

ACCELERATE® TOOLING COLLECTION

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ACCELERATE[®] TOOLING COLLECTION

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WORLD TOOL COMPOSITE BOOM - WTCB SERIES

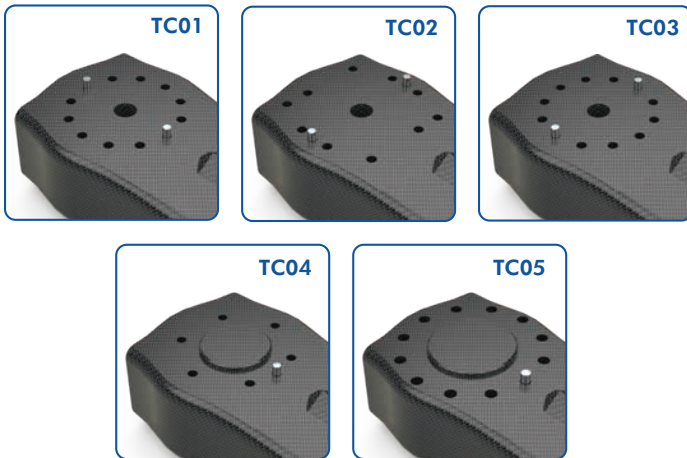
Accelerate® Tooling Collection | Ordering Information

WTCB - TC01 - 90T - 1700 - 4R2T

Robot, Tool Changer or Adapter Plate Mounting

- TC01** 125mm BCD per ISO 9409-1-125-10-M10 (e.g. RTP-800, RTP-1200, ATI-QC-160, ATI-QC-210 or Kawasaki ZT130)
- TC02** Adapter Plate for 11-59D 323327 VKR 125-210 & 11-59D 323330 F.EE Manual Tool Changer
- TC03** 125mm BCD Rotated 90° per ISO 9409-1-125-10-M10 (e.g. RTP-800, RTP-1200, ATI-QC-160, ATI-QC-210 or Kawasaki ZT130)
- TC04** 125mm BCD with Pilot for ISO 9409-1-A125 ABB IRB 6400 or Kawasaki ZT130 L
- TC05** 160mm BCD with Pilot per ISO 9409-1:2004 (e.g. ABB IRB 6650 & IRB 6650S)

See page 7 for more information.



Dowels pins shown for location. Not included.

Tool Branches

- 2R2T** 2 Tool Branch Mounting Locations (End Mount Configurations only)
- 4R2T** 4 Tool Branch Mounting Locations*
*excludes 1094 Boom Length.

Mounting Orientation

- 90C** Center Mount
- 90T** End Mount



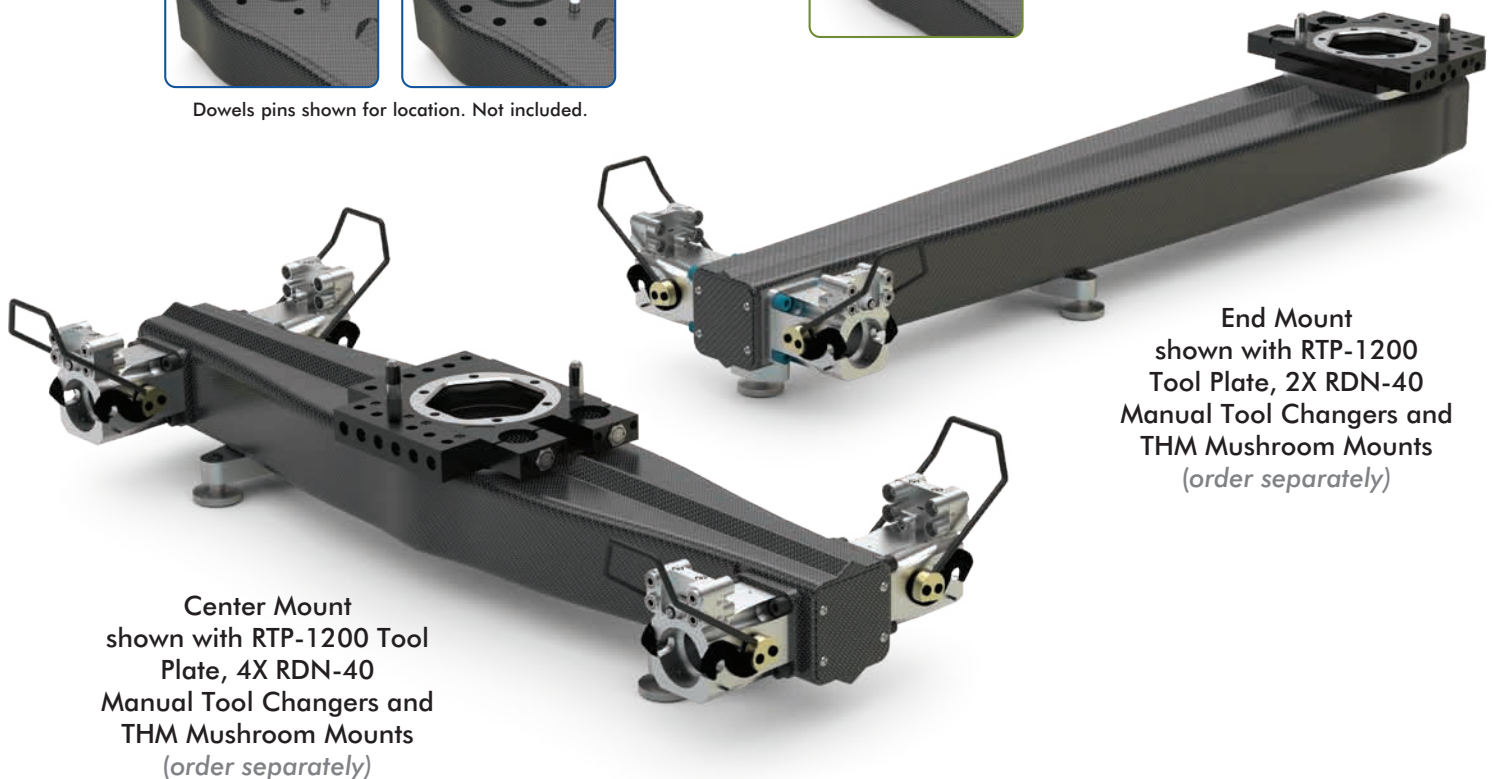
Boom Length

End Mount Configurations

- 1094** 1000mm Length*
- 1500** 1700mm Length
- 1703** 2400mm Length
- *2R2T Tool Branch only.

Center Mount Configurations

- 1000** 1000mm Length
- 1700** 1700mm Length
- 2400** 2400mm Length



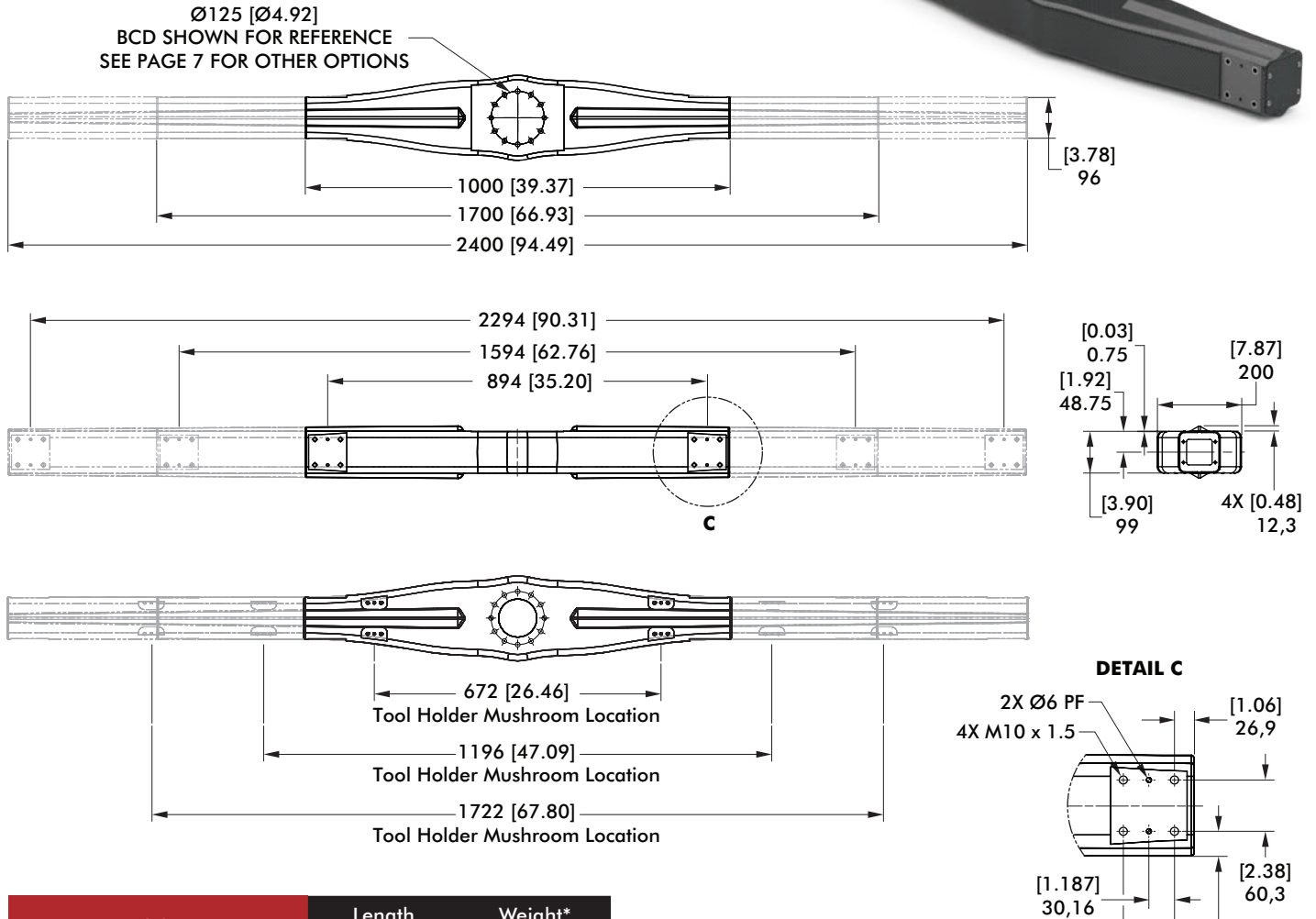
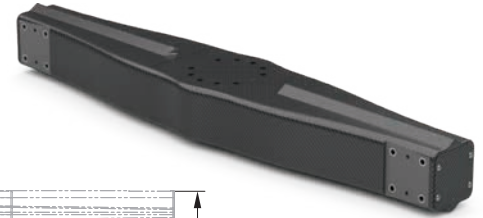
End Mount
shown with RTP-1200
Tool Plate, 2X RDN-40
Manual Tool Changers and
THM Mushroom Mounts
(order separately)

