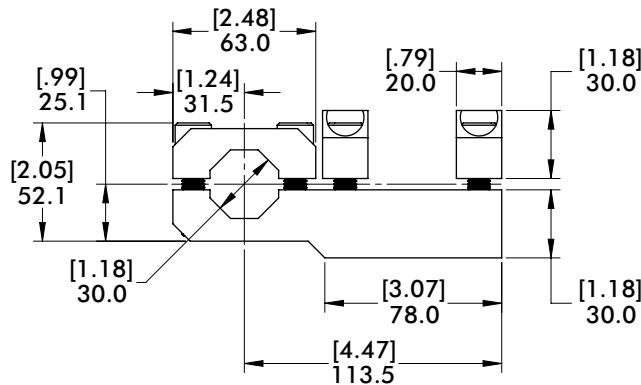
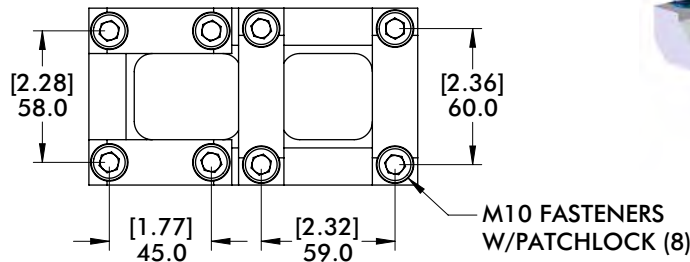
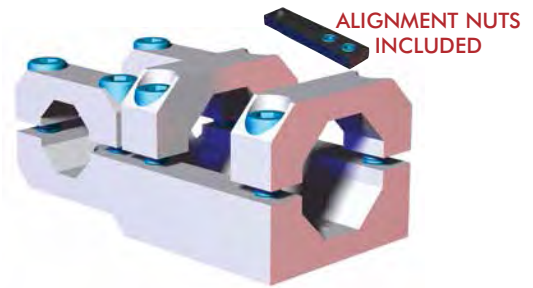
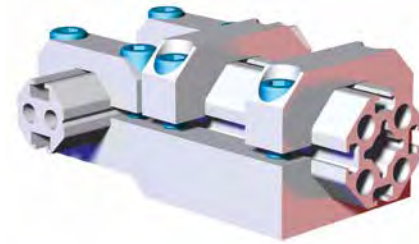
TCA-45B-30B 45mm to 30mm Octagon T-Clamp Bracket Assembly

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]

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

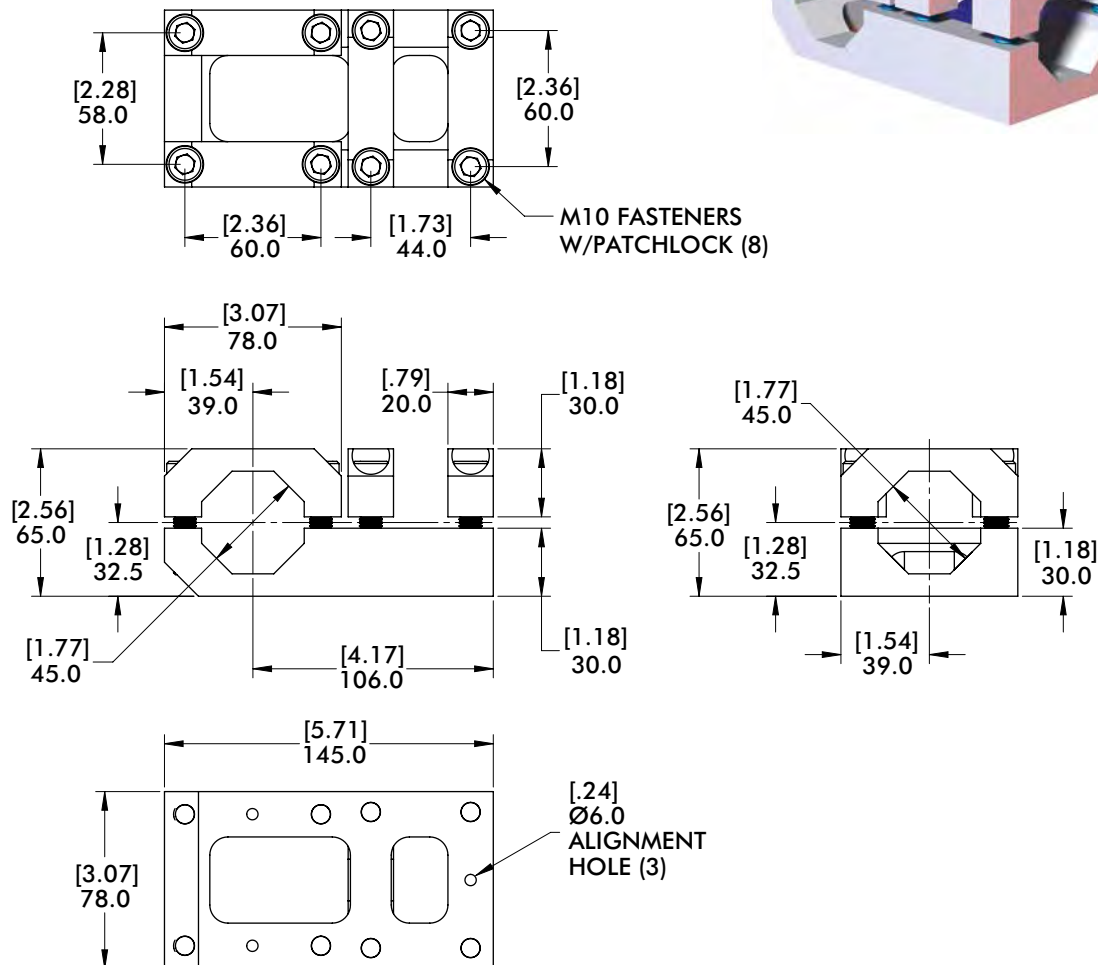


Specifications:

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™ T-CLAMPS



BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions

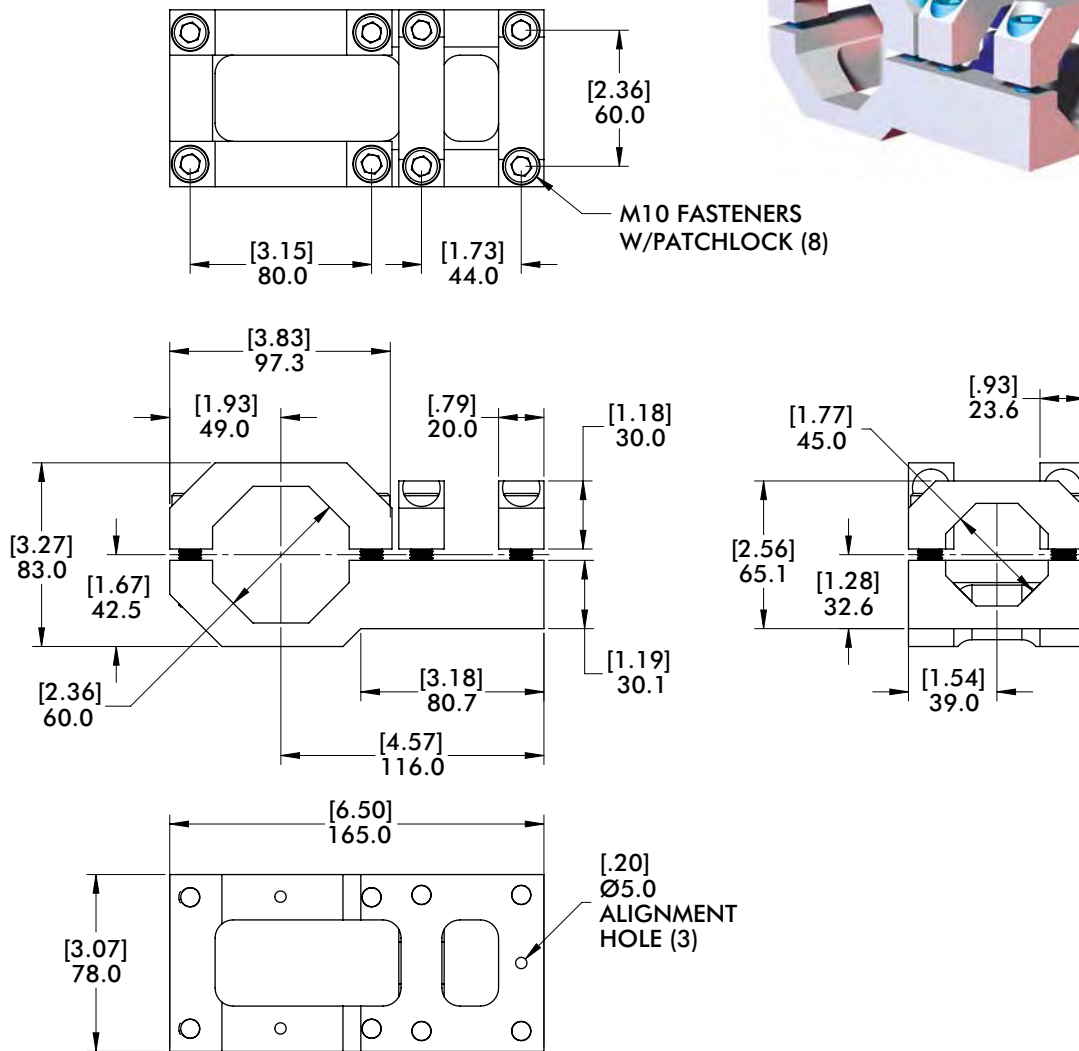
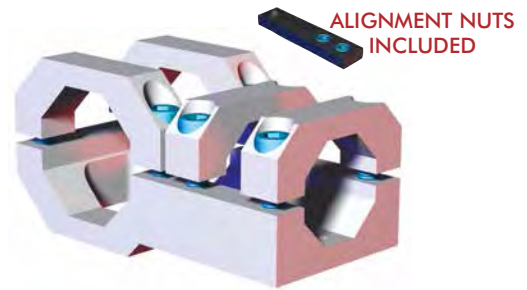
TCA-45B-60B 45mm to 60mm Octagon T-Clamp Bracket Assembly

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



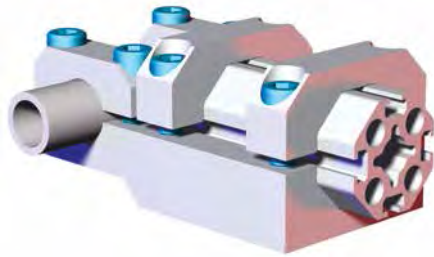
Model Number	Weight
CPI-TCA-45B-60B	1.21 kg [2.67lb]



EE-BBR-53

Dimensions and technical information are subject to change without notice

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

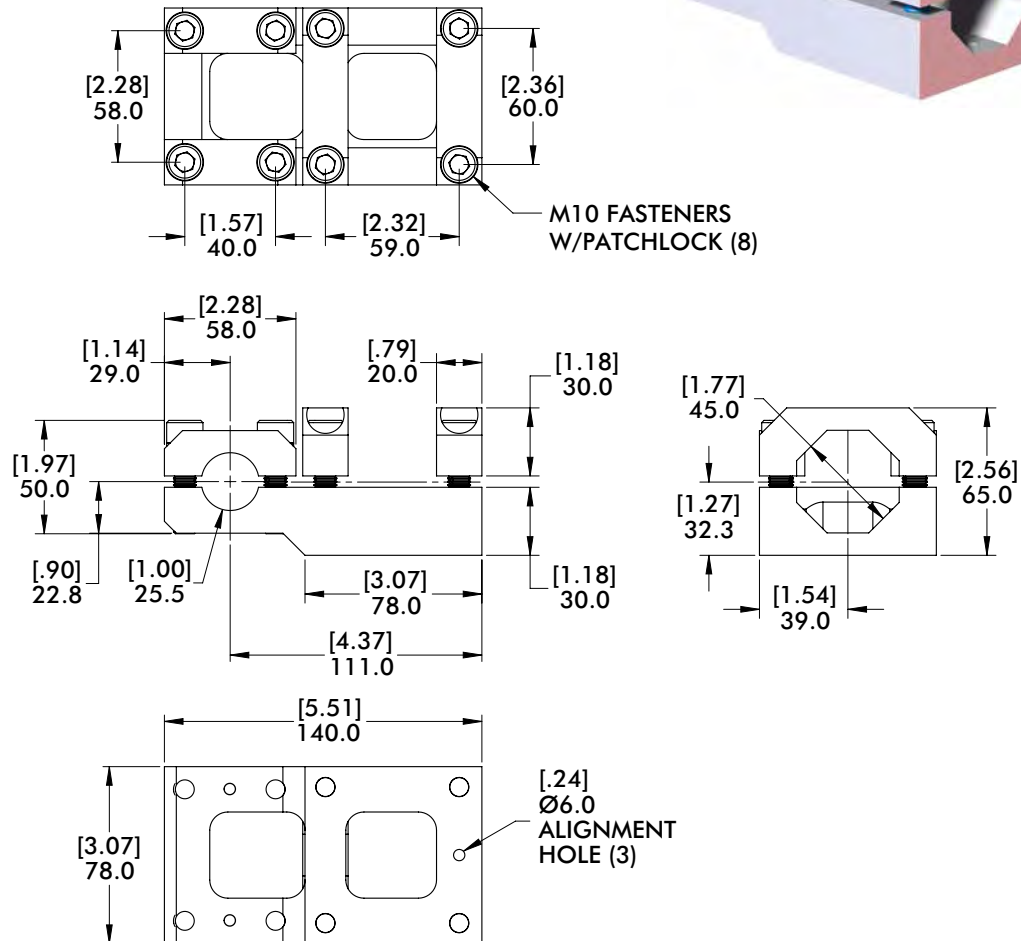
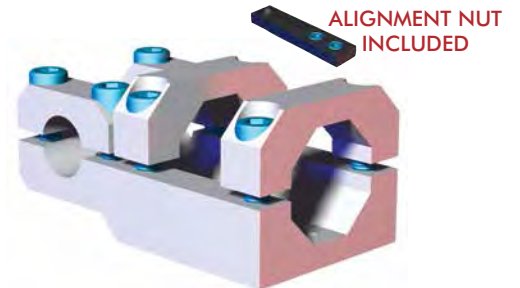


Specifications:

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™ T-CLAMPS



BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions

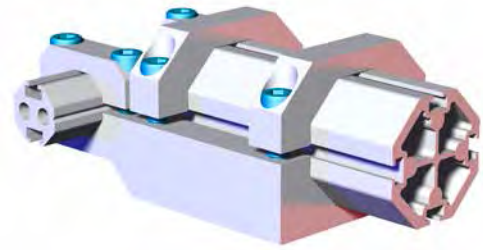
TCA-60B-30B 60mm to 30mm octagon T-Clamp Bracket Assembly

Features:

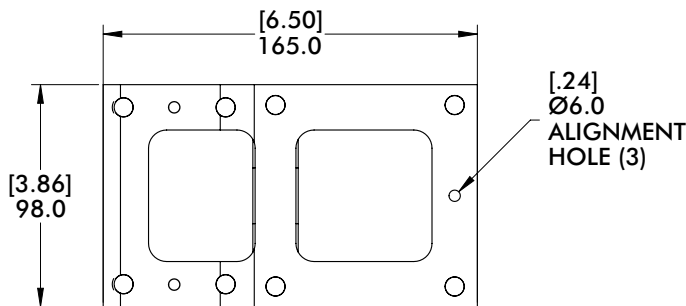
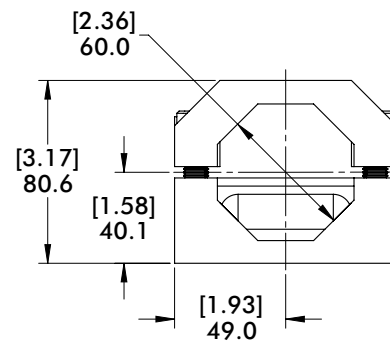
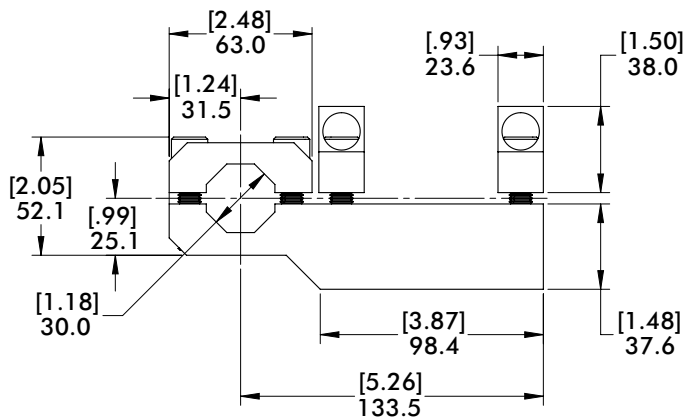
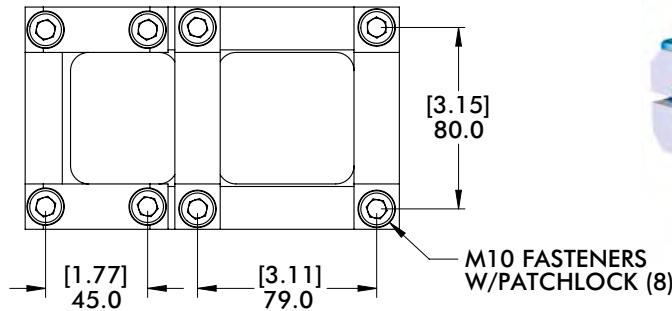
- Connects 60mm and 30mm octagon extrusion perpendicular on the same plane.
- Lightweight, high-strength aluminum design.

Specifications:

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



ALIGNMENT NUTS INCLUDED



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

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



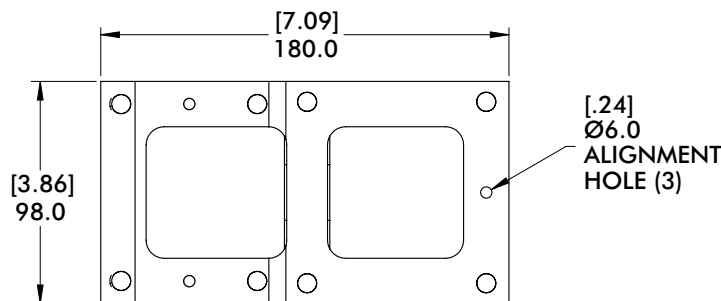
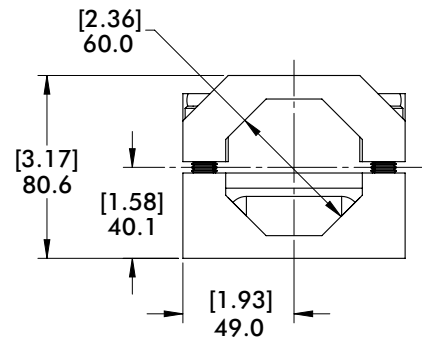
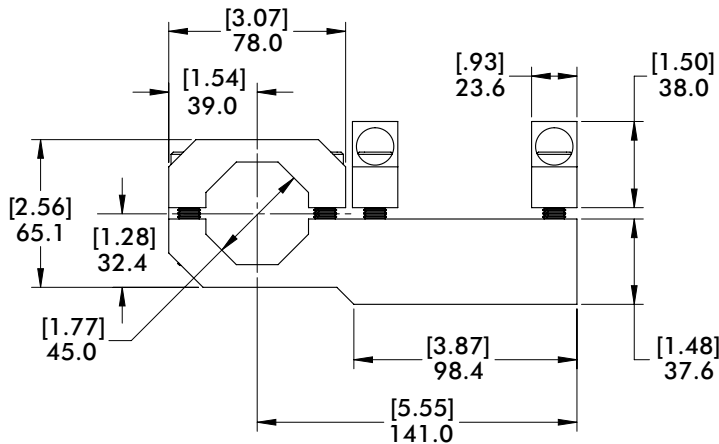
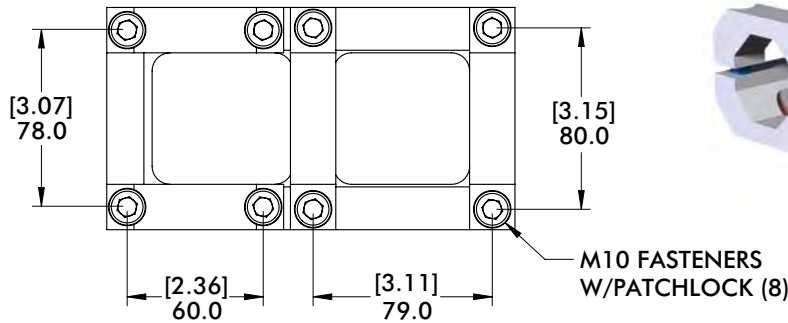
Specifications:

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.

ALIGNMENT NUTS INCLUDED



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

BODYBUILDER™ T-CLAMPS



BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions

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

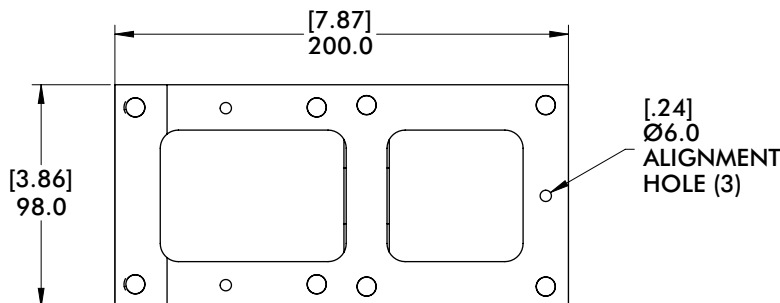
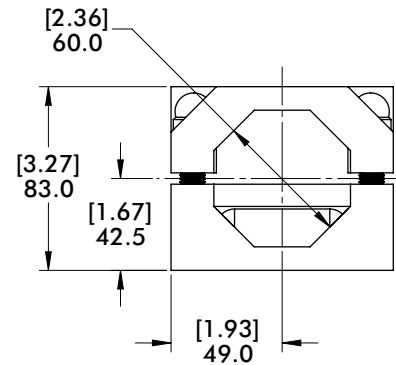
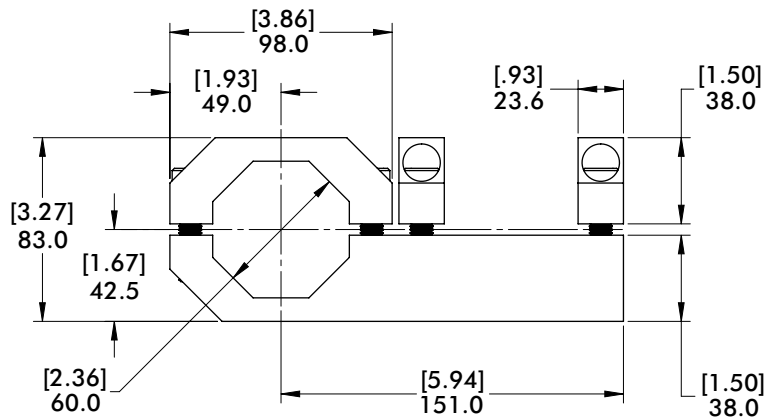
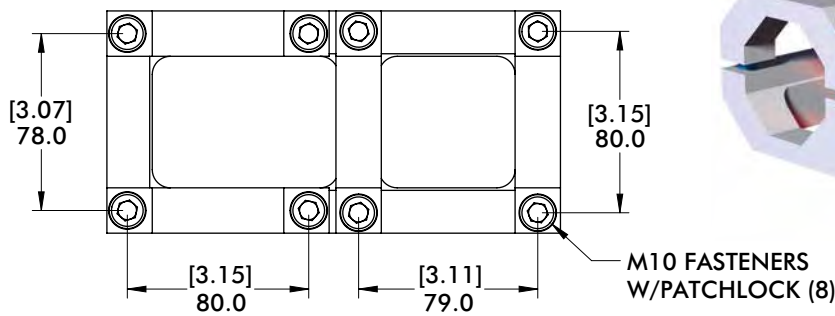
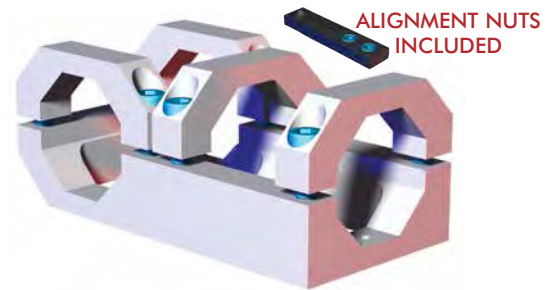
Features:

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

Specifications:

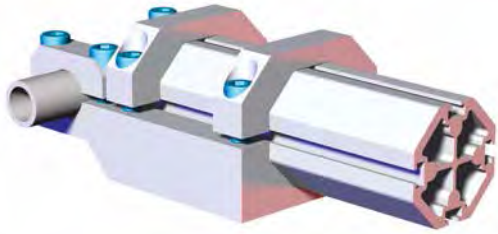
Max. Static Clamp Load:
60mm: 746 Nm [550 ft-lb]

Material: Aluminum



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

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

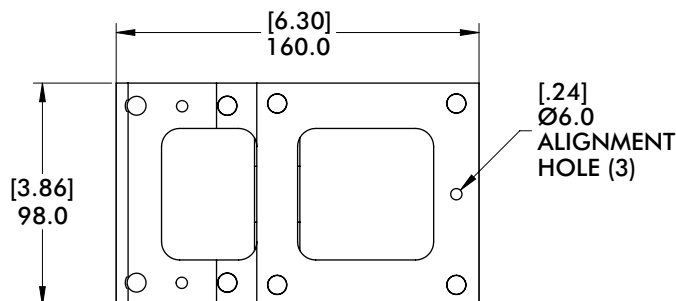
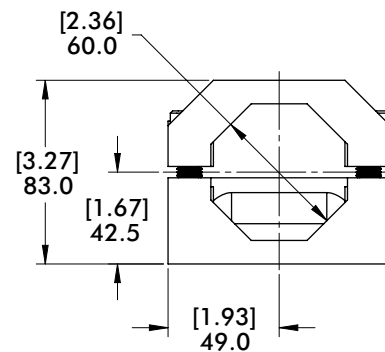
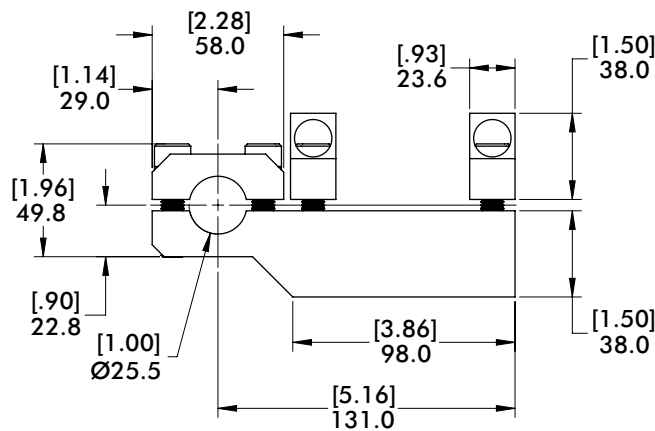
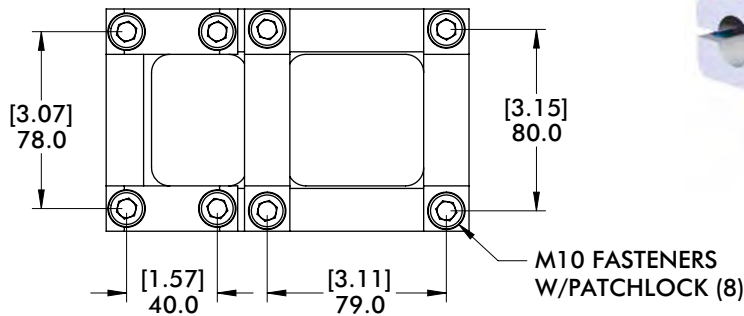
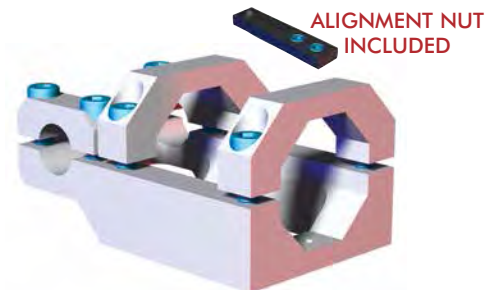


Specifications:

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

Features:

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



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

BODYBUILDER™ T-CLAMPS



BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions

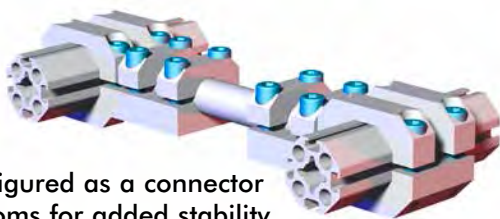
TCA-25M-45B 25mm Round to 45mm Octagon T-Clamp Brackets Assembly

Features:

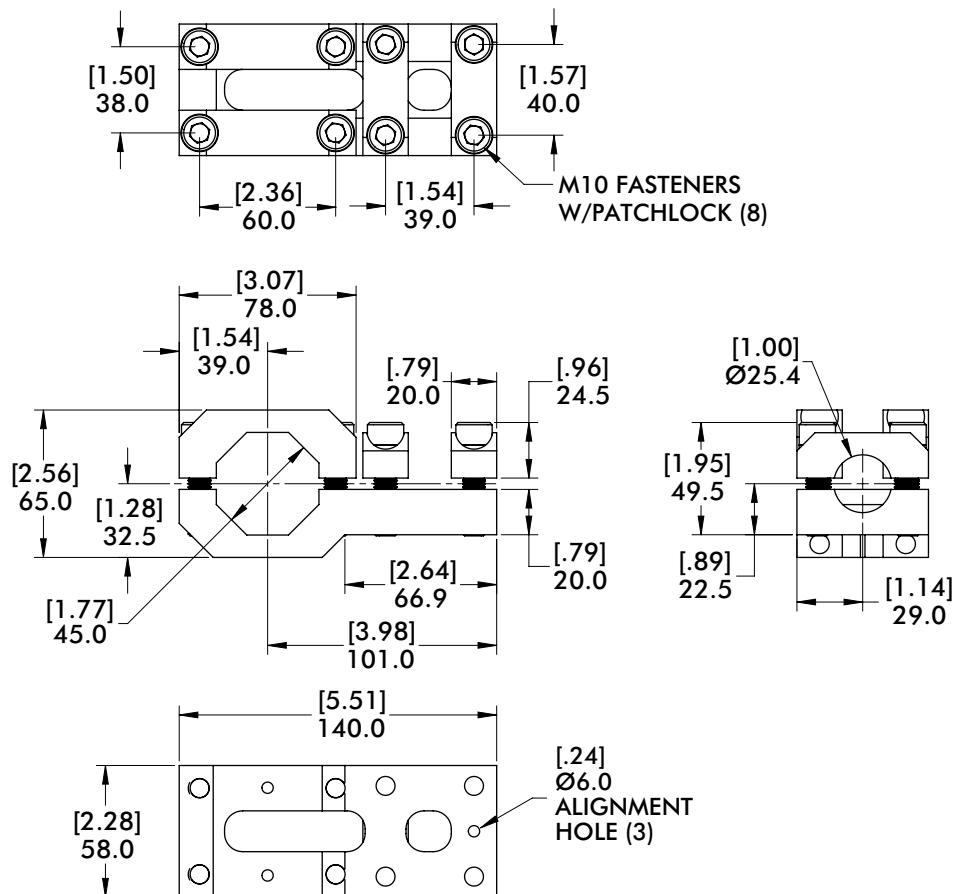
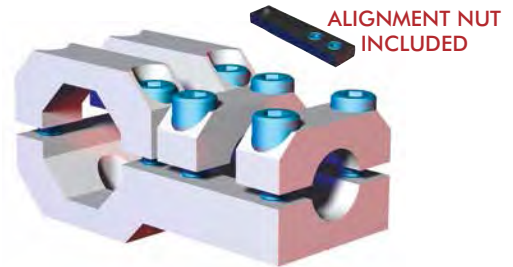
- Connects 25mm round and 45mm octagon perpendicular on the same plane.
- Lightweight, high-strength aluminum design.

Specifications:

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



Can be configured as a connector between booms for added stability



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

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

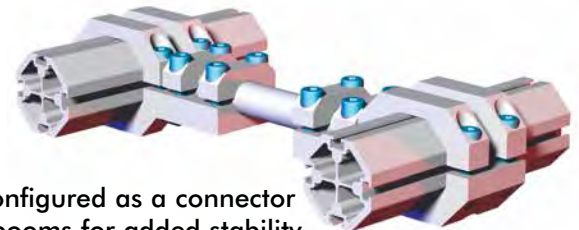
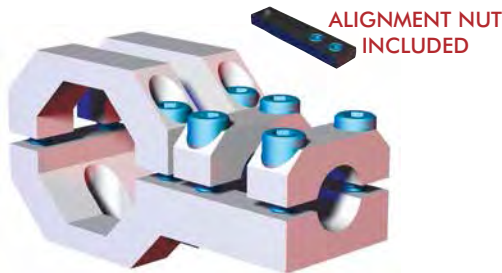


Specifications:

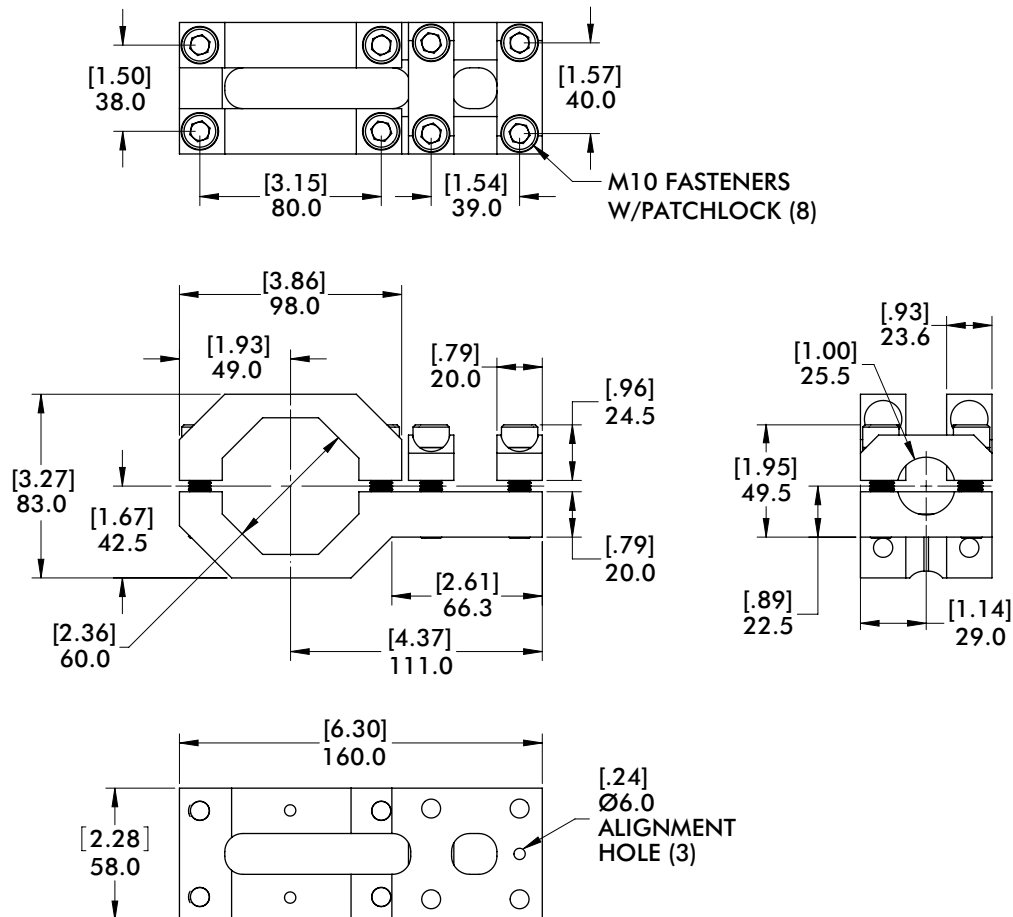
Max. Static Clamp Load:
 60mm: 746 Nm [550 ft-lb]
 25mm: 271 Nm [200 ft-lb]
Material: Aluminum

Features:

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



Can be configured as a connector between booms for added stability



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

BODYBUILDER™ ELBOWS



BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions

45° Angular Boom Clamp Brackets

Features:

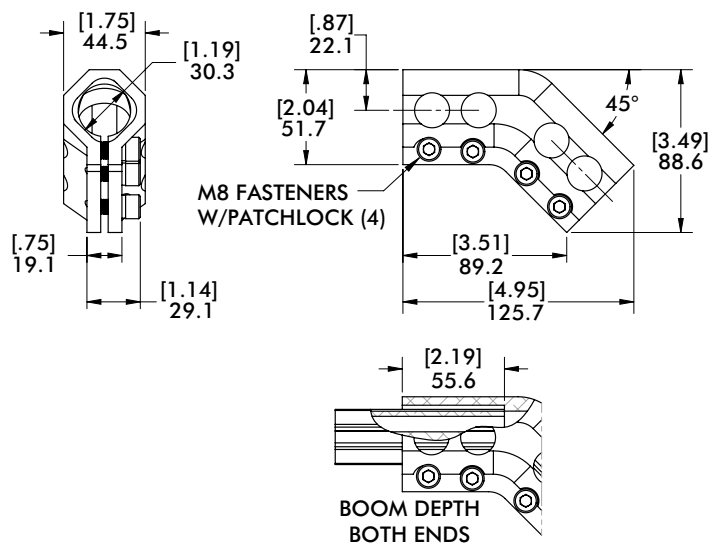
- Mounts (2) Bodybuilder extrusion booms inline at a 45° angle.

Specifications:

Material: Aluminum



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



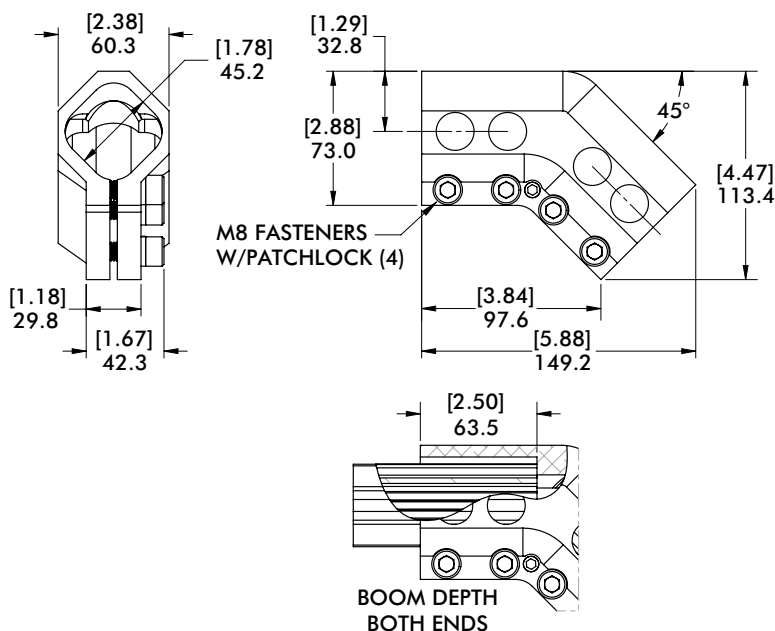
Specifications:

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



Model Number	Weight
CPI-DC-3030B-45	.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	Weight
CPI-DC-4545B-45	.64 kg [1.4 lb]

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



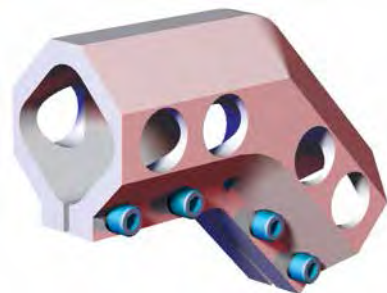
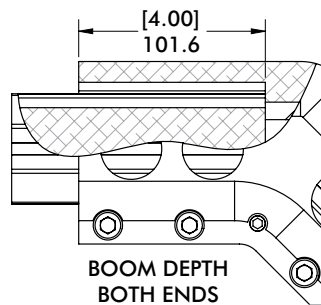
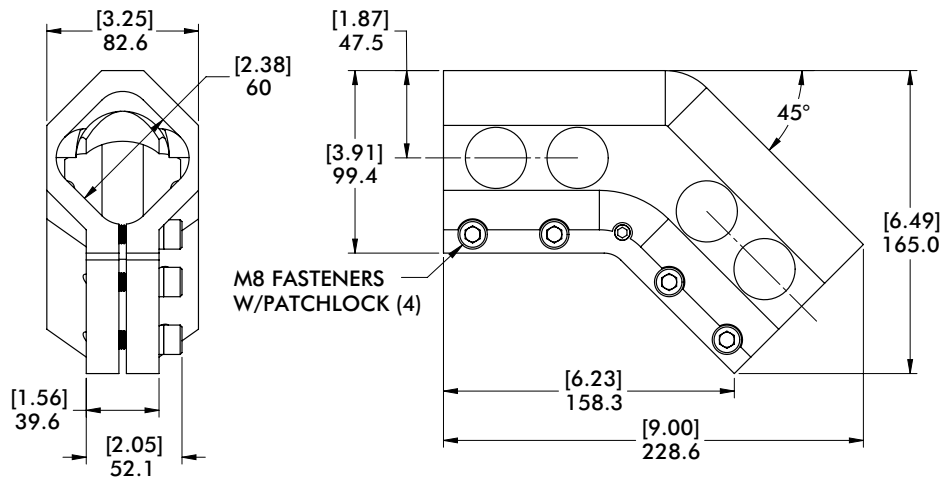
Specifications:

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 | Technical Specifications and Dimensions

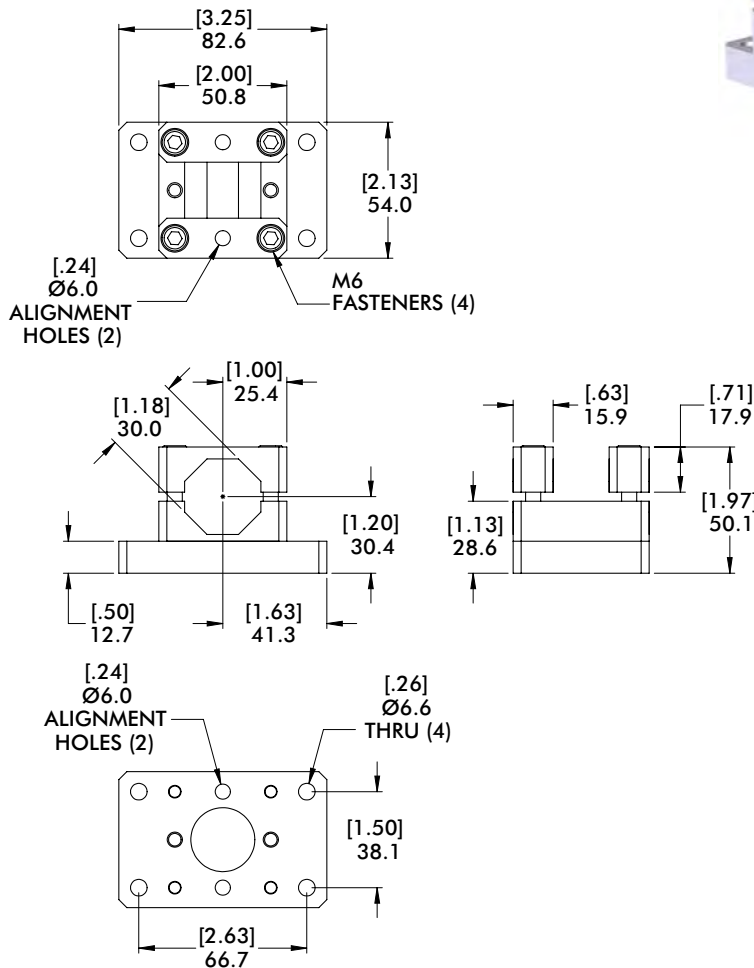
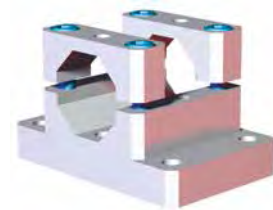
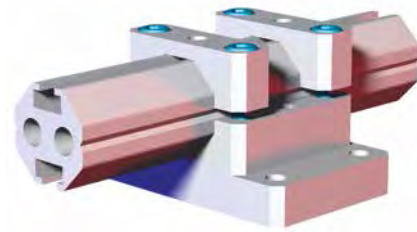
CLM-30B-152F-90 30mm Mid Flange Clamp Mount

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

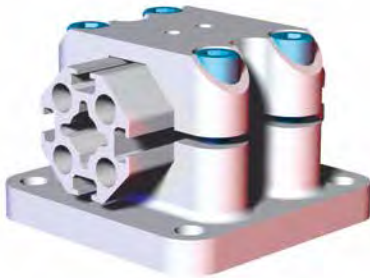
0.28 kg [.61 lb]



EE-BBR-63

Dimensions and technical information are subject to change without notice

TBC-45 45mm Mid Flange Clamp Mount



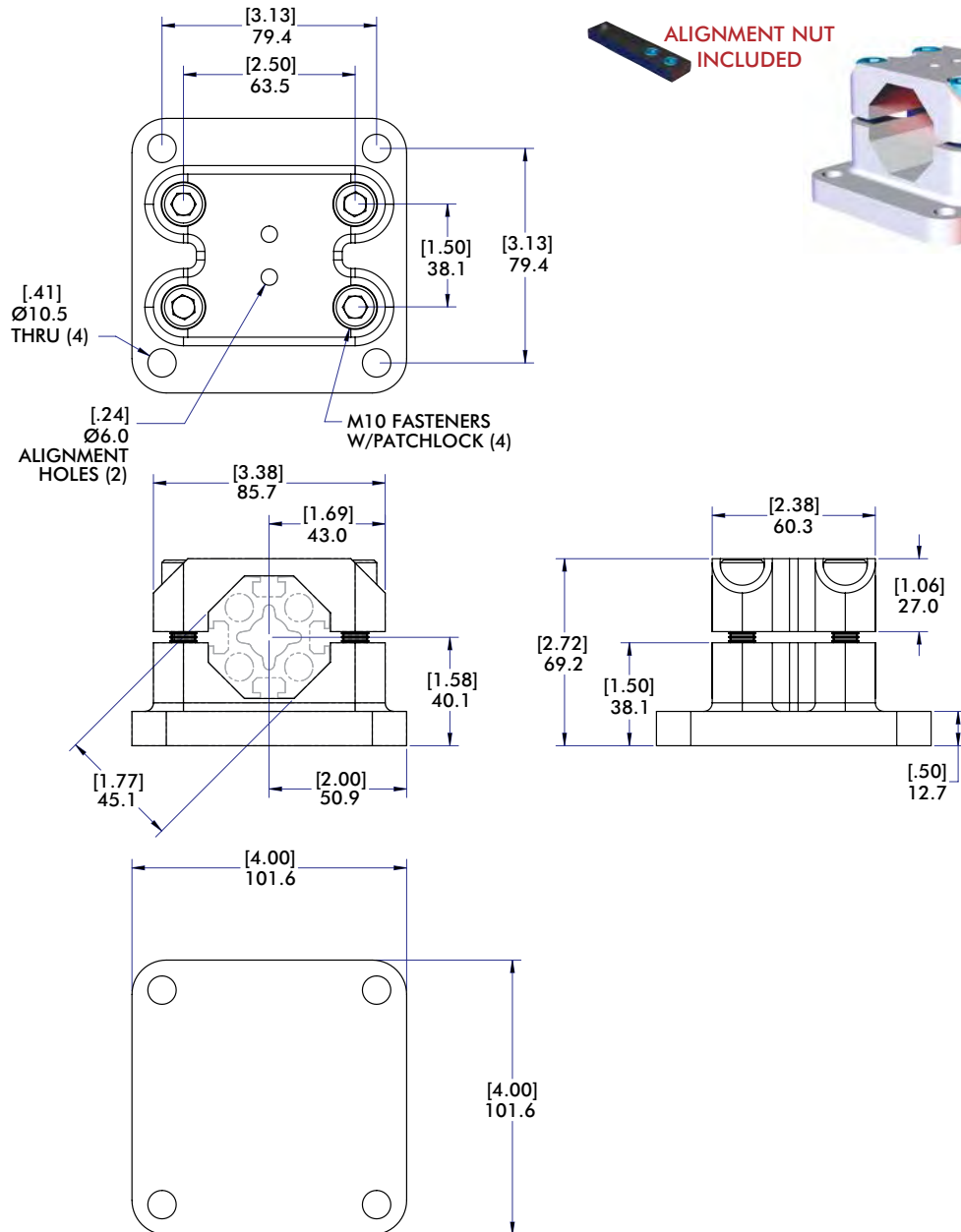
Specifications:

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 | Technical Specifications and Dimensions

TBC-60 60mm Mid Flange Clamp Mount

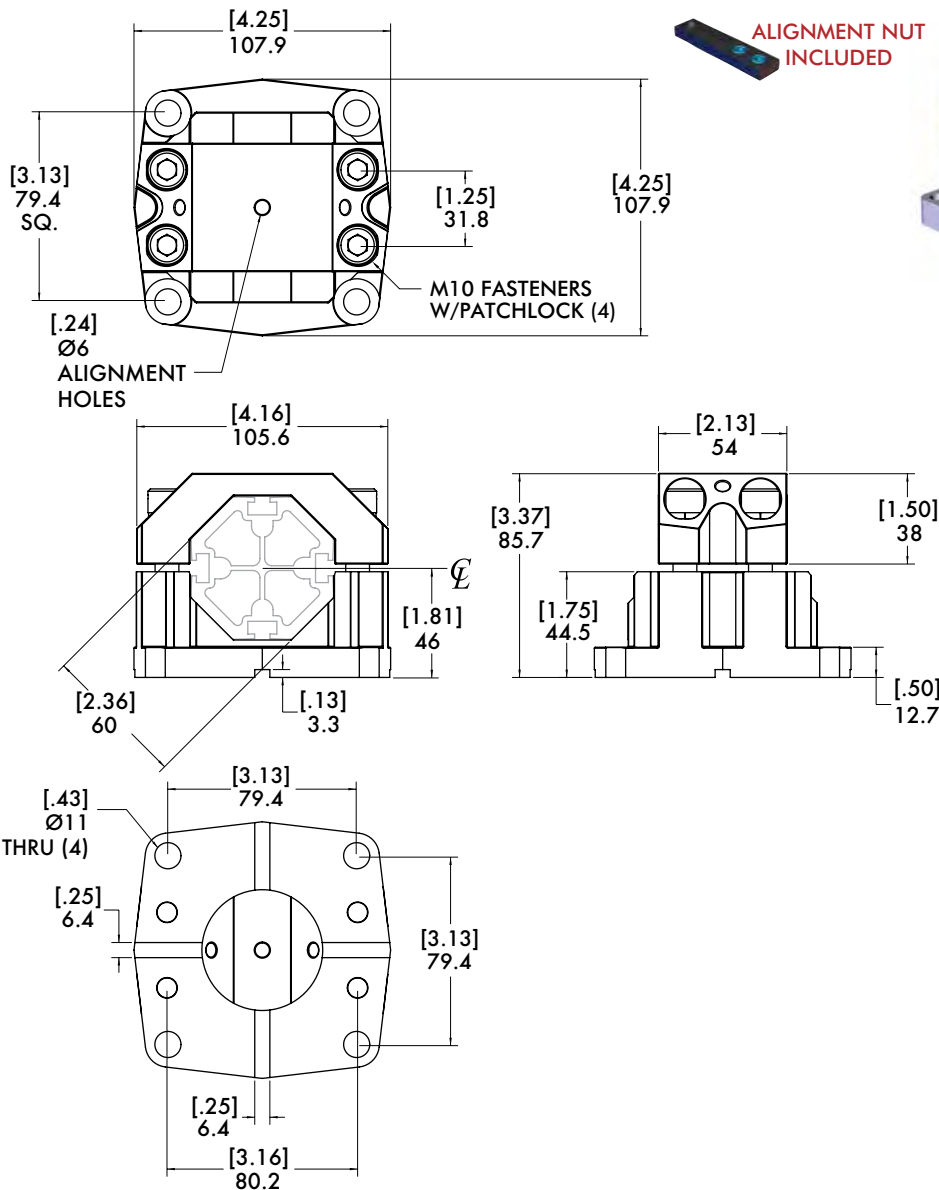
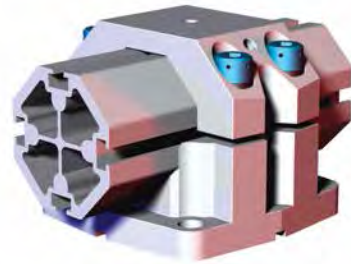
Features:

- 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



ALIGNMENT NUT INCLUDED



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

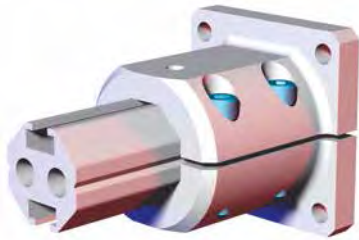
Model Number	Weight
TBC-60-00	0.92 kg [2.02 lb]



EE-BBR-65

Dimensions and technical information are subject to change without notice

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

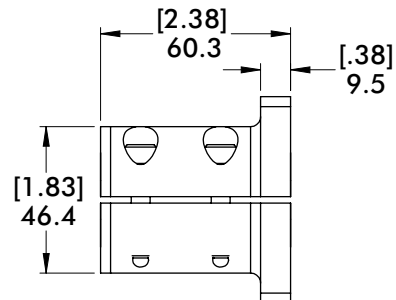
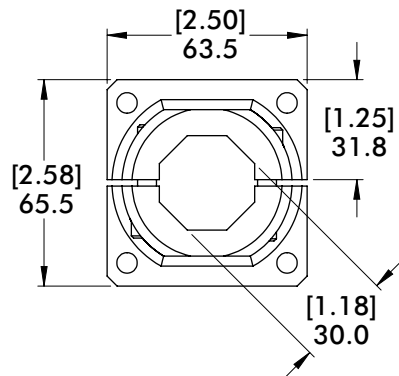
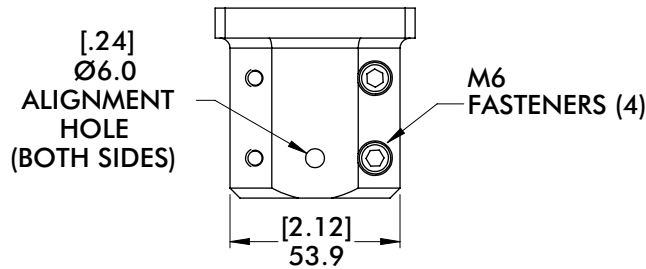
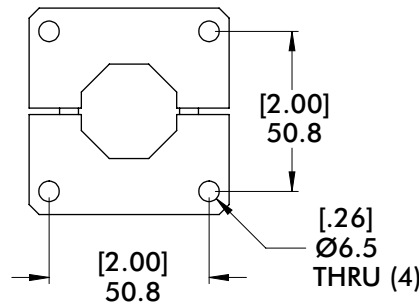
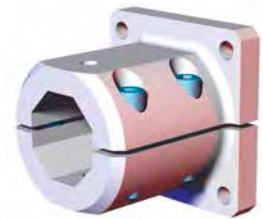


Specifications:

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 | Technical Specifications and Dimensions

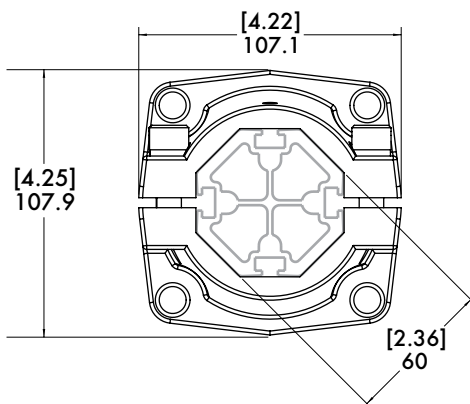
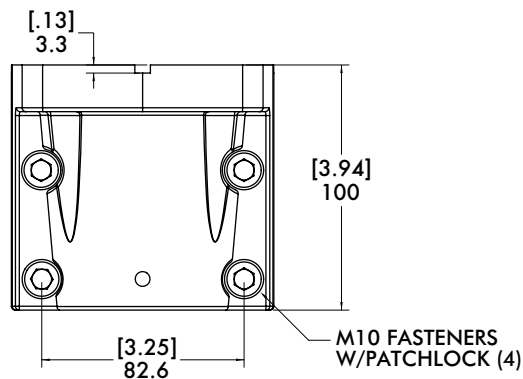
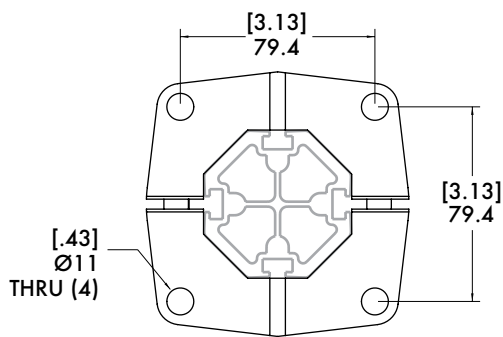
BECC-60 60mm End Flange Clamp Mount

Features:

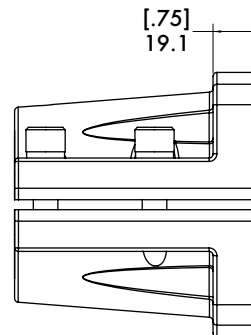
- Mounts 60mm extrusion 90° to the mounting surface.
- Can be used as robot interface when quick-change connector is not required.
- Cross-key design provides added strength for high-torque applications when used in conjunction with a slot and key mechanism.

Specifications:

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



ALIGNMENT NUT INCLUDED



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

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

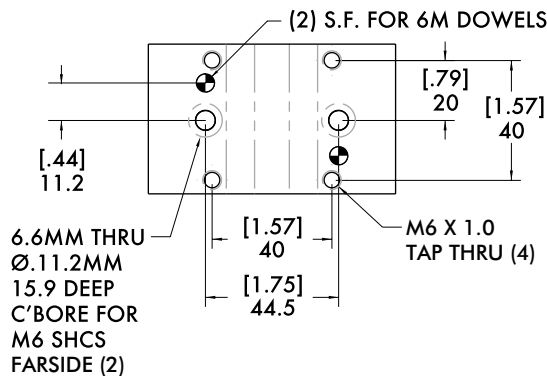
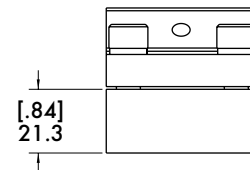
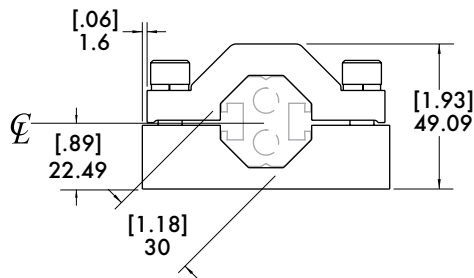
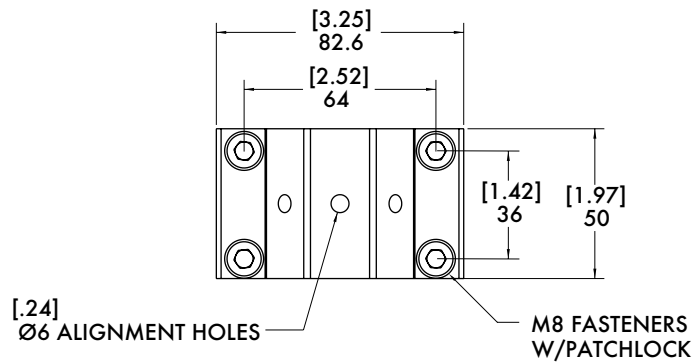
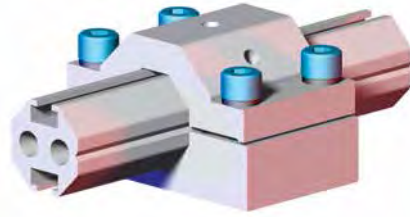
TPM-30 30mm Accessory Mounting Bracket

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

TPM-30

Weight

.36 kg [.80 lb]

BODYBUILDER™ ACCESSORY MOUNTS



BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions

TPM(S)-45 45mm Accessory Mounting Bracket

Features:

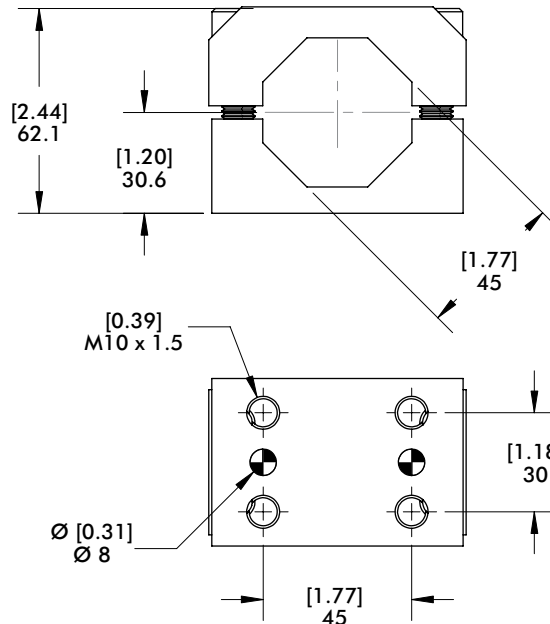
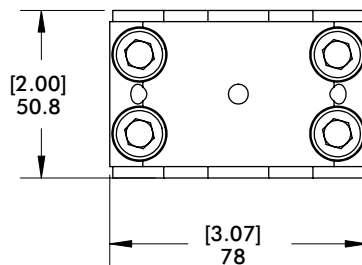
- Provides a secure attachment point for clamps and pin locators.
- Standard NAAMS mounting patterns.

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]

TPMS-60 60mm Accessory Mounting Bracket.



Specifications:

Max. Static Clamp Load:

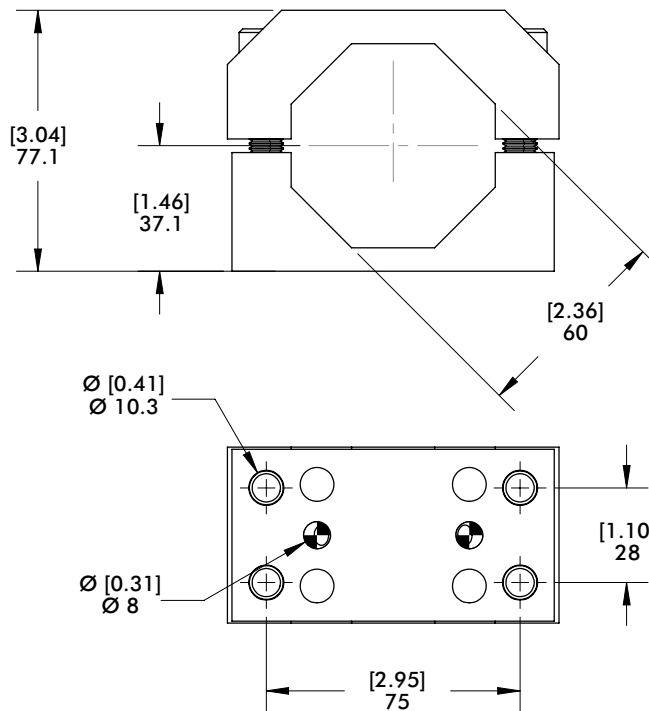
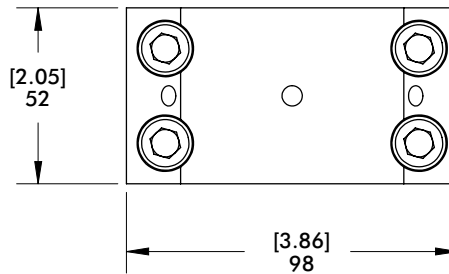
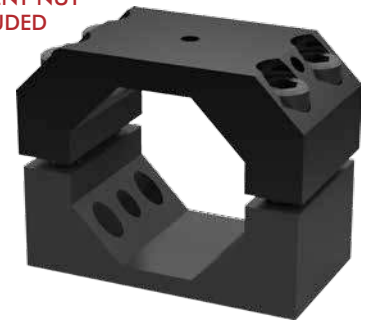
746 Nm [550 ft-lb]

Material: Steel

Features:

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

ALIGNMENT NUT INCLUDED



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

BODYBUILDER™ ACCESSORY MOUNTS



BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions

TPMS-90 90mm Accessory Mounting Bracket

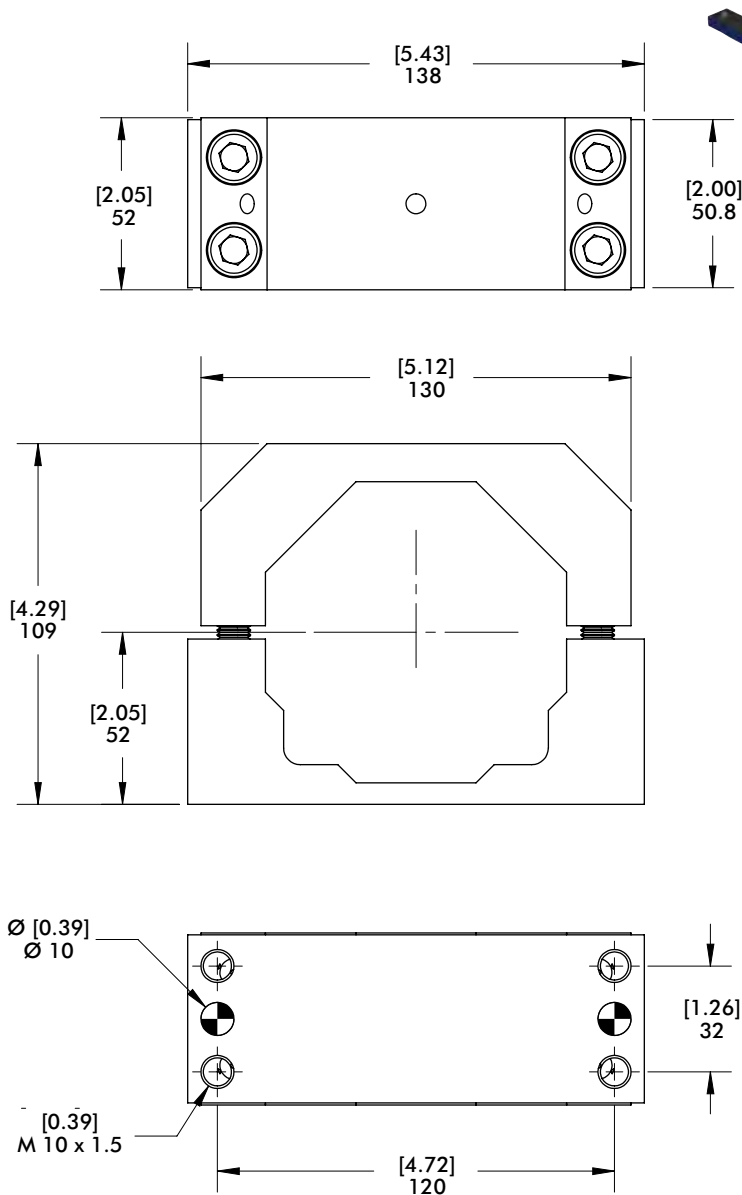
Features:

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

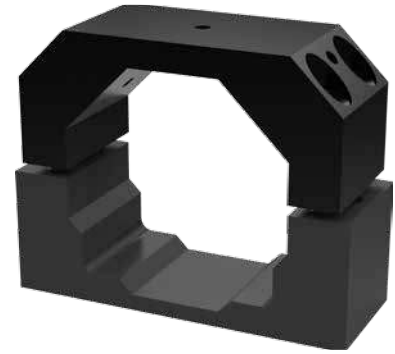
Specifications:

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

Material: Steel

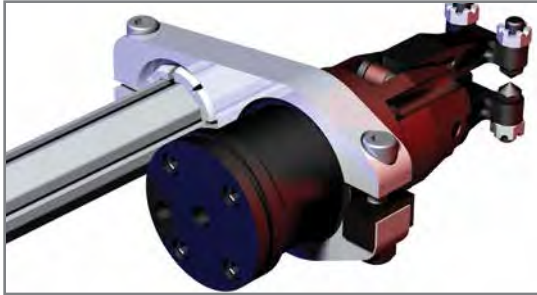


ALIGNMENT NUT
INCLUDED



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

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



Specifications:

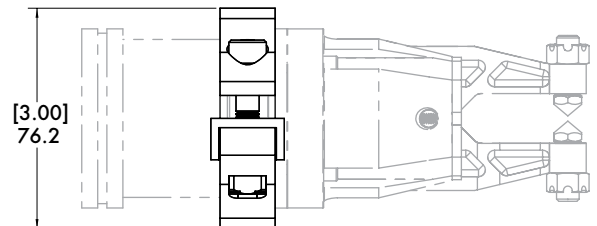
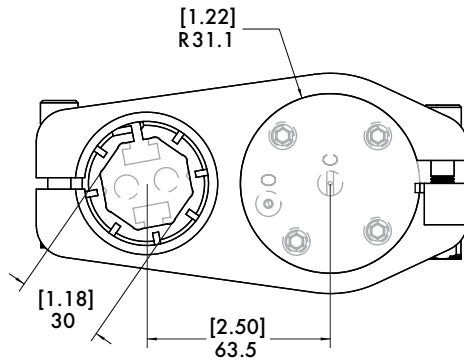
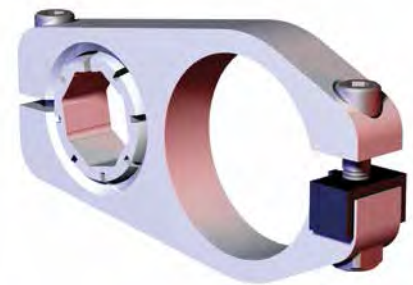
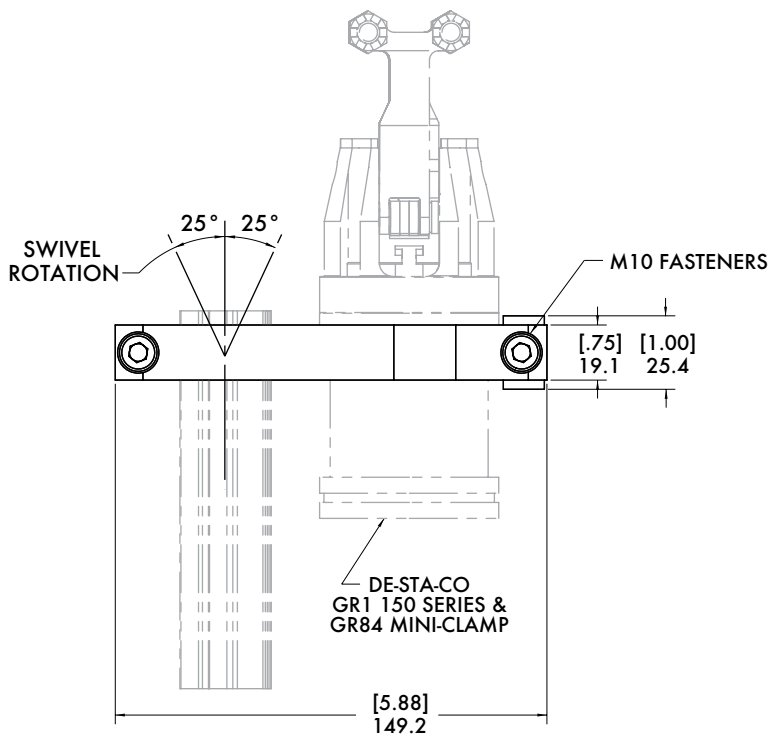
Max. Static Clamp Load:
271 Nm [200 ft-lb]

Material:

Body: Aluminum
Swivel Ball: Steel

Features:

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



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

BODYBUILDER™ GRIPPER MOUNTS



BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions

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

Features:

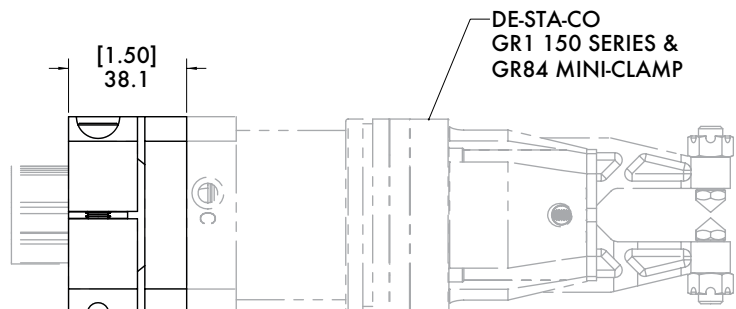
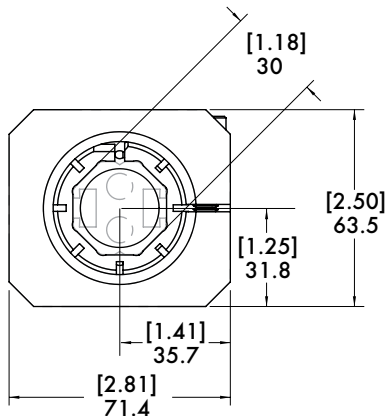
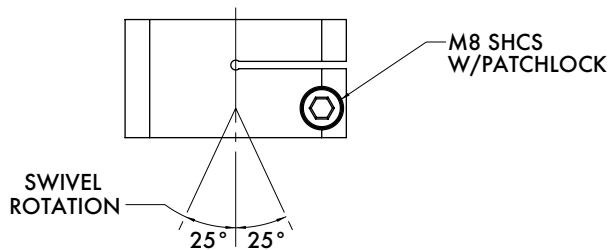
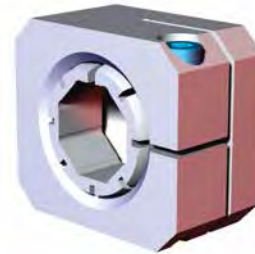
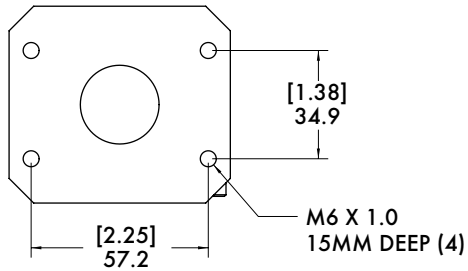
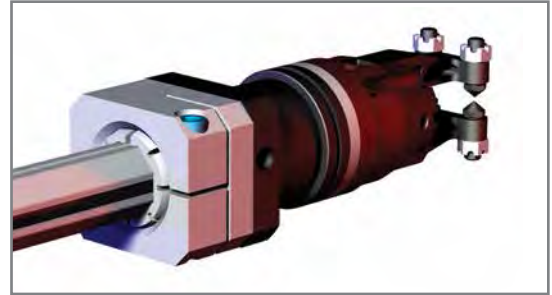
- Swivel ball allows for $\pm 25^\circ$ adjustment of swivel rotation.

Specifications:

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

Material:

Housing:
Machined Aluminum
Swivel: Steel



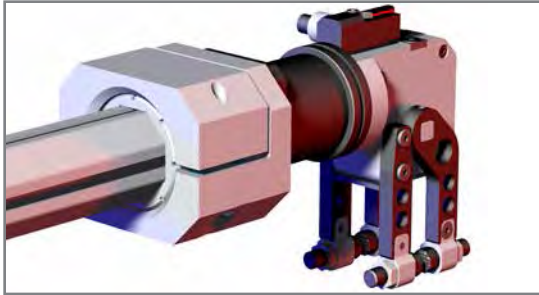
Model Number	Weight
CPI-RJM-150-30BBS	.33 kg [.74 lb]



EE-BBR-73

Dimensions and technical information are subject to change without notice

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



Specifications:

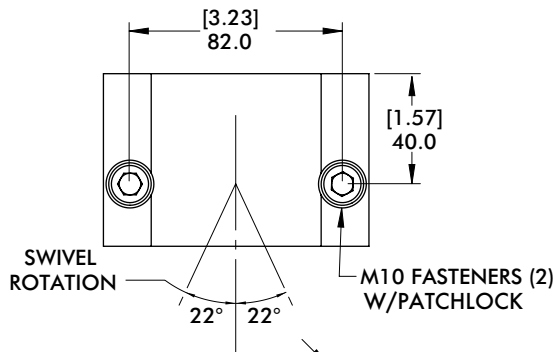
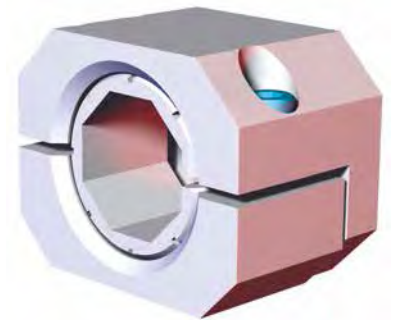
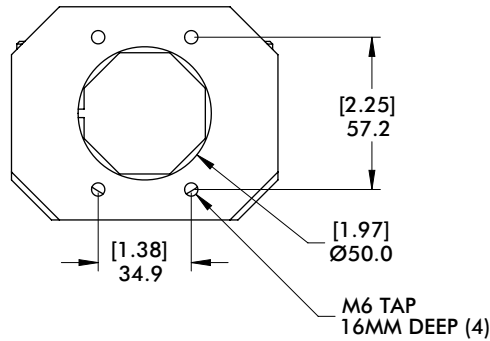
Max. Static Clamp Load:
475 Nm [350 ft-lb]

Material:

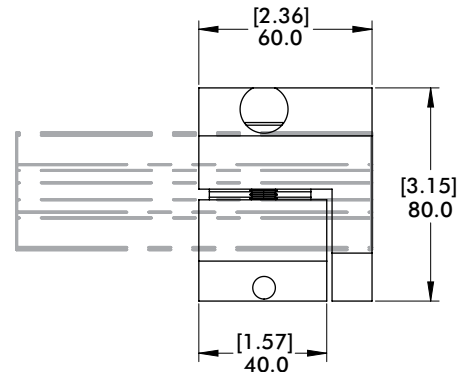
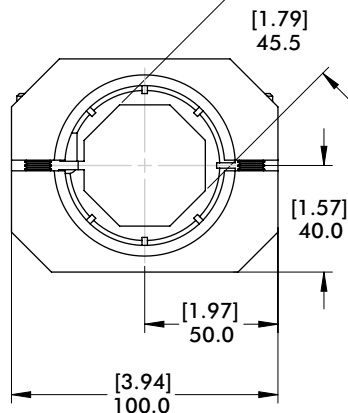
Housing:
Machined Aluminum
Swivel: Steel

Features:

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



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



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

BODYBUILDER™ SWIVEL ARMS



BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions

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

Features:

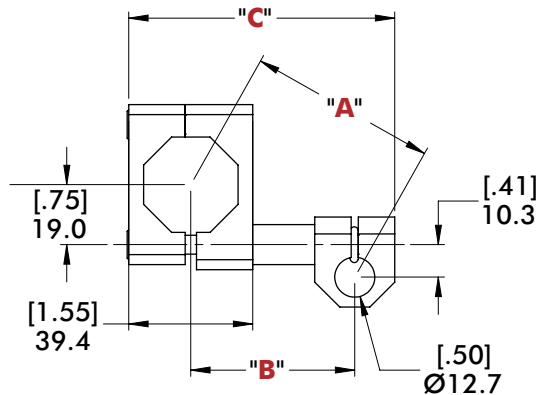
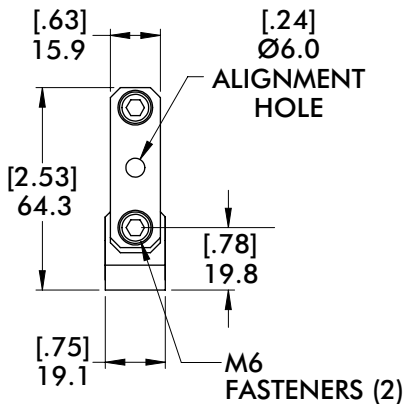
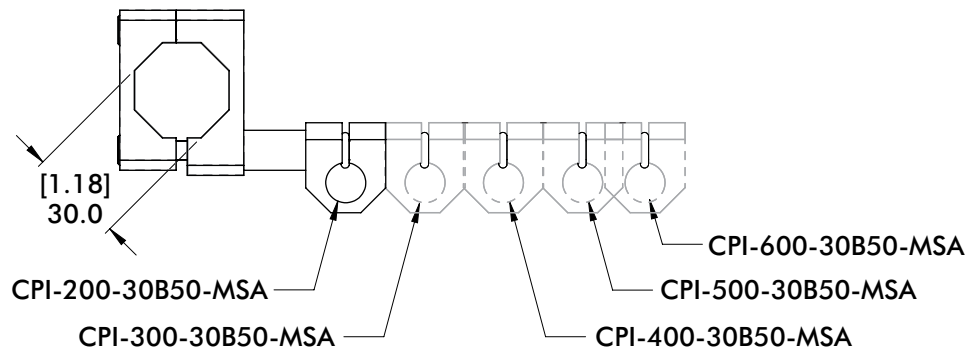
- Mounts to BodyBuilder™ 30mm extrusion boom.
- One bolt design for easy assembly and adjustment, allowing accessories to be repositioned easily.
- Provides 360° of adjustments in (3) axes.
- Used to mount venturi, bumpers, round locators, and proximity switches.