Center Mount
shown with RTP-1200 Tool
Plate, 4X RDN-40
Manual Tool Changers and
THM Mushroom Mounts
(order separately)

WORLD TOOL COMPOSITE BOOM - WTCB SERIES

Accelerate® Tooling Collection | Dimensions and Specifications

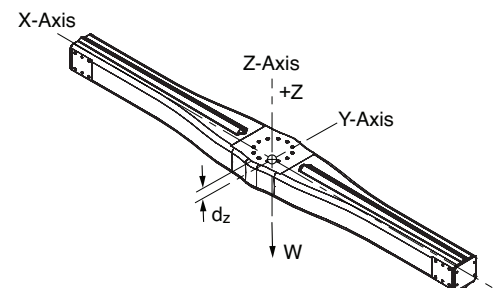
Center Mount with 4 Branches



Model No.	Length mm [in]	Weight* kg [lbs]
WTCB-TCXX-90C-1000-4R2T	1000 [39.37]	9,18 [20.24]
WTCB-TCXX-90C-1700-4R2T	1700 [66.93]	10,79 [23.79]
WTCB-TCXX-90C-2400-4R2T	2400 [94.49]	13,45 [29.65]

*Boom only.

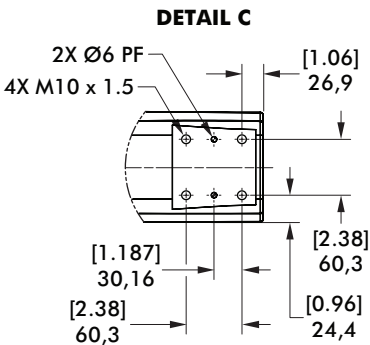
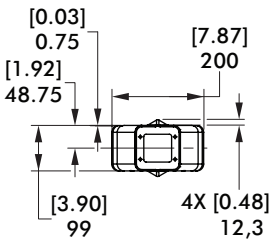
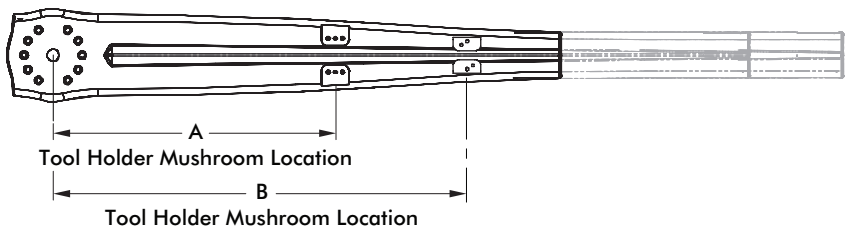
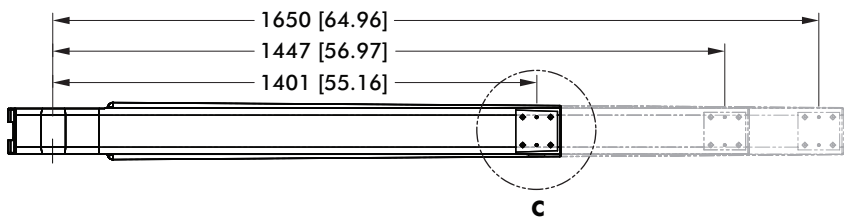
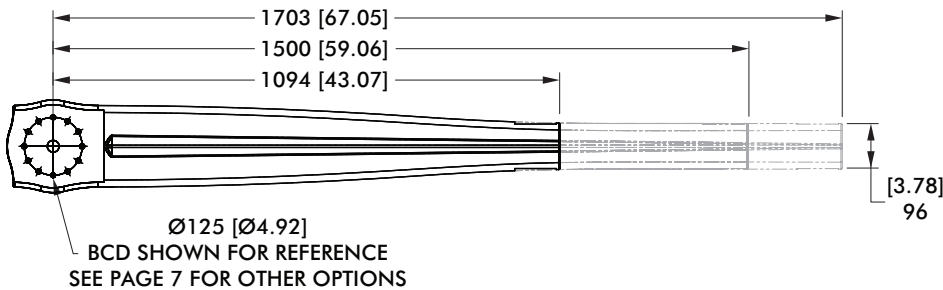
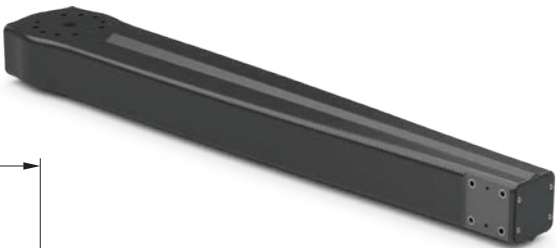
Description	Designation	Units	1000mm	1700mm	2400mm
Mass (Composite Boom Only)	W	[lb] kg	[20.24] 9.18	[23.79] 10.79	[29.65] 13.45
Center of Mass Location X-Axis	d _x	[in] mm	0	0	0
Center of Mass Location Y-Axis	d _y		0	0	0
Center of Mass Location Z-Axis	d _z		[-1.96] -49.8	[1.96] -49.7	[1.94] -49.2
Moment of Inertia at Center of Gravity	L _{xx}	[lb-ft ²] kg-m ²	[0.95] 0.04	[1.04] 0.044	[12.58] 0.53
	L _{yy}		[14.43] 0.608	[42.93] 1.809	[93.59] 3.944
	L _{zz}		[14.78] 0.623	[43.28] 1.824	[94.00] 3.961



WORLD TOOL COMPOSITE BOOM - WTCB SERIES

Accelerate® Tooling Collection | Dimensions and Specifications

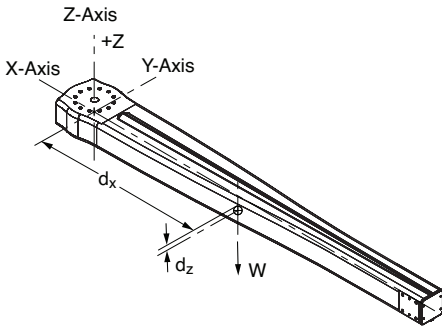
End Mount with 2 Branches



Model No.	A	B	Length mm [in]	Weight* kg [lbs]
WTCB-TCXX-90T-1094-2R2T	608 [23.94]	1041 [40.98]	1094 [43.07]	9,98 [22.0]
WTCB-TCXX-90T-1500-2R2T		1244 [48.98]	1500 [59.06]	11,22 [24.7]
WTCB-TCXX-90T-1703-2R2T	713 [28.07]	1447 [56.97]	1703 [67.05]	11,97 [26.4]

*Boom only.

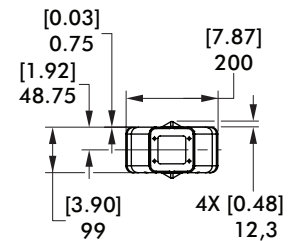
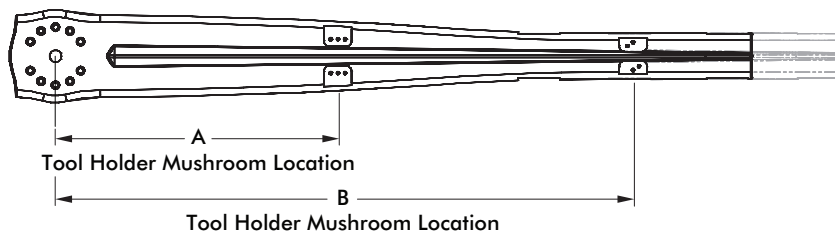
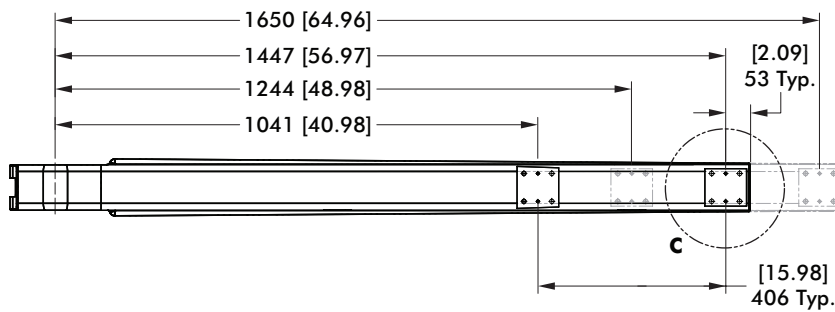
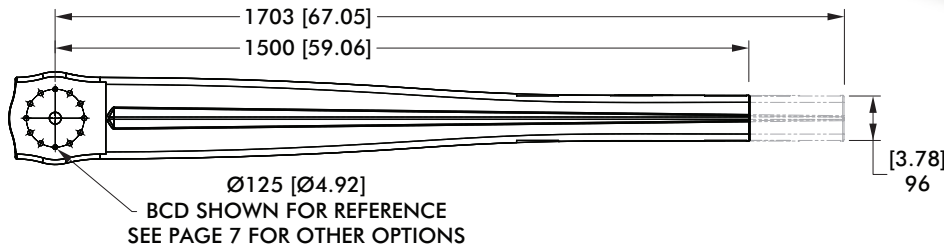
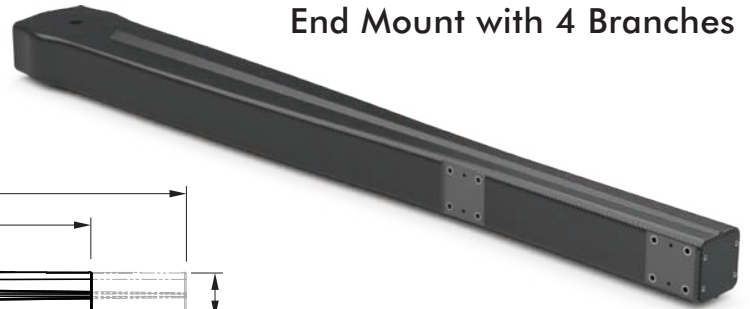
Description	Designation	Units	1094mm	1500mm	1703mm
# of RDN Mount Locations			2	2	2
Mass (Boom Only)	W	[lb] kg	[22.00] 9.98	[24.74] 11.22	[26.39] 11.97
Center of Mass Location	X-Axis	d _x	[14.31] 363.6	[19.41] 486.2	[21.78] 553.3
	Y-Axis	d _y	0	0	0
	Z-Axis	d _z	[-0.0437] -1.111	[-0.0435] -1.104	[-0.0407] -1.033
Moment of Inertia at Center of Gravity	L _{xx}		[1.0204] 0.043	[1.1153] 0.047	[1.1628] 0.049
	L _{yy}	[lb-ft ²] kg-m ²	[29.9477] 1.262	[60.9158] 2.567	[82.9613] 3.496
	L _{zz}		[29.5918] 1.247	[60.5599] 2.552	[82.6054] 3.481



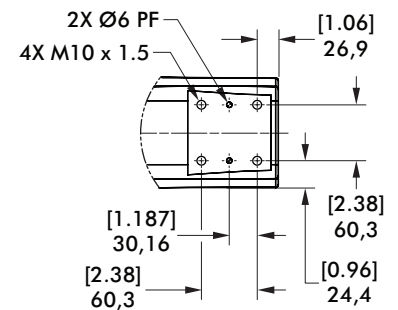
WORLD TOOL COMPOSITE BOOM - WTCB SERIES

Accelerate® Tooling Collection | Dimensions and Specifications

End Mount with 4 Branches



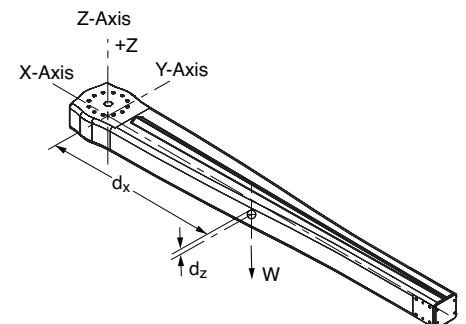
DETAIL C



Model No.	A	B	Length mm [in]	Weight* kg [lbs]
WTCB-TCXX-90T-1500-4R2T	608 [23.94]	1244 [48.98]	1500 [59.06]	11,80 [26.0]
WTCB-TCXX-90T-1703-4R2T	713 [28.07]	1447 [56.97]	1703 [67.05]	12,32 [27.2]

*Boom only.

Description	Designation	Units	1500mm	1703mm
# of RDN Mount Locations			4	4
Mass (Boom Only)	W	[lb] kg	[26.01] 11.8	[27.16] 12.32
Center of Mass Location	X-Axis	d_x	[19.94] 506.4	[22.63] 574.9
	Y-Axis	d_y	0	0
	Z-Axis	d_z	[-0.0428] -1.087	[-0.0306] -0.777
Moment of Inertia at Center of Gravity	L_{xx}		[1.1391] 0.048	[1.1865] 0.05
	L_{yy}	[lb-ft ²] kg-m ²	[63.8821] 2.692	[87.1853] 3.674
	L_{zz}		[63.5262] 2.677	[86.8294] 3.659

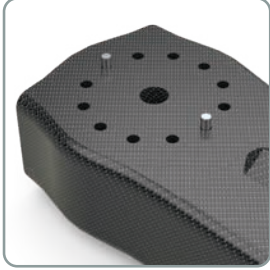


WORLD TOOL COMPOSITE BOOM - WTCB SERIES

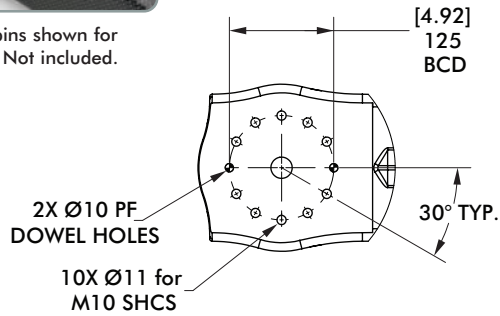
Accelerate® Tooling Collection | Dimensions

Robot or Tool Changer Mounting Patterns

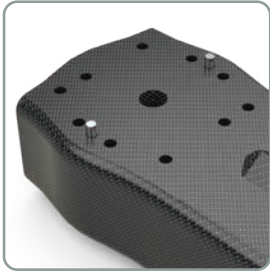
WTCB-TC01



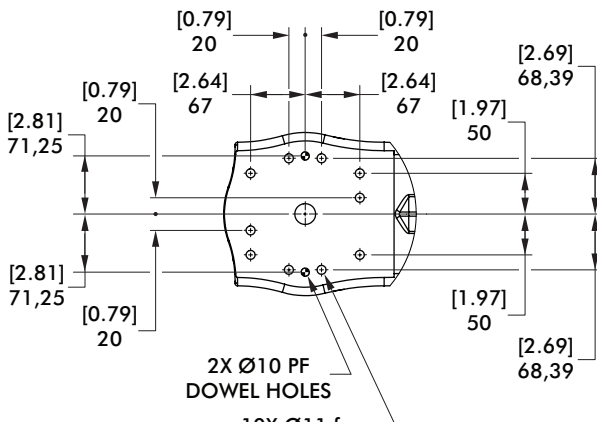
Dowels pins shown for location. Not included.



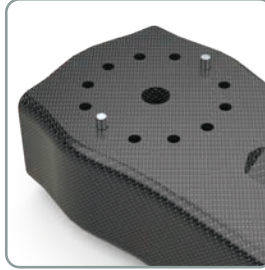
WTCB-TC02



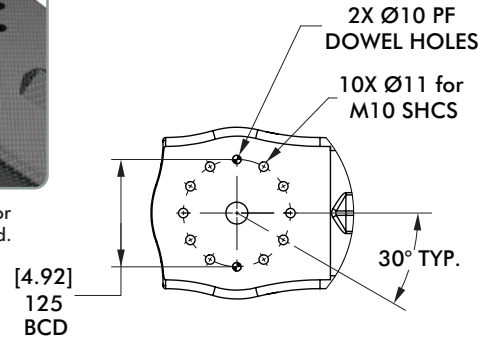
Dowels pins shown for location. Not included.



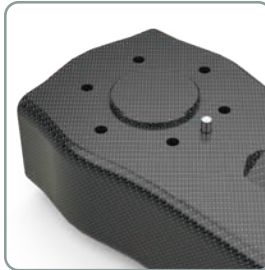
WTCB-TC03



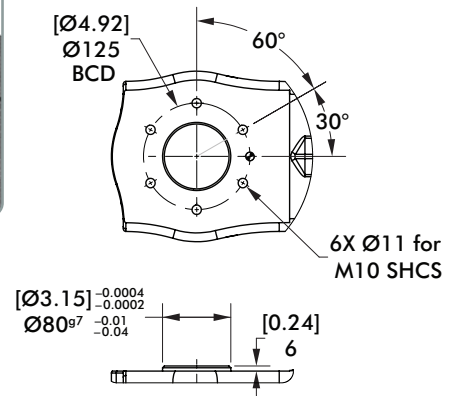
Dowels pins shown for location. Not included.



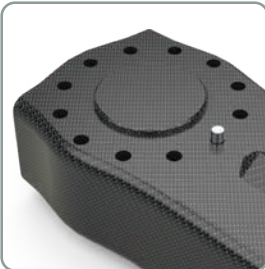
WTCB-TC04



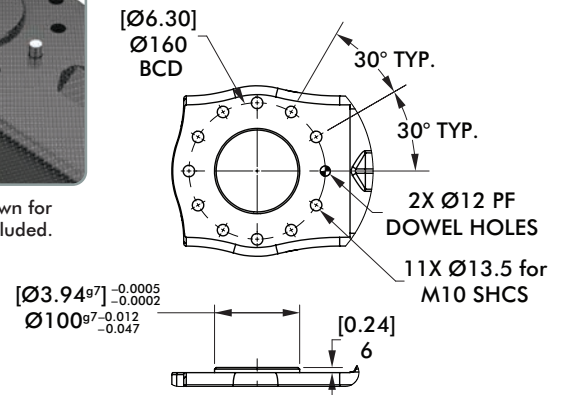
Dowels pins shown for location. Not included.



WTCB-TC05



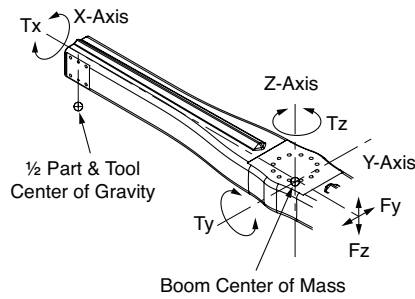
Dowels pins shown for location. Not included.



WORLD TOOL COMPOSITE BOOM - WTCB SERIES

Accelerate® Tooling Collection | Specifications

Center Mount Load Specifications (Max. Loads\Deflections)



CLICK OR SCAN

QR code to open engineering guide for detailed deflection information

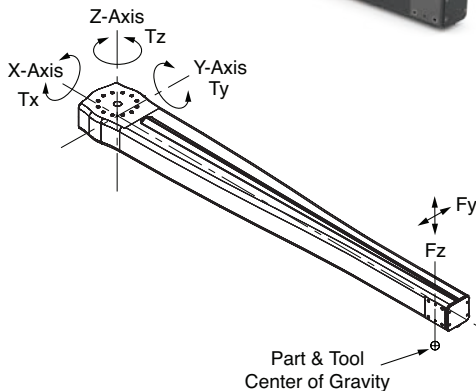


Description	Designation	Units	1000mm	1700mm	2400mm
Boom Maximum Shear Load	F _y	[lbs]	[541]	[494]	[446]
	F _z	N	2405	2196	1983
Static & Dynamic Moment Capacity about X-Axis	T _x	[in-lb]	[5310]	[4647]	[3983]
		Nm	600	525	450
End of Boom Twist @ Moment Capacity about X-Axis			0.8°	2°	2.6°
Static & Dynamic Moment Capacity about Y-Axis	T _y	[in-lb]	[7744]	[12612]	[16374]
		Nm	875	1425	1850
End of Boom Deflection @ Moment Capacity about Y-Axis		[in]	[0.02]	[0.09]	[0.24]
		mm	0.44	2.3	6.18
Static & Dynamic Moment Capacity about Z-Axis	T _z	[in-lb]	[9515]	[15489]	[20135]
		Nm	1075	1750	2275
End of Boom Deflection @ Moment Capacity about Z-Axis		[in]	[0.01]	[0.06]	[0.15]
		mm	0.27	1.41	3.79
Static & Dynamic Moment Capacity Combined about X-Axis plus Z-Axis	T _x	[in-lb]	[5310]	[4647]	[3983]
	T _z	Nm	600	525	450
End of Boom Deflection @ Combined Moment Capacity about X-Axis plus Z-Axis		[in]	[0.02]	[0.09]	[0.19]
		mm	0.51	2.3	4.92
Fatigue Life Testing		cycles		9,000,000	