Specifications:

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

Material:

Body:
Cast Aluminum
Insert:
Machined Aluminum



CPI- <u> </u> -30B50-MSA SWIVEL ARM				
"L"	"A"	"B"	"C"	Weight
200	59.8 [2.35]	52.1 [2.05]	84.5 [3.33]	.10 kg [.22 lb]
300	82.6 [3.25]	77.2 [3.04]	109.6 [4.32]	.11 kg [.24 lb]
400	106.2 [4.18]	102.1 [4.02]	134.5 [5.30]	.12 kg [.26 lb]
500	130.6 [5.14]	127.3 [5.01]	159.7 [6.29]	.13 kg [.29 lb]
600	150.0 [5.90]	147.1 [5.79]	179.5 [7.07]	.14 kg [.31 lb]

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



Specifications:

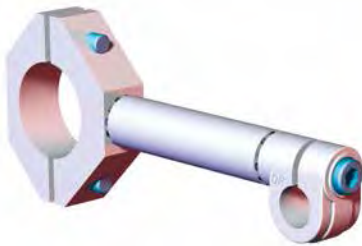
Max. Static Clamp Load:
271 Nm [200 ft-lb]

Material:

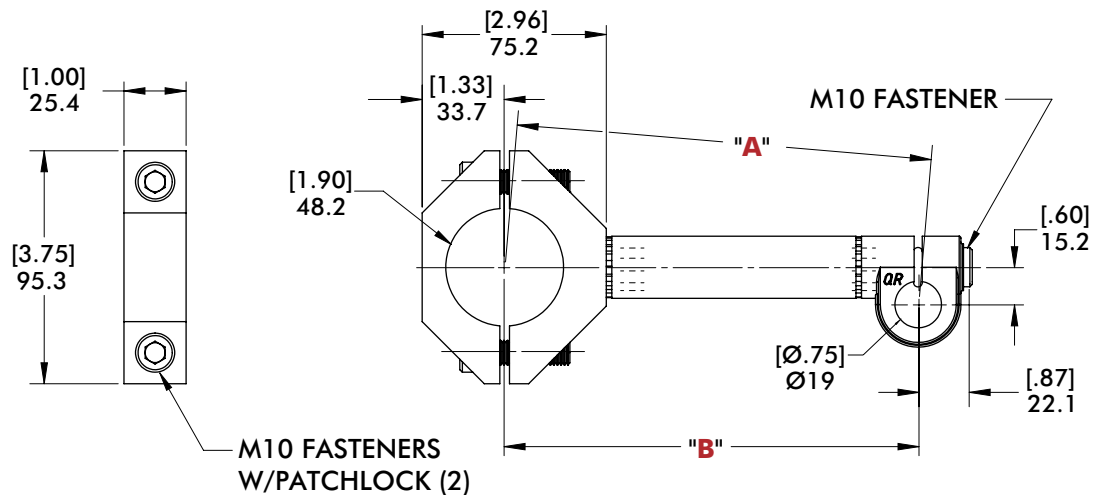
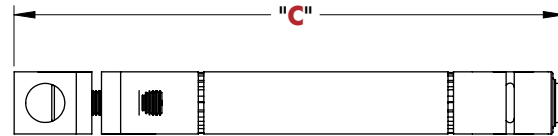
Body:
Cast Aluminum
Insert:
Machined Aluminum

Features:

- Mounts to BodyBuilder™ 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 [4.72]	118.8 [4.68]	140.9 [5.56]	.48 kg [1.06 lb]
180	169.8 [6.68]	169.1 [66.6]	224.9 [8.89]	.54 kg [1.20 lb]
230	219.7 [8.65]	219.1 [8.63]	275.0 [10.83]	.61 kg [1.34 lb]
280	269.6 [10.61]	269.2 [10.60]	325.0 [12.80]	.67 kg [1.47 lb]

BODYBUILDER™ SWIVEL ARMS



BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions

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

Features:

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

Specifications:

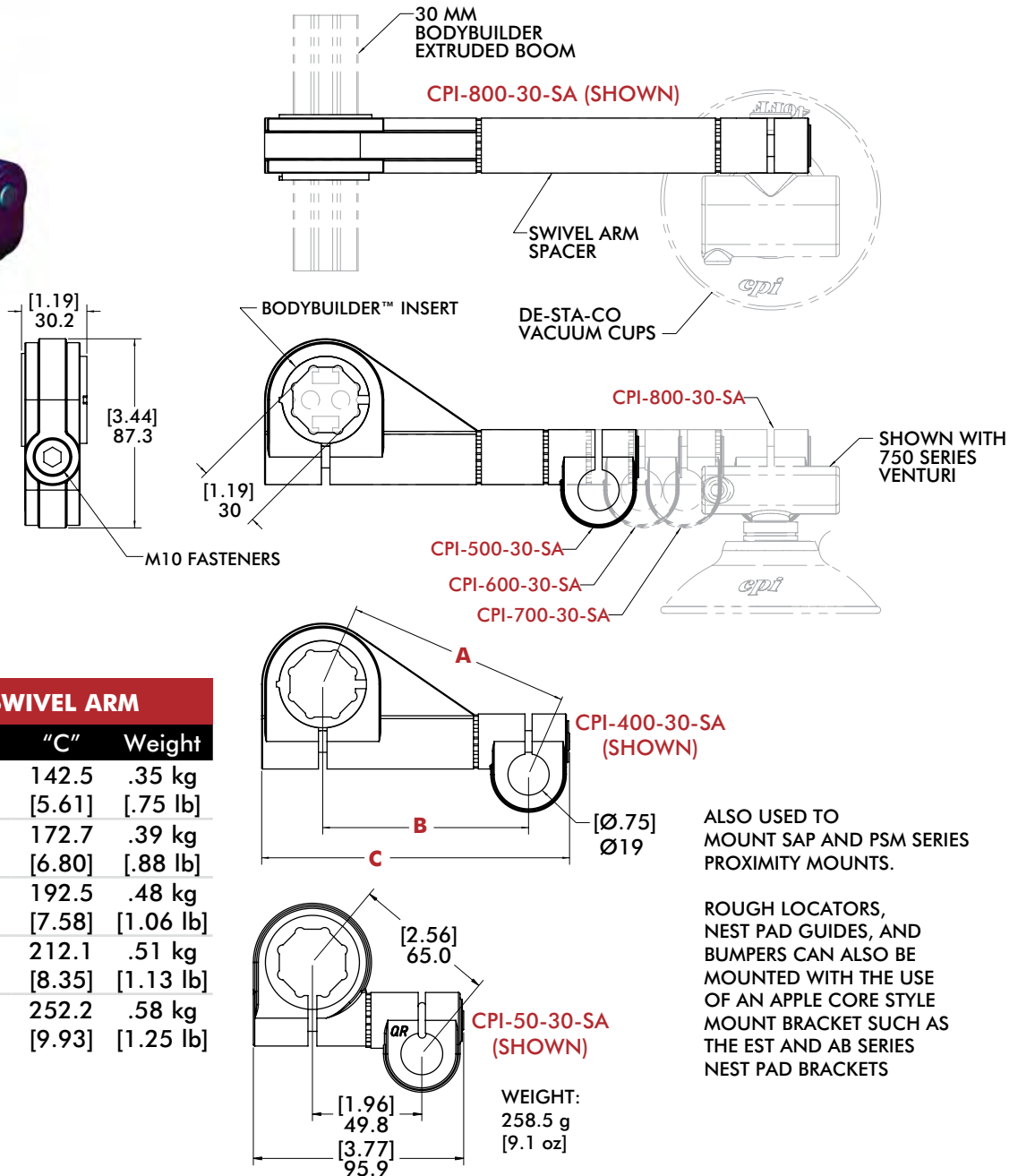
Max. Static Clamp Load:
271 Nm [200 ft-lb]

Material:

Body:
Cast Aluminum
Insert:
Machined Aluminum



CPI-400-30-SA SHOWN



ALSO USED TO MOUNT SAP AND PSM SERIES PROXIMITY MOUNTS.

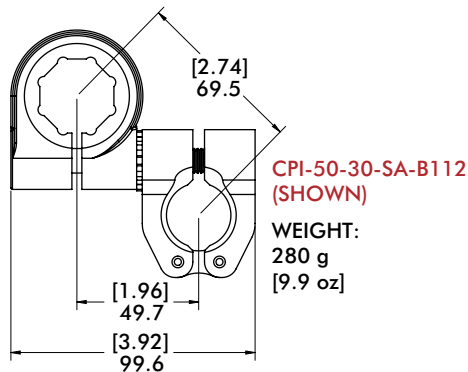
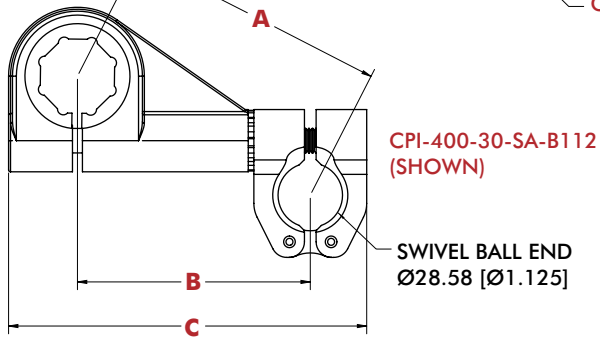
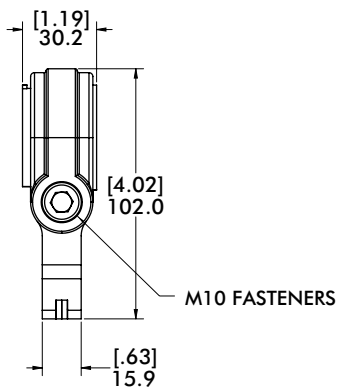
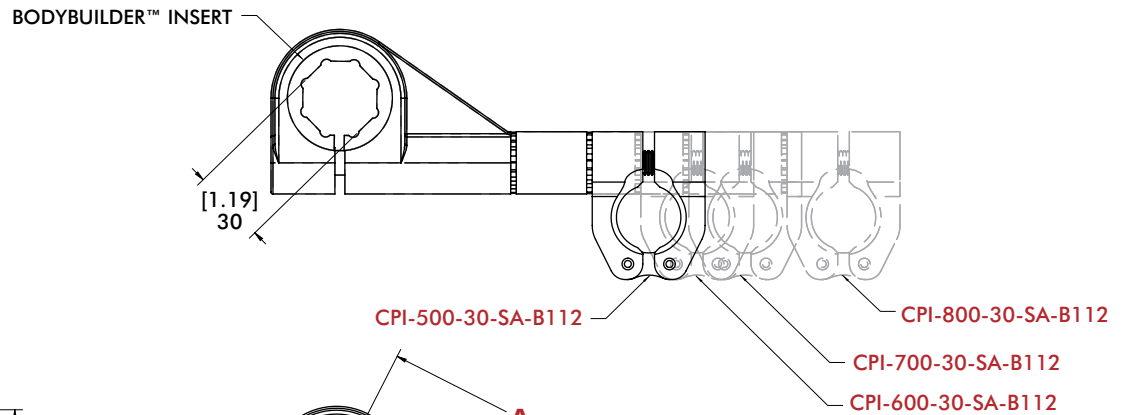
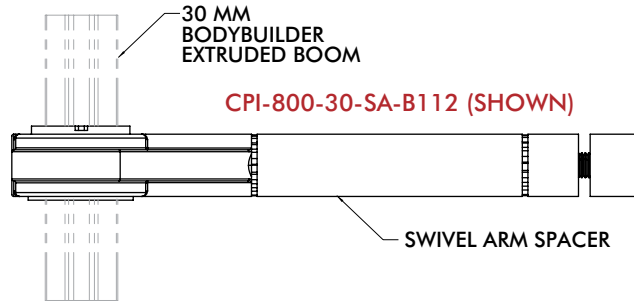
ROUGH LOCATORS, NEST PAD GUIDES, AND BUMPERS CAN ALSO BE MOUNTED WITH THE USE OF AN APPLE CORE STYLE MOUNT BRACKET SUCH AS THE EST AND AB SERIES NEST PAD BRACKETS

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

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



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



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

BODYBUILDER™ SWIVEL ARM ACCESSORIES



BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions

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

Features:

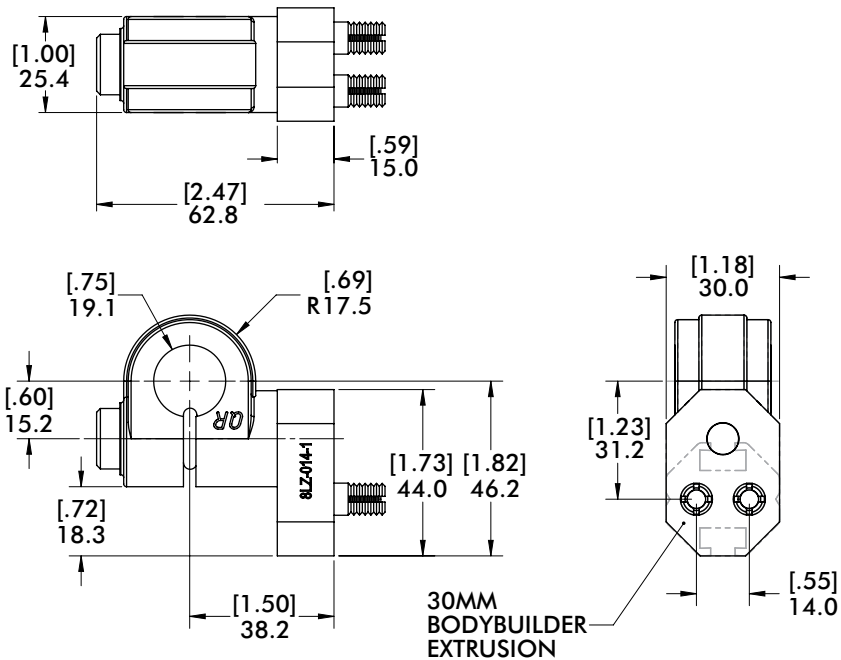
- Mounts to BodyBuilder™ 30mm extrusion boom.
- One bolt design for easy assembly and adjustment, allowing accessories to be repositioned easily.
- Provides 360° of adjustment along (2) axis.

Specifications:

Material:
Aluminum



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



Model Number

CPI-BC-19

Weight

.13 kg [.28 lb]



EE-BBR-79

Dimensions and technical information are subject to change without notice

AB-750-SL Part Present Proximity Switch Mount



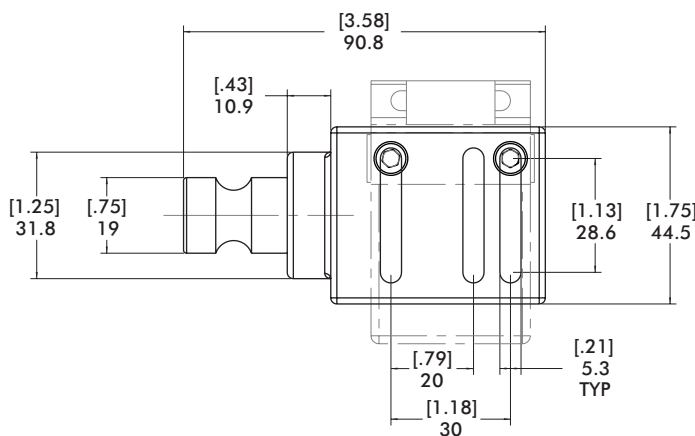
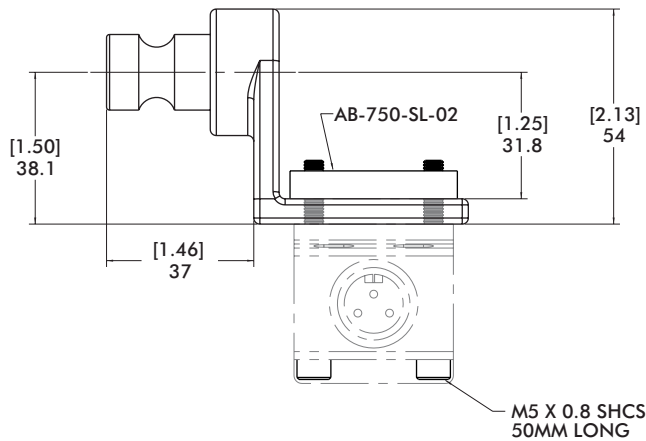
Specifications:

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

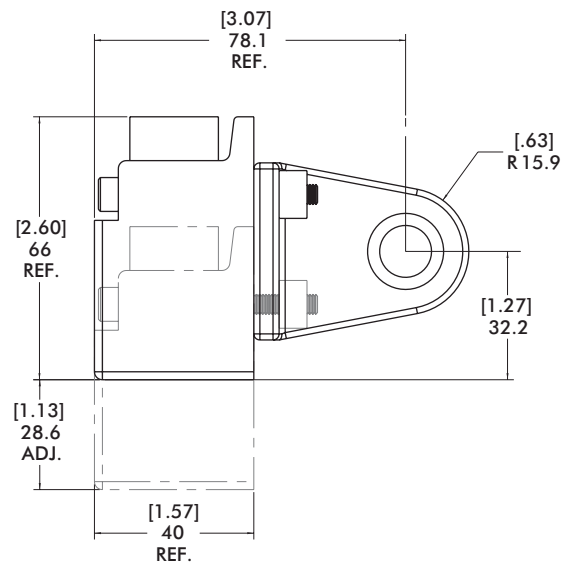
Material:
Aluminum

Features:

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



FASTENERS AND NUT INCLUDED



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

BODYBUILDER™ SWIVEL ARM ACCESSORIES



BodyBuilder™ Octagonal Tooling | Technical Specifications and Dimensions

NPG-15RL-400 Rough Locator

Features:

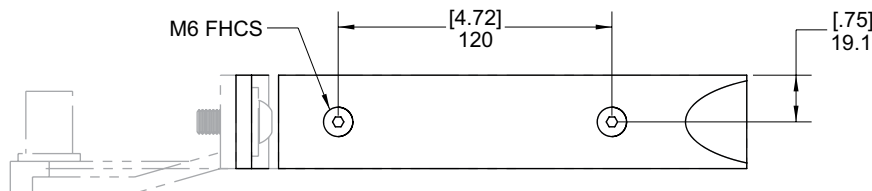
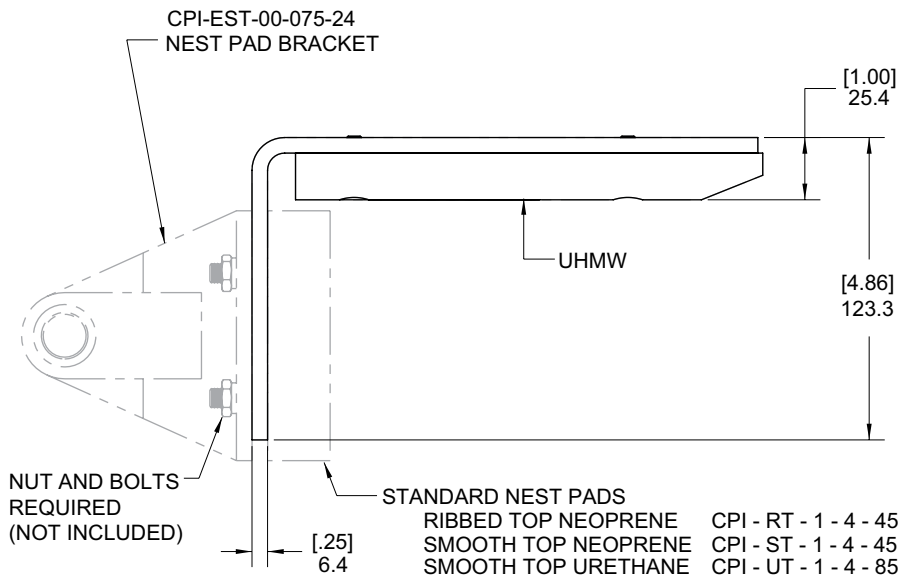
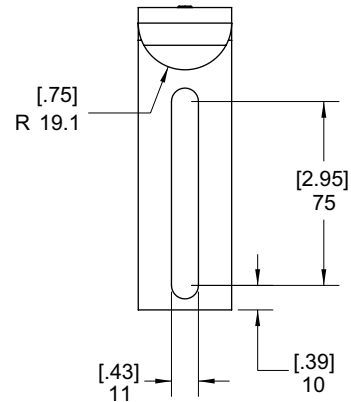
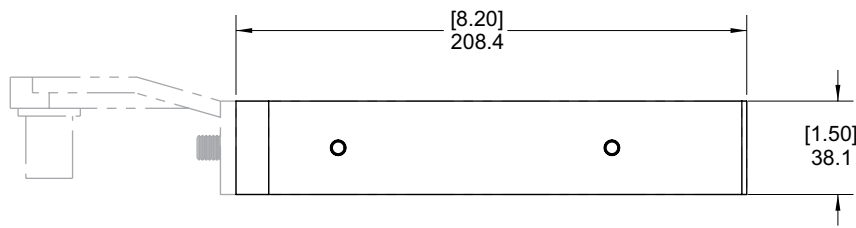
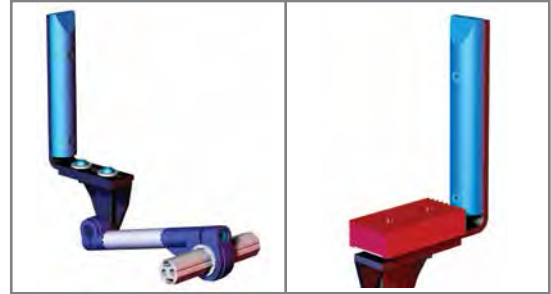
- Mounts to Nest Pad Brackets and indirectly to BodyBuilder™ 30mm Swivel Arm Mount.

Specifications:

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

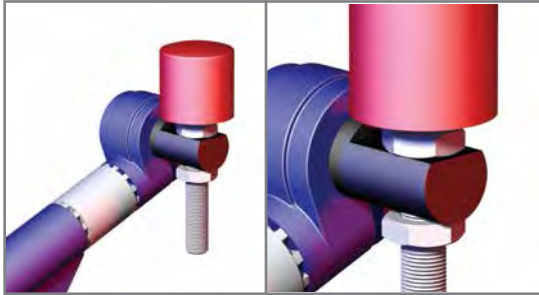
Material:

Bracket: Steel
Wear Surface: UHMW



Model Number	Weight
CPI-NPG-15RL-400	0.86 kg [1.90 lb]

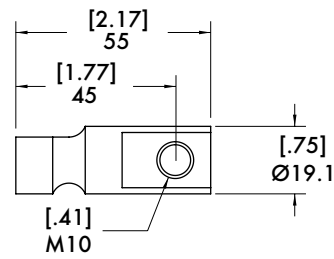
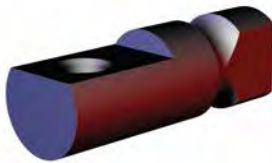
SAP-BM10 Ø19mm [.75 in] Apple Core Nest Bumper Mount



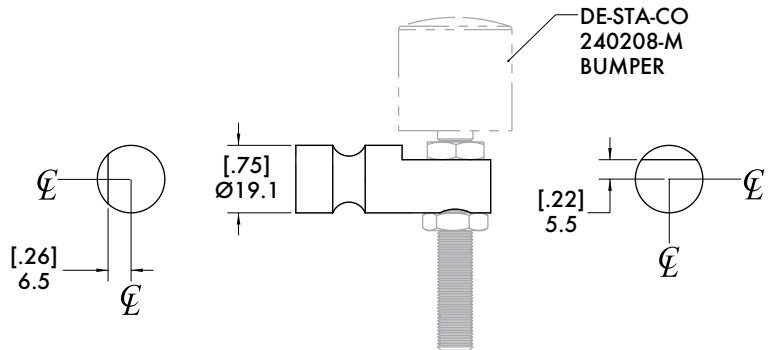
Specifications:

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

Material:
Steel



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



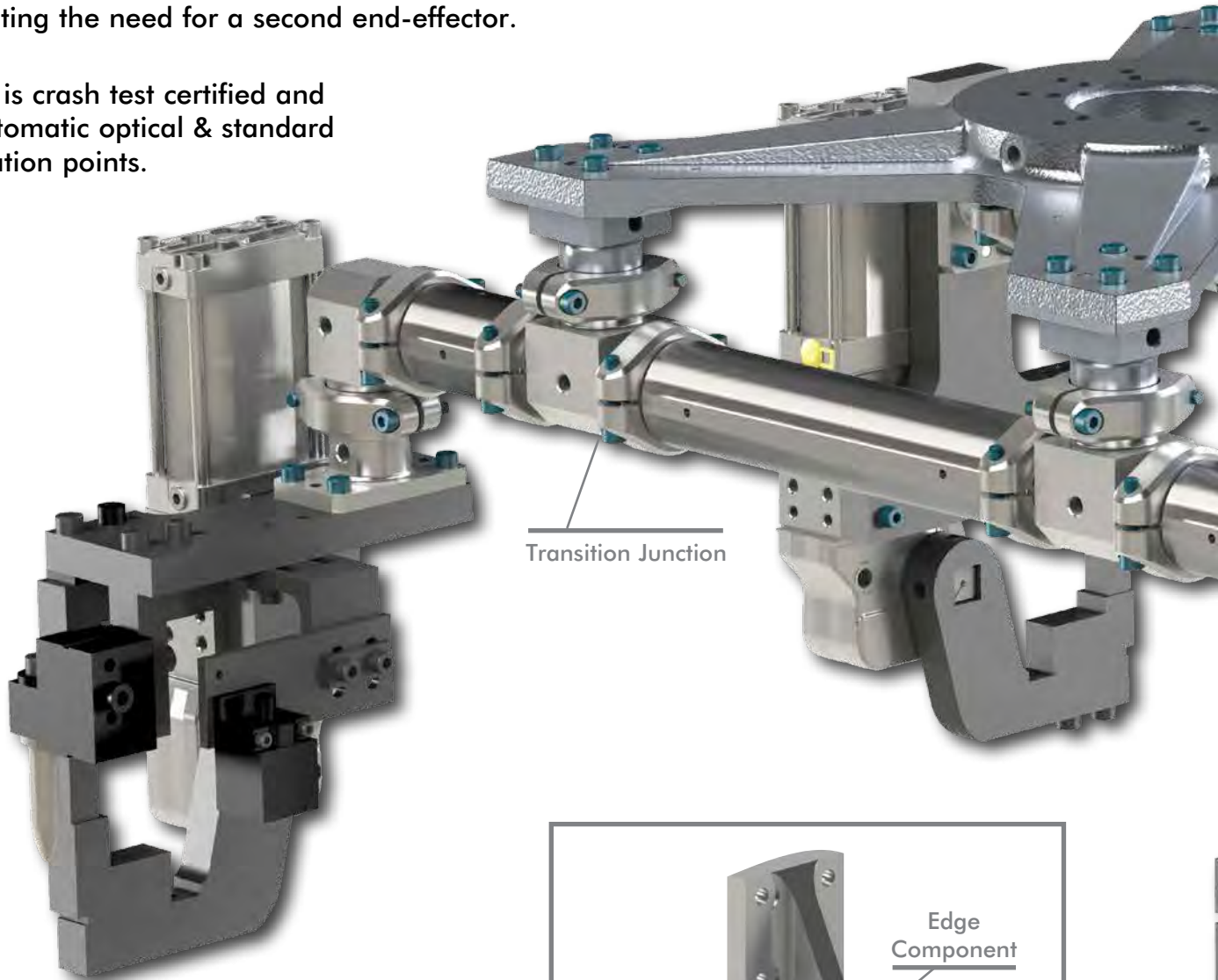
SPIDERGRIP GEOMETRIC END EFFECTOR SYSTEM



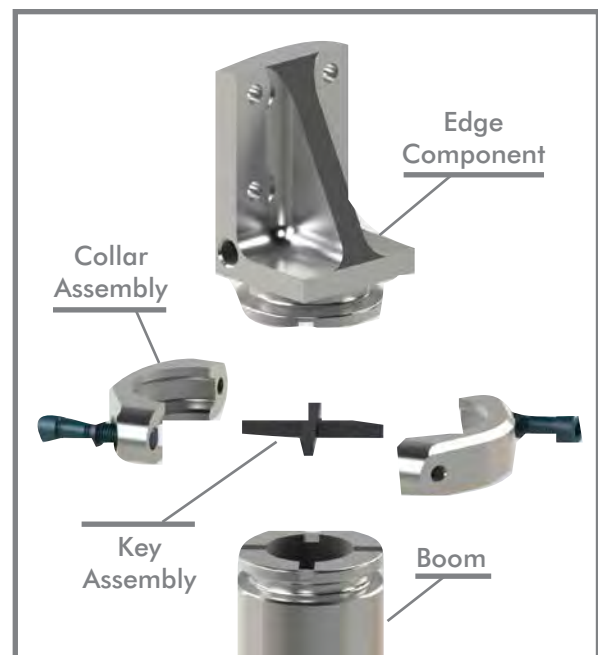
Product Overview

SpiderGrip Geometric End Effector Tooling System offers a standard cost effective solution by making it easy for each component to be replaced individually in the robotic cell, dramatically reducing production downtime and eliminating the need for a second end-effector.

This system is crash test certified and features automatic optical & standard CMM validation points.

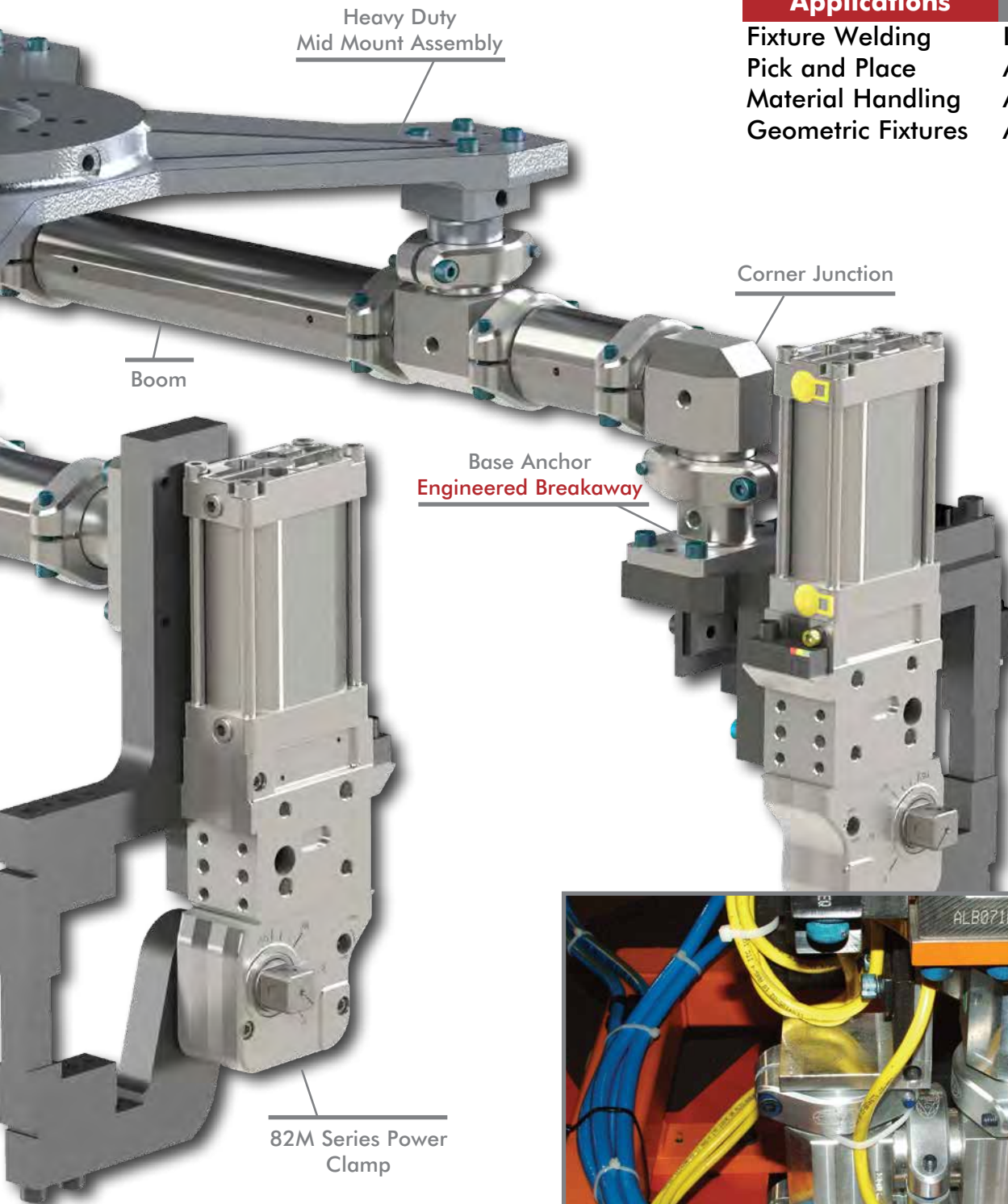


Spidergrip modular components are easily configurable and offer high strength to weight ratios while maintaining dimensional accuracy after continuous minor collisions. The patented collar/key design and engineered breakaway base anchor provides quick crash recovery.



SPIDERGRIP GEOMETRIC END EFFECTOR SYSTEM

Product Overview



Most commonly used in:

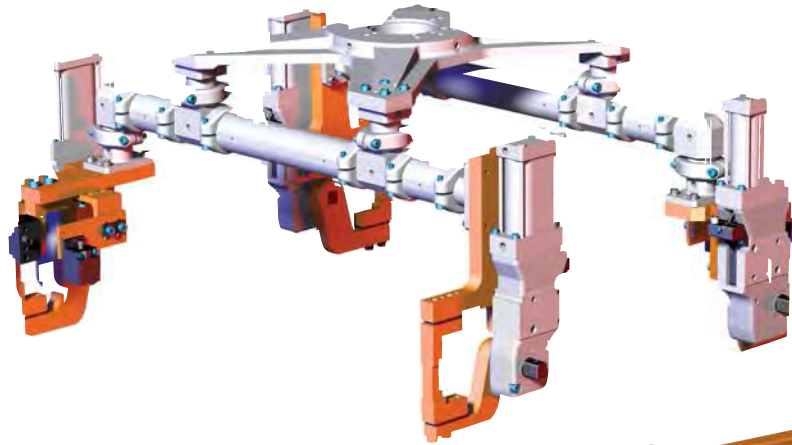
Applications	Markets
Fixture Welding	Industrial
Pick and Place	Automotive
Material Handling	Aerospace
Geometric Fixtures	Appliance



SPIDERGRIP END EFFECTOR TOOLING SYSTEMS

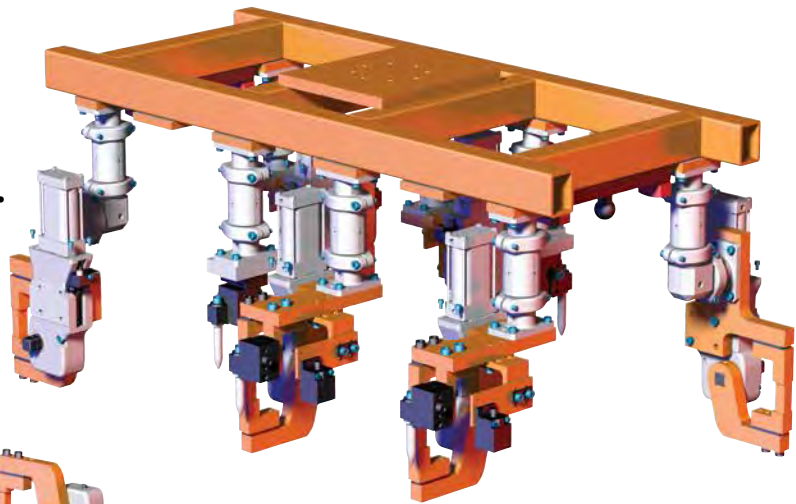


Spidergrip Tooling Components | Typical Application Build Examples

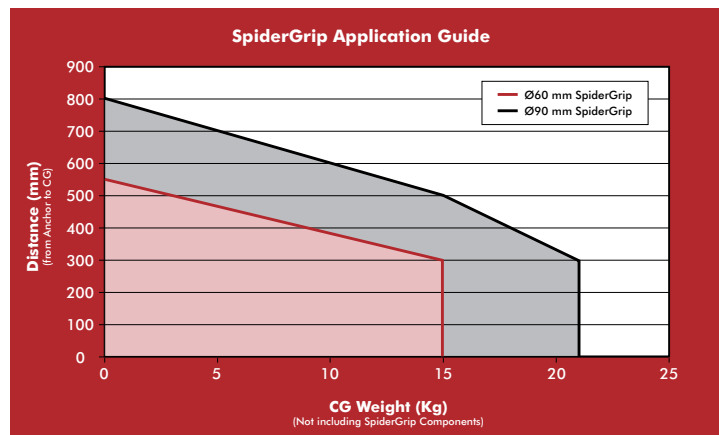
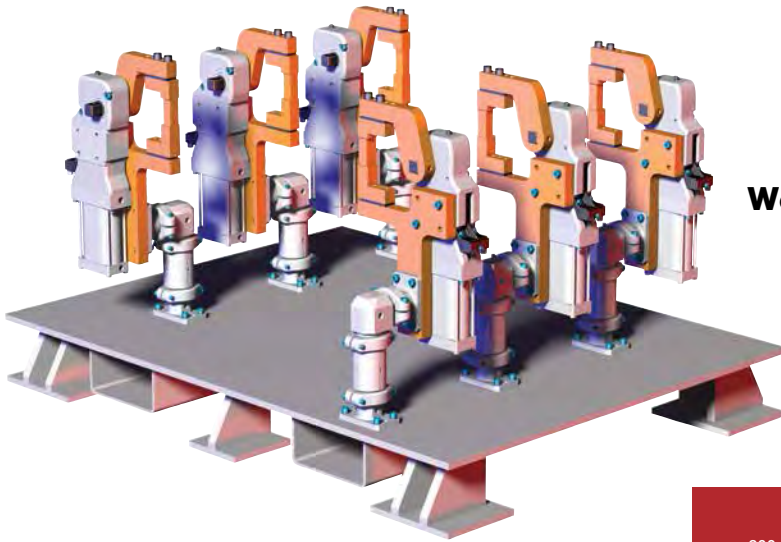


Materials Handling End Effector Tooling System with RM4 Heavy Duty Mid-Mount Assembly (RM4-ST5).

Geometric End Effector Tooling System with Steel Frame Backbone.



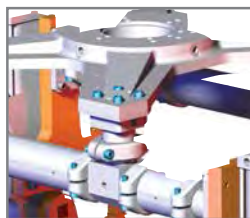
Weld Fixture Tooling System



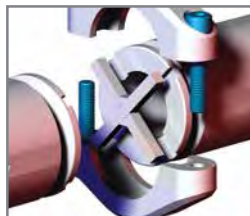


SPIDERGRIP GEOMETRIC END EFFECTOR SYSTEM

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SpiderGrip Heavy Duty Mid Mount..... 5



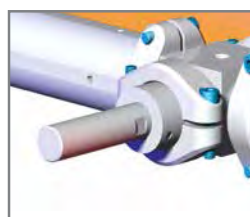
SpiderGrip Anchors and Collar Assemblies 10



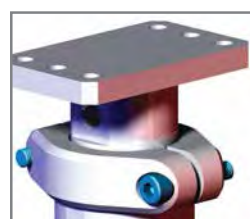
SpiderGrip Booms, Adaptors, and Spacers..... 17



SpiderGrip Junction Components 21



SpiderGrip Single End Extension Mount 26



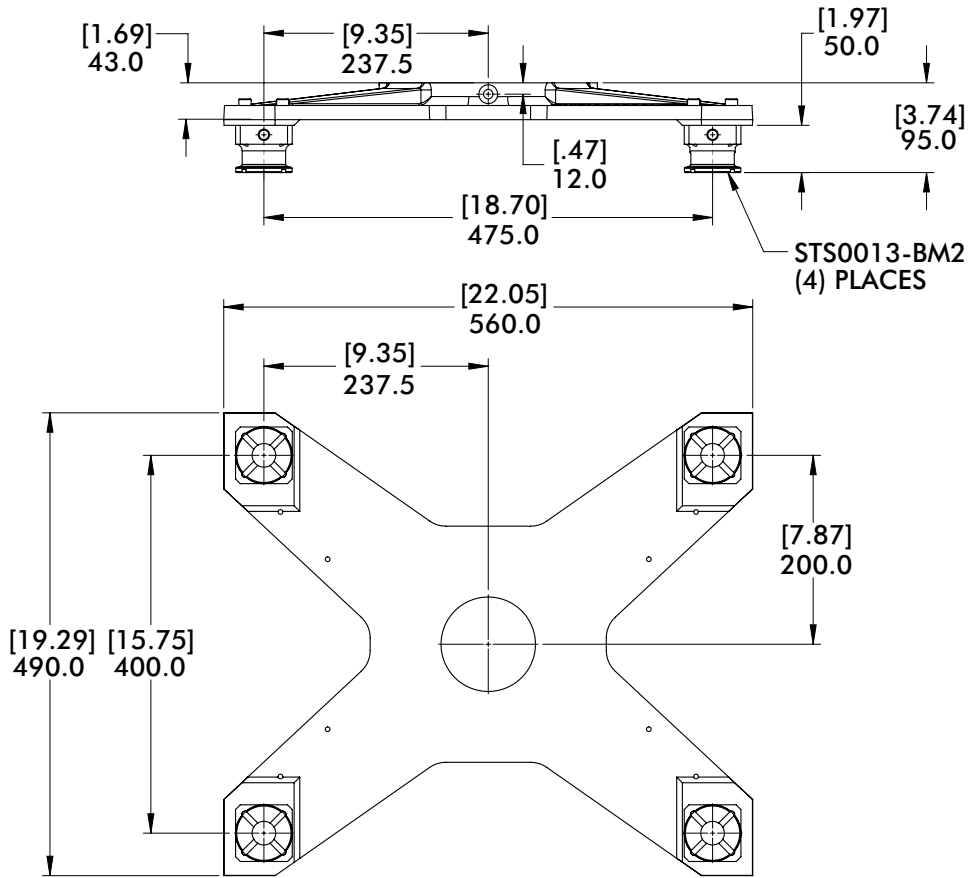
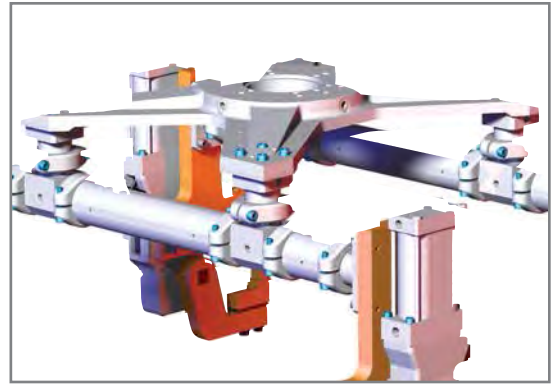
SpiderGrip Edge Mounting Components 27

SPIDERGRIP MID MOUNT ASSEMBLY



Spidergrip Tooling Components | Dimensions, How To Order

Heavy-Duty Mid Mount Assembly



RM4-STS — **RXX** — **XX**

Model **Robot Interface Pattern** **Accessory**
 (e.g. EPM-01)
 (Leave blank if NONE)

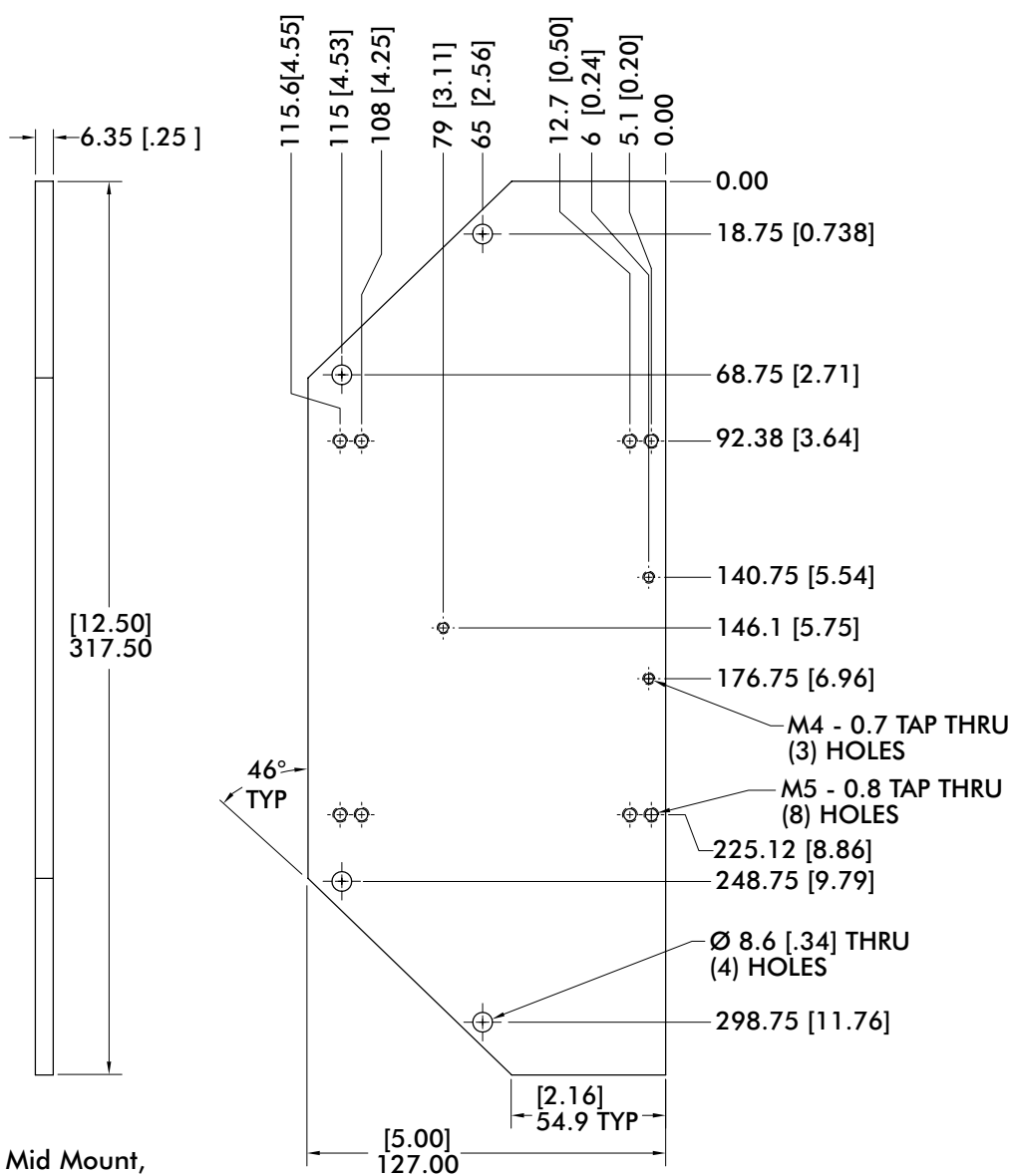
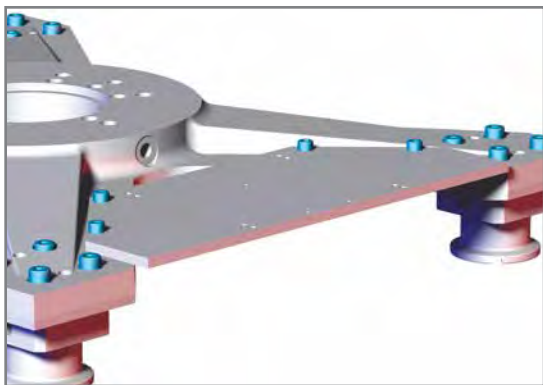
Weight
 10.4 kg [22.89 lb]