Notes:

1. Load specifications and deflection for 1/2 of the boom
2. Load specifications include tool changers, hanger bracket part, tooling and miscellaneous components

End Mount Load Specifications (Max. Loads\Deflections)



CLICK OR SCAN

QR code to open engineering guide for detailed deflection information



Description	Designation	Units	1094mm	1500mm	1703mm
Boom Maximum Shear Load	F _y	[lbs]	[696]	[637]	[634]
	F _z	N	3098	2833	2818
Static & Dynamic Moment Capacity about X-Axis	T _x	[in-lb]	[7966]	[7966]	[7966]
		Nm	900	900	900
End of Boom Twist @ Moment Capacity about X-Axis			1.5°	3°	4°
Static & Dynamic Moment Capacity about Y-Axis	T _y	[in-lb]	[23676]	[30978]	[34960]
		Nm	2675	3500	3950
Deflection @ Moment Capacity about Y-Axis		[in]	[0.21]	[0.53]	[0.78]
		mm	5.34	13.5	19.8
Static & Dynamic Moment Capacity about Z-Axis	T _z	[in-lb]	[28544]	[36288]	[41156]
		Nm	3225	4100	4650
Deflection @ Moment Capacity about Z-Axis		[in]	[0.11]	[0.26]	[0.38]
		mm	2.7	6.63	9.77
Static & Dynamic Moment Capacity Combined about X-Axis plus Z-Axis	T _x	[in-lb]	[7966]	[7966]	[7966]
	T _z	Nm	900	900	900
Deflection @ Combined Moment Capacity about X-Axis plus Z-Axis		[in]	[0.12]	[0.34]	[0.47]
		mm	3.04	8.73	11.9
Fatigue Life Testing		cycles		9,000,000	

Notes:

1. Load specifications include mass of complimentary components and part & tooling weight

LIGHTWEIGHT TUBING

Accelerate® Tooling Collection | Boom/Tubing Sizes

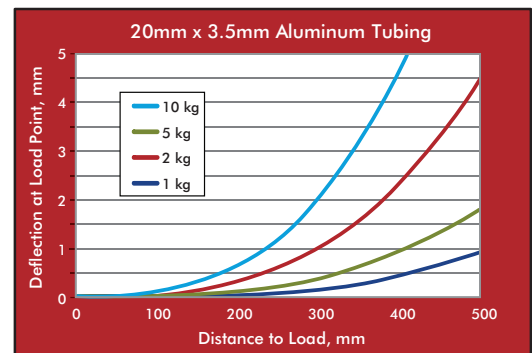
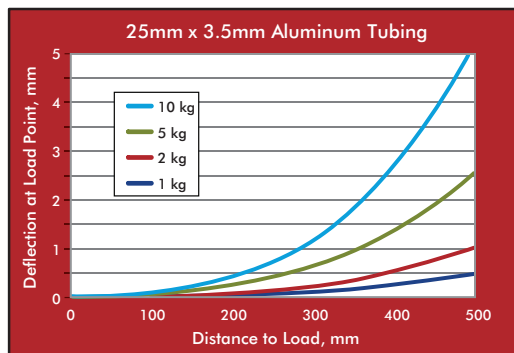
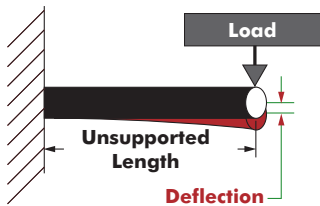
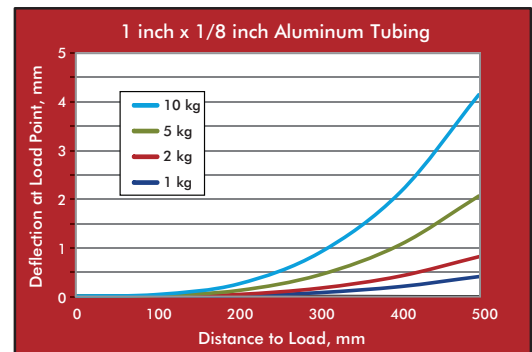
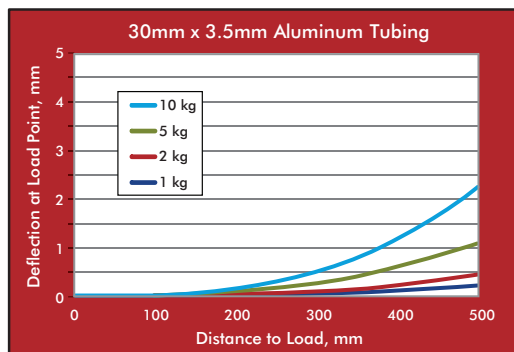
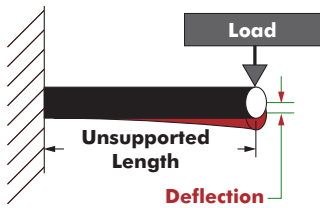
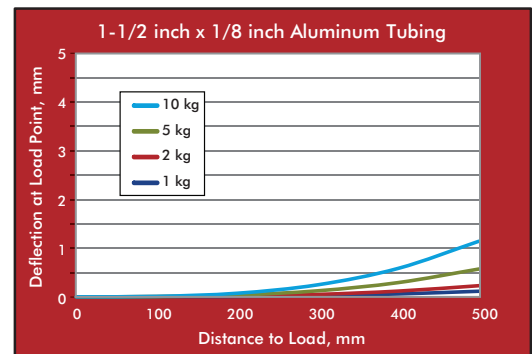
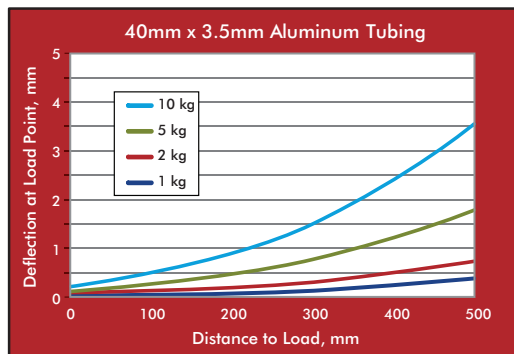
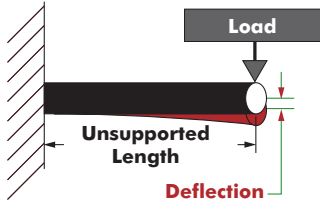
LWT Lightweight Boom/Tube
(3.5 mm or 0.125 in. Wall)



Model Number	(Ø)	Tolerance (mm)	Weight
LWT-40-1000	40mm	±0.14	1080g/m [0.73 lb/ft]
LWT-15E-1000	1.50 in	±0.14	920g/m [0.61 lb/ft]
LWT-30-1000	30mm	+0.08/-0.14	790g/m [0.53 lb/ft]
LWT-10E-1000	1.00 in	+0.05/-0.10	601g/m [0.41 lb/ft]
LWT-25-1000	25mm	+0.08/-0.14	640g/m [0.43 lb/ft]
LWT-20-1000	20mm	±0.08	490g/m [0.33 lb/ft]

Material: High Strength Aluminum

LWT Lightweight Boom Deflection Charts

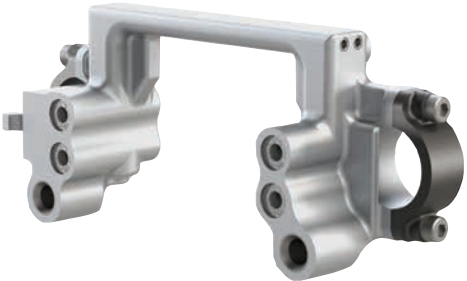
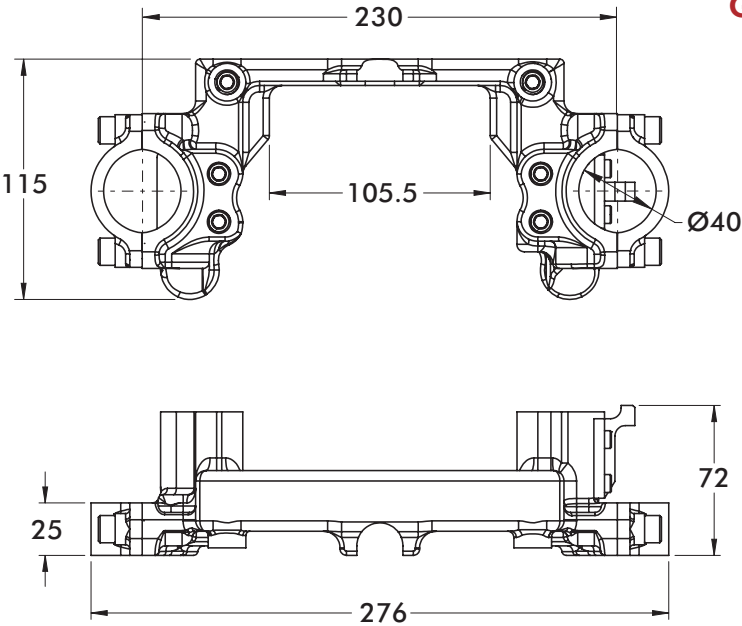


Note: Performance may vary if used with non-DESTACO components

ACCELERATE® TOOLING COLLECTION

Accelerate® Tooling Collection | Dimensions

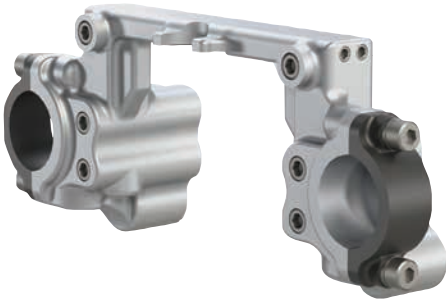
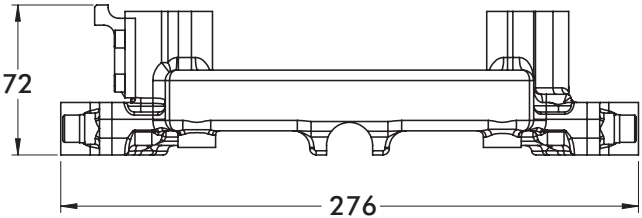
GRS-SD-40 Crossbar Saddle w/Air (Left Hand)



Material: High Strength Aluminum

Model Number	Weight
GRS-SD-40-LHS-A	938g [2.06 lb]

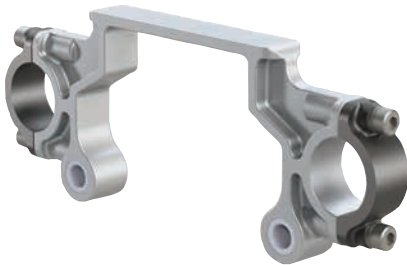
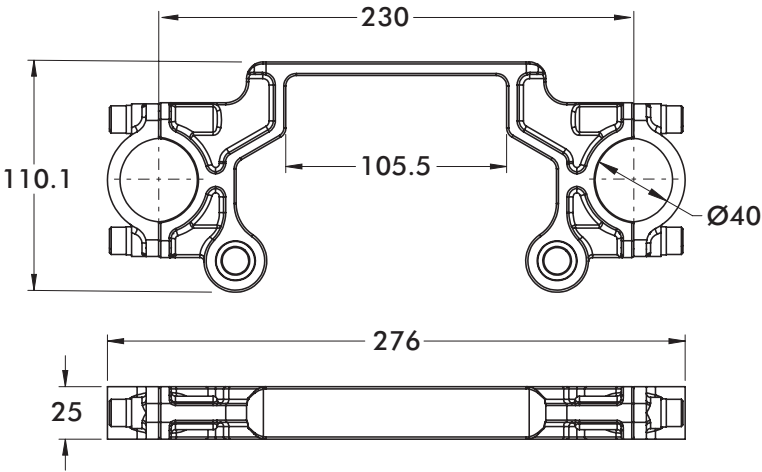
GRS-SD-40 Crossbar Saddle w/Air (Right Hand)



Material: High Strength Aluminum

Model Number	Weight
GRS-SD-40-RHS-A	938g [2.06 lb]

GRS-SD-40 Crossbar Saddle (Idle)



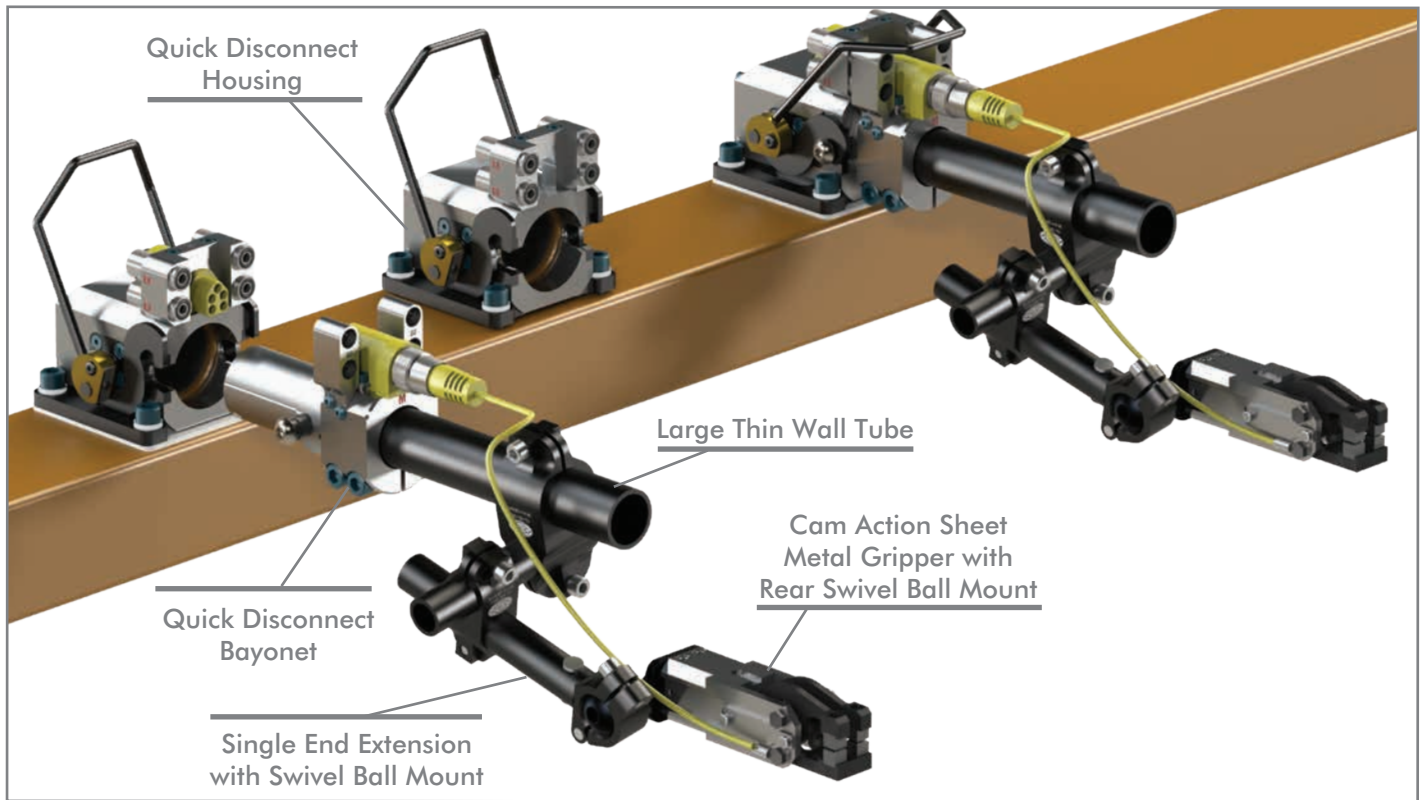
Material: High Strength Aluminum

Model Number	Weight
GRS-SD-40-NA-A	535g [1.18 lb]

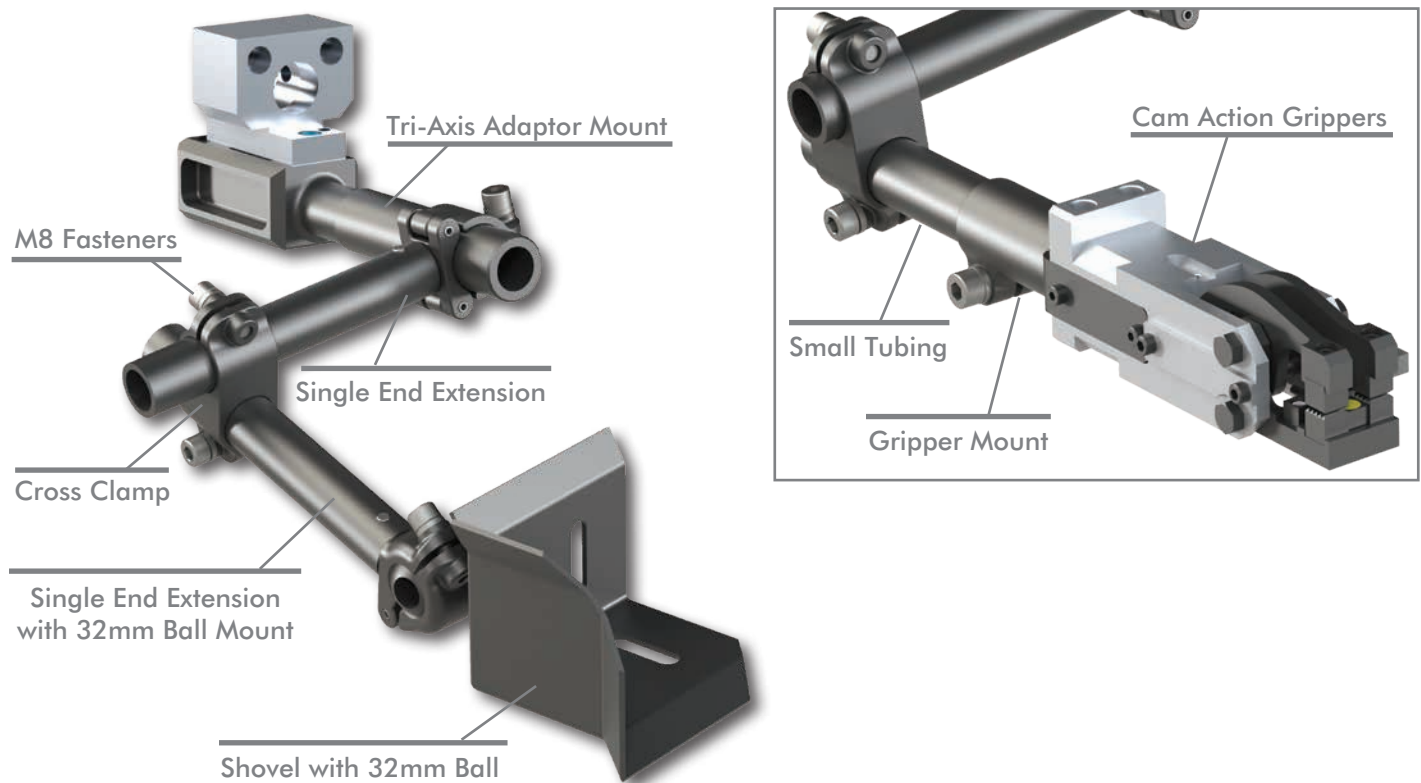
ACCELERATE® TOOLING COLLECTION

Accelerate® Tooling Collection | Tooling Examples

Tri-Axis Rail Tooling Example with Accelerate® Tooling



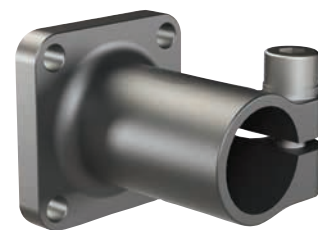
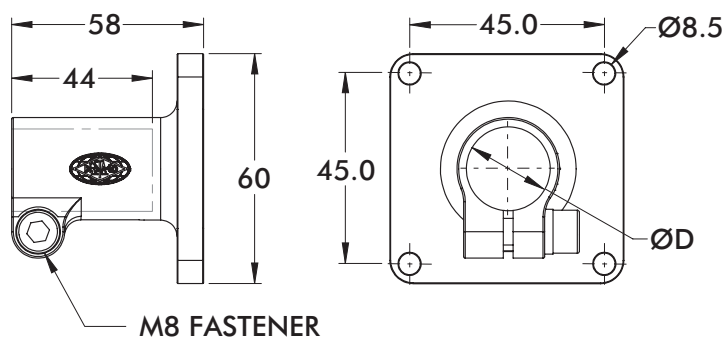
LWT Tri-Axis Tooling Example