SPIDERGRIP MID MOUNT ACCESSORY PLATE

Spidergrip Tooling Components | Dimensions, How To Order

Accessory Mount Plate



When ordering with Heavy Duty Mid Mount, please add designation "EPM-01" as shown RM4-ST5-RXX-EPM-01 or add designation "EPM-BLK" to order blank RM4-ST5-RXX-EPM-BLK To order separately use Model Number

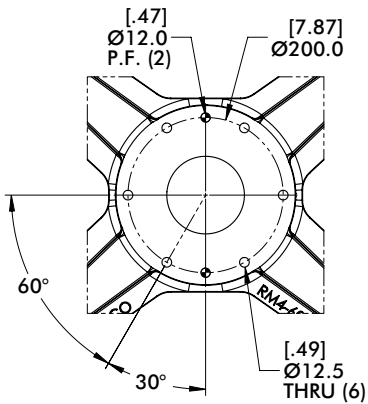
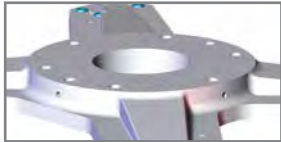
Model Number	Weight
CPI-BM2-EPM-xx	.63 kg [1.39 lb]

MID MOUNT BOLT PATTERN

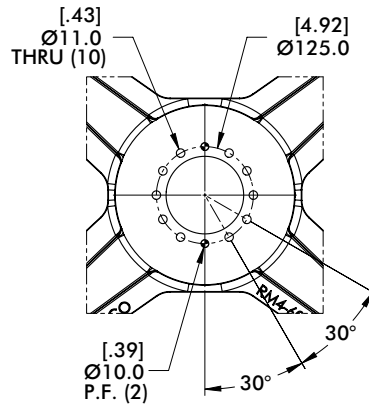
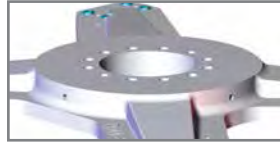
Robot Interface Bolt Patterns



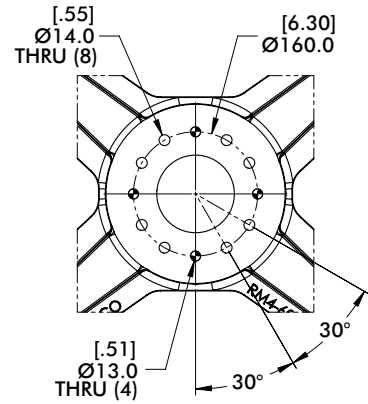
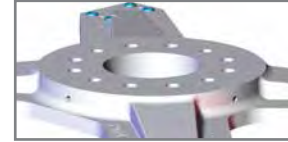
R01 (Ø200mm Bolt Circle)



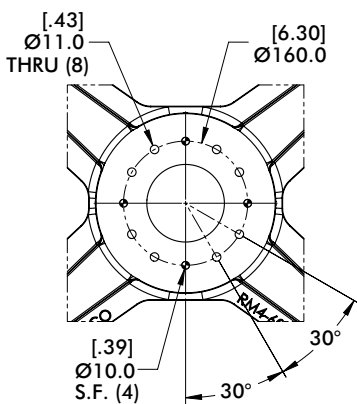
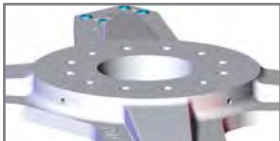
R02 (Ø125mm Bolt Circle)



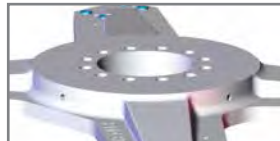
R03 (Ø160mm Bolt Circle)



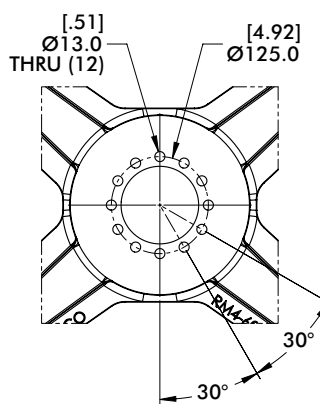
R04 (Ø160mm Bolt Circle)



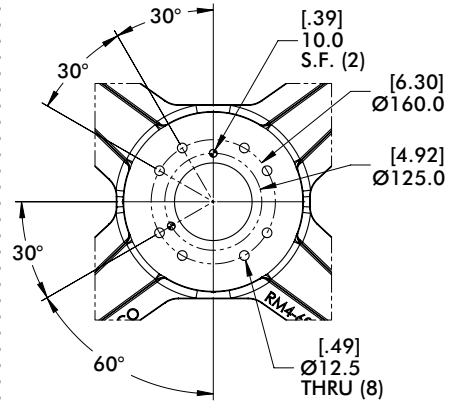
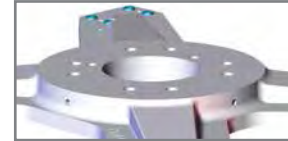
R05 (Ø125mm Bolt Circle)



Includes Insulation
Add 1.5mm to Height (95.0 [3.74])



R06 (Ø125/160mm Bolt Circle)



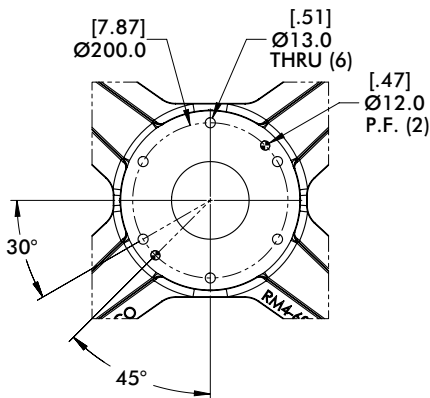
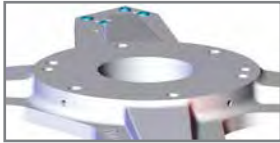


MID MOUNT BOLT PATTERN

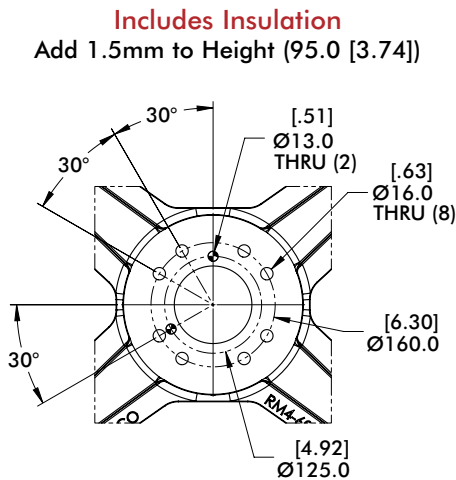
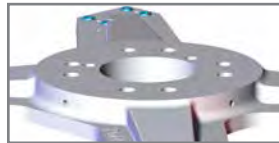
Robot Interface Bolt Patterns



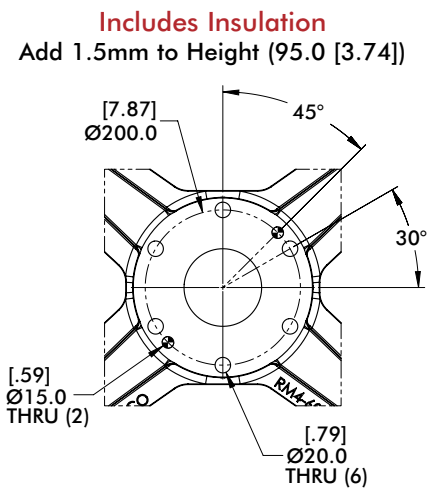
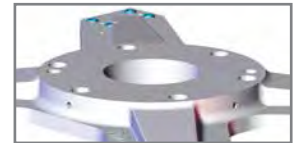
R07 (Ø200mm Bolt Circle)



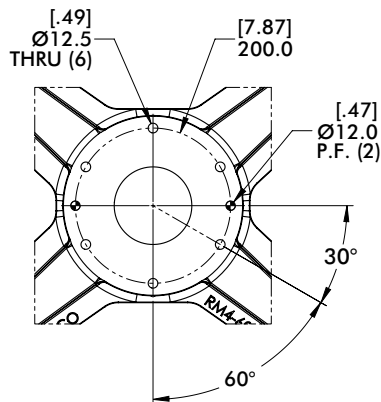
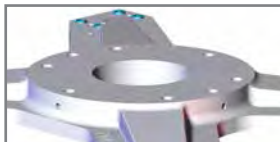
R08 (Ø125/160mm Bolt Circle)



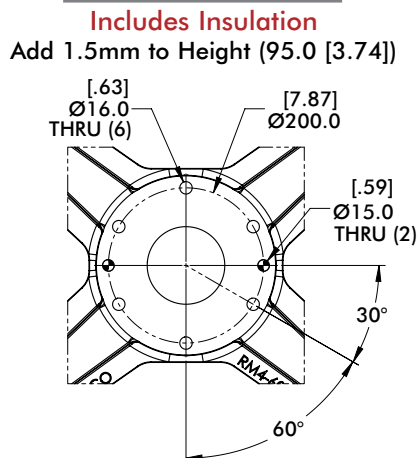
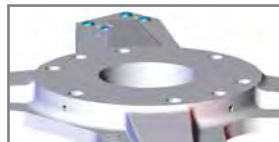
R09 (Ø200mm Bolt Circle)



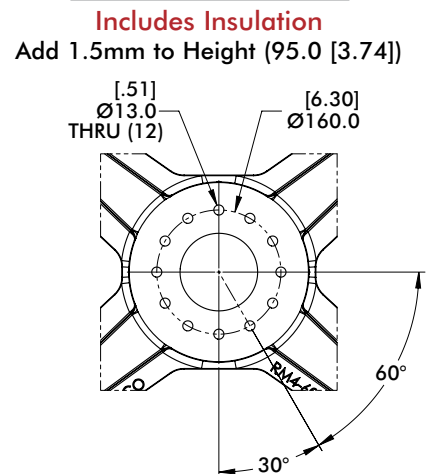
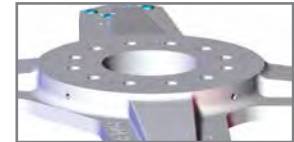
R10 (Ø200mm Bolt Circle)



R11 (Ø200mm Bolt Circle)



R12 (Ø160mm Bolt Circle)

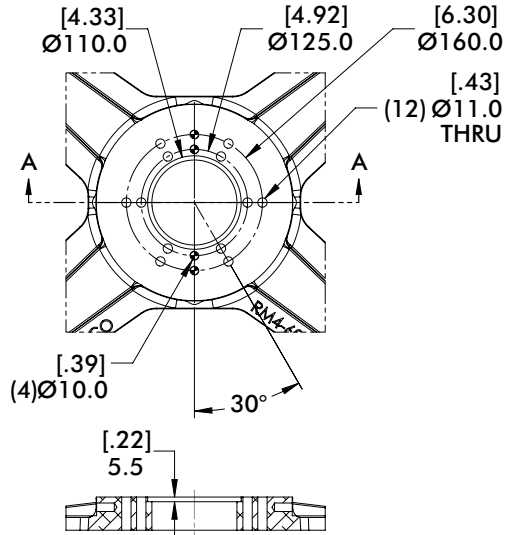
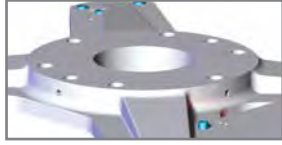


MID MOUNT BOLT PATTERN

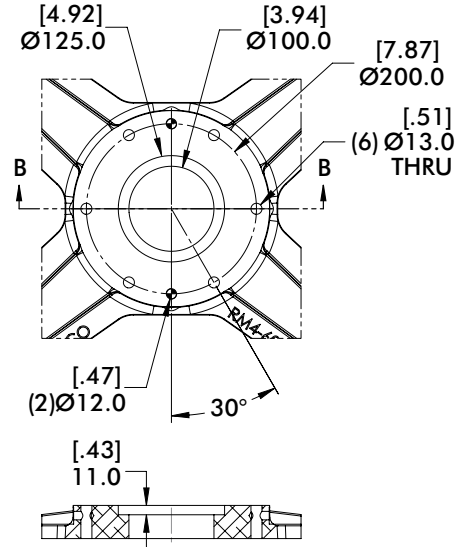
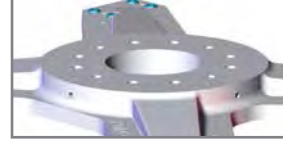


Spidergrip Tooling Components | Robot Interface Bolt Patterns

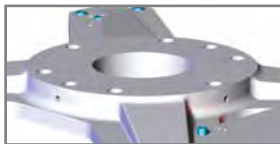
**R13 (Ø125/160mm Bolt Circle)
(Ø110mm Pilot, 5.5mm Deep)**



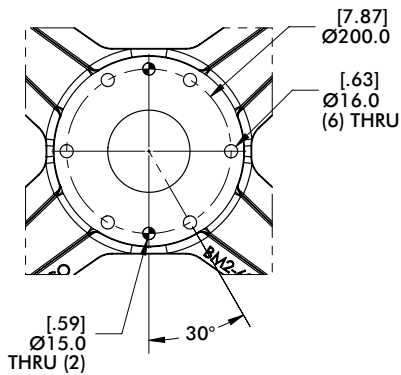
**R14 (Ø200mm Bolt Circle)
(Ø125mm Pilot, 11mm Deep)**



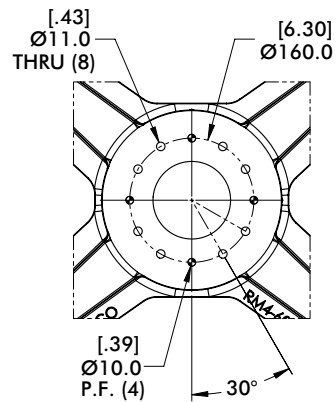
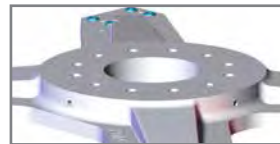
R16 (Ø200mm Bolt Circle)



Includes Insulation
Add 1.5mm to Height (95.0 [3.74])



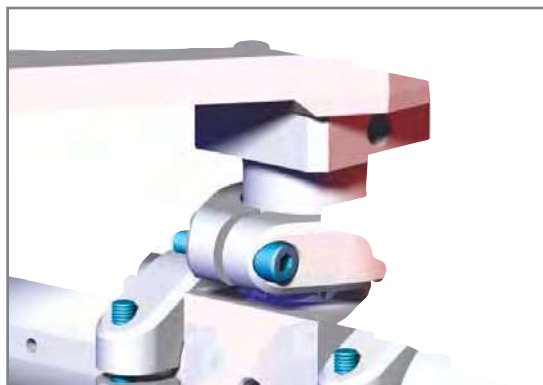
R17 (Ø160mm Bolt Circle)



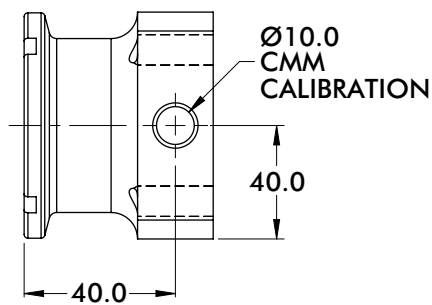
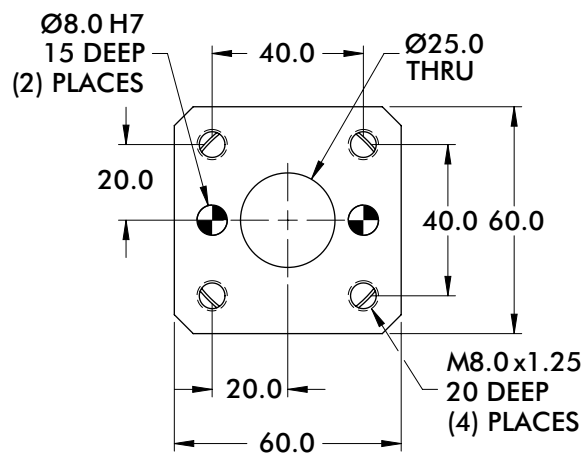
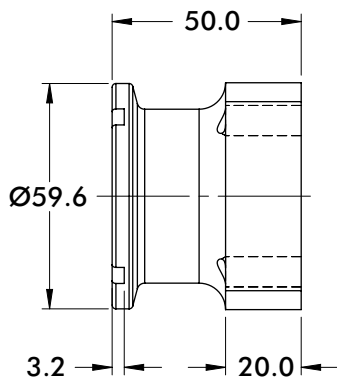
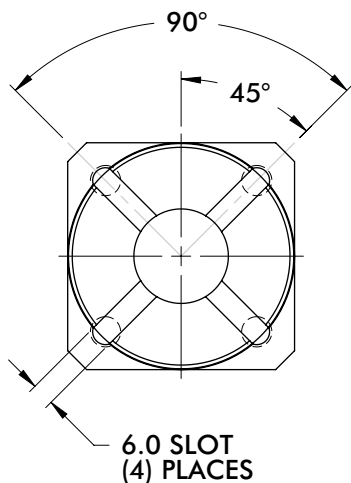


SPIDERGRIP MID MOUNT ANCHOR

Spidergrip Tooling Components | Technical Specifications, Dimensions



Ø60mm Mid Mount Anchor
40mm x 40mm Mounting Pattern - 50mm Face Offset



Model Number

Weight

STS0013-BM2

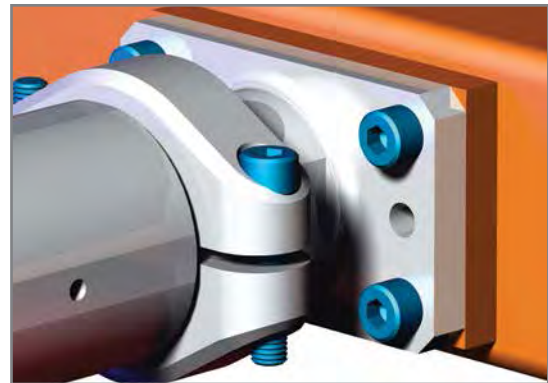
.25 kg [1.50 lb]

SPIDERGRIP MID MOUNT ANCHOR



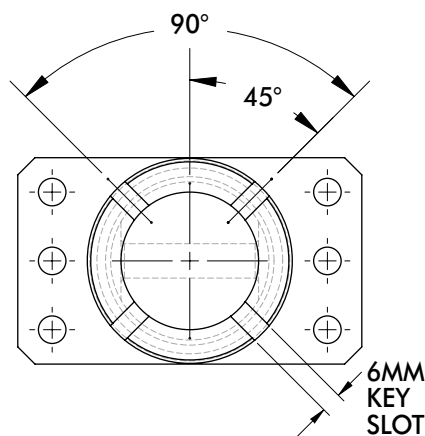
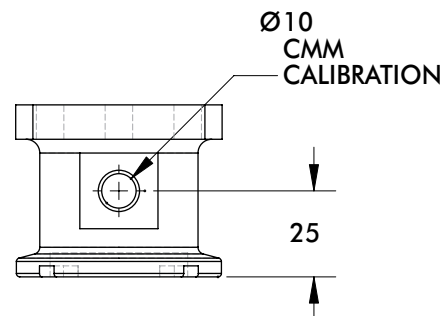
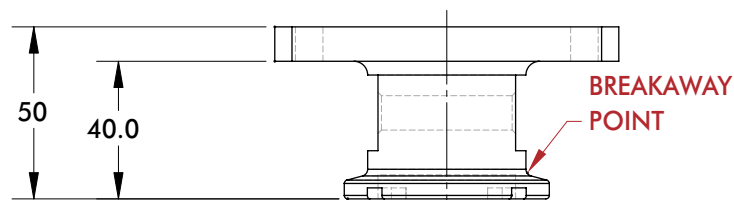
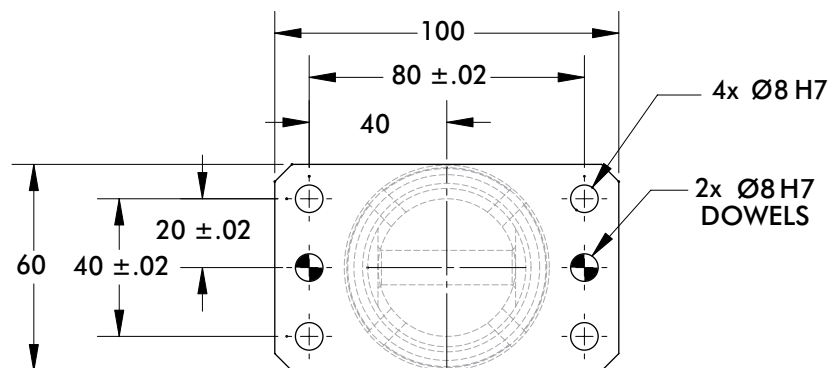
Spidergrip Tooling Components | Technical Specifications, Dimensions

Ø60mm Base Anchor with 50mm Face Offset
80mm x 40mm Mounting Pattern



US PATENT# 7,331,104
ALL OTHER PATENTS PENDING

Engineered Breakaway Part



This Product is designed to breakaway at 1627 N*m [1200 ft-lb]

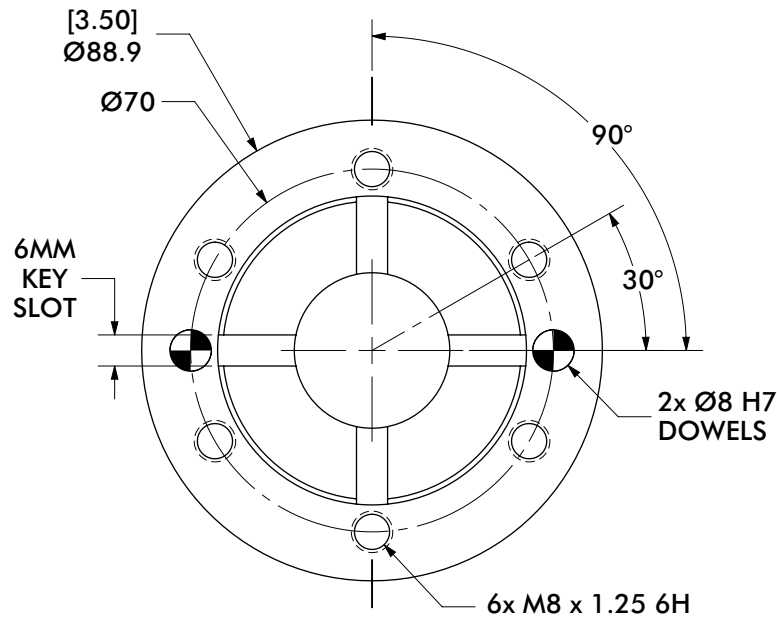
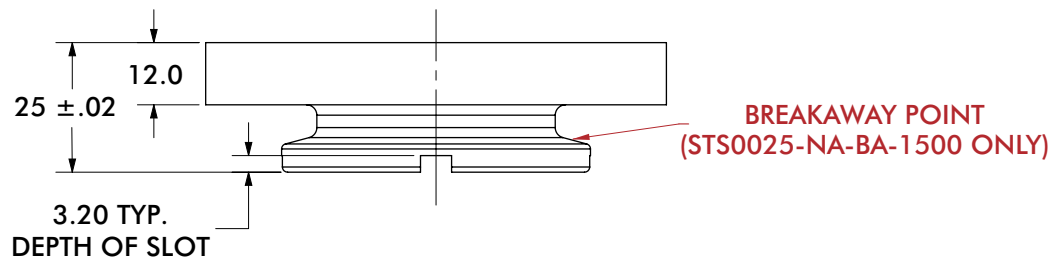
Model Number	Weight
STS0016-NA	.31 kg [.68 lb]



SPIDERGRIP MID MOUNT ANCHOR

Spidergrip Tooling Components | Technical Specifications, Dimensions

Ø70mm Base Anchor with 25mm Face Offset
(6) Hole Mounting Pattern



Model Number	Weight
STS0025-NA	252g [0.6 lb]
STS0025-NA-BA-1500*	242g [0.5 lb]

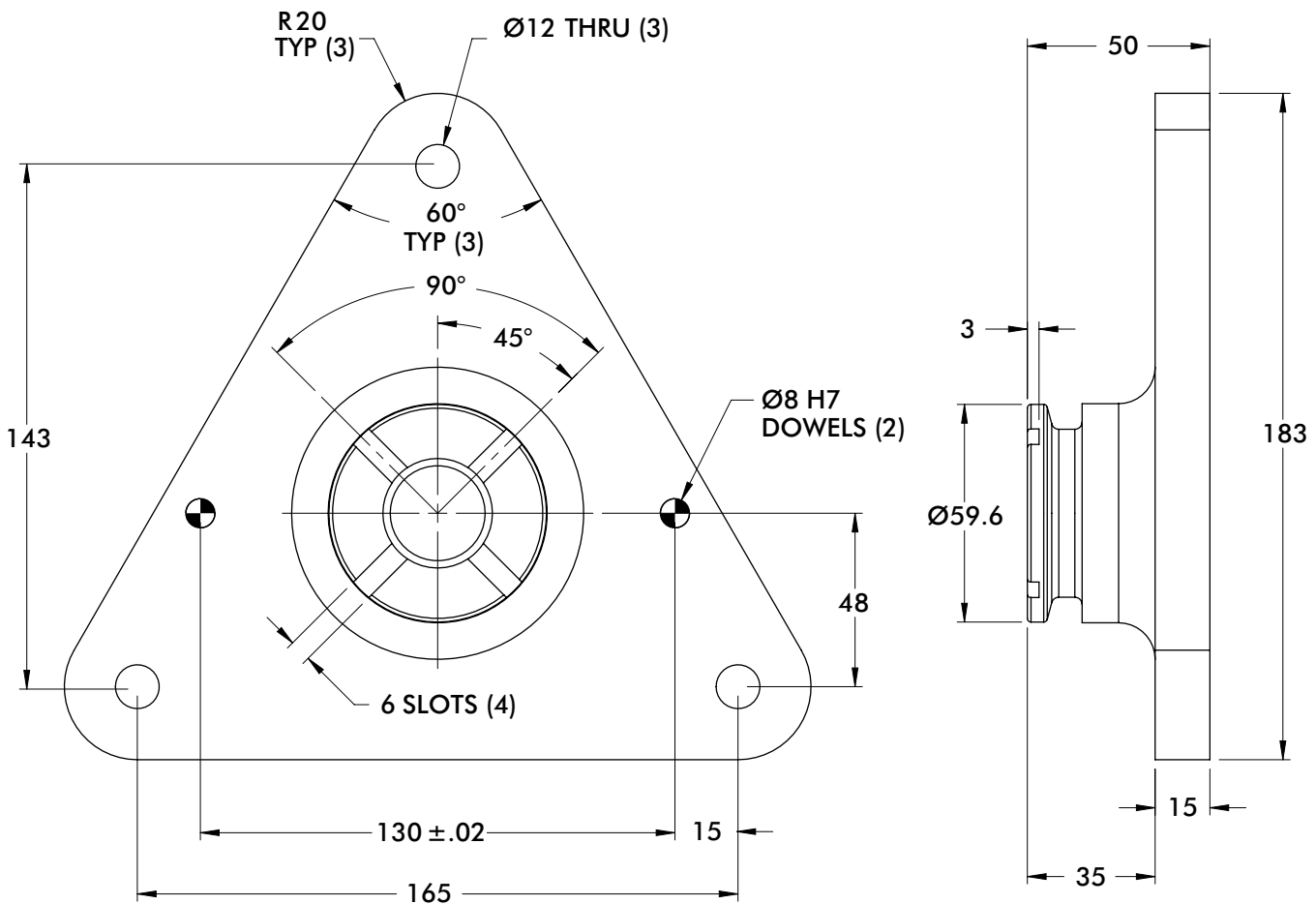
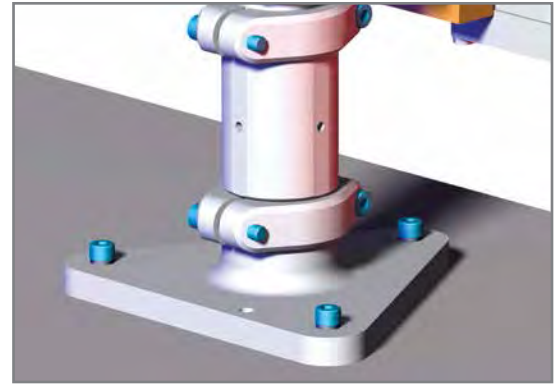
*This Product is designed to breakaway at 1500 N*m [1106 ft-lb]

SPIDERGRIP MID MOUNT ANCHOR



Spidergrip Tooling Components | Technical Specifications, Dimensions

Ø60mm HD Anchor Mount
(3) Hole Ø190mm Mount Pattern



Model Number

Weight

STP0001-NA

1.09 kg [2.40 lb]



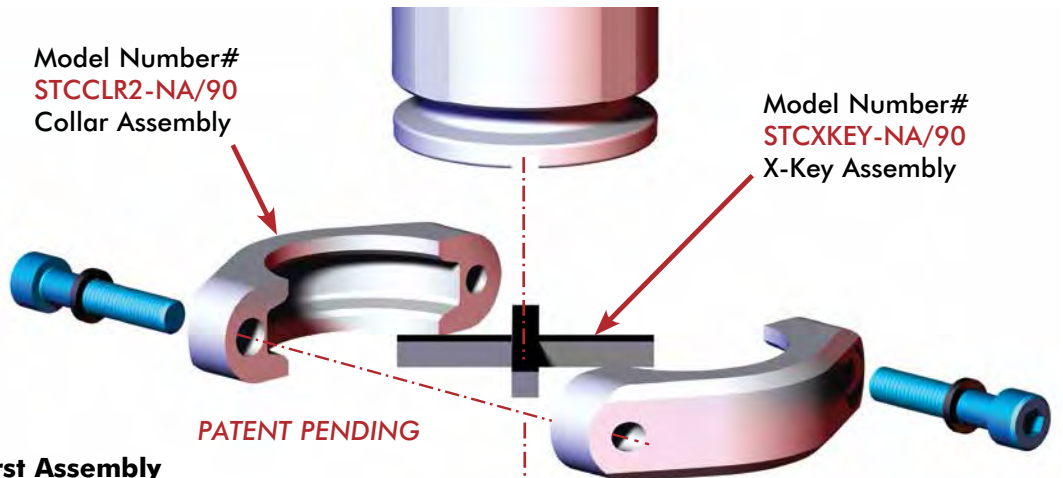
SPIDERGRIP END EFFECTOR TOOLING SYSTEMS

Spidergrip Tooling Components | Assembly Instructions

M8-1.25 x 40mm
Torque to
25 N*m [220 in-lb]
(for Ø60mm) or
30 N*m [265 in-lb]
(for Ø90mm)

Model Number#
STCCLR2-NA/90
Collar Assembly

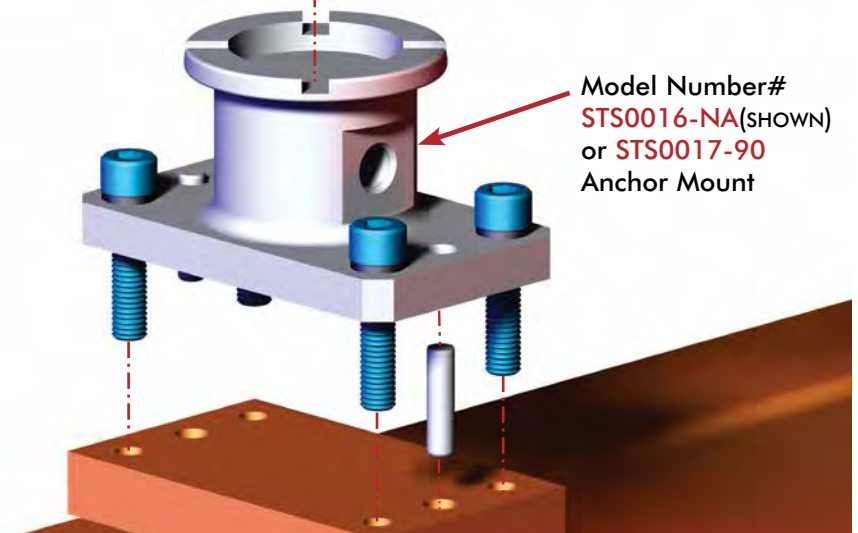
Model Number#
STCXKEY-NA/90
X-Key Assembly



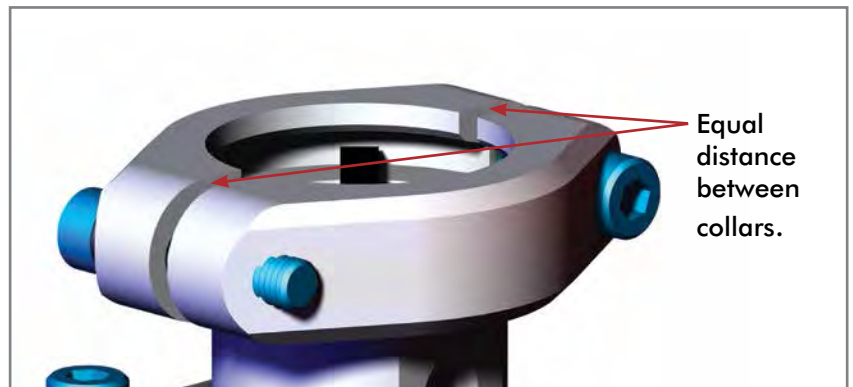
Assembly Instructions – First Assembly

In many cases, it may be advantageous to assemble the appendage remotely and then once complete, mount the entire appendage assembly onto the mounting structure.

1. Clean/Wipe and inspect ALL mating faces of all components for burrs before assembly; if a part is damaged it will not correctly couple to mating piece.
2. Assemble *Breakaway Anchor*, *X-Key Assembly*, New *Collar Assembly* and remaining appendage (from step #3).
3. Gradually tighten bolts on *Collar Assembly*, while maintaining an equal gap on each side of the assembly. Torque collar bolts to 25 N*m [220 in-lb] for 60mm, or 30 N*m 265 [in-lb] for 90mm. Do not re-torque once desired torque is reached.
4. Mount appendage as assembled to steel backbone and insert new 8mm dowels into the dowel holes on the *Breakaway Anchor*.
5. Insert new M8-1.25 patchlock bolts into *Breakaway Anchor*, torque in a cross pattern following NAAMS recommended torque.
6. Attach steel tether (*STS-TETHER-08* or *STS-TETHER-16*) to appendage via one of the bolts located on the base of the *Breakaway Anchor*. The other loop will be attached to the first threaded M6 hole (located on the boom) or the M8 hole located on the edge part. The tether may also be wrapped around the appendage to reduce cable slack.



Model Number#
STS0016-NA(SHOWN)
or **STS0017-90**
Anchor Mount



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

SPIDERGRIP ANCHORS AND COLLAR ASSEMBLIES



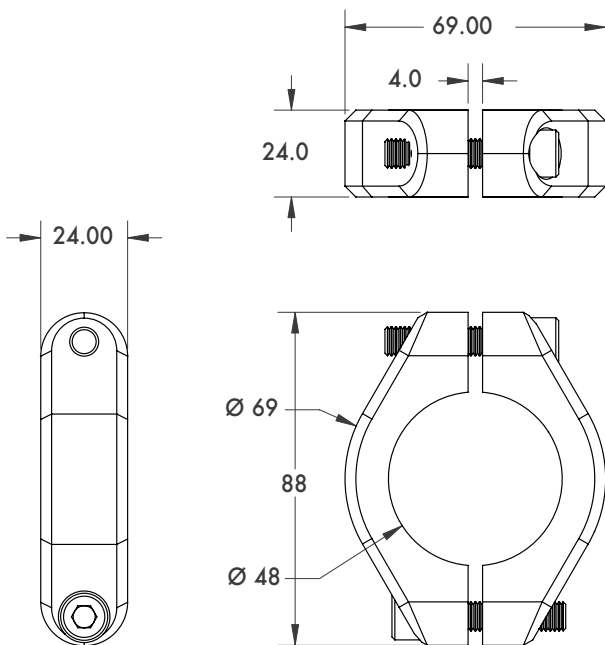
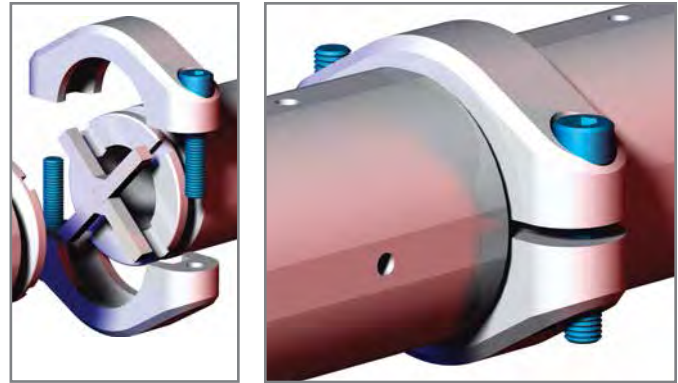
Spidergrip Tooling Components | Technical Specifications, Dimensions

Ø60mm Collar Components and Assembly

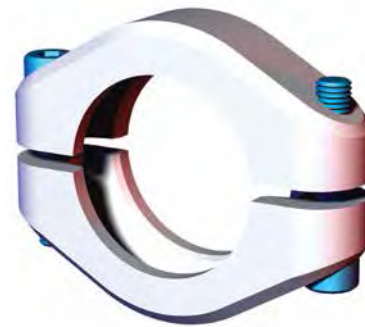
Assembly Number	Weight
STCCLR2-NA	.19 kg [.42 lb]

Includes (1) Collar Assembly (STCCLR2-NA) and (1) X-Key Assembly (STCXKEY-NA). Patch-lock fasteners included.

Max bolt torque when clamping to: 25 N*m [220 in-lbs]

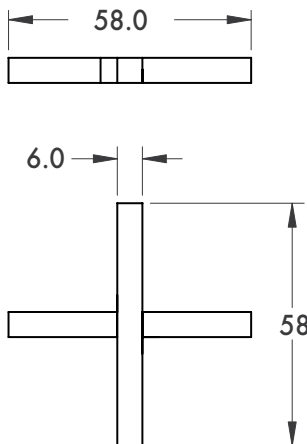


US PATENT# 7,331,104
ALL OTHER PATENTS PENDING



Patch-lock fasteners included.

Model Number	Weight
STCCLR2-NA	.16 kg [.35 lb]



Material: Steel

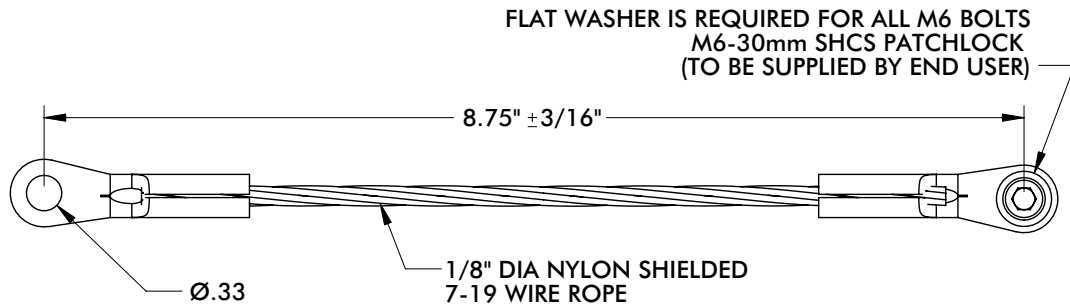
Model Number	Weight
STCXKEY-NA	.03 kg [.07 lb]



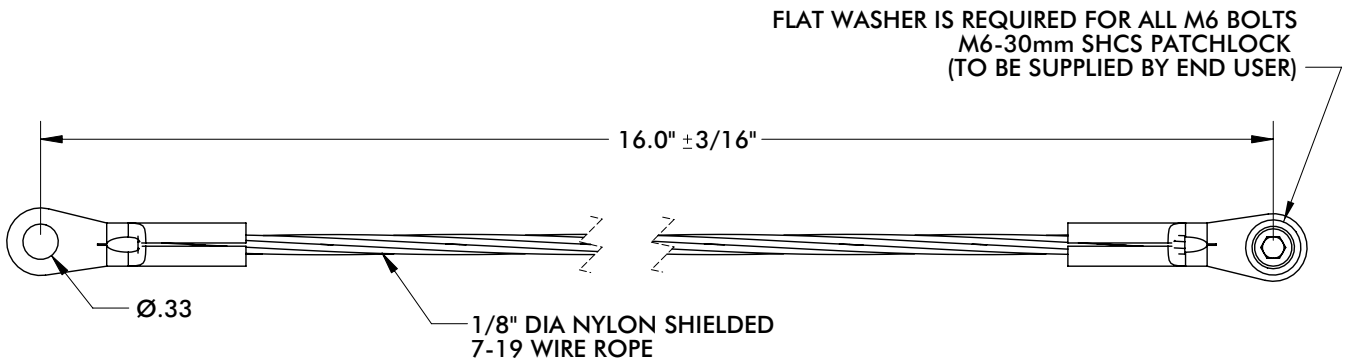
SPIDERGRIP TETHERS

Spidergrip Tooling Components | Technical Specifications, Dimensions

9 inch and 16 inch Tether Assemblies



Model Number	Weight
STS-TETHER-09	.07 kg [.15 lb]



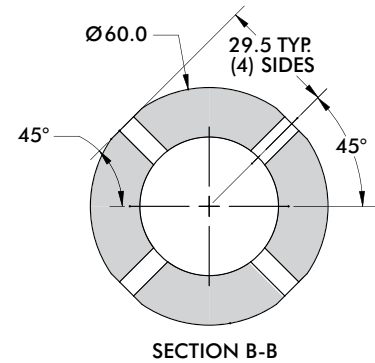
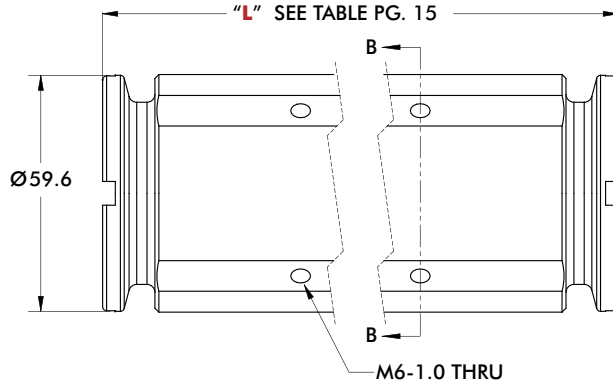
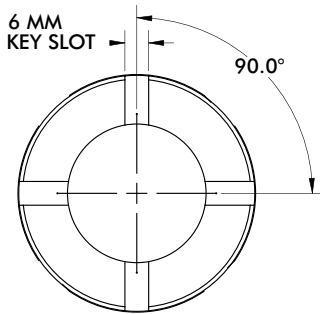
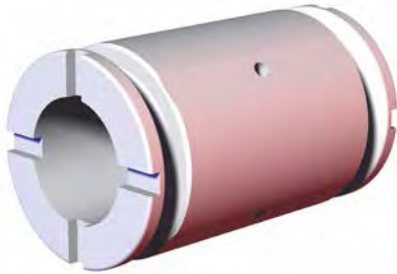
Model Number	Weight
STS-TETHER-16	.09 kg [.19 lb]

SPIDERGRIP BOOMS, ADAPTORS AND SPACERS



Spidergrip Tooling Components | Technical Specifications, Dimensions

Ø60mm Boom



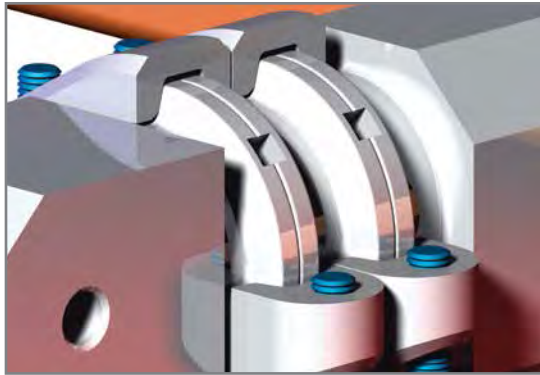
M6 tap holes along the boom are used to mount accessories

M6 Hole Spacing	Model Number	Length "L"	Weight
	STB0050-NA	50mm ±0.02	.20 kg [.43 lb]
	STB0075-NA	75mm ±0.02	.32 kg [.71 lb]
	STB0100-NA	100mm ±0.02	.45 kg [.99 lb]
	STB0150-NA	150mm ±0.02	.70 kg [1.54 lb]
	STB0200-NA	200mm ±0.02	.95 kg [2.09 lb]
	STB0250-NA	250mm ±0.02	1.20 kg [2.64 lb]
	STB0300-NA	300mm ±0.02	1.44 kg [3.18 lb]
	STB0350-NA	350mm ±0.02	1.74 kg [3.84 lb]

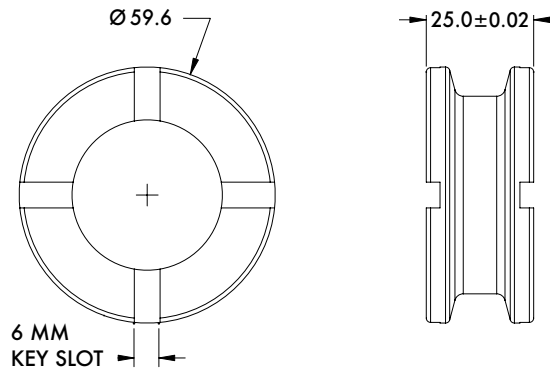
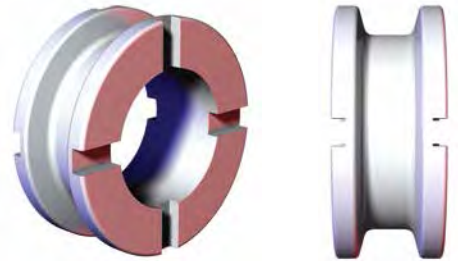


SPIDERGRIP BOOMS, ADAPTORS AND SPACERS

Spidergrip Tooling Components | Technical Specifications, Dimensions

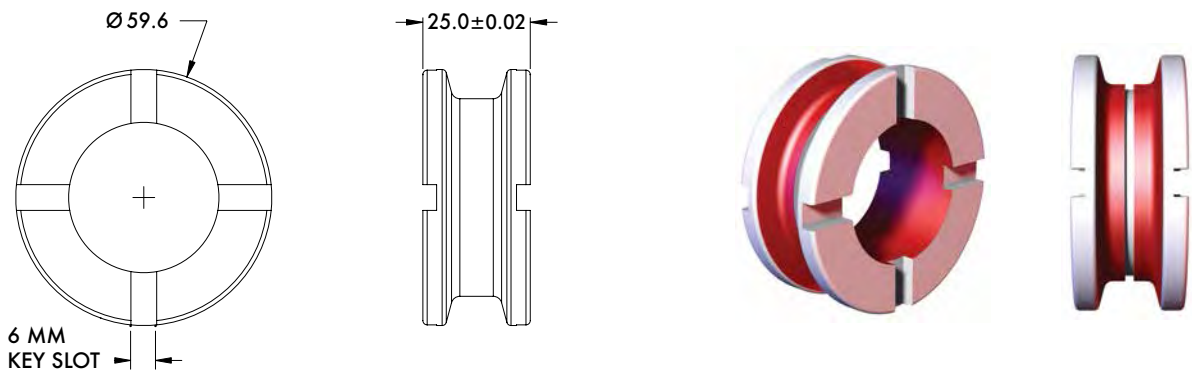


Ø60mm Breakaway and Non-Breakaway Boom Spacers



Model Number	Weight
STB0025-NA	.08 kg [.18 lb]

Ø60mm 25mm Engineered Breakaway Boom Spacers



Model Number	Weight
STB0025-BA-800	.08 kg [.18 lb]

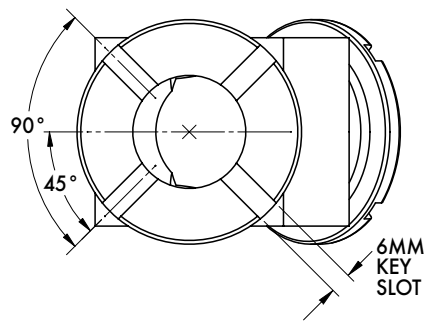
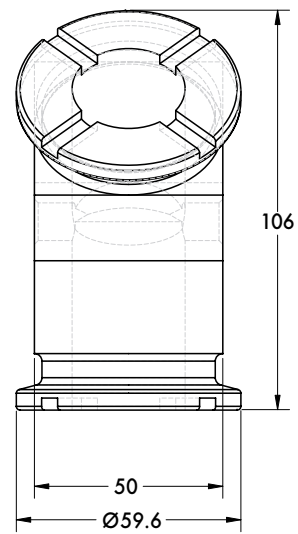
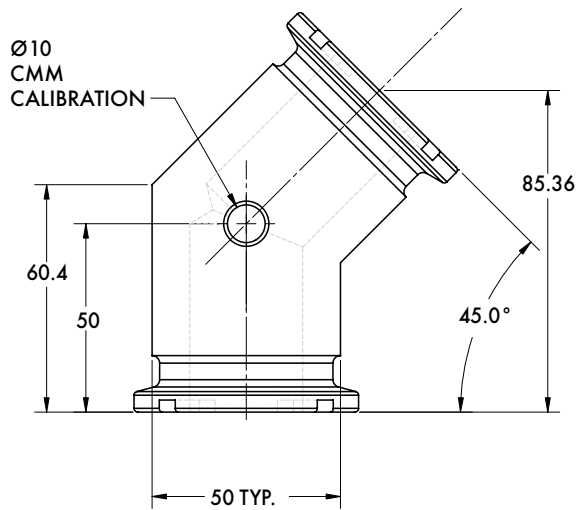
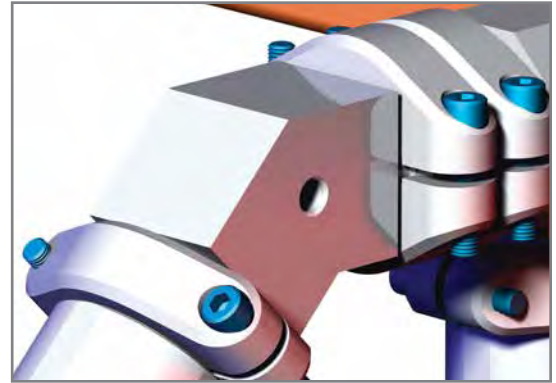
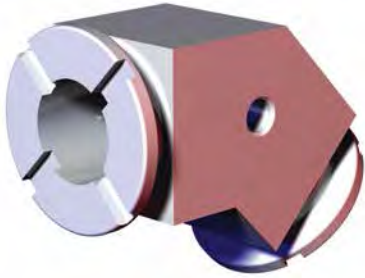
This Product is designed to breakaway at 800 N*m [590 ft-lb]

SPIDERGRIP BOOMS



Spidergrip Tooling Components | Technical Specifications, Dimensions

Ø60mm 2-Face 45° Junction



Model Number

Weight

STN0C45-NA

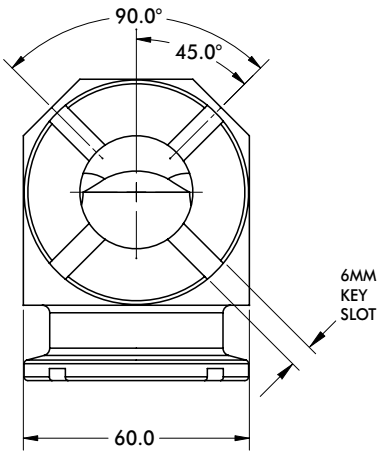
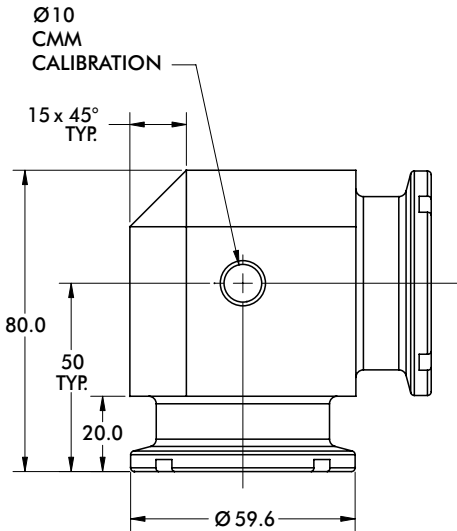
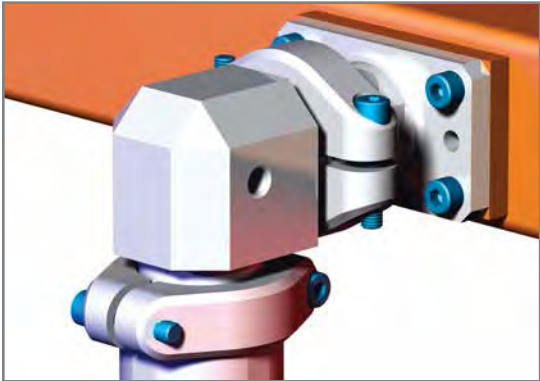
.42 kg [.93 lb]



SPIDERGRIP SPACERS

Spidergrip Tooling Components | Technical Specifications, Dimensions

Ø60mm 2-face 90° Junction



Model Number	Weight
STN0C90-NA	.53 kg [1.16 lb]

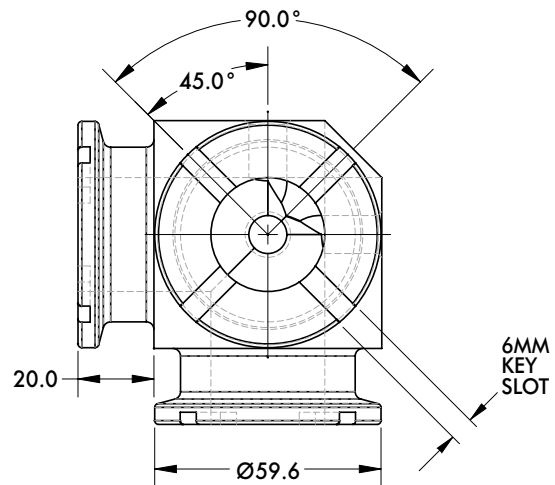
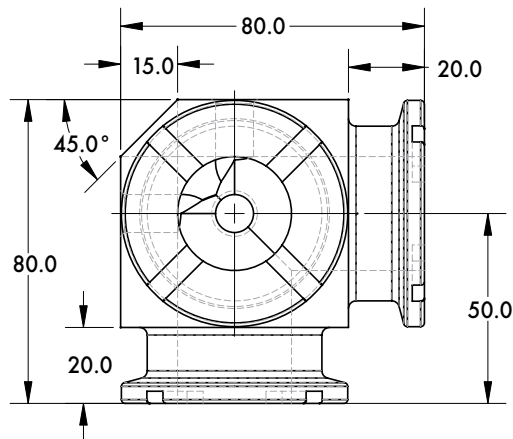
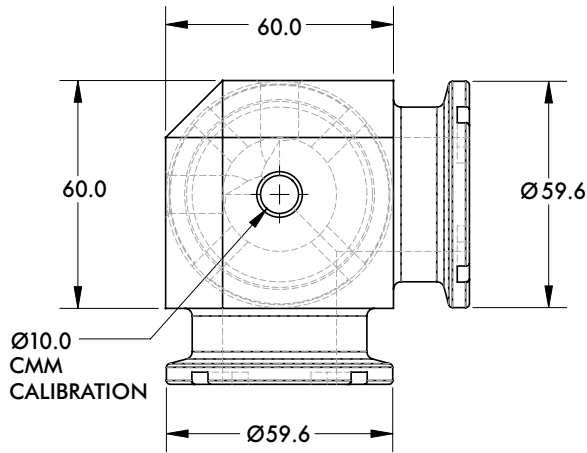
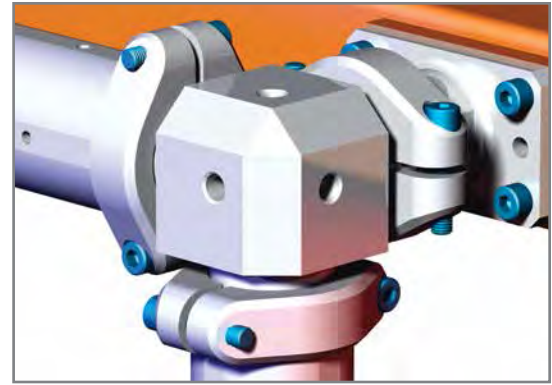
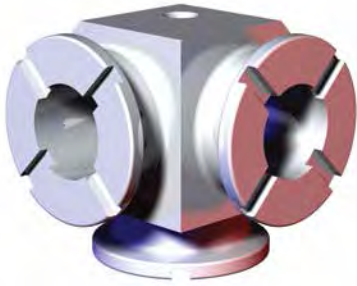
Dimensions and technical information are subject to change without notice

SPIDERGRIP JUNCTION COMPONENTS



Spidergrip Tooling Components | Technical Specifications, Dimensions

Ø60mm 3-Face Junction



Model Number

Weight

STN0C3F-NA

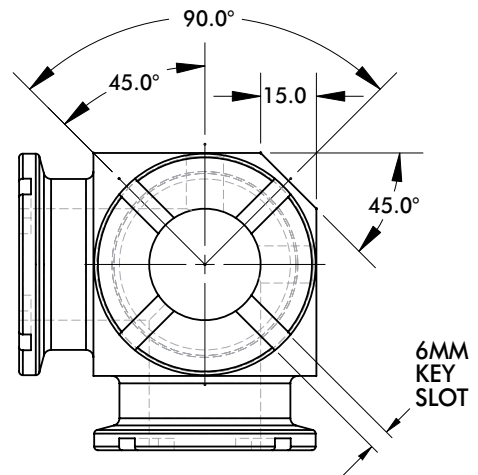
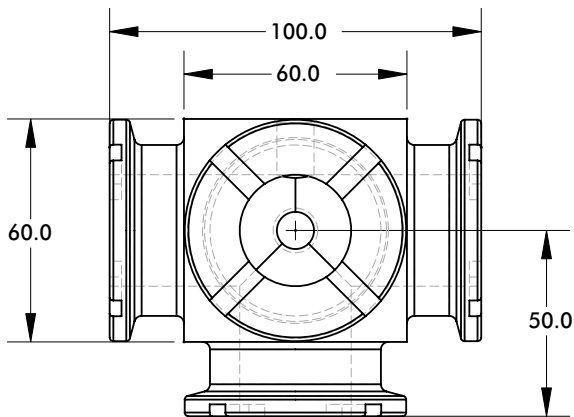
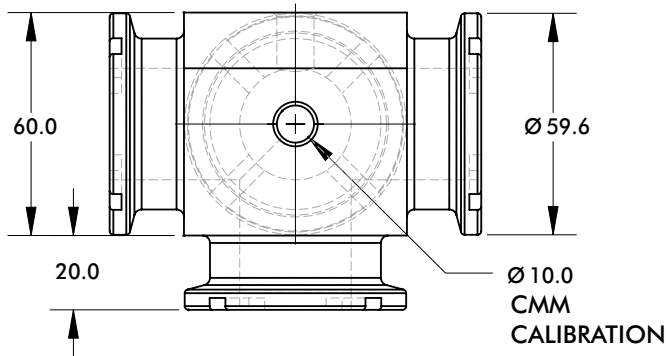
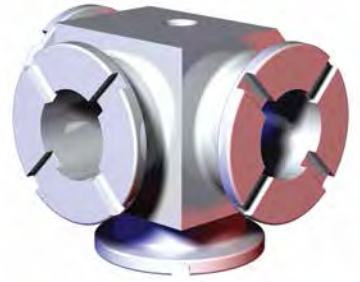
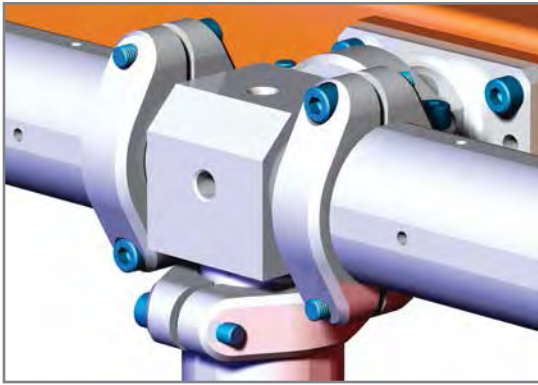
.58 kg [1.29 lb]



SPIDERGRIP JUNCTION COMPONENTS

Spidergrip Tooling Components | Technical Specifications, Dimensions

Ø60mm 4-Face Junction



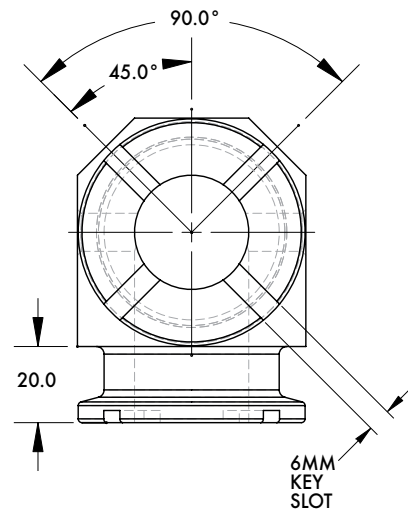
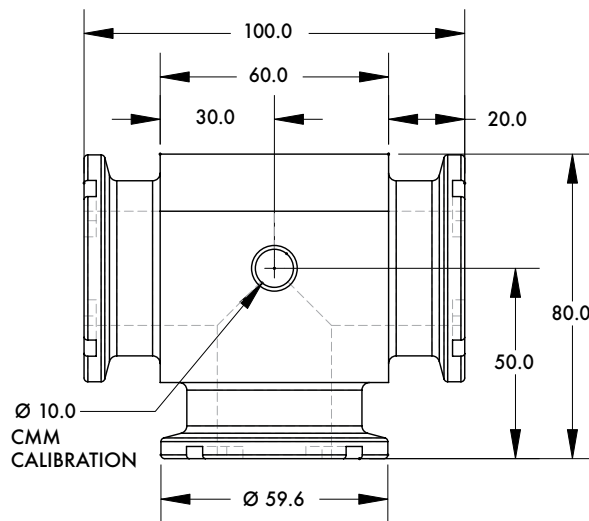
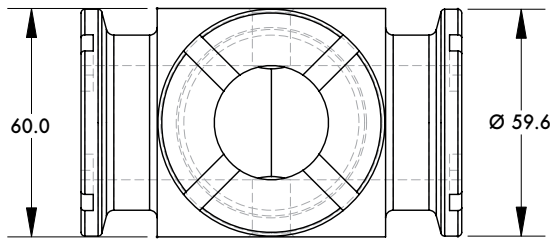
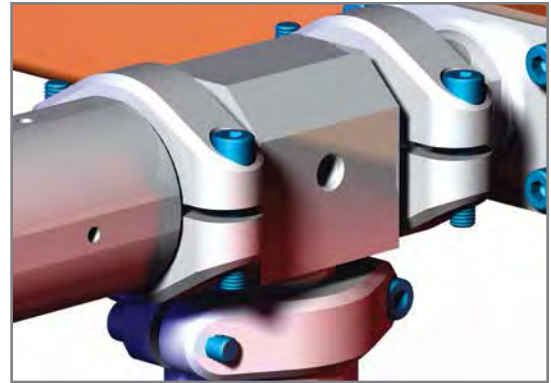
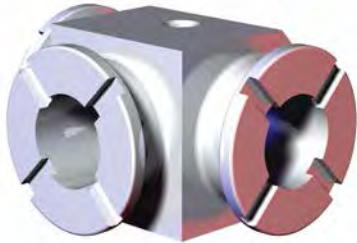
Model Number	Weight
STN0C4F-NA	.65 kg [1.43 lb]

SPIDERGRIP JUNCTION COMPONENTS



Spidergrip Tooling Components | Technical Specifications, Dimensions

Ø60mm 3-Face Junction



Model Number

Weight

STN0T3F-NA

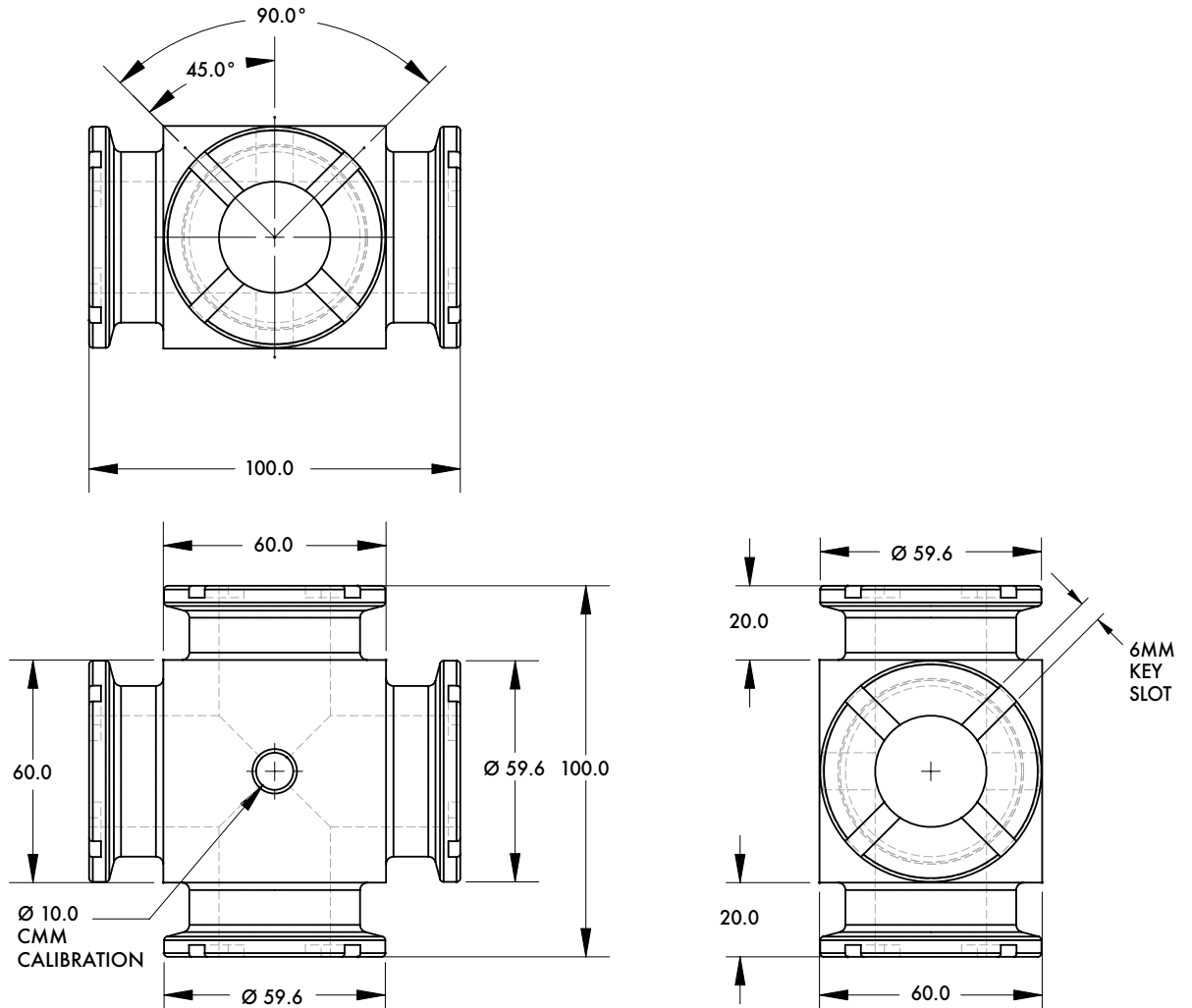
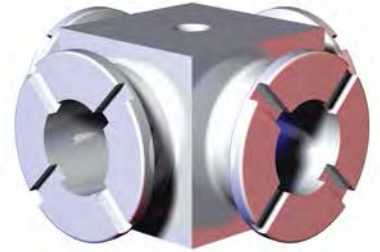
.60 kg [1.31 lb]



SPIDERGRIP JUNCTION COMPONENTS

Spidergrip Tooling Components | Technical Specifications, Dimensions

Ø60mm 4-Face Junction



Model Number	Weight
STN0T4F-NA	.67 kg [1.47 lb]

Dimensions and technical information are subject to change without notice

EE-SGP-24

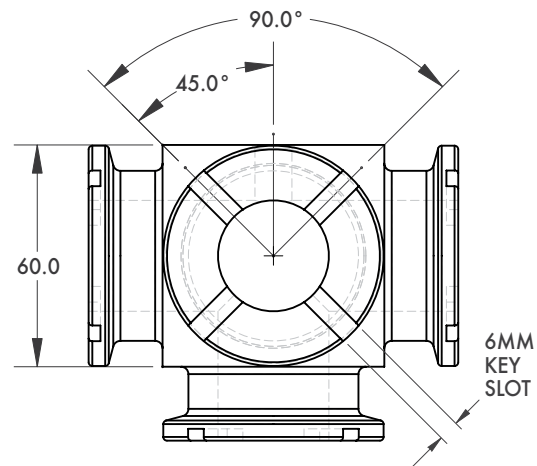
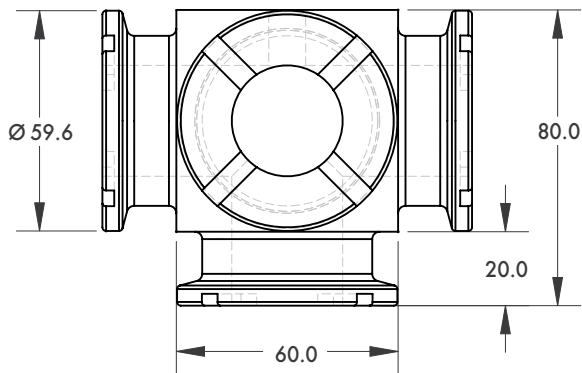
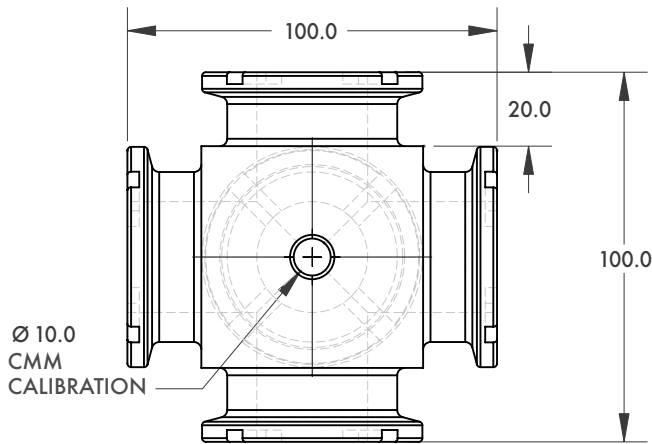
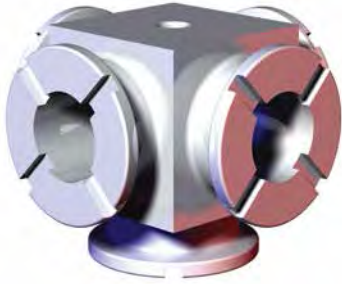


SPIDERGRIP JUNCTION COMPONENTS



Spidergrip Tooling Components | Technical Specifications, Dimensions

Ø60mm 5-Face Junction



Model Number

Weight

STN0T5F-NA

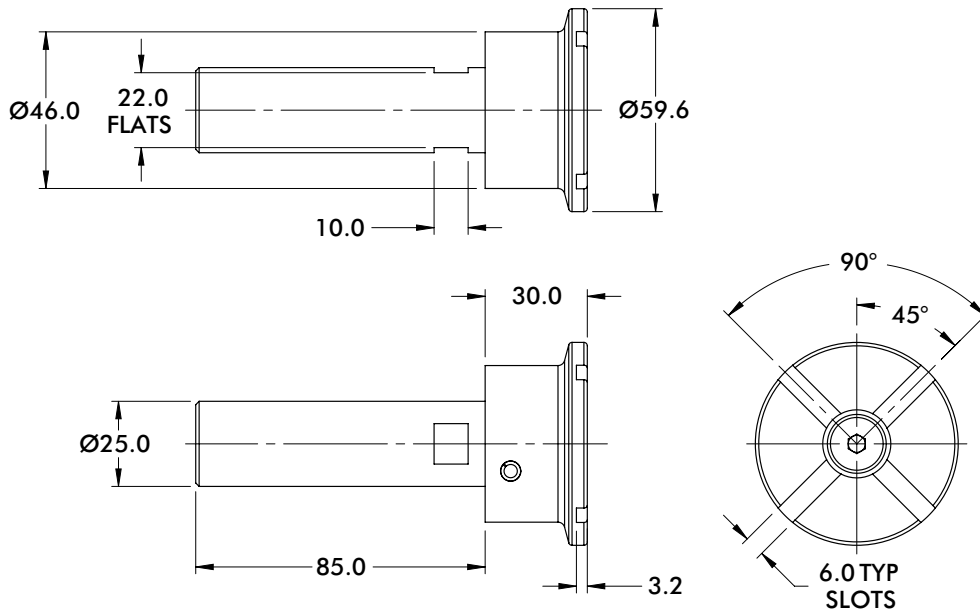
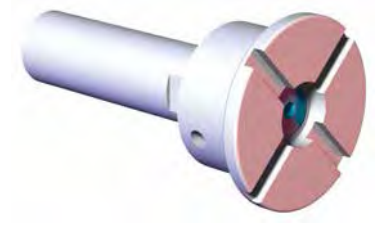
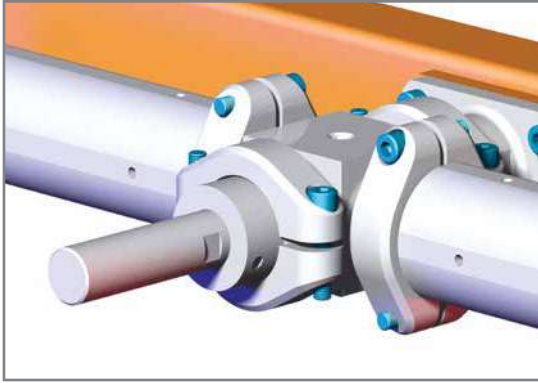
.71 kg [1.56 lb]



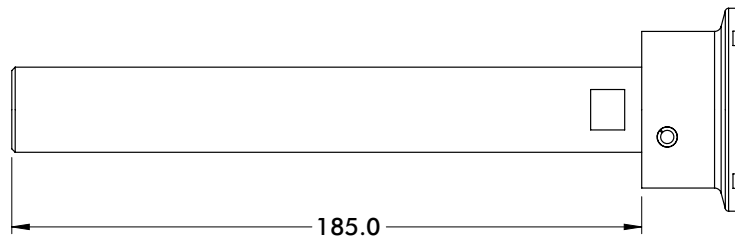
SPIDERGRIP SINGLE END EXTENSIONS

Spidergrip Tooling Components | Technical Specifications, Dimensions

Ø60mm to Ø25mm Single End Extension



Model Number	Weight
STV0100-NA	.26 kg [.58 lb]



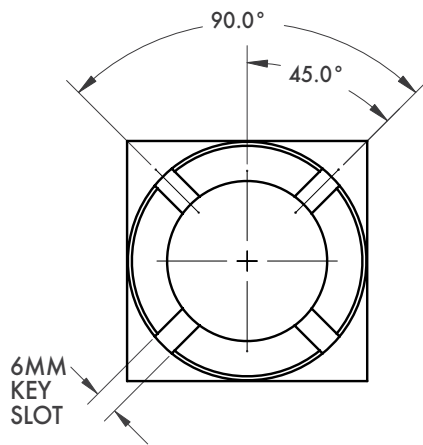
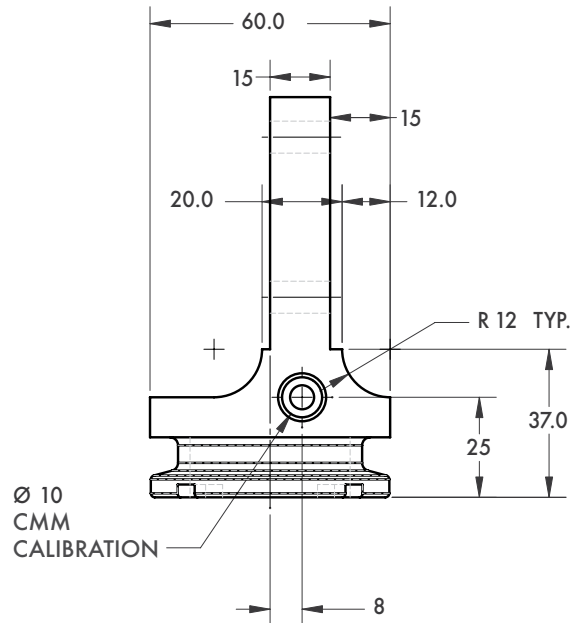
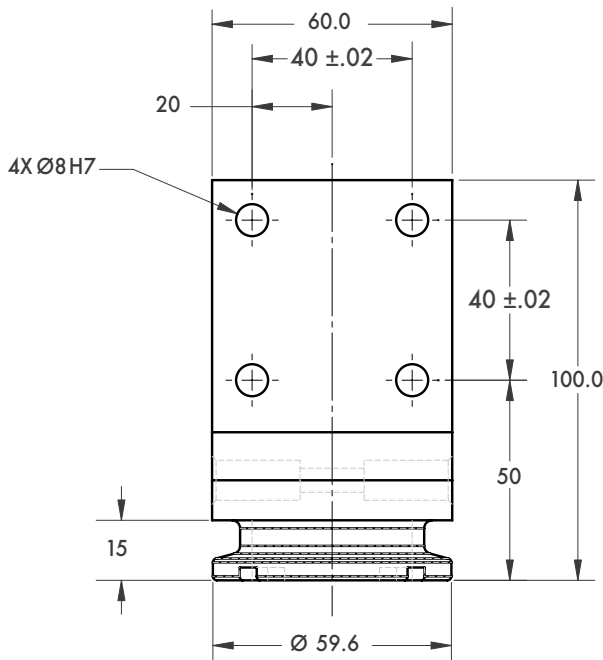
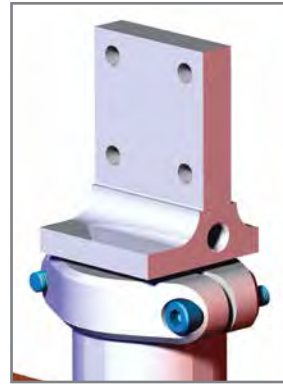
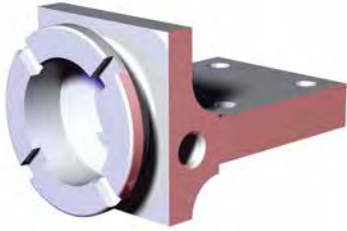
Model Number	Weight
STV0200-NA	.40 kg [.87 lb]

SPIDERGRIP EDGE MOUNTING COMPONENTS



Spidergrip Tooling Components | Technical Specifications, Dimensions

Ø60mm 90° Edge Part with 15mm Center to Face Offset
40mm x 40mm Mounting Pattern



Model Number

Weight

STS0010-NA

.31 kg [.69 lb]

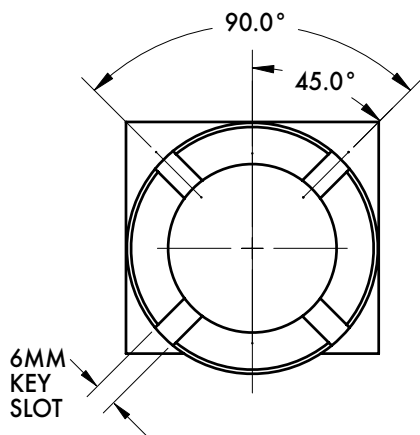
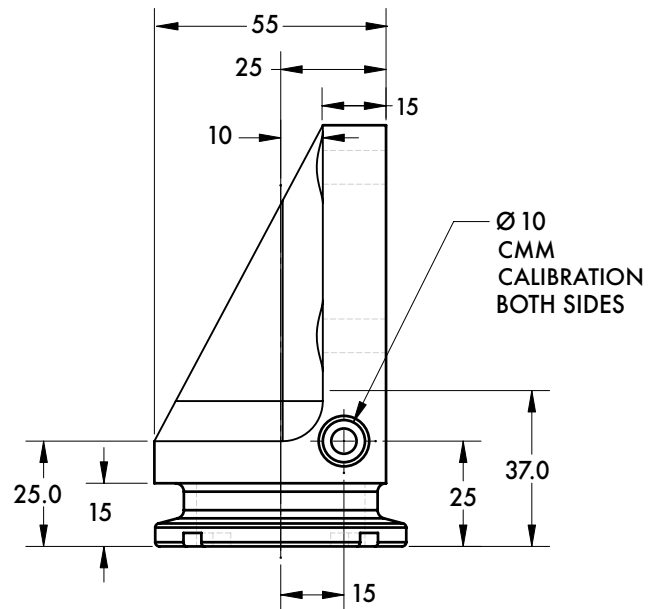
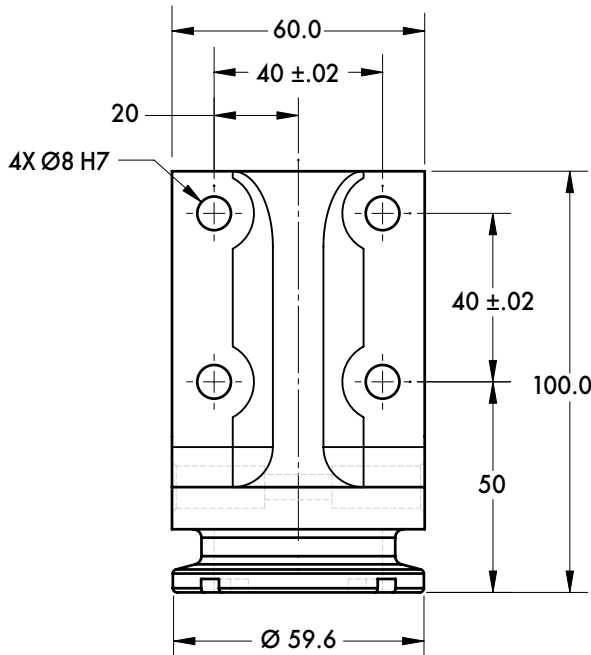
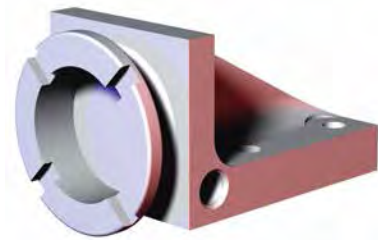