TCF, TCA SERIES

Accelerate® Tooling Collection | Dimensions

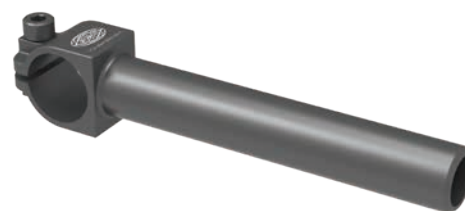
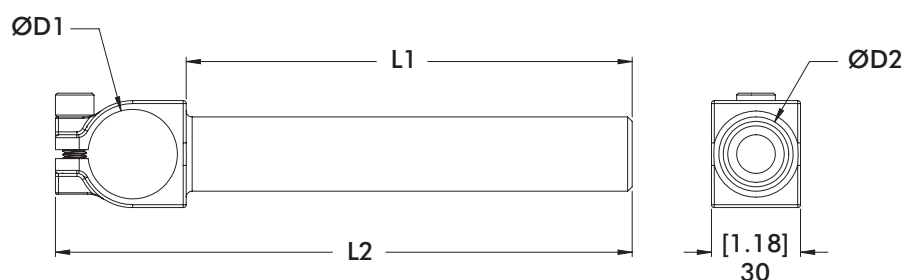
TCF Flange Mount Ø20 & Ø25mm



Material: High Strength Aluminum

Model Number	ØD	Weight
TCF-20M-A	20mm	121g [0.27 lb]
TCF-25M-A	25mm	98g [0.22 lb]

TCA T-Clamp Transition Brackets

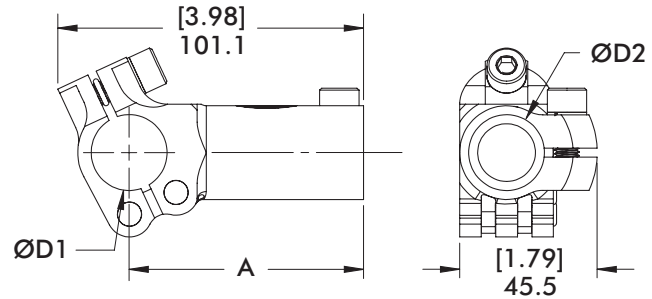


Model Number	ØD1	ØD2	L1	L2	Material	Weight
TCA-25M-25M-150-A	.98 [25]	.98 [25]	150 [5.91]	194 [7.64]	Aluminum	160g [0.35 lb]
TCA-30M-25M-150-A	1.19 [30]	.98 [25]	150 [5.91]	194 [7.64]	Aluminum	162g [0.36 lb]
TCA-20M-20M-400-A	.79 [20]	.79 [20]	400 [15.74]	438 [17.24]	Aluminum	239g [0.53 lb]
TCA-30M-30M-400-A	1.18 [30]	1.18 [30]	400 [15.74]	447 [17.60]	Aluminum	394g [0.87 lb]
TCA-20M-20M-400-S	.79 [20]	.79 [20]	400 [15.74]	438 [17.24]	Steel	384g [0.85 lb]
TCA-30M-30M-400-S	1.18 [30]	1.18 [30]	400 [15.74]	447 [17.60]	Steel	622g [1.37 lb]

TCLD SERIES

Accelerate® Tooling Collection | Dimensions

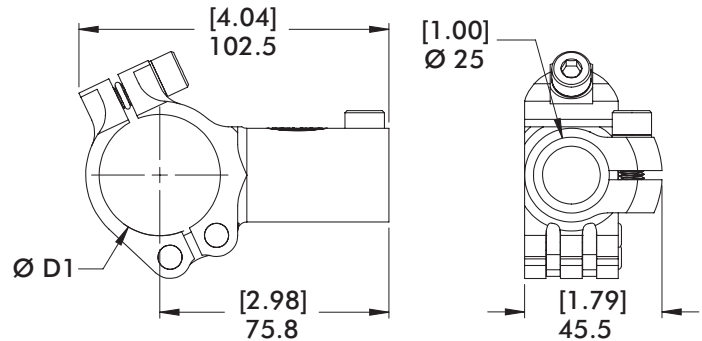
TCLD T-Clamp



Material: High Strength Aluminum

Model Number	ØD1	ØD2	A	B	Weight
TCLD-10E-10E-A	Ø1.00 in	Ø1.00 in	77.5 [3.05]	101.1 [3.98]	194g [0.43 lb]
TCLD-10E-25M-A	Ø1.00 in	Ø25mm	77.5 [3.05]	101.1 [3.98]	194g [0.43 lb]
TCLD-25M-25M-A	Ø25mm	Ø25mm	77.5 [3.05]	101.1 [3.98]	194g [0.43 lb]
TCLD-12E-10E-A	Ø1.25 in	Ø1.00 in	74.5 [2.93]	99.1 [3.90]	186g [0.41 lb]
TCLD-30M-25M-A	Ø30mm	Ø25mm	74.5 [2.93]	99.1 [3.90]	192g [0.42 lb]

TCLD T-Clamp



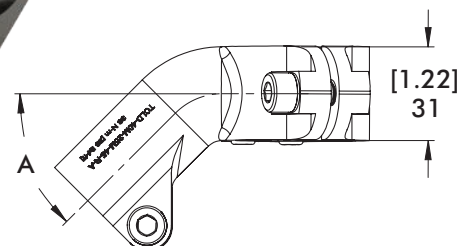
Material: High Strength Aluminum

Model Number	ØD1	ØD2	Weight
TCLD-15E-10E-A	Ø1.50 in	Ø1.00 in	193g [0.43 lb]
TCLD-40M-25M-A	Ø40mm	Ø25mm	191g [0.42 lb]

TCLD Angled T- Clamps

Material: High Strength Aluminum

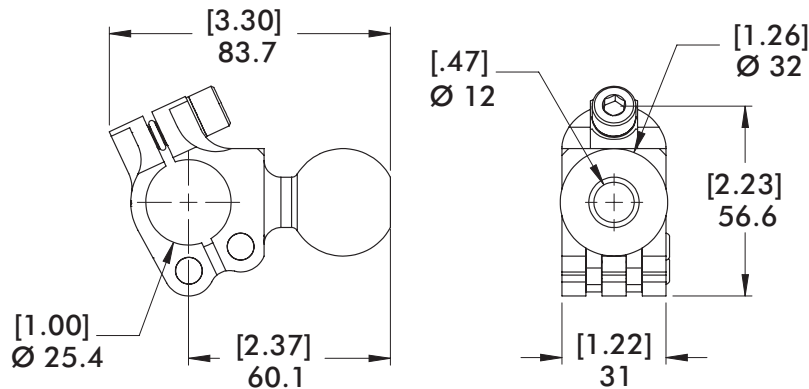
Model Number	A	Weight
TCLD-40M-20M-30-L-A	30°	225g [0.50 lb]
TCLD-40M-20M-30-R-A	30°	225g [0.50 lb]
TCLD-40M-20M-45-L-A	45°	230g [0.51 lb]
TCLD-40M-20M-45-R-A	45°	230g [0.51 lb]
TCLD-40M-25M-30-L-A	30°	201g [0.44 lb]
TCLD-40M-25M-30-R-A	30°	201g [0.44 lb]
TCLD-40M-25M-45-L-A	45°	206g [0.45 lb]
TCLD-40M-25M-45-R-A	45°	206g [0.45 lb]



TCL SERIES

Accelerate® Tooling Collection | Dimensions

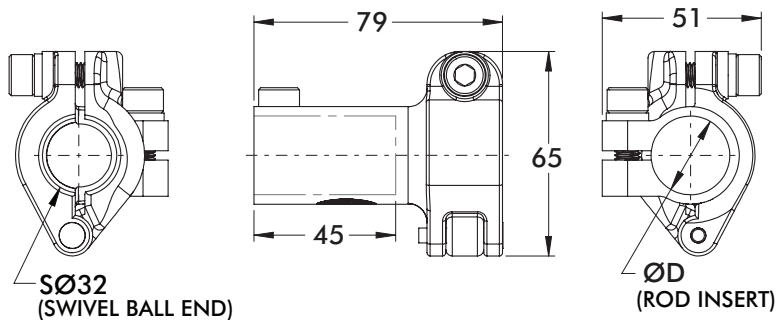
TCL Ball Clamps Ø32



Material: High Strength Aluminum

Model Number	Weight
TCLD-10E-32B-A	166g [0.37 lb]

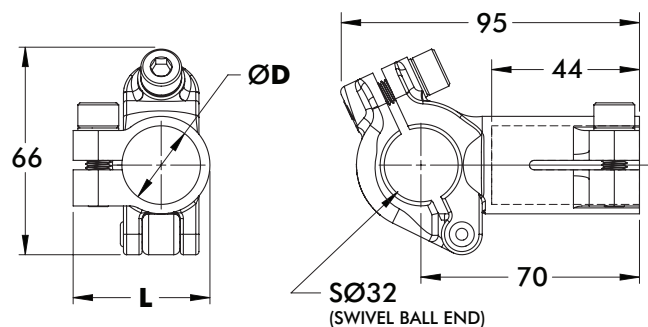
TCL Ø32 Ball to Ø25



Material: High Strength Aluminum

Model Number	ØD	Weight
TCL-32B-25M-90-A	Ø25	145g [0.32 lb]
TCL-32B-20M-90-A	Ø20	157g [0.35 lb]
TCL-32B-10E-90-A	1 in	157g [0.35 lb]

TCL Ø25mm/1 in to Ø32



Material: High Strength Aluminum

Model Number	ØD	Weight
TCL-25M-32B-A	Ø25	147g [0.32 lb]
TCL-20M-32B-A	Ø20	128g [0.28 lb]
TCL-10E-32B-A	1 in	141g [0.31 lb]

SEC SERIES

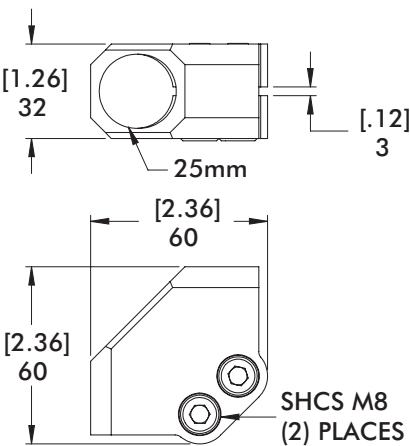
Accelerate® Tooling Collection | Dimensions