SPIDERGRIP EDGE MOUNTING COMPONENTS

Spidergrip Tooling Components | Technical Specifications, Dimensions



Ø60mm 90° Edge Part with 25mm Center to Face Offset
40mm x 40mm Mounting Pattern



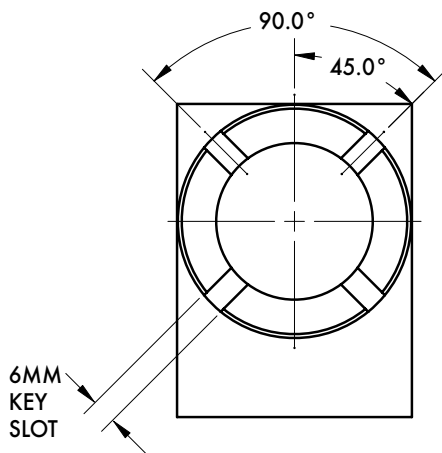
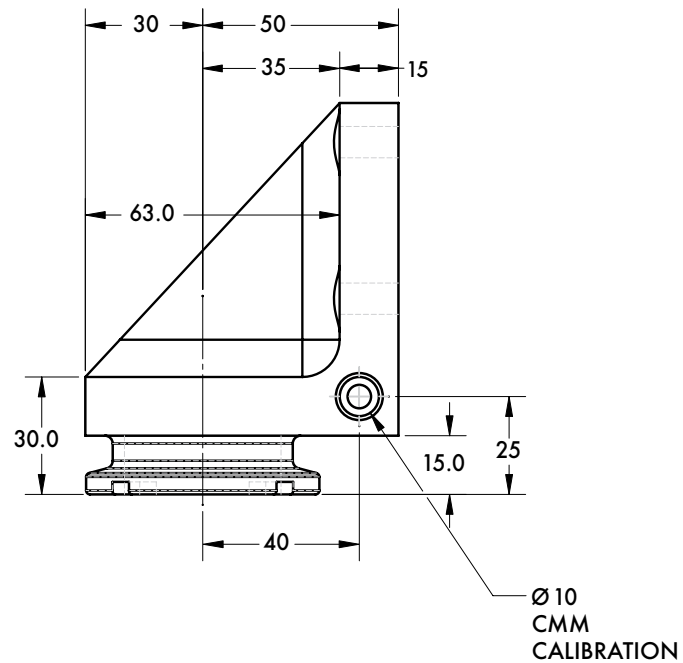
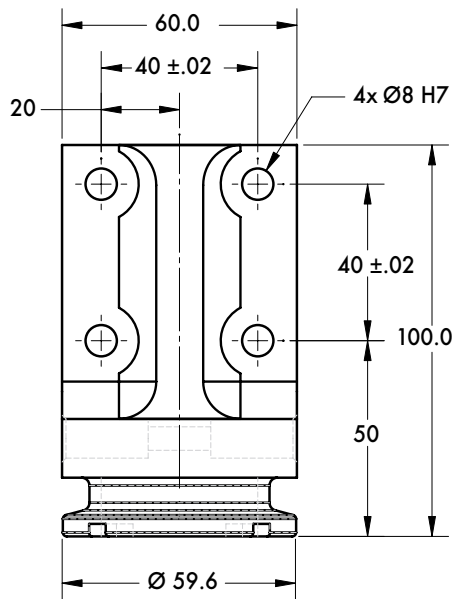
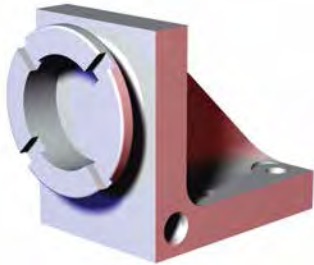
Model Number	Weight
STS0011-NA	.35 kg [.77 lb]

SPIDERGRIP EDGE MOUNTING COMPONENTS



Spidergrip Tooling Components | Technical Specifications, Dimensions

Ø60mm 90° Edge Part with 50mm Center to Face Offset
40mm x 40mm Mounting Pattern



Model Number

Weight

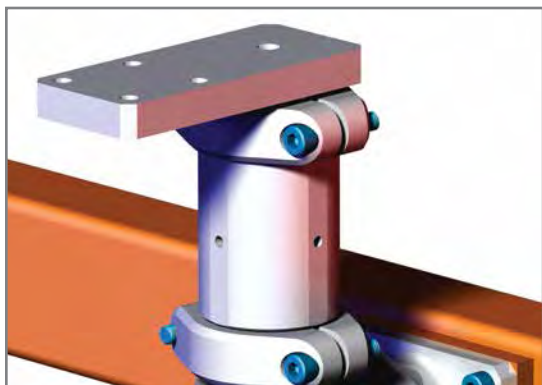
STS0012-NA

.47 kg [1.04 lb]

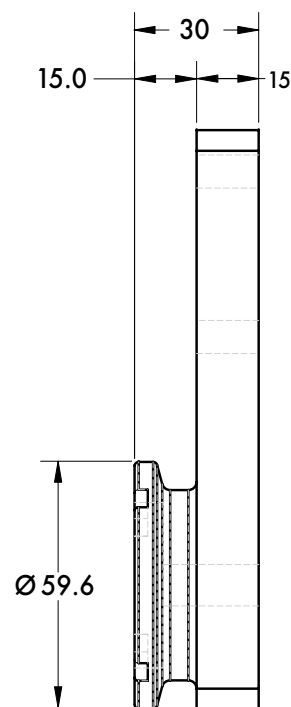
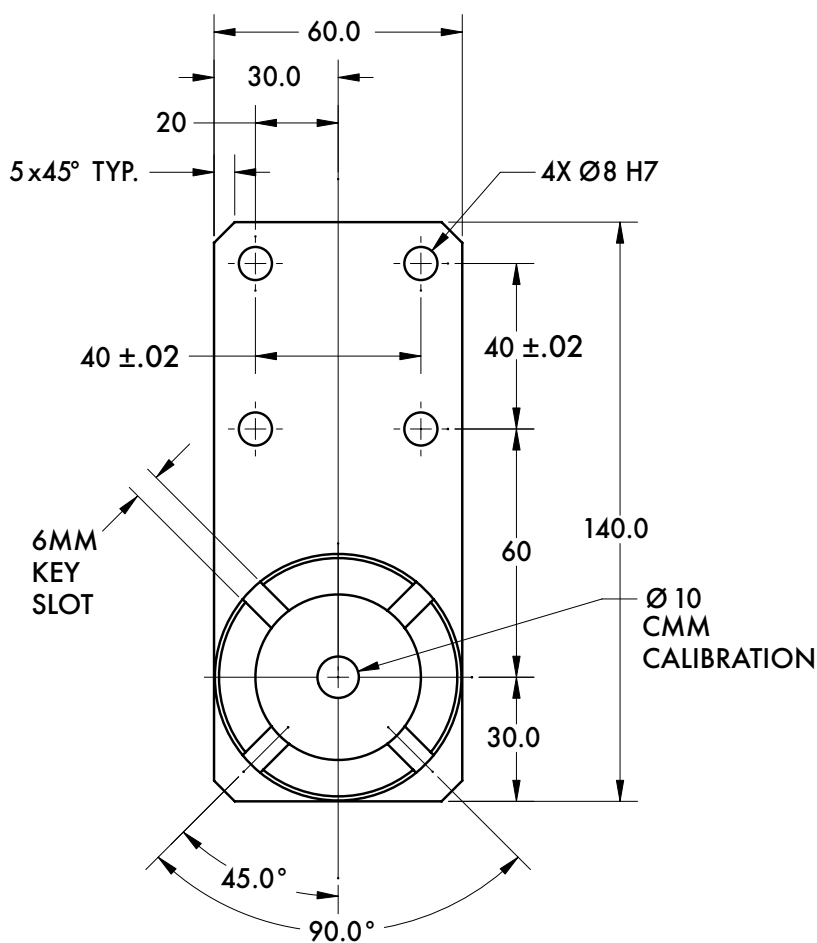


SPIDERGRIP EDGE MOUNTING COMPONENTS

Spidergrip Tooling Components | Technical Specifications, Dimensions



Ø60mm Offset Edge Part with 25mm Face Offset
40mm x 40mm Mounting Pattern



Model Number

Weight

STS0014-NA

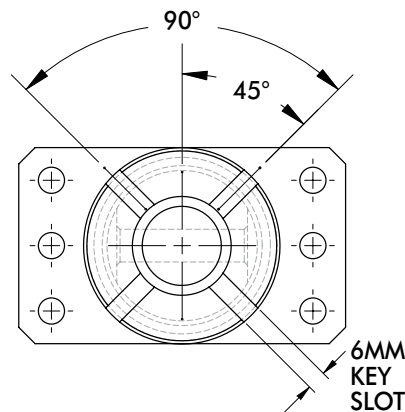
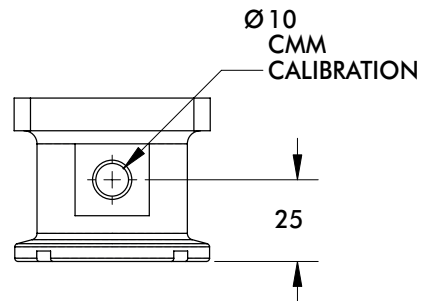
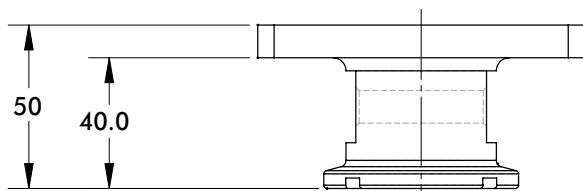
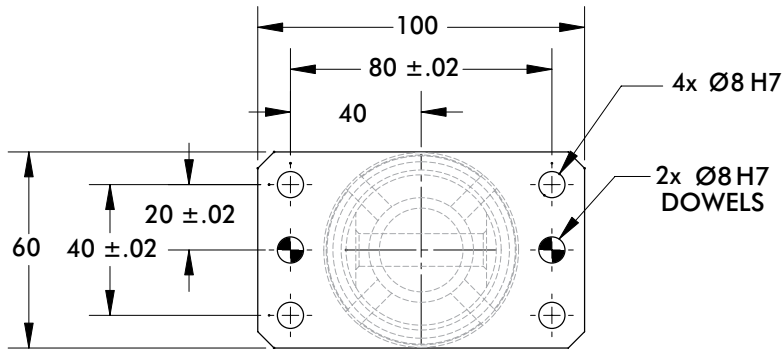
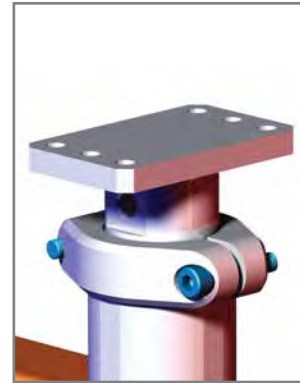
.39 kg [.85 lb]

SPIDERGRIP EDGE MOUNTING COMPONENTS



Spidergrip Tooling Components | Technical Specifications, Dimensions

Ø60mm In-line Edge Part with 50mm Face Offset
80mm x 40mm Mounting Pattern



Model Number	Weight
STS0019-NA	.32 kg [.71 lb]



SPIDERGRIP GEOMETRIC END EFFECTOR SYSTEM

Notes

BAG GRIPPING AND PALLETIZING SOLUTIONS

DBG Series

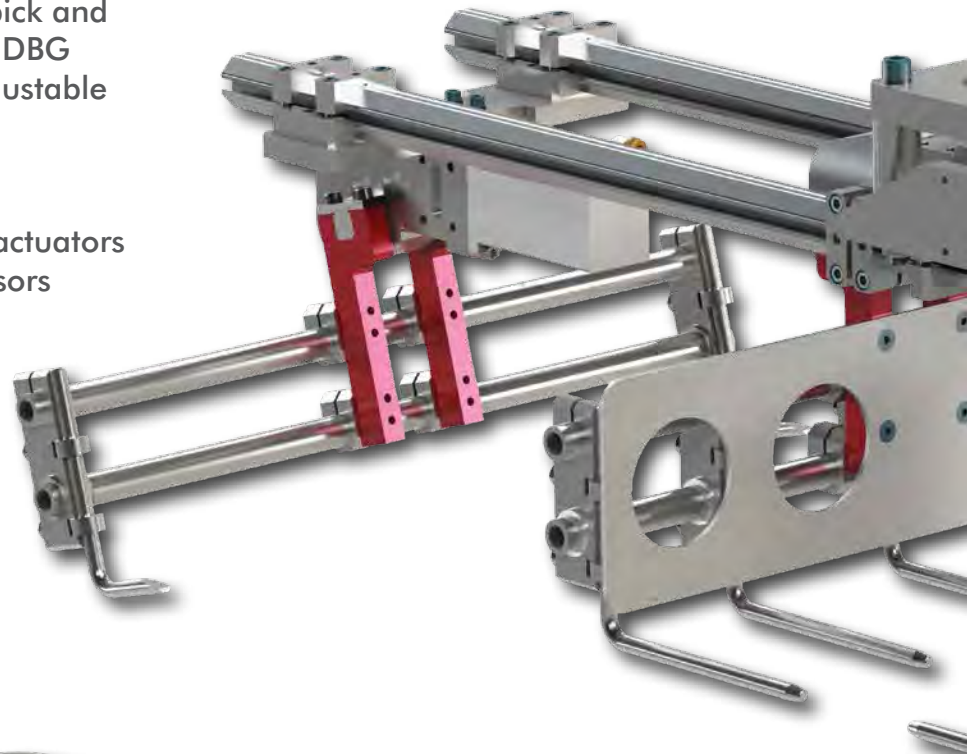
DESTACO DBG Series bag gripping end effector solutions offers end of line pick and place and palletizing solutions. The DBG has a simplified design with field adjustable finger position and opening angle.

Features also include:

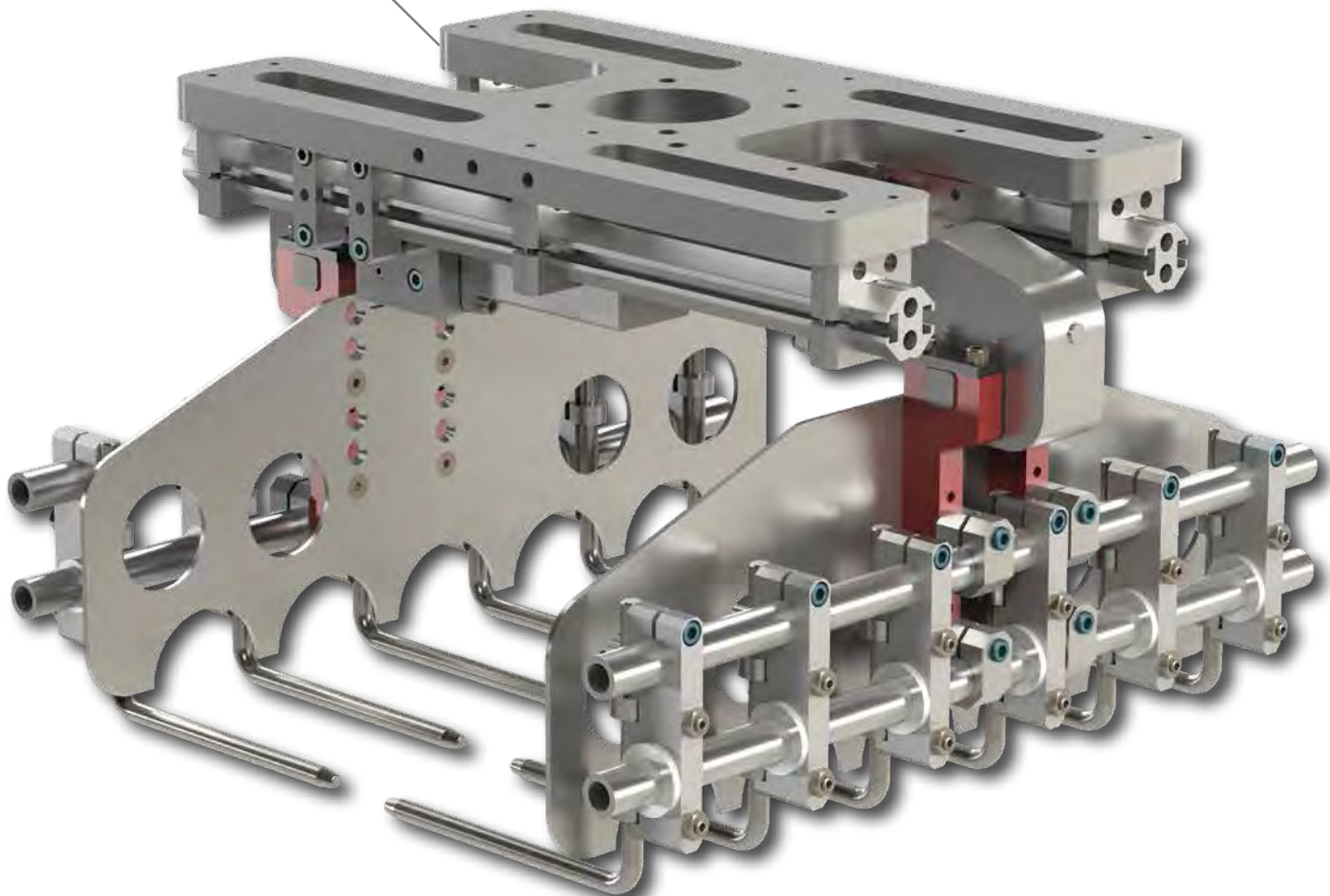
- Pneumatic or electric fully enclosed actuators
- Integrated open/closed position sensors
- Standard off-the-shelf components

Two sizes available:

- DBG50** (50lb Max Load)
- DBG100** (100lb Max Load)

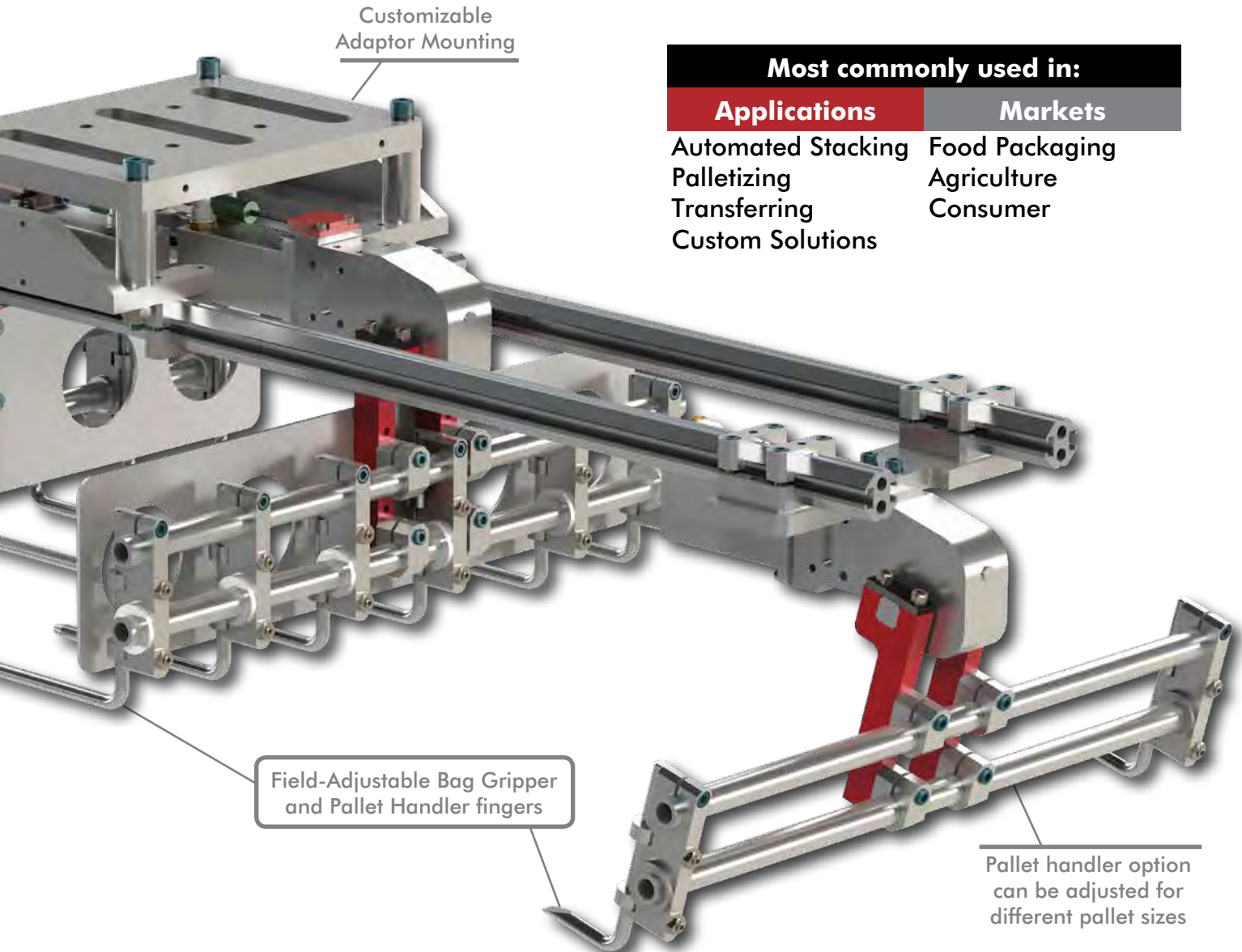


Customer Specified
Robot Mounting Pattern



BAG GRIPPING AND PALLETIZING SOLUTIONS

DBG Series



Most commonly used in:

Applications

Automated Stacking
Palletizing
Transferring
Custom Solutions

Markets

Food Packaging
Agriculture
Consumer

DESTACO DBG Series bag gripper also features optional integrated slip sheet and pallet handling. Products are held secure even if air pressure is lost.

With rapid actuation, the DBG can palletize up to 30 bags per minute when working in concert with robotic automation.

DESTACO also provides custom design and build solutions for handling any packaging transfer and palletizing needs.



DBG SERIES BAG GRIPPER

Product Overview

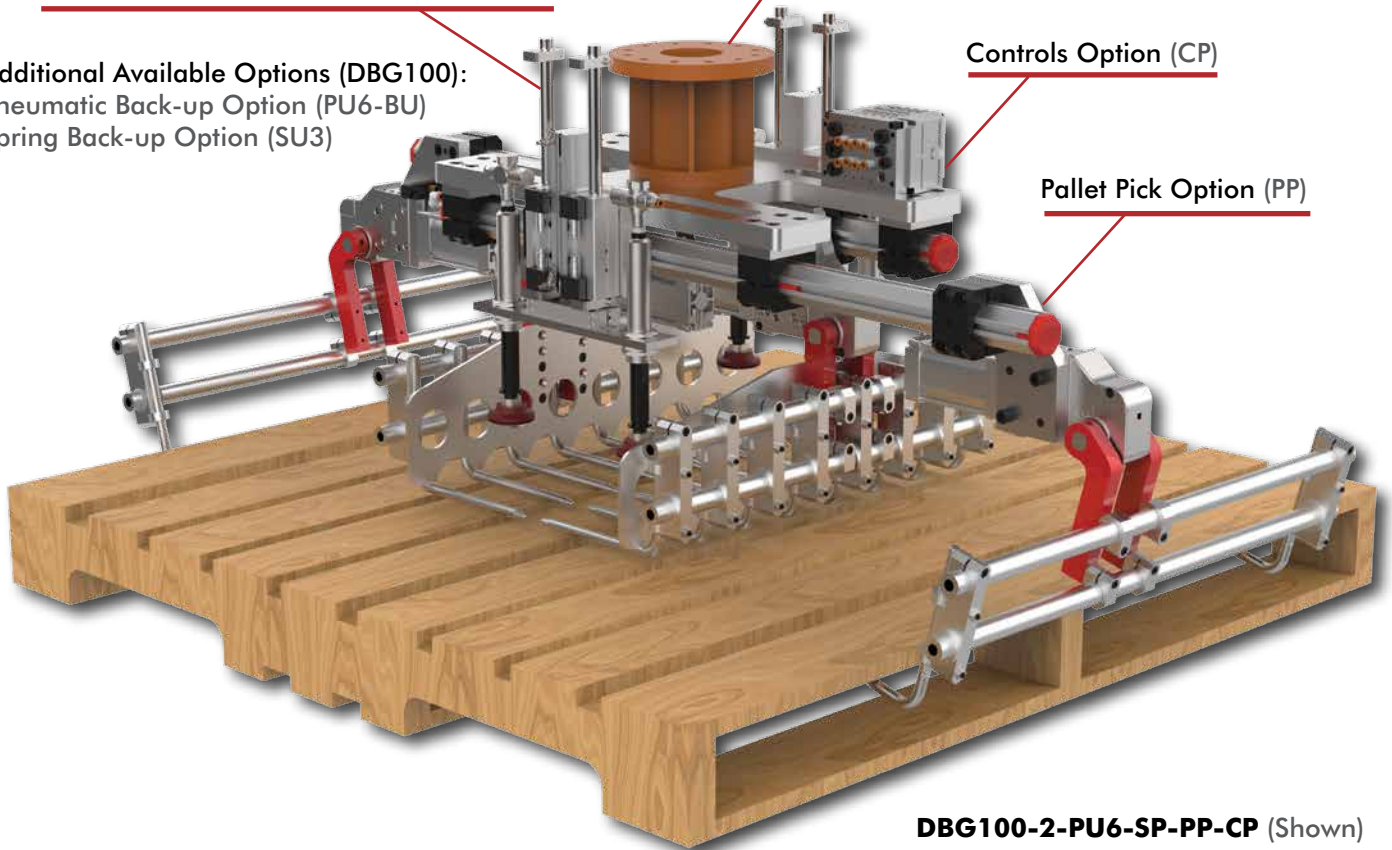
Robot Mount Stand-Off
(Sold Separately)

Pneumatic Slip Sheet Pick Option (PU6-SP)

Additional Available Options (DBG100):
Pneumatic Back-up Option (PU6-BU)
Spring Back-up Option (SU3)

Controls Option (CP)

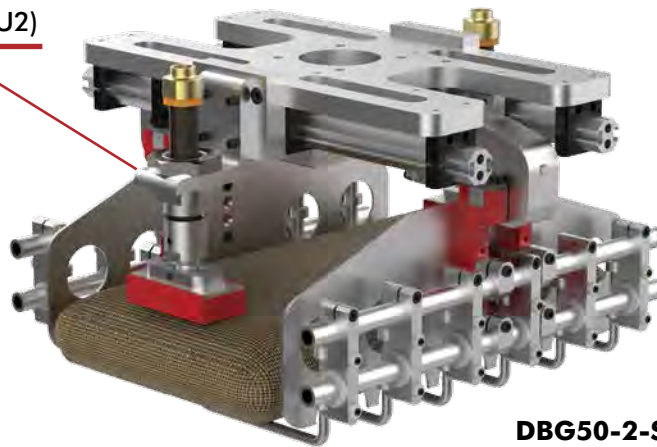
Pallet Pick Option (PP)



DBG100-2-PU6-SP-PP-CP (Shown)

Spring Back-up Option (SU2)

Additional Available Options (DBG50):
Pneumatic Back-up Option (PU4-BU)
Pneumatic Slip Sheet Pick Option (PU4-SP)
Controls Option (CP)
Pallet Pick Option (PP)



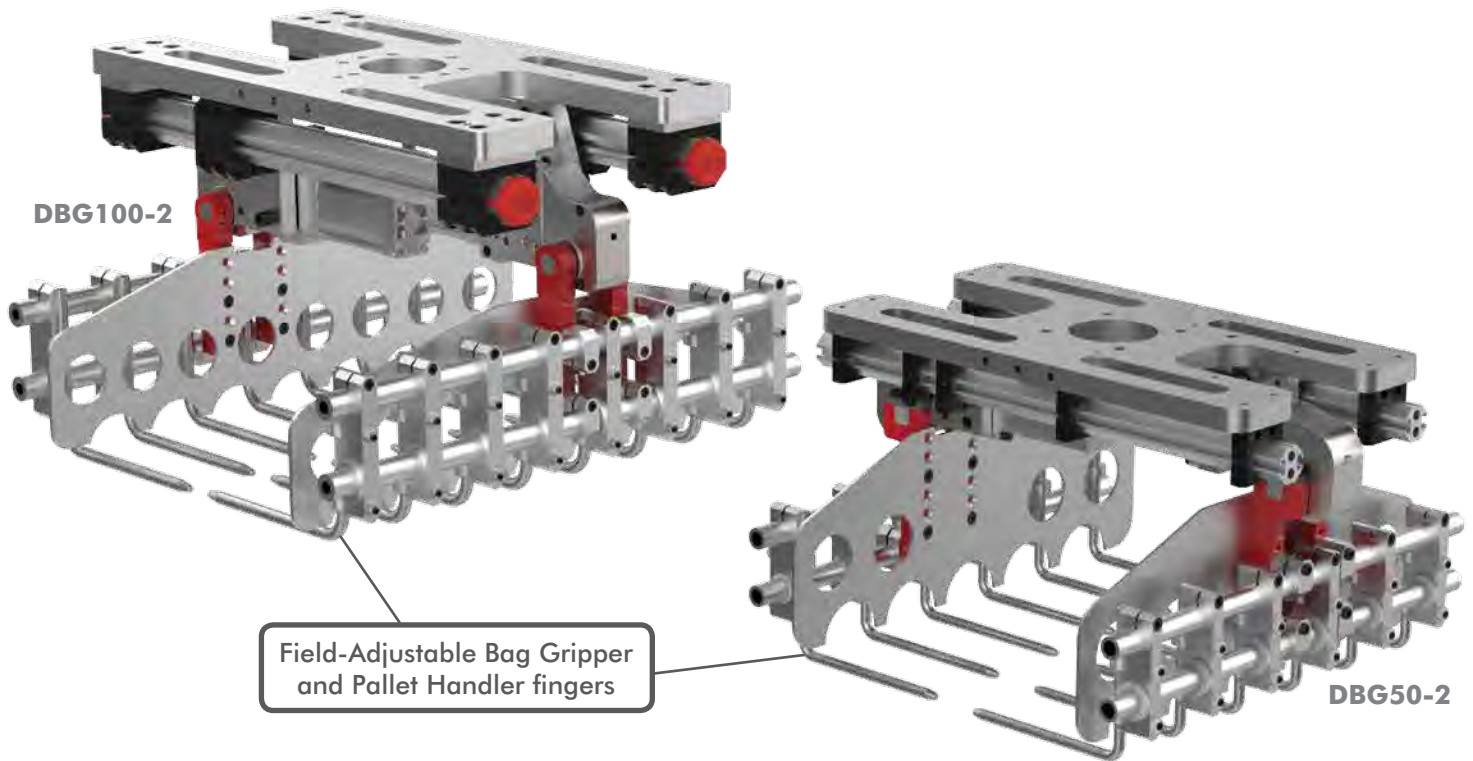
DBG50-2-SU2 (Shown)



Scan the QR Codes to see the bag gripper application videos.

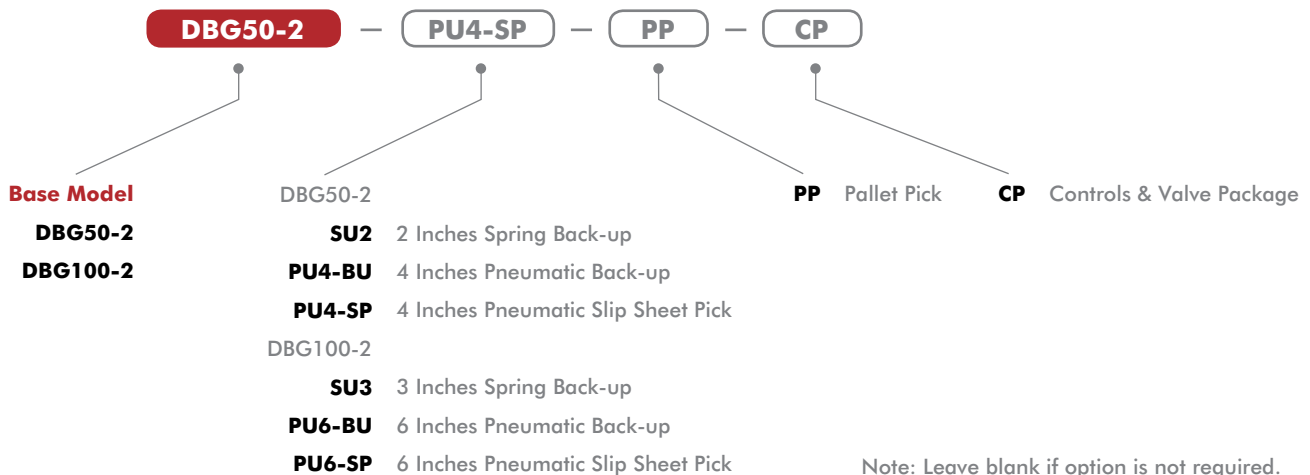
DBG SERIES BAG GRIPPER

Base Models



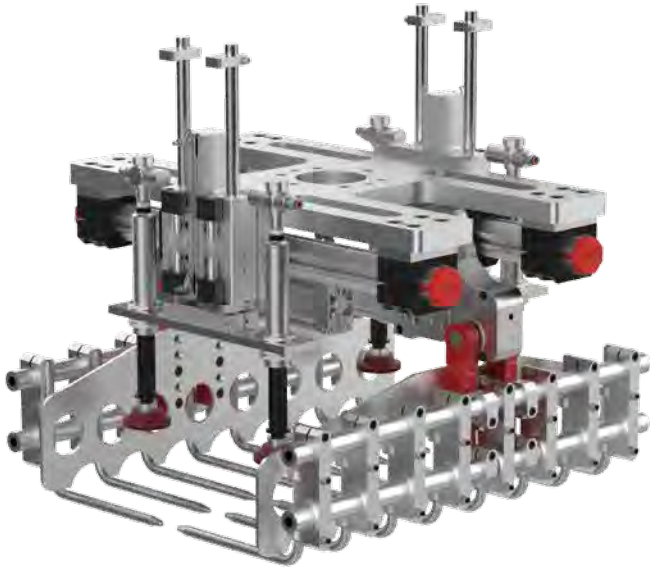
DBG Series Bag Grippers		
Specifications	DBG50-2	DBG100-2
Unit Weight:	17kg [38 lbs]	43kg [95 lbs]
Maximum Payload:	23Kg [50 lbs]	45Kg [100 lbs]
Maximum Bag Size:	432 x 711 x 122mm [17 x 28 x 5 in]	610 x 1016 x 170mm [24 x 40 x 6.7 in]

DBG Bag Gripper Order Information



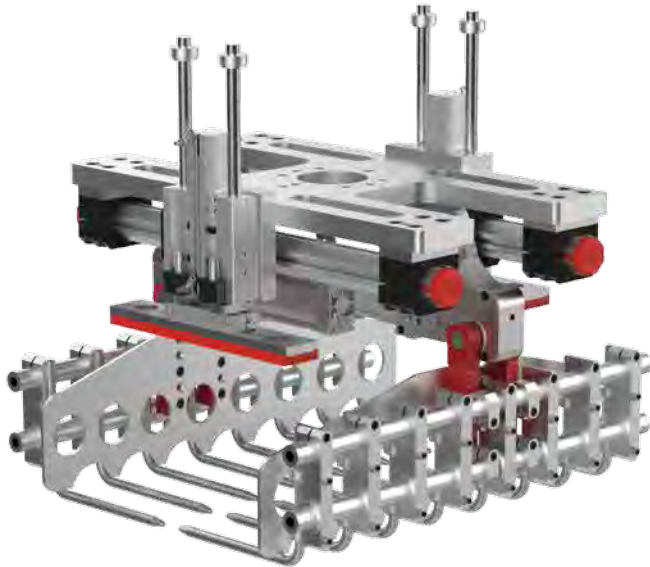
DBG SERIES BAG GRIPPER

Options



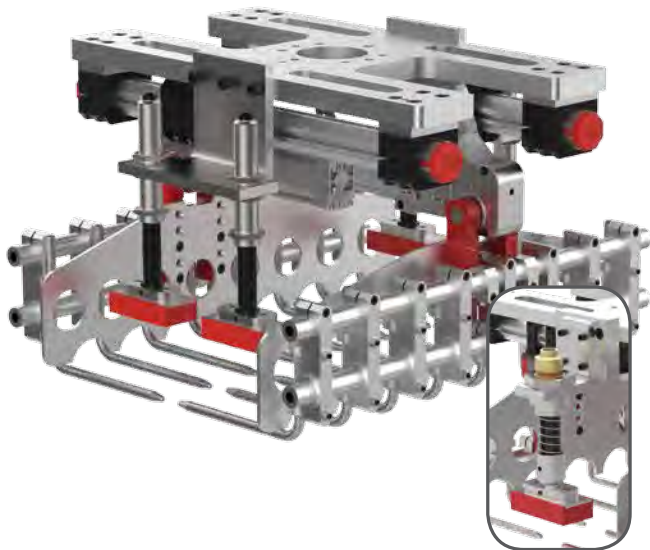
PU(x)-SP Pneumatic Slip Sheet Pick Option

- In addition to the spring compensator option, a vacuum system can be added to the package which will handle the slip sheet.
- Eliminate the need for a second end effector or secondary operation.
- 4" Stroke for DBG50-2 (PU4-SP)
(Add option weight of 5kg [11 lbs] to base model)
- 6" Stroke for DBG100-2 (PU6-SP)
(Add option weight of 10kg [23 lbs] to base model)



PU(x)-BU Pneumatic Back-Up Option

- The pneumatic compensator is extended to contact the product for additional stability and control while in motion.
- 4" Stroke for DBG50-2 (PU4-BU)
(Add option weight of 3.6kg [8 lbs] to base model)
- 6" Stroke for DBG100-2 (PU6-BU)
(Add option weight of 9kg [20 lbs] to base model)



SU(x) Spring Back-Up Option

- Simple, cost-effective solution.
- Compression springs keep a constant pressure on the product.
- Low cost solution maintains control of the product while in transport.
- Spring Back-Up Option for DBG50-2 (SU2)
(Add option weight of 2.9kg (6.4 lbs) to base model)
- Spring Back-Up Option for DBG100-2 (SU3)
(Add option weight of 5.6kg (12.4 lbs) to base model)

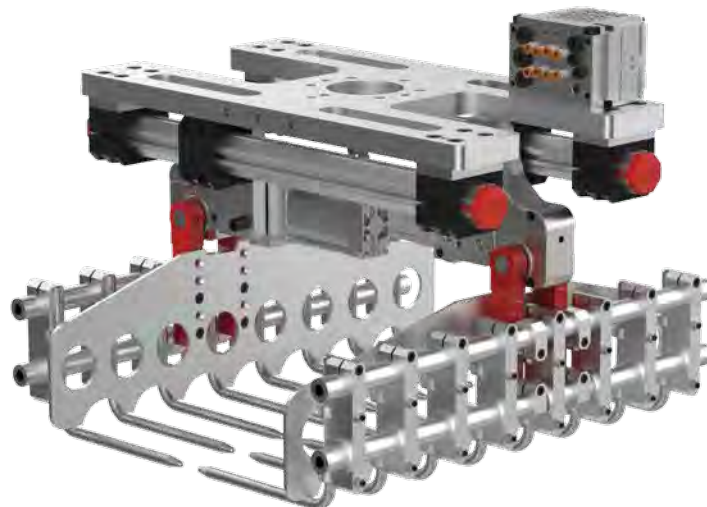


PP Pallet Pick Option

- To offer a complete solution, DESTACO has also included an optional 'Pallet Pick' which allows the customer to pick-up and move the empty pallet.
- Pallet Pick Option for DBG50-2
(Add option weight of 13kg [29 lbs] to base model)
- Pallet Pick Option for DBG100-2
(Add option weight of 22kg [48 lbs] to base model)

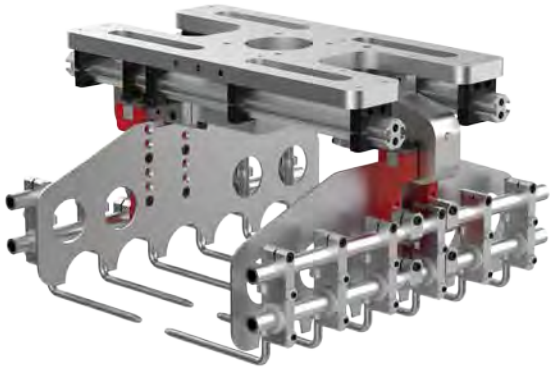
CP Controls Option

- Controls Options are configured based on the different bag gripper options ordered.
(Add option weight of 2.3kg [5 lbs] to base model)

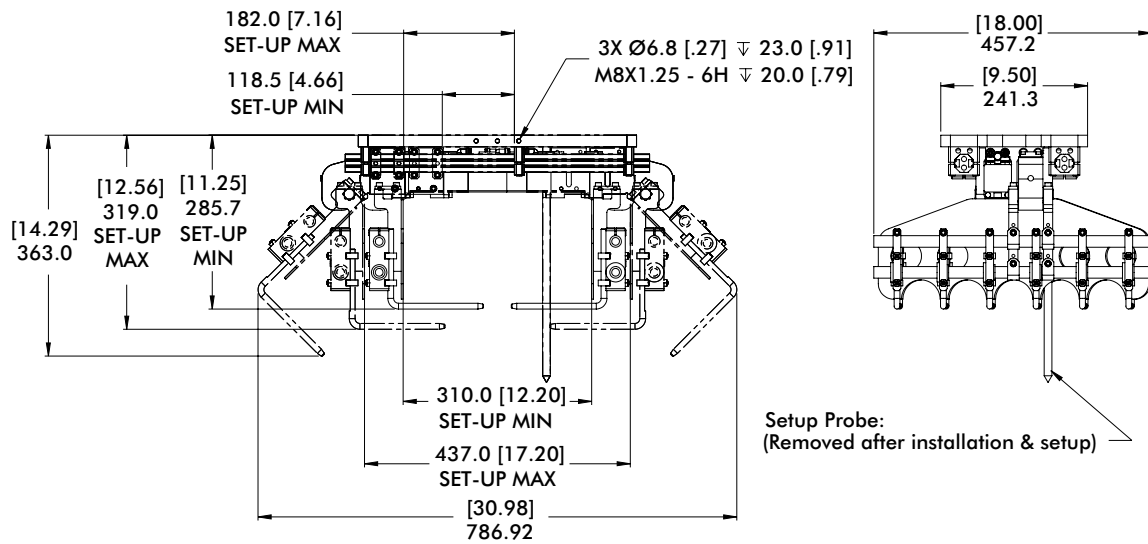
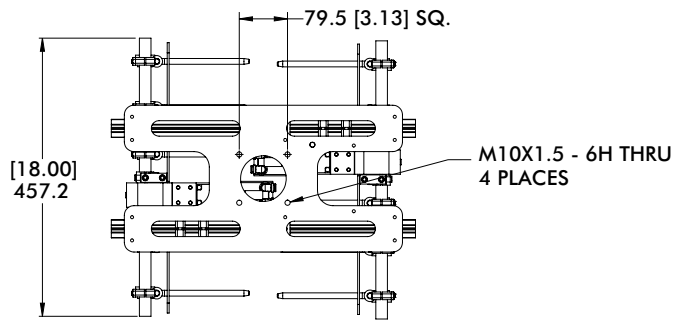