SEC Wrist Clamp



Material: Aluminum

Model Number	Weight
SEC-25M-25M-A	[0.10 lb] 47g

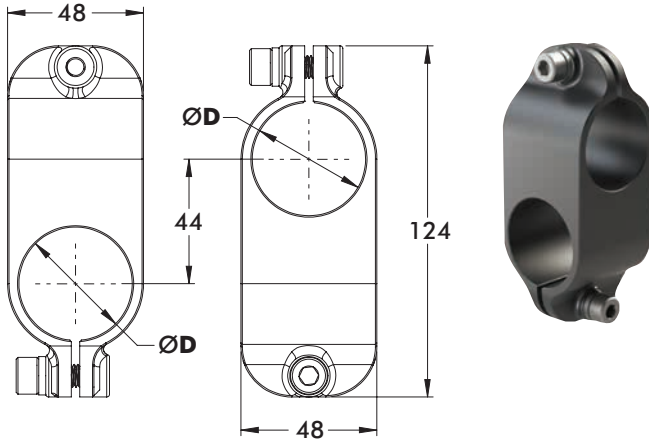


CL SERIES

Accelerate® Tooling Collection | Dimensions

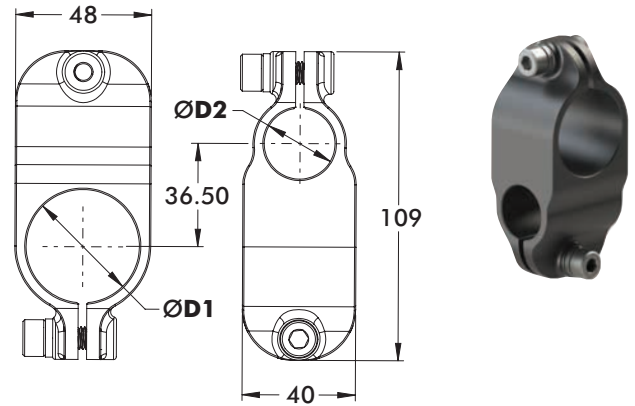
CL Cross Clamps

Material: High Strength Aluminum



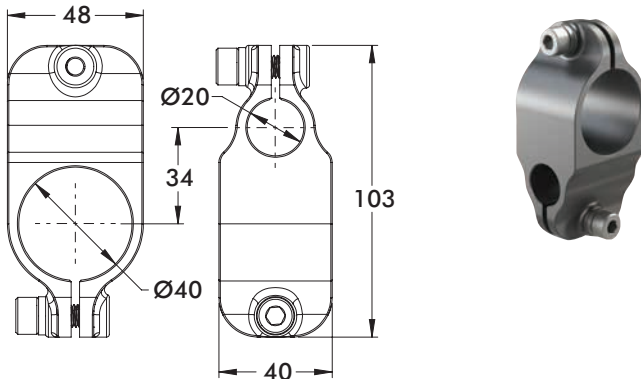
Ø40mm/1.50 in to Ø40mm/1.50 in Cross Clamp

Model Number	ØD	Weight
CL-40M-40M-A	40mm	233g [0.51 lb]
CL-15E-15E-A	1.50 in	283g [0.62 lb]



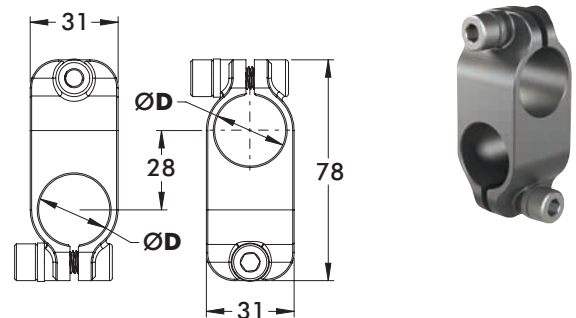
Ø40mm/1.50 in to Ø25mm/1.00 in Cross Clamp

Model Number	ØD1	ØD2	Weight
CL-40M-25M-A	40mm	25mm	214g [0.47 lb]
CL-15E-10E-A	1.50 in	1.00 in	223g [0.50 lb]



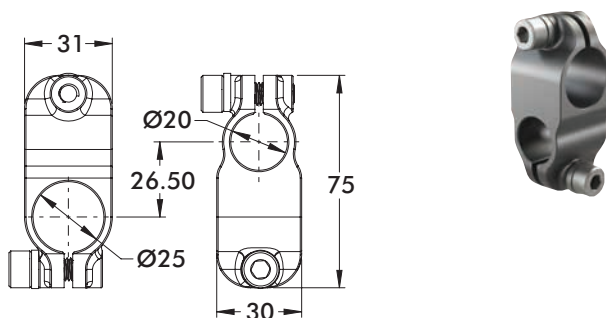
Ø40mm to Ø20mm Cross Clamp

Model Number	Weight
CL-40M-20M-A	202g [0.45 lb]



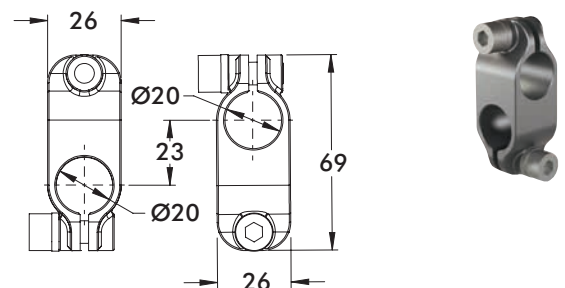
Ø25mm/1.00 in to Ø25mm/1.00 in Cross Clamp

Model Number	ØD	Weight
CL-25M-25M-A	25mm	102g [0.22 lb]
CL-10E-10E-A	1.00 in	105g [0.23 lb]



Ø25mm to Ø20mm Cross Clamp

Model Number	Weight
CL-25M-20M-A	98g [0.22 lb]



Ø20mm to Ø20mm Cross Clamp

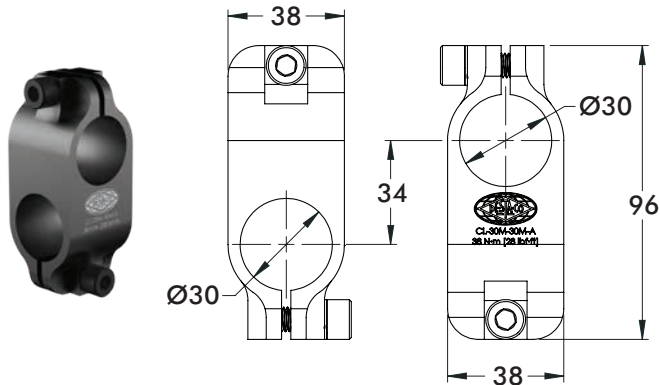
Model Number	Material	Weight
CL-20M-20M-A	Aluminum	52g [0.11 lb]
CL-20M-20M-S	Steel	178g [0.39 lb]

CL SERIES

Accelerate® Tooling Collection | Dimensions

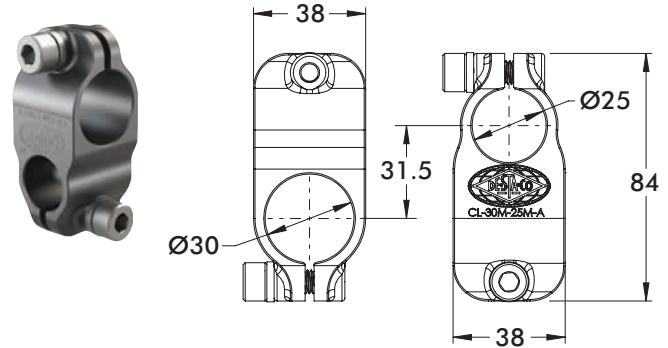
CL Cross Clamps

Material: High Strength Aluminum



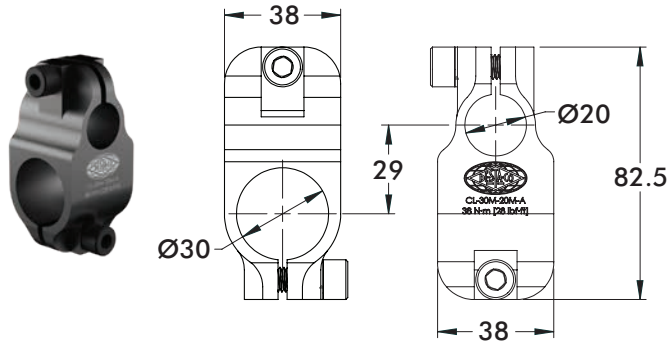
Ø30mm to Ø30mm Cross Clamp

Model Number	Material	Weight
CL-30M-30M-A	Aluminum	200g [0.44 lb]
CL-30M-30M-S	Steel	415g [0.91 lb]



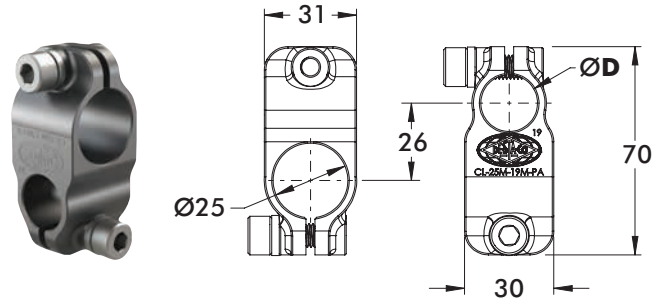
Ø30mm to Ø25mm Cross Clamp

Model Number	Weight
CL-30M-25M-A	148g [0.33 lb]



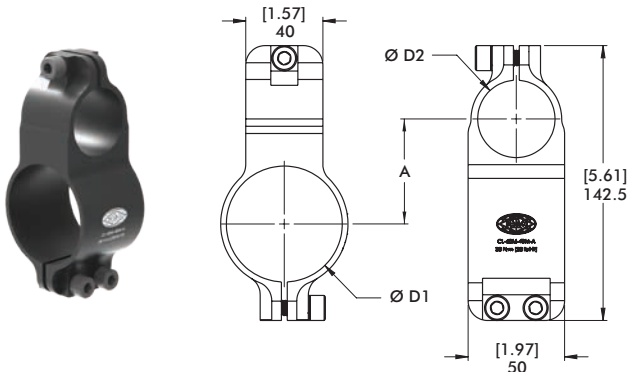
Ø30mm to Ø20mm Cross Clamp

Model Number	Weight
CL-30M-20M-A	125g [0.28 lb]