DBG50 SERIES

Bag Gripping and Palletizing Solutions | Dimensions



Model Number	Weight
DBG50-2	[38 lb] 17 kg

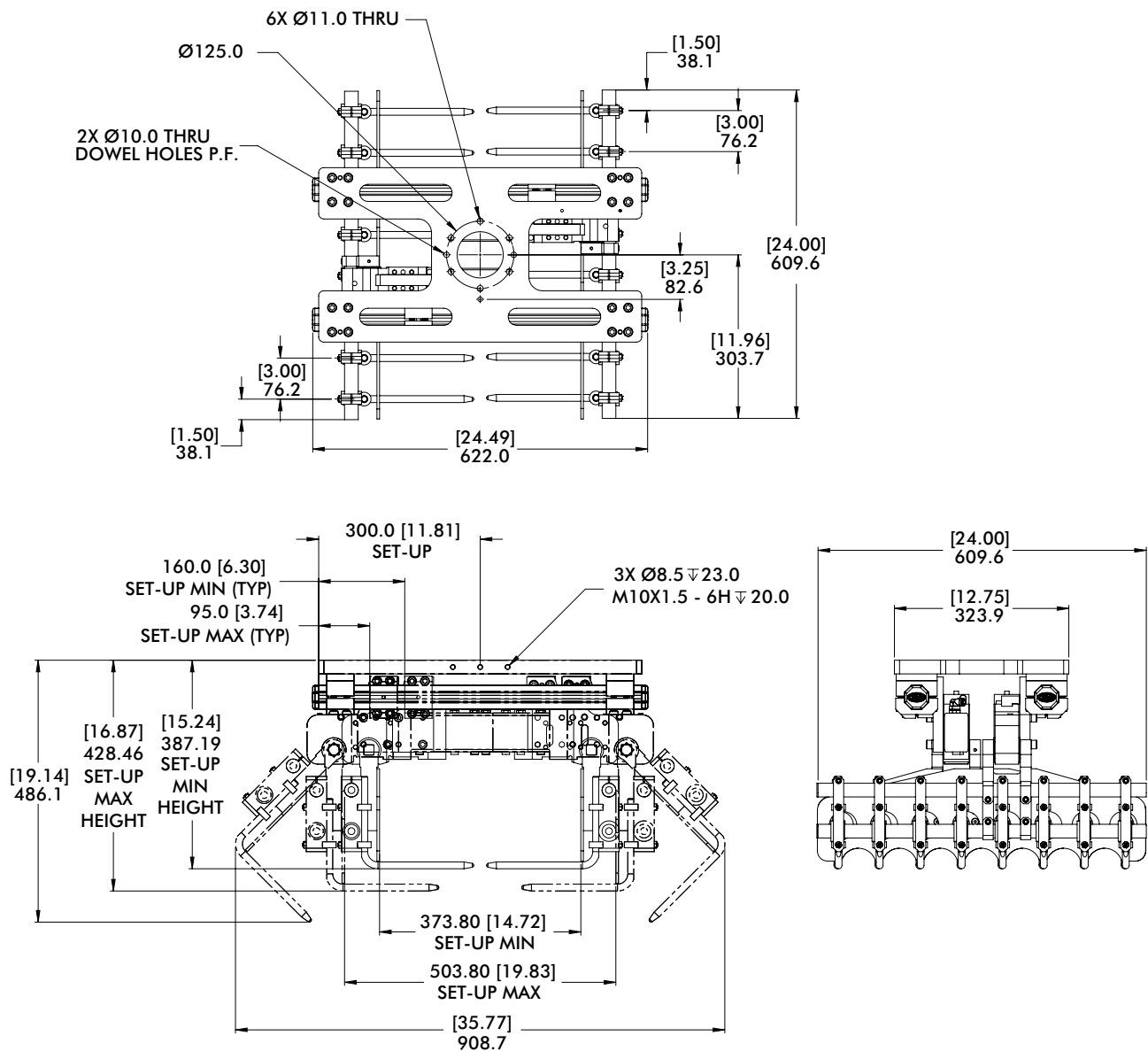
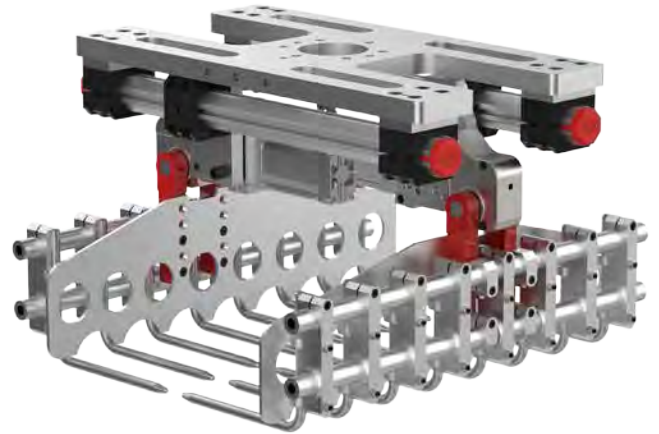


Note: mm/[Inches]

DBG100 SERIES

Bag Gripping and Palletizing Solutions | Dimensions

Model Number	Weight
DBG100-2	[95 lb] 43 kg

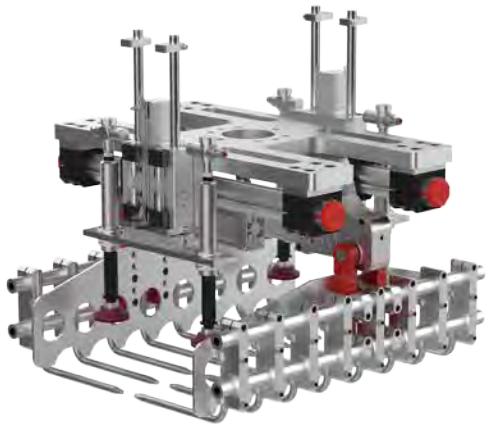


Note: mm/[Inches]

SLIP SHEET PICK AND PLACE OPTION

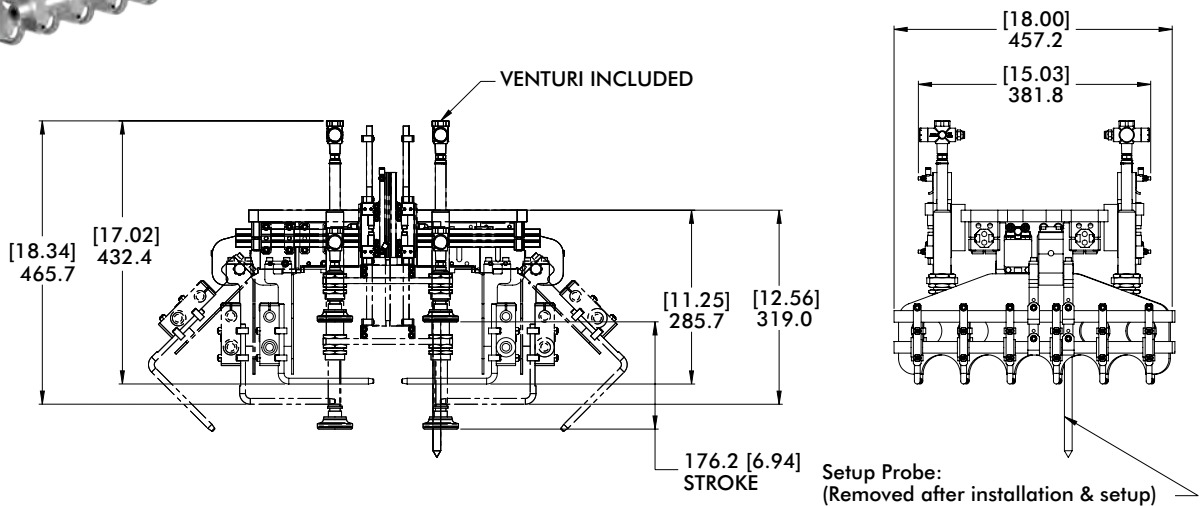
Bag Gripping and Palletizing Solutions | Dimensions

4.00" [101.6mm]



Model Number	Weight
DBG50-2-PU4-SP	[11 lb] 5 kg

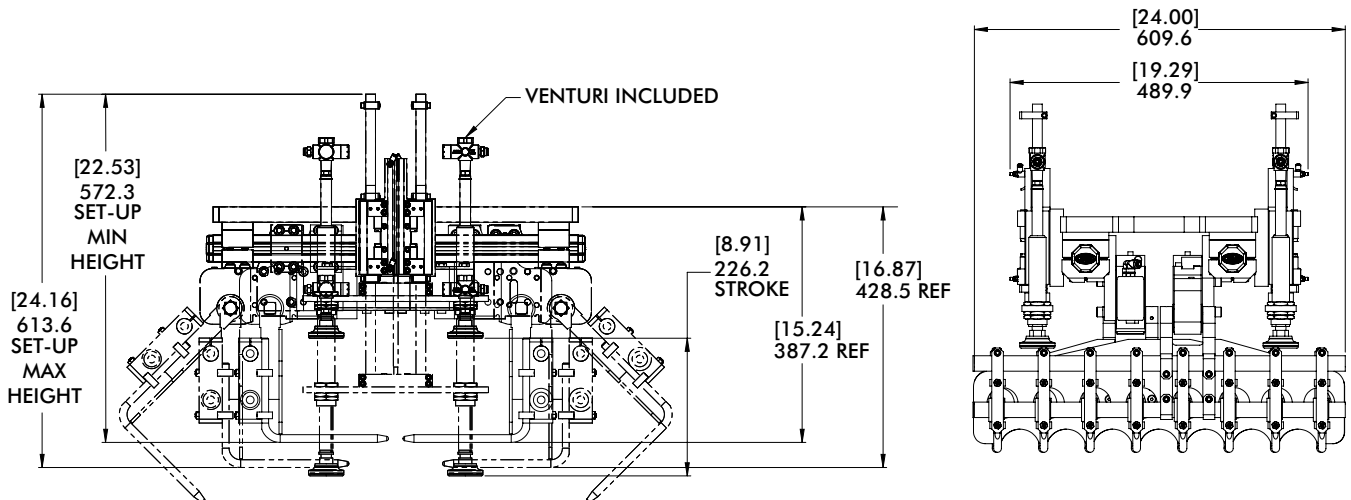
Add to base model weight



6.00" [152.4mm]

Model Number	Weight
DBG100-2-PU6-SP	[23 lb] 10 kg

Add to base model weight



Note: mm/[Inches]



EE-DBG-9

Dimensions and technical information are subject to change without notice

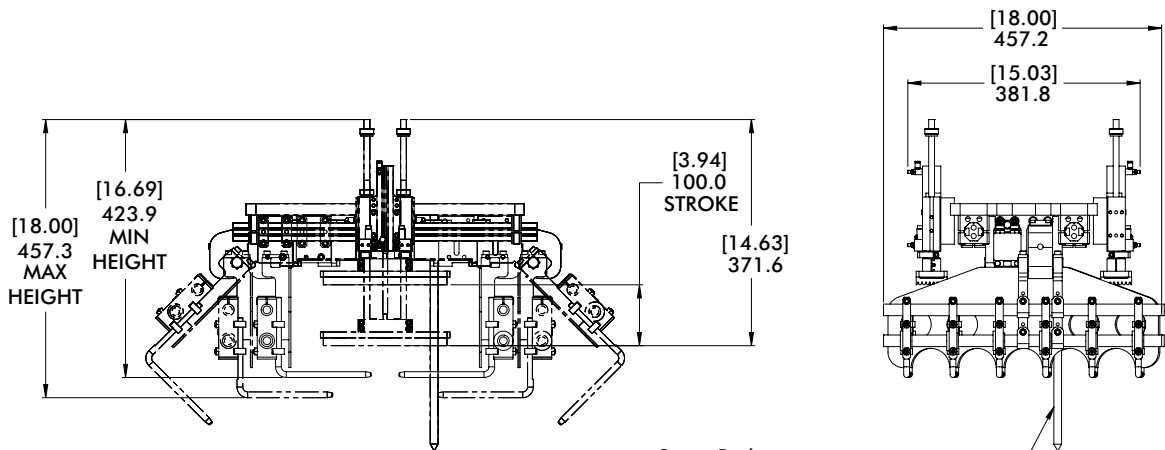
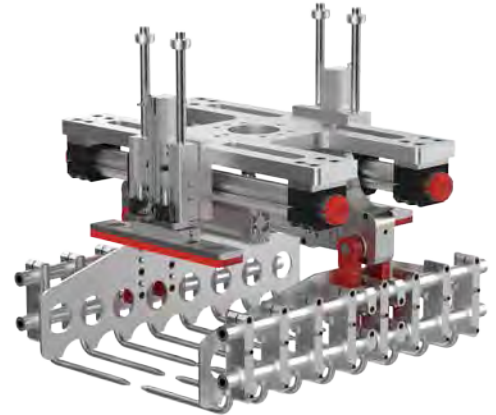
PNEUMATIC BACK-UP OPTION

Bag Gripping and Palletizing Solutions | Dimensions

4.00" [101.6mm]

Model Number	Weight
DBG50-2-PU4-BU	[8 lb] 3.6 kg

Add to base model weight

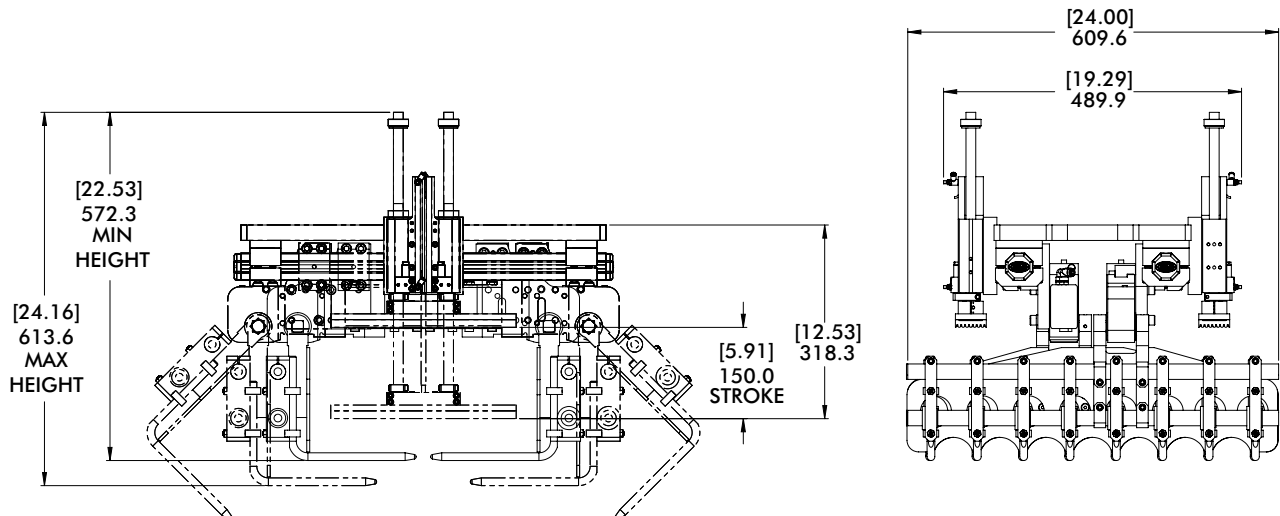


Setup Probe:
(Removed after installation & setup)

6.00" [152.4mm]

Model Number	Weight
DBG100-2-PU6-BU	[20 lb] 9 kg

Add to base model weight

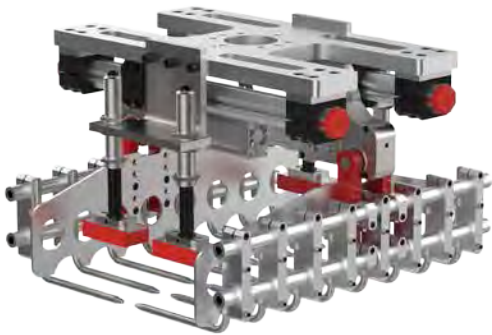


Note: mm/[Inches]

TRAVEL SPRING BACK-UP OPTION

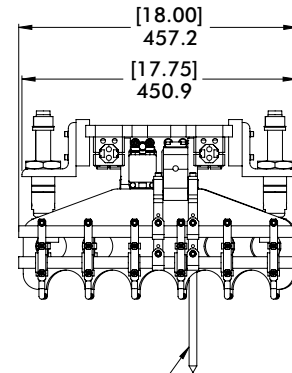
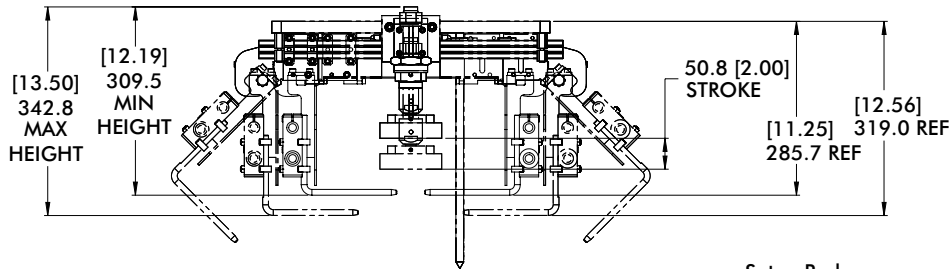
Bag Gripping and Palletizing Solutions | Dimensions

2.00" [50.8mm]



Model Number	Weight
DBG50-2-SU2	[6.4 lb] 2.9 kg

Add to base model weight

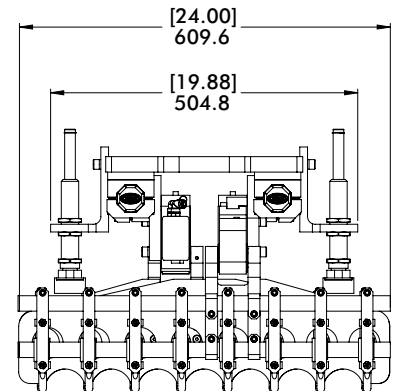
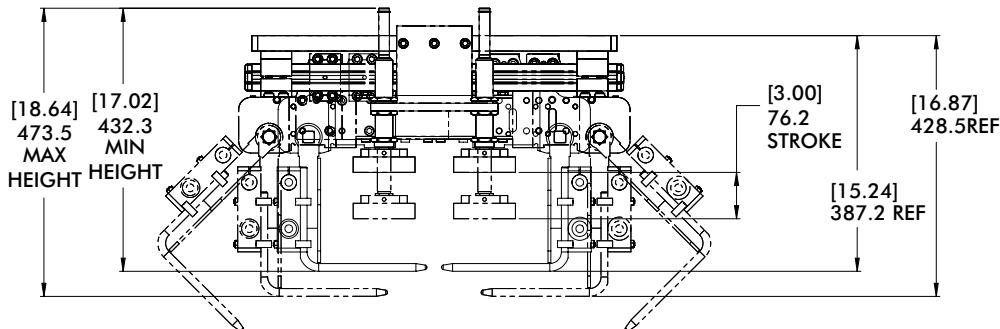


Setup Probe:
(Removed after installation & setup)

3.00" [76.2mm]

Model Number	Weight
DBG100-2-SU3	[12.4 lb] 5.6 kg

Add to base model weight



Note: mm/[Inches]



EE-DBG-11

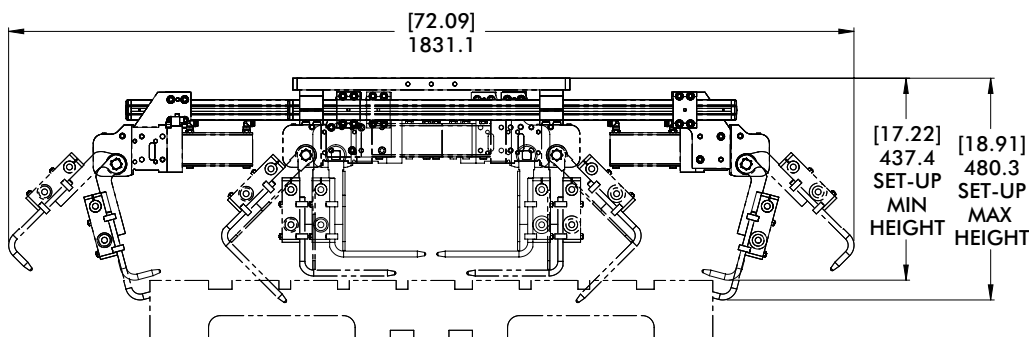
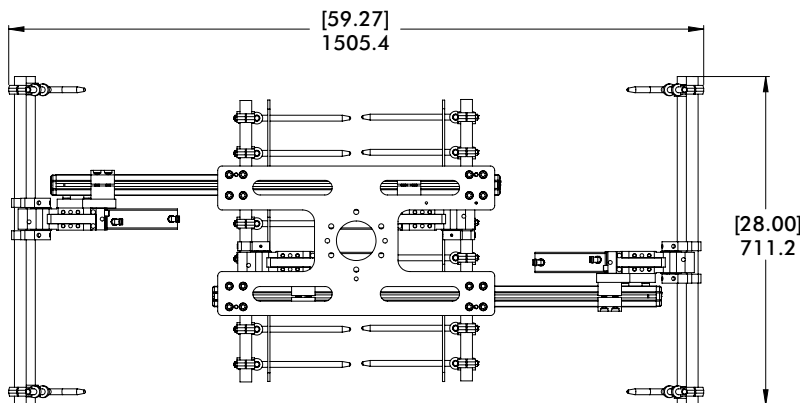
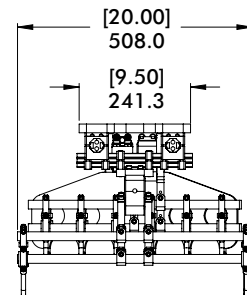
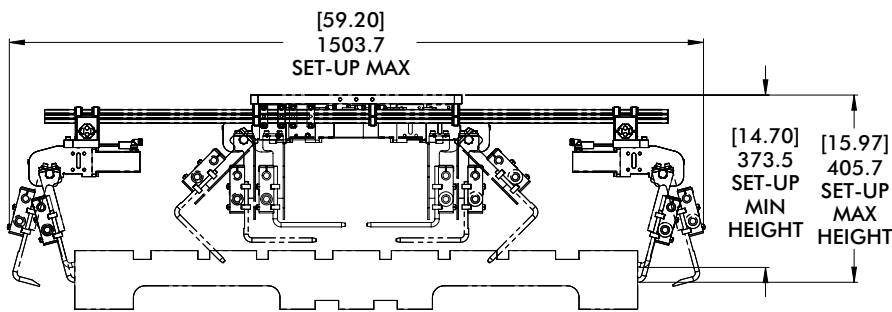
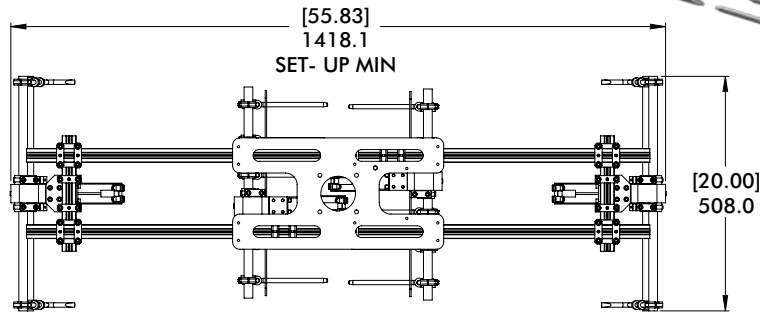
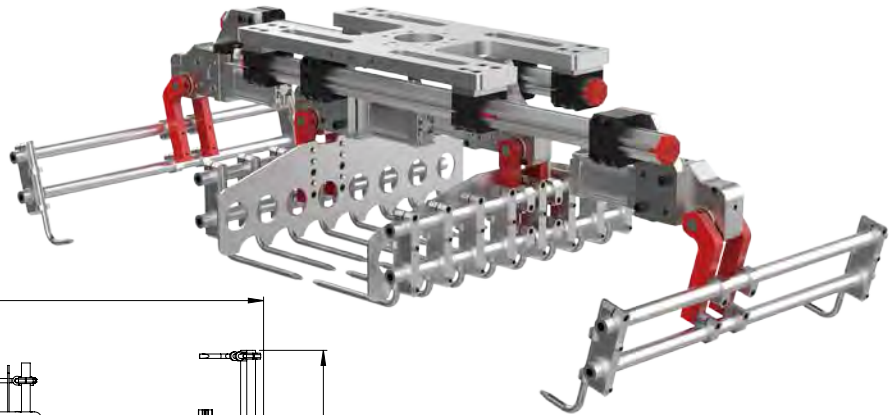
Dimensions and technical information are subject to change without notice

PALLET PICK AND PLACE OPTION

Bag Gripping and Palletizing Solutions | Dimensions

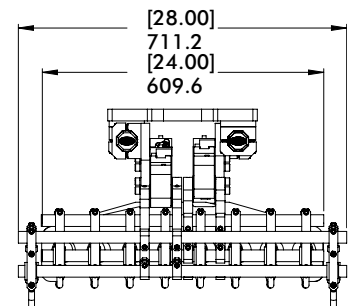
Model Number	Weight
DBG50-2-PP	[29 lb] 13 kg

Add to base model weight



Model Number	Weight
DBG100-2-PP	[48 lb] 22 kg

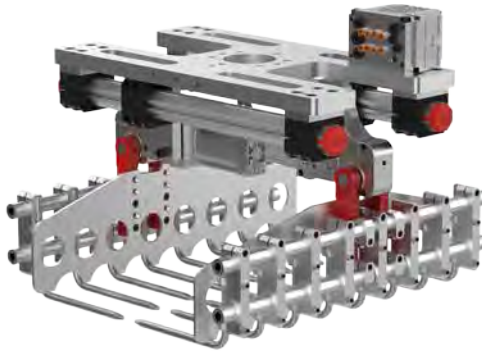
Add to base model weight



Note: mm/[Inches]

CONTROLS AND VALVE PACKAGE OPTION

Bag Gripping and Palletizing Solutions | Dimensions



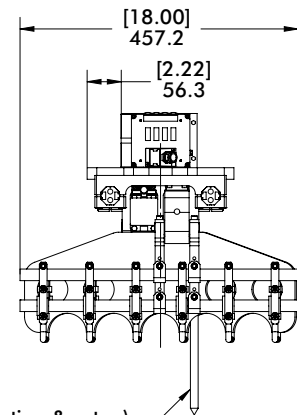
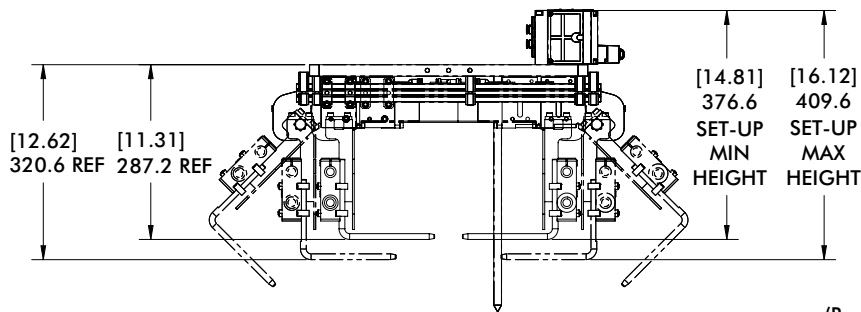
Model Number

DBG50-2-CP

Weight

[5 lb]
2.3 kg

Add to base model weight



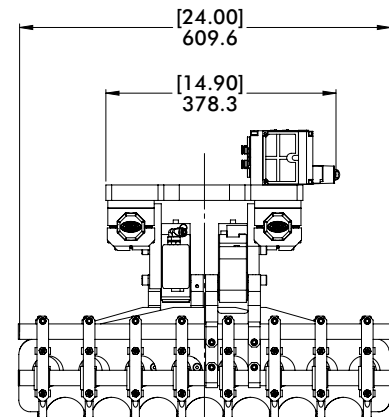
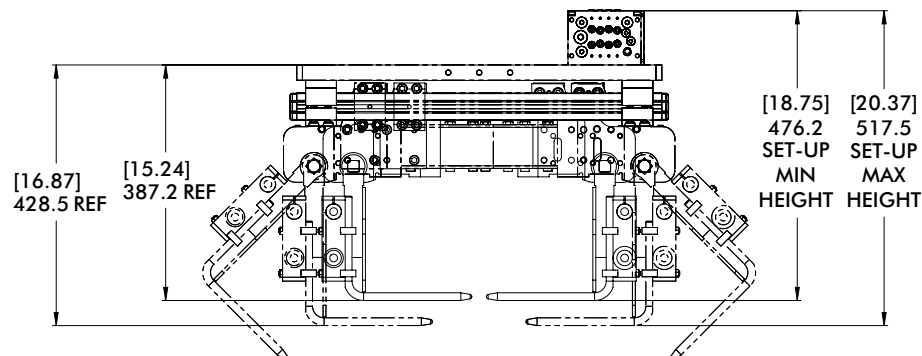
Model Number

DBG100-2-CP

Weight

[5 lb]
2.3 kg

Add to base model weight

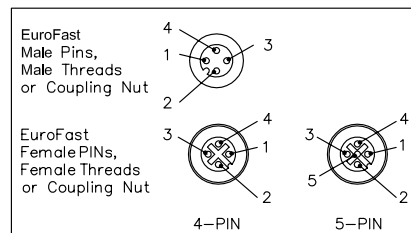
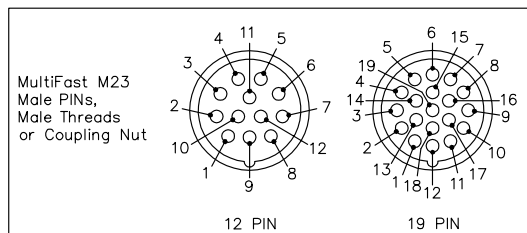
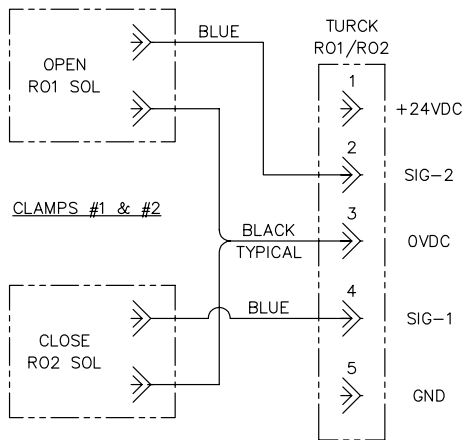
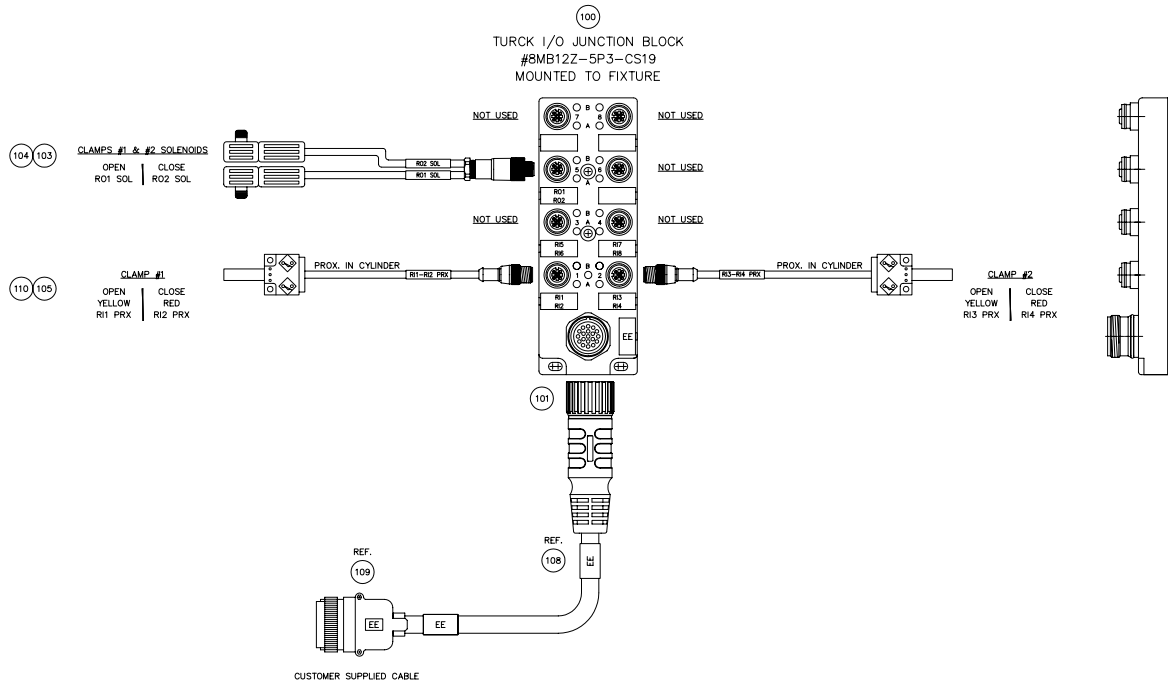


Note: mm/[Inches]

DBG-2-CP-KIT CONTROLS PACKAGE

Bag Gripping and Palletizing Solutions | Technical Specifications and Dimensions

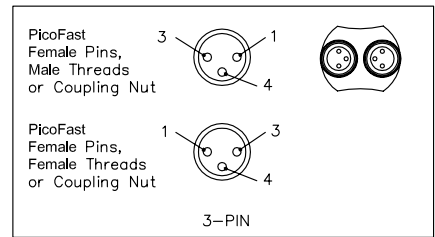
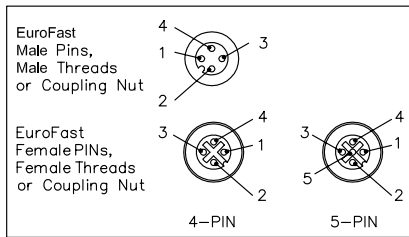
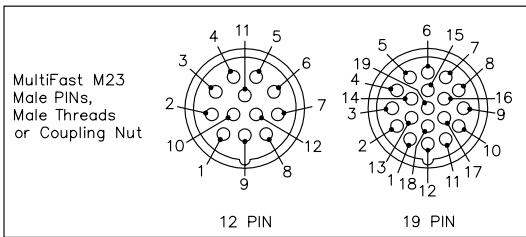
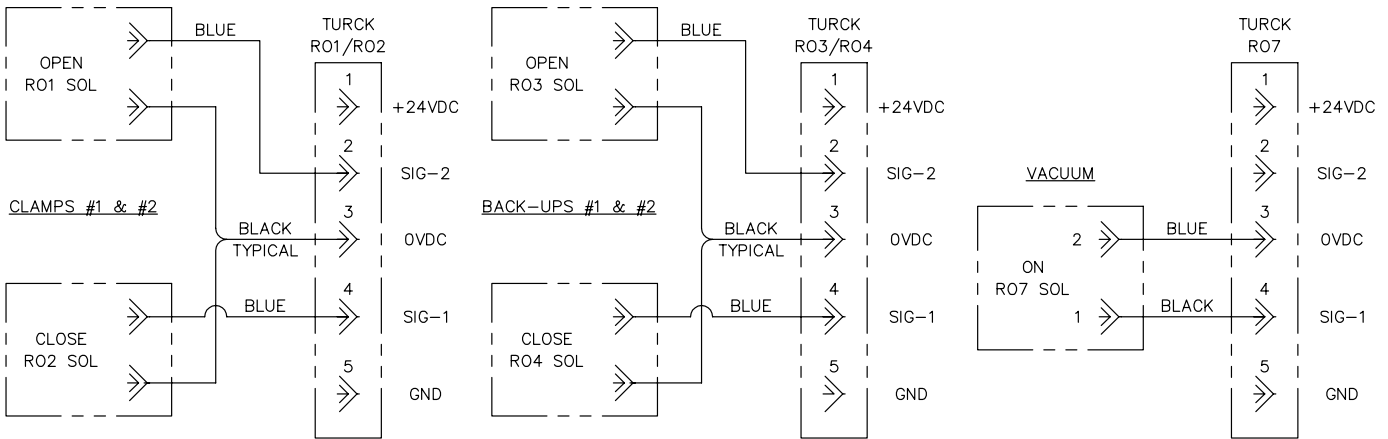
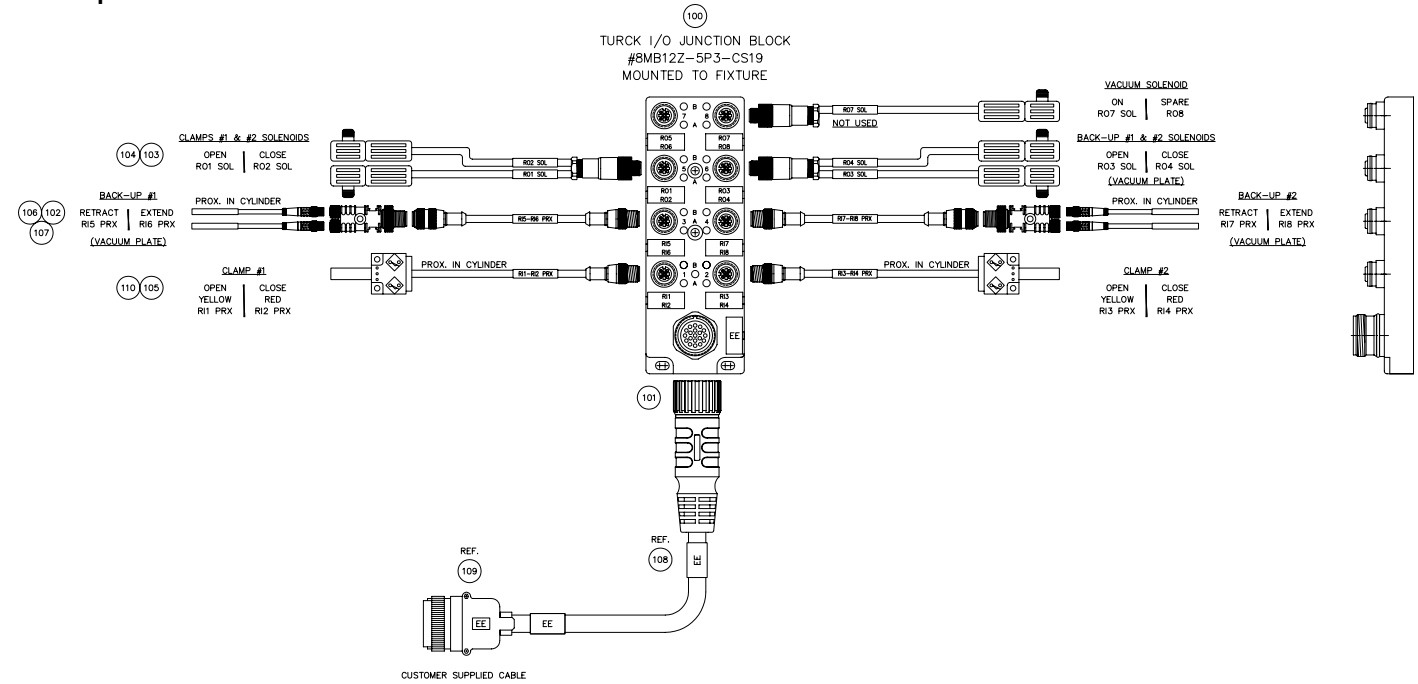
For Base Model



DBG-2-CP-PU-SP-KIT CONTROL PACKAGE

Bag Gripping and Palletizing Solutions | Technical Specifications and Dimensions

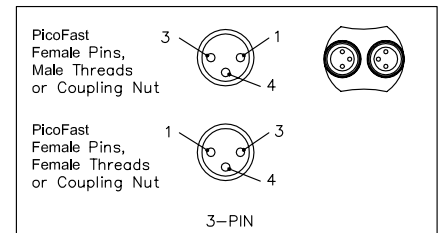
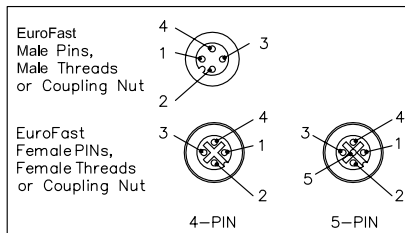
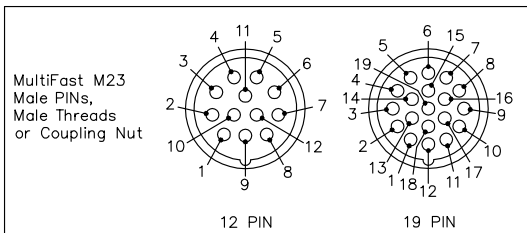
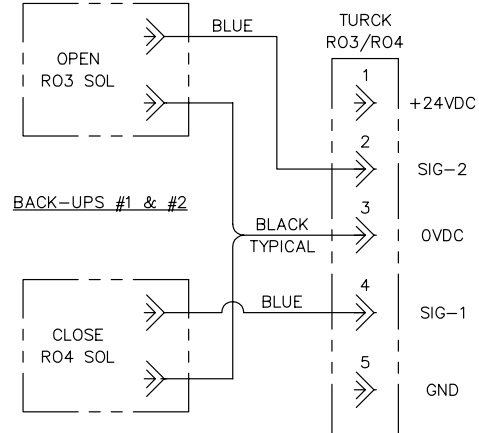
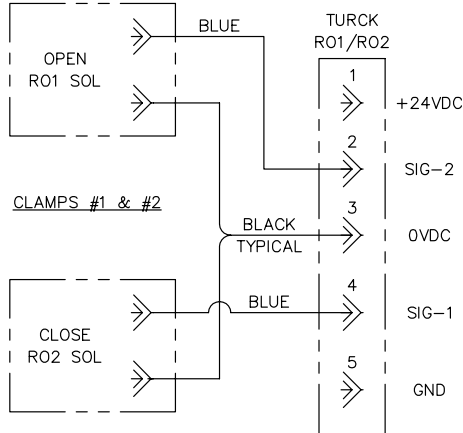
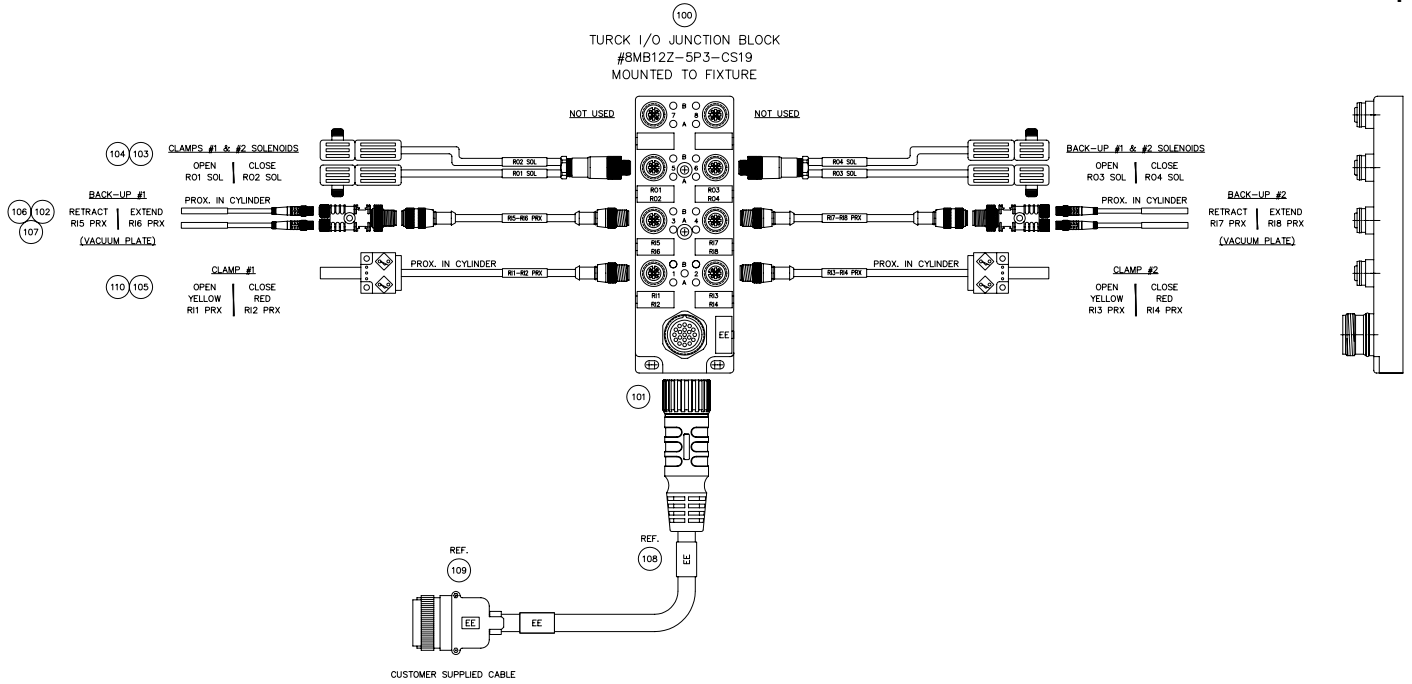
For Slip Sheet Pick and Place