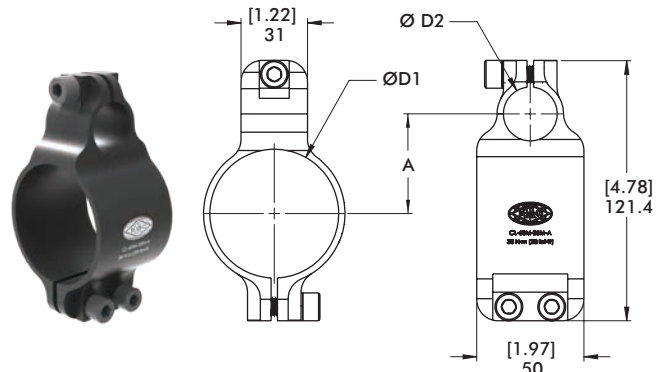
Ø25mm to Apple Core Cross Clamp

Model Number	ØD	Weight
CL-25M-19M-PA-A	19	95g [0.21 lb]
CL-25M-20M-PA-A	20	94g [0.21 lb]



Ø60mm/2.50 in to Ø40mm/1.50 in Cross Clamp

Model Number	ØD1 mm [in]	ØD2 mm [in]	A mm [in]	Weight g [lb]
CL-60M-40M-A	60	40	54,5	276 [0.61]
CL-25E-15E-A	[2.50]	[1.50]	[2.13]	271 [0.60]



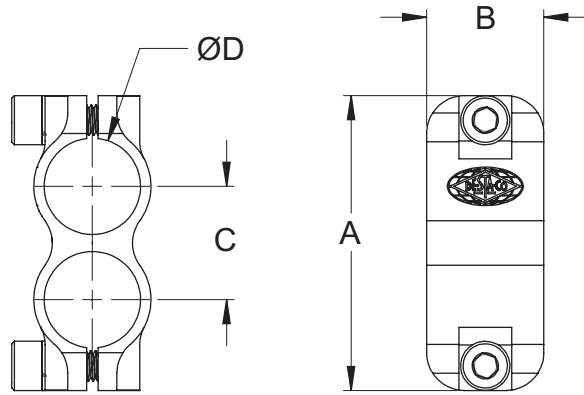
Ø60mm/2.50 in to Ø25mm/1.00 in Cross Clamp

Model Number	ØD1 mm [in]	ØD2 mm [in]	A mm [in]	Weight g [lb]
CL-60M-25M-A	60	25	46,5	220 [0.49]
CL-25E-10E-A	[2.50]	[1.00]	[1.91]	228 [0.50]

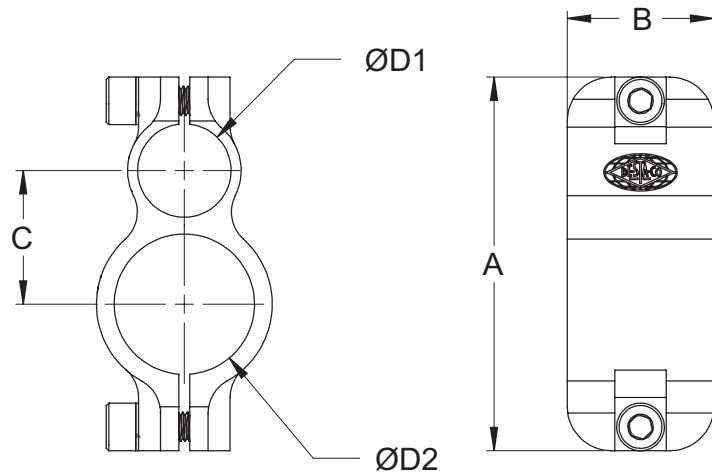
PC SERIES

Accelerate® Tooling Collection | Dimensions

PC Parallel Clamps



Model Number	A	B	C	ØD	Material	Weight
PC-10E-10E-A	[3.07] 78	[1.22] 31	[1.18] 30	[1.00] 25.4	Aluminum	[0.21 lb] 95g
PC-20M-20M-A	[2.72] 69	[1.02] 26	[0.91] 23	[0.79] 20	Aluminum	[0.18 lb] 83g
PC-20M-20M-S	[2.72] 69	[1.02] 26	[0.91] 23	[0.79] 20	Steel	[0.39 lb] 177g
PC-25M-25M-A	[3.07] 78	[1.22] 31	[1.18] 30	[1.00] 25.4	Aluminum	[0.21 lb] 93g
PC-30M-30M-A	[3.86] 98	[1.50] 38	[1.34] 34	[1.18] 30	Aluminum	[0.34 lb] 155g
PC-30M-30M-S	[3.86] 98	[1.50] 38	[1.34] 34	[1.18] 30	Steel	[0.83 lb] 378g

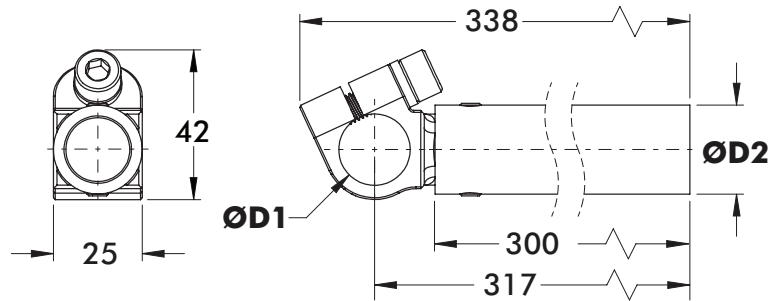


Model Number	A	B	C	ØD1	ØD2	Weight
PC-15E-10E-A	[4.02] 102	[1.57] 40	[1.44] 36.5	[1.00] 25.4	[1.50] 38.1	169g [0.37 lb]
PC-30M-20M-A	[3.29] 83.5	[1.5] 38	[1.12] 28.5	[0.79] 20	[1.18] 30	129g [0.28 lb]
PC-30M-25M-A	[3.52] 89.5	[1.5] 38	[1.24] 31.5	[0.98] 25	[1.18] 30	136g [0.30 lb]
PC-40M-25M-A	[4.02] 102	[1.57] 40	[1.44] 36.5	[0.98] 25	[1.57] 40	158g [0.35 lb]

ES SERIES

Accelerate® Tooling Collection | Dimensions

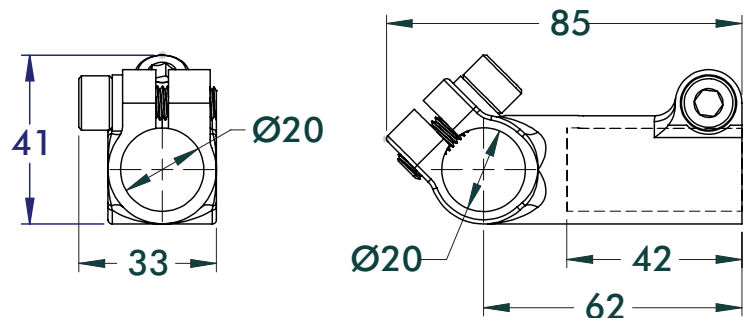
ES Single End Extensions



Material: High Strength Aluminum

Model Number	ØD1	ØD2	Weight
ES-20M-25M-300-A	20mm	25mm	250g [0.55 lb]
ES-19M-25M-300-A	19mm	25mm	250g [0.55 lb]
ES-19M-10E-300-A	19mm	1.00 in	269g [0.59 lb]

ES Ø20 to Ø20

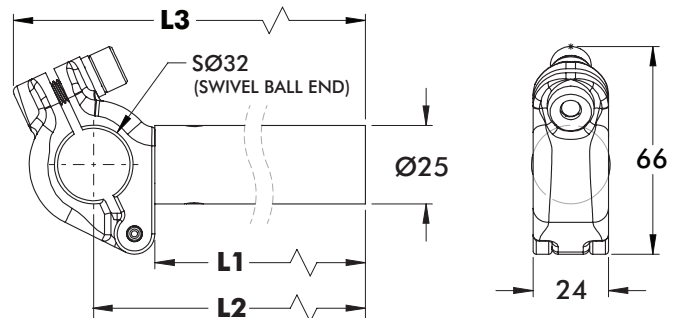


Material: High Strength Aluminum

Model Number	Weight
ES-20M-20M-A	100g [0.22 lb]

Ball Extensions

ES 32mm



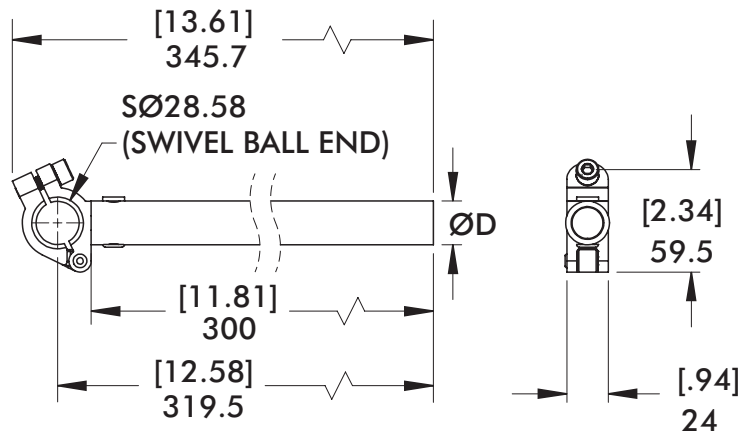
Material: High Strength Aluminum

Model Number	L1	L2	L3	Weight
ES-32B-10E-300-A	300	320	345	277g [0.61 lb]
ES-32B-20M-300-A	300	320	345	225g [0.50 lb]
ES-32B-25M-300-A	300	320	345	262g [0.56 lb]
ES-32B-25M-600-A	600	620	645	437g [0.96 lb]

ES, ESS SERIES

Accelerate® Tooling Collection | Dimensions

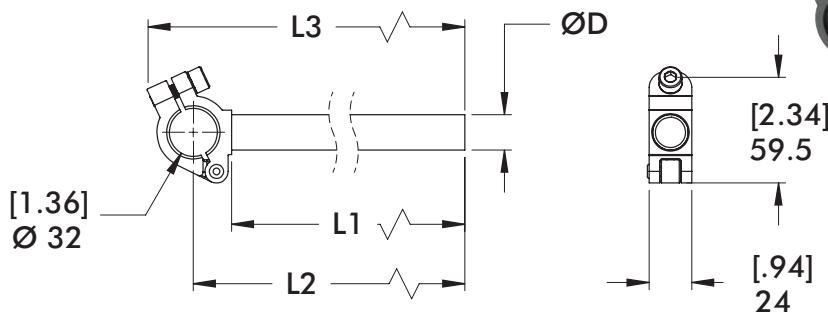
ES Ball Extension 28.58mm



Material: High Strength Aluminum

Model Number	$\varnothing D$	