DBG-2-CP-PU-BU-KIT CONTROLS PACKAGE

Bag Gripping and Palletizing Solutions | Technical Specifications and Dimensions

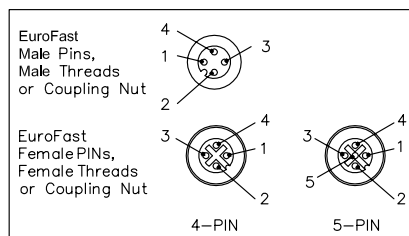
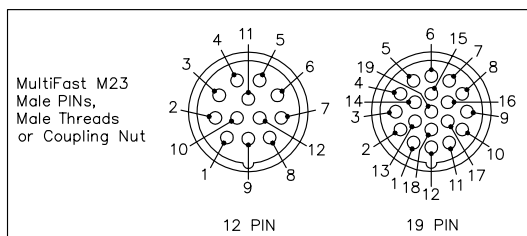
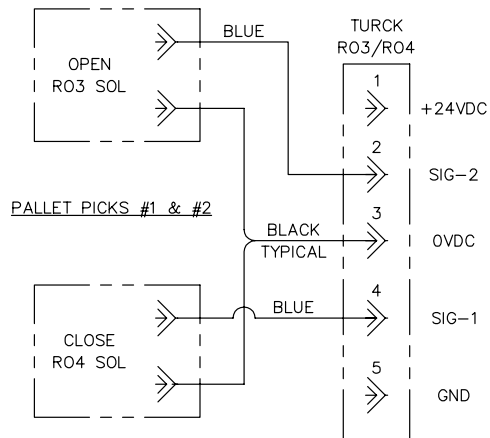
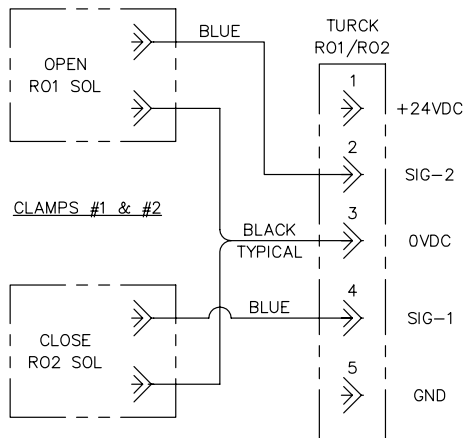
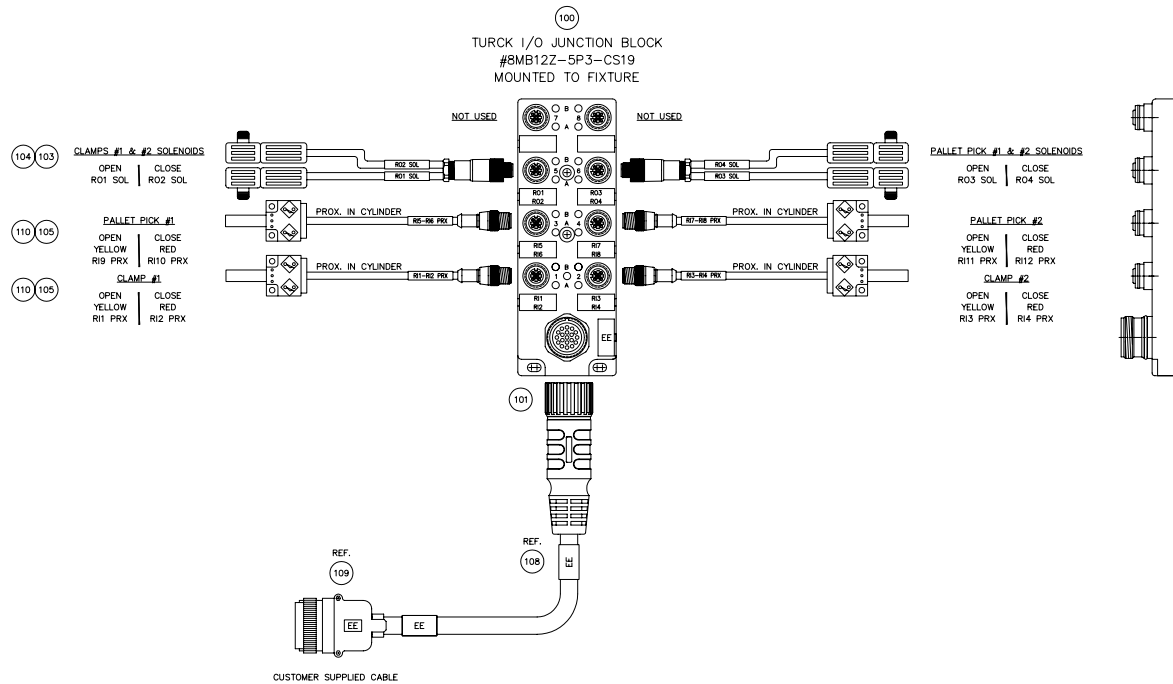
For Pneumatic Back-up



DBG-2-CP-PP-KIT CONTROLS PACKAGE

Bag Gripping and Palletizing Solutions | Technical Specifications and Dimensions

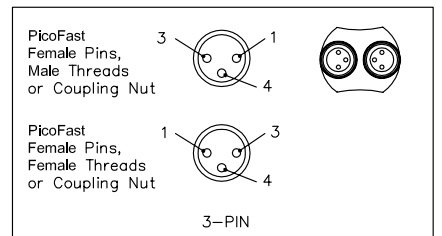
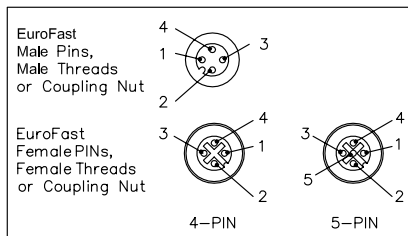
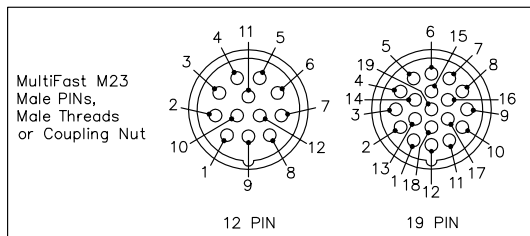
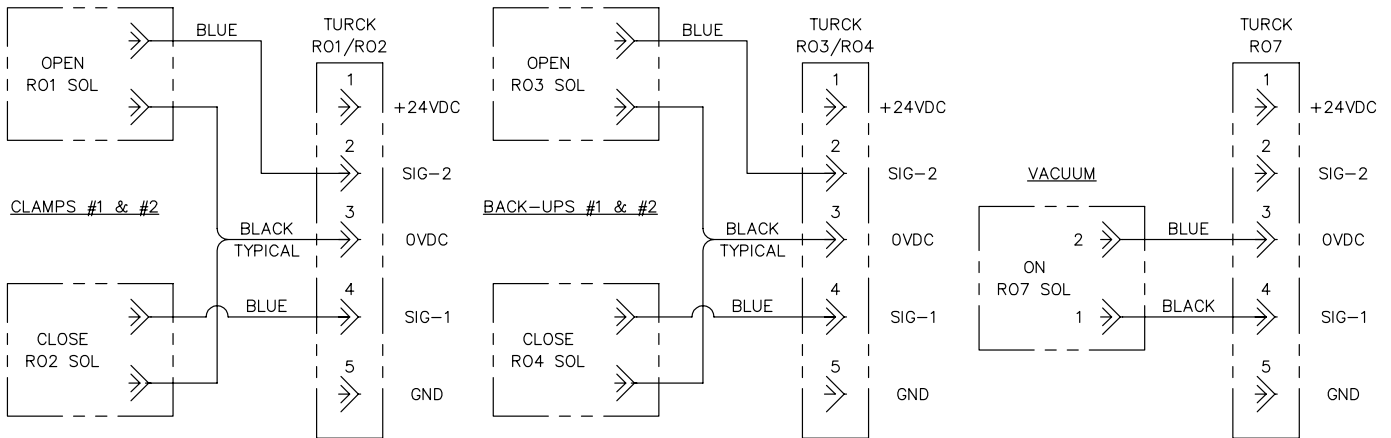
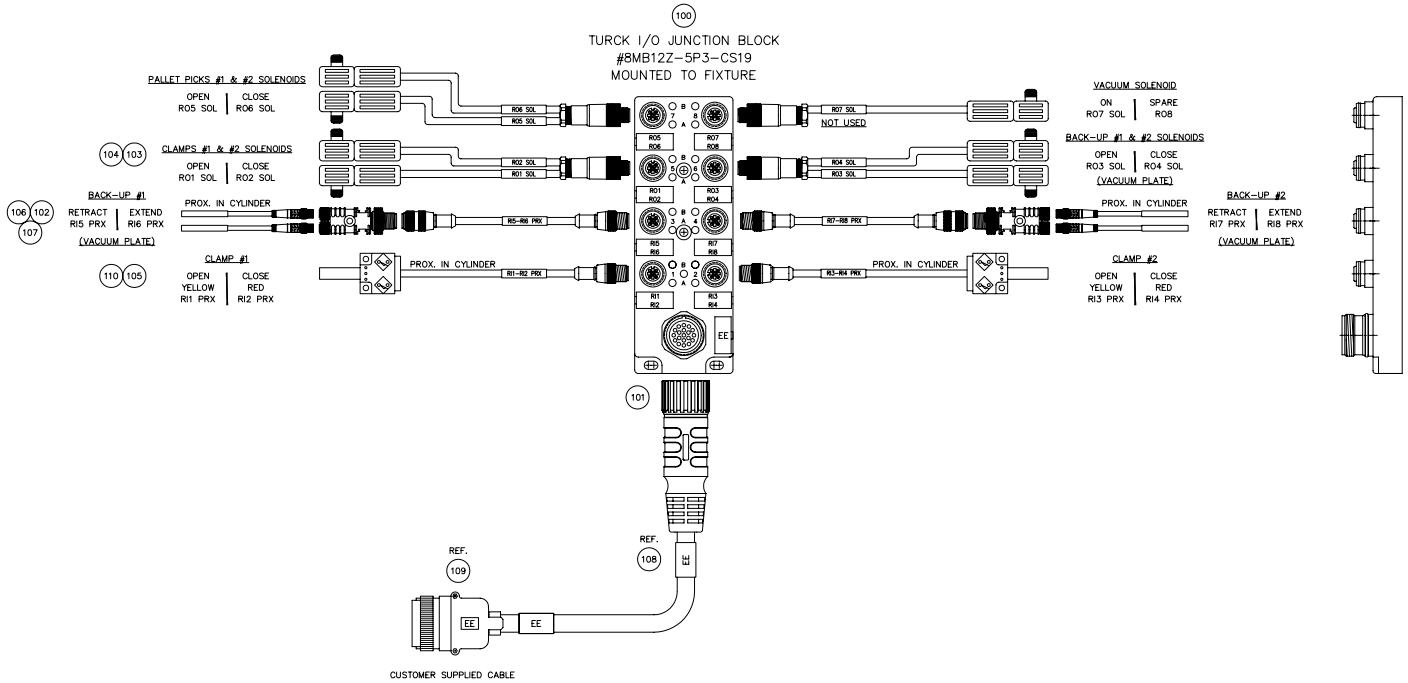
For Pallet Pick and Place



DBG-CP-PU-SP-PP-KIT CONTROLS PACKAGE

Bag Gripping and Palletizing Solutions | Technical Specifications and Dimensions

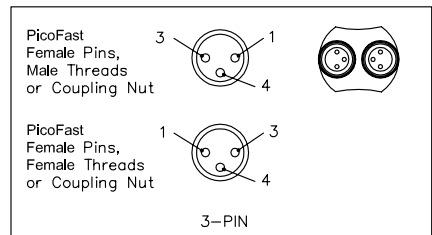
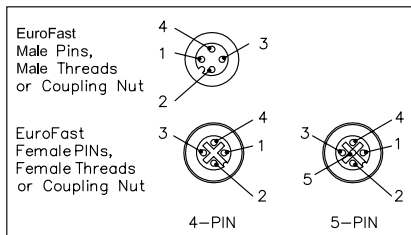
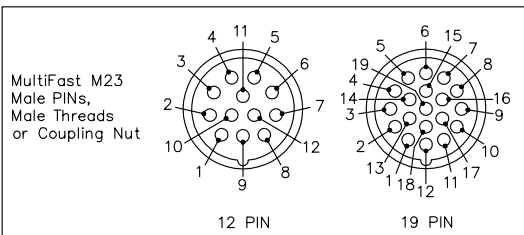
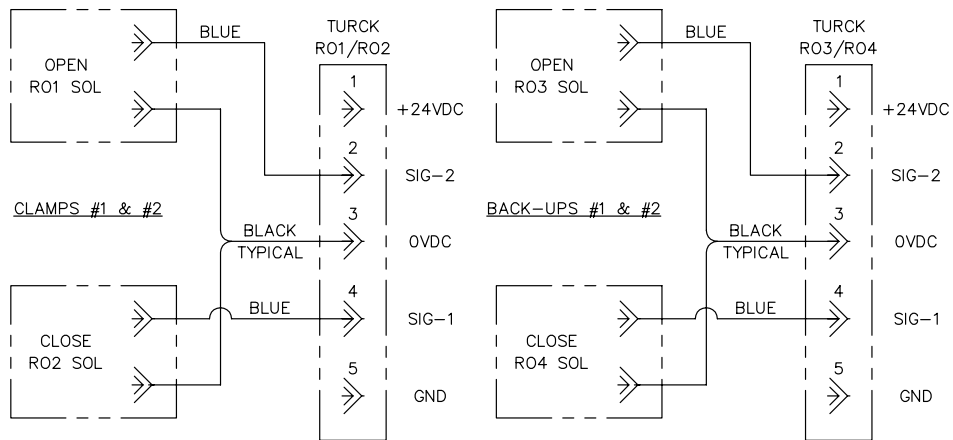
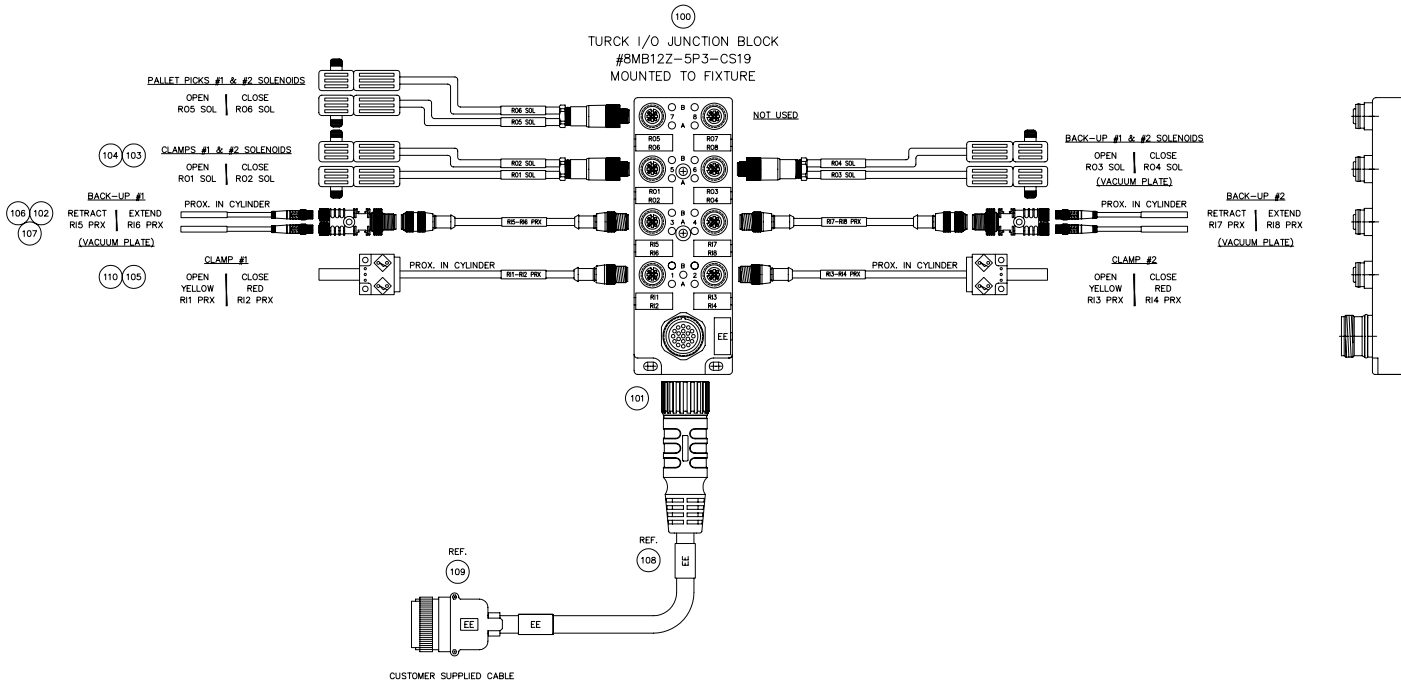
For Pallet Pick and Place/Slip Sheet Pick and Place



DBG-CP-PU-BU-PP-KIT CONTROLS PACKAGE

Bag Gripping and Palletizing Solutions | Technical Specifications and Dimensions

For Pallet Pick and Place/Pneumatic Back-up



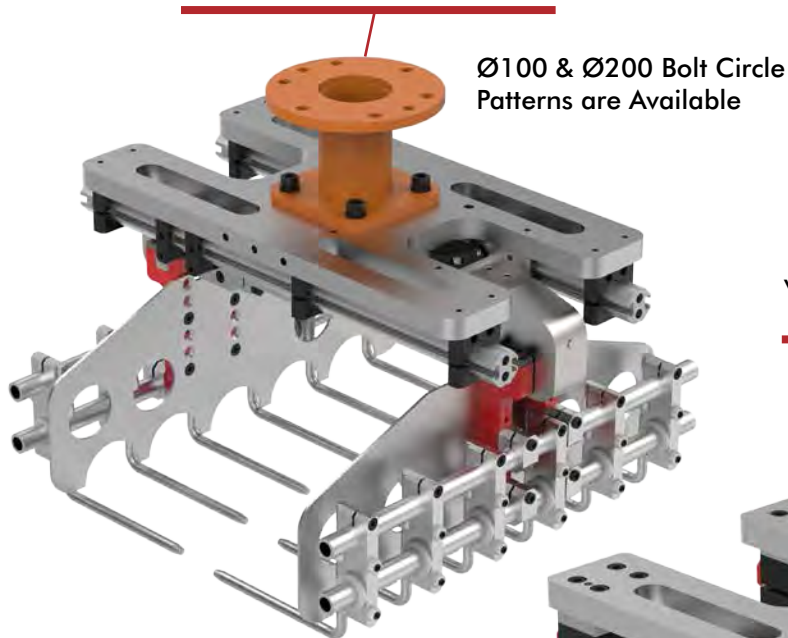
ROBOT STAND-OFF ADAPTOR

Bag Gripping and Palletizing Solutions | Product Overview

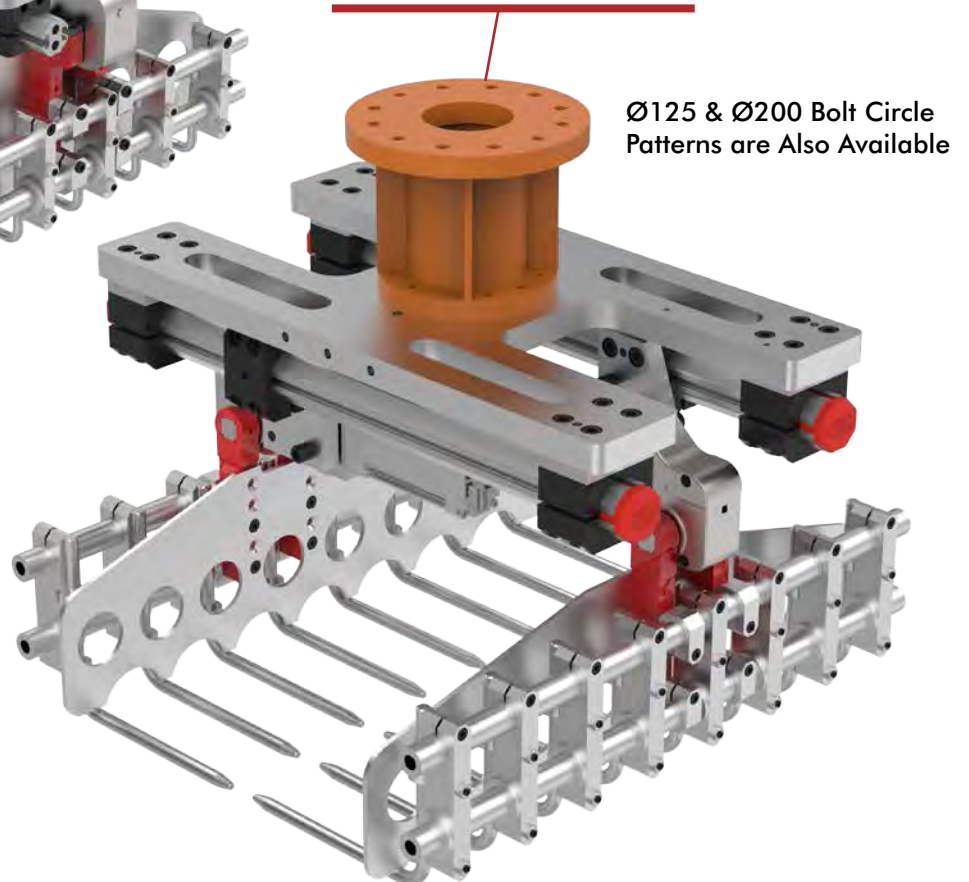
(Sold Separately)

- Aluminum welded construction
- Painted safety orange
- Available in 100, 125, 160 & 200mm bolt circles
(Custom stand-offs available upon request)
- Bolts for mounting to bag gripper are included

Robot Mount Stand-Off
with $\text{Ø}125$ Bolt Circle Pattern
DBG50-2-S04-125BC-KIT

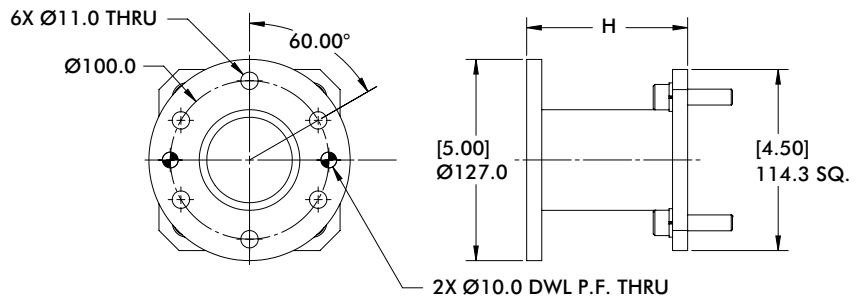


Robot Mount Stand-Off
with $\text{Ø}160$ Bolt Circle Pattern
DBG100-2-S04-160BC-KIT



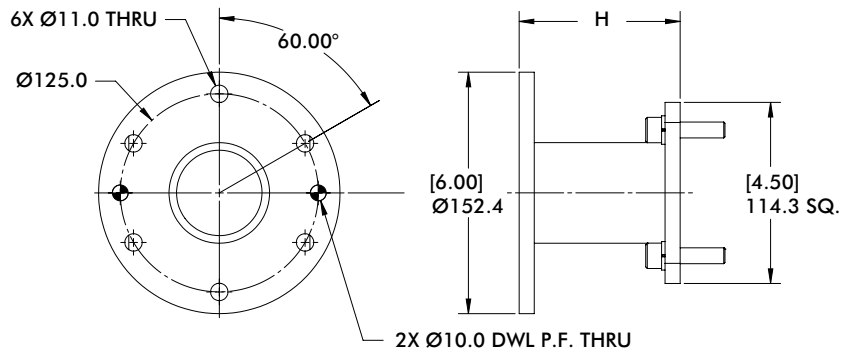
ROBOT STAND-OFF ADAPTOR

Bag Gripping and Palletizing Solutions | Technical Specifications and Dimensions



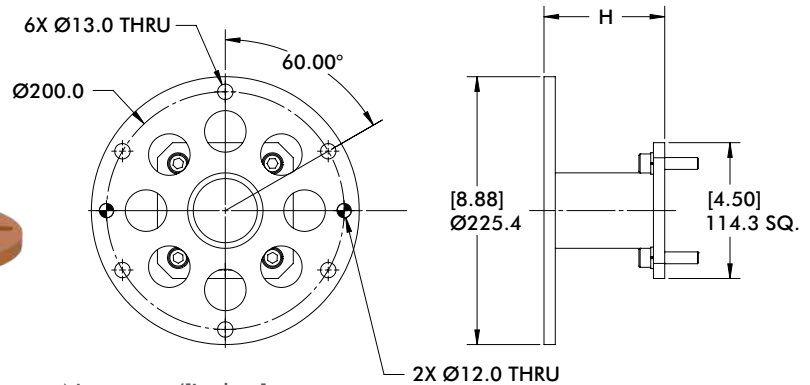
Model Number	H [inch]/mm	Weight
DBG50-2-S04-100BC-KIT	[4.00] 101.6	[4.8 lb] 2.2 kg
DBG50-2-S06-100BC-KIT	[6.00] 152.4	[5.5 lb] 2.5 kg

Material: Aluminum painted safety orange
(4) M10 SHCS & Lock washers included



Model Number	H [inch]/mm	Weight
DBG50-2-S04-125BC-KIT	[4.00] 101.6	[5.7 lb] 2.6 kg
DBG50-2-S06-125BC-KIT	[6.00] 152.4	[6.5 lb] 2.9 kg

Material: Aluminum painted safety orange
(4) M10 SHCS & Lock washers included



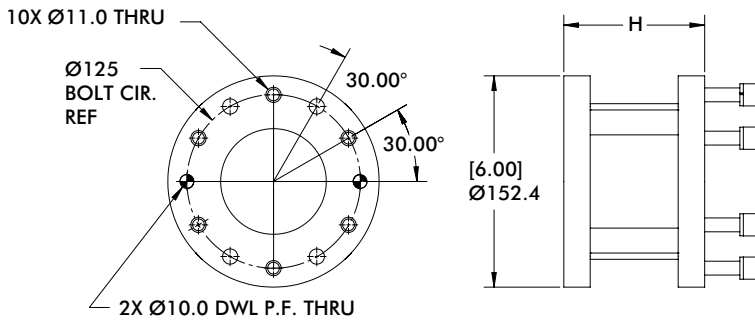
Note: mm/[Inches]

Model Number	H [inch]/mm	Weight
DBG50-2-S04-200BC-KIT	[4.00] 101.6	[7.9 lb] 3.6 kg
DBG50-2-S06-200BC-KIT	[6.00] 152.4	[8.7 lb] 3.9 kg

Material: Aluminum painted safety orange
(4) M10 SHCS & Lock washers included

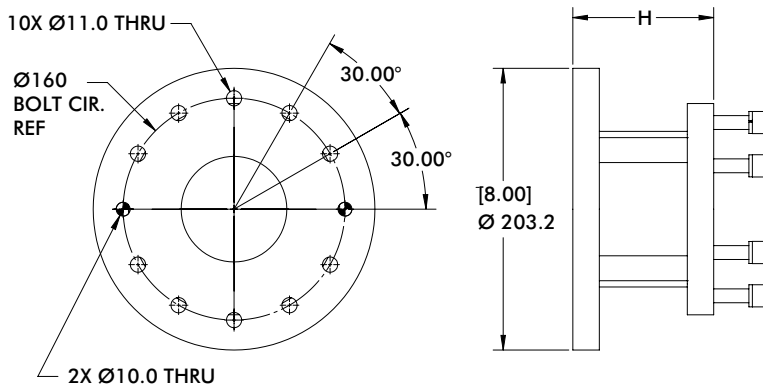
ROBOT STAND-OFF ADAPTOR

Bag Gripping and Palletizing Solutions | Technical Specifications and Dimensions



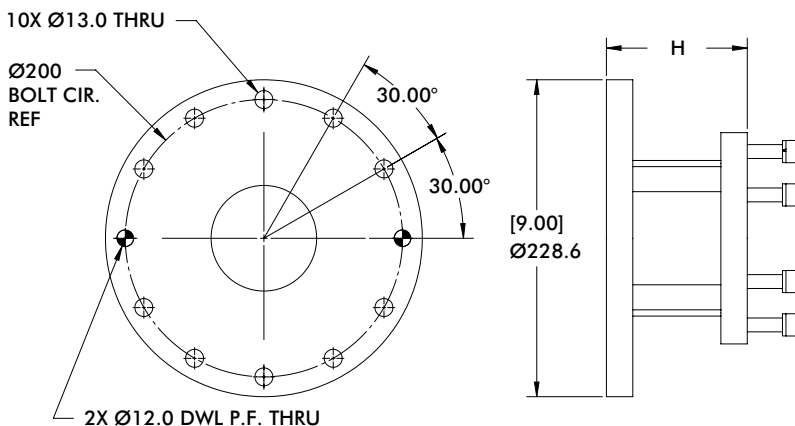
Model Number	H [inch]/mm	Weight
DBG100-2-S04-125BC-KIT	[4.00] 101.6	[4.4 lb] 2.0 kg
DBG100-2-S06-125BC-KIT	[6.00] 152.4	[5.2 lb] 2.4 kg

Material: Aluminum painted safety orange
(6) M10 SHCS & Lock washers included



Model Number	H [inch]/mm	Weight
DBG100-2-S04-160BC-KIT	[4.00] 101.6	[6.0 lb] 2.7 kg
DBG100-2-S06-160BC-KIT	[6.00] 152.4	[6.8 lb] 3.1 kg

Material: Aluminum painted safety orange
(6) M10 SHCS & Lock washers included



Model Number	H [inch]/mm	Weight
DBG100-2-S04-200BC-KIT	[4.00] 101.6	[6.9 lb] 3.1 kg
DBG100-2-S06-200BC-KIT	[6.00] 152.4	[7.7 lb] 3.5 kg

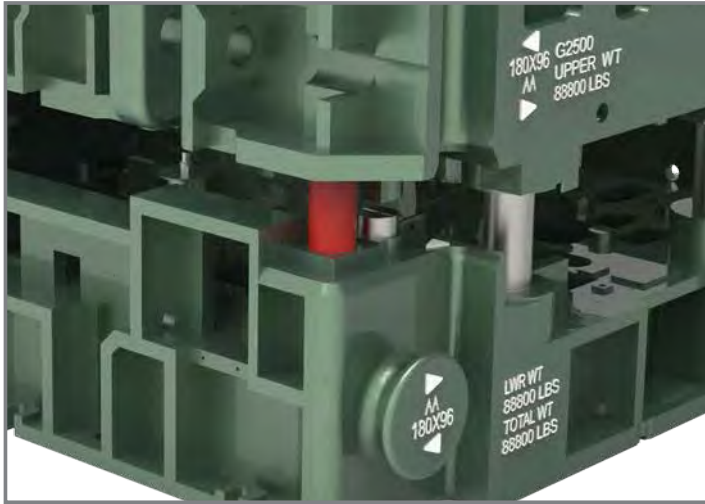
Note: mm/[Inches]

Material: Aluminum painted safety orange
(6) M10 SHCS & Lock washers included

DIE STORAGE BLOCKS, BASES AND ROLLERS

Die Components | Product Overview

DESTACO has developed special urethane compounds that have been incorporated into die storage blocks that were previously made using all steel construction. The use of DESTACO Urethane Die Storage Blocks greatly reduces scratching and damage to parts and die surfaces. Our Storage Blocks can mount directly to the die or, as an option, use our steel, double-hinge, swing-away bases.



Ball Bearing Cushion Rollers

DESTACO Rollers are designed to meet the high performance needs of the industrial market. Available in cushion design where maximum protection from shock loads is required and noise, scratch and dent free service is a necessity. Rollers are made of oil and cut resistant neoprene and nitrile material, molded in four color coded durometers and are offered with or without stud mounting. DESTACO rollers protect your products!



Standard
Roller



Roller
with Bolt

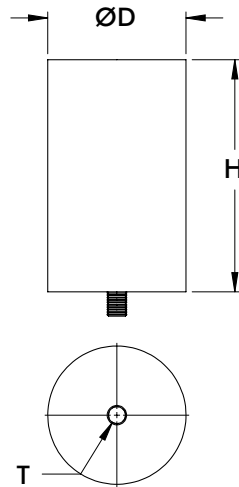
DIE STORAGE BLOCKS AND BASES

Die Components | Technical Specifications, Dimensions

Die Storage Blocks

Features:

- Made of long-lasting 80 durometer red urethane
- Can remain in place when die is used
- Imperial and metric threads available

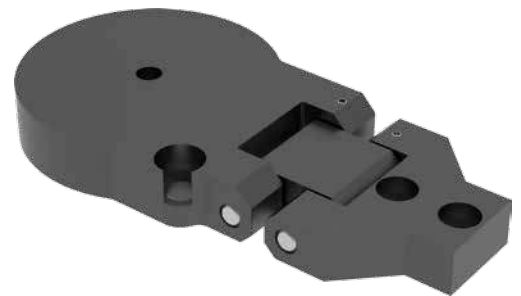
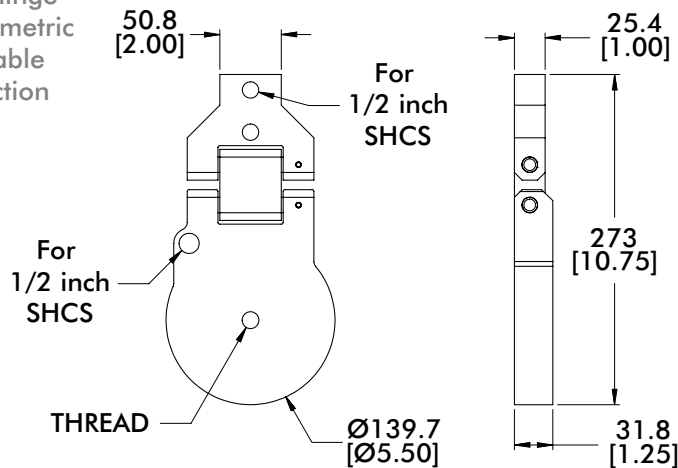


Model Number	D mm [in]	H mm [in]	T	Compressed Diameter mm [in]	Compressed Height mm [in]	Load Measured † [T]
CPI-50-400-20M	101.6 [4.00]	127.0 [5.00]	M20-2.5	120.7 [4.75]	79.5 [3.13]	4.5 [5.0]
CPI-55-450-A	114.3 [4.50]	139.7 [5.50]	5/8-11	130.2 [5.13]	101.6 [4.00]	6.8 [7.5]
CPI-65-350-20M	88.9 [3.50]	165.1 [6.50]	M20-2.5	114.3 [4.50]	127.0 [5.00]	4.5 [5.0]
CPI-65-450-20M	114.3 [4.50]		5/8-11	130.3 [5.13]	101.6 [4.00]	6.8 [7.5]
CPI-65-450-A	88.9 [3.50]	203.2 [8.00]	M16-2	Data Not Available	Data Not Available	Data Not Available
CPI-M-1443	114.3 [4.50]			Data Not Available	Data Not Available	Data Not Available

Die Storage Base

Features:

- Swing-out capability with double-hinge
- Imperial and metric threads available
- Steel construction



Model Number	Description	Thread
CPI-65-450-BASE-DH	Swing Away Base Double Hinged Only	5/8-11
CPI-65-450-BASE-DH-20M	Swing Away Base Double Hinged 20mm	M20-2.5

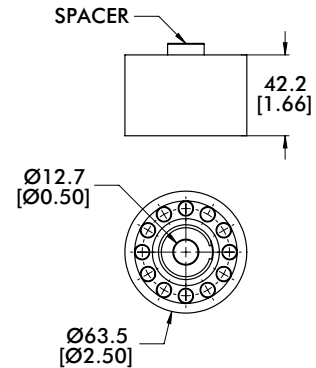
BALL BEARING CUSHION ROLLERS

Die Components | Dimensions

Ball Bearing Cushion Roller

Features:

- DESTACO Cushion Rollers are assembled with free rolling ball bearings so they can be mounted per customer application.
- The cushion design dissipates shock to avoid damaging fragile parts.
- One size with four color coded durometers are available for your applications.

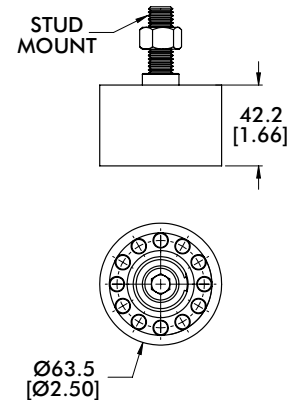


Model Number	Durometer	Color	Material Hardness	Normal Kg [lb]	Maximum Kg [lb]	Material	Weight g [lb]
CA-250-15	15	Tan	Soft	2.3 [5]	4.5 [10]	Neoprene	136 [0.3]
CA-250-30	30	Green	↕	4.5 [10]	9.1 [20]	Nitrile	
CA-250-45	45	Red		6.8 [15]	13.6 [30]		
CA-250-60	60	Black	Hard	9.1 [20]	18.1 [40]		

Ball Bearing Cushion Roller with Stud Mount

Features:

- DESTACO Stud Mounted Cushion Rollers are assembled with a bolt, nut and spacer for mounting to accessory brackets.



Model Number	Durometer	Color	Material Hardness	Recommended Load		Material	Weight g [lb]
				Normal Kg [lb]	Maximum Kg [lb]		
CPI-CA-250-15	15	Tan	Soft	2.3 [5]	4.5 [10]	Neoprene	316 [0.7]
CPI-CA-250-15-ME	15						159 [0.35]
CPI-CA-250-15-NB	15	Green	↕	4.5 [10]	9.1 [20]	Nitrile	316 [0.7]
CPI-CA-250-30	30						
CPI-CA-250-45	45						
CPI-CA-250-60	60	Black	Hard	9.1 [20]	18.1 [40]		

Model Number	Spacer	Bolt	Nut
CPI-CA-250-15	3/4 in. OD x 1/2 in. ID x 3/4 Length	SHCS 1/2-13 x 2 3/4	1/2-13 Locknut
CPI-CA-250-15-ME		SHCS M12-1.75 x 90mm	M12 Hex Nylock
CPI-CA-250-15-NB		No Bolt	No Nut
CPI-CA-250-30			
CPI-CA-250-45		SHCS 1/2-13 x 2 3/4	1/2-13 Locknut
CPI-CA-250-60			

OUR PORTFOLIO OF PRODUCTS



End Effectors (EE)

- Tool Changers
- End-of-Arm Tooling
- Vacuum Products
- Palletizing Solutions



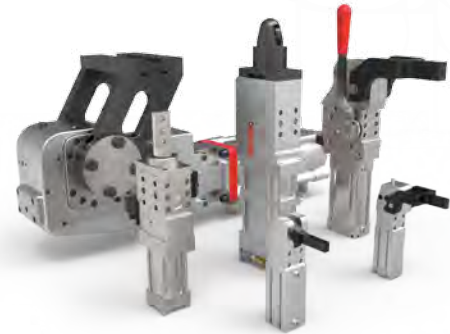
Grippers (GR)

- Electric Grippers
- Pneumatic and Sheet Metal Grippers
- Rotates
- Slides



Indexers (IN)

- Precision Conveyors
- Dial Indexers
- Shaft and Flange Indexers
- Part Handlers



Power Clamps (PC)

- Power Clamps
- Pin Clamps and Packages
- Pivot Units
- Power Cylinders



Manual Clamps (MC)

- Hold Down
- Squeeze Action
- Plunger, Hook and Latch
- Pneumatic Toggle and Swing



Remote Handling (RH)

- Gloveport Systems
- Transfer Systems
- Telemanipulators
- Waste Drum Systems



Precision in Productivity



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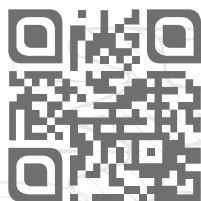
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END EFFECTORS

Tool Changers | End-of-Arm Tooling | Vacuum Products

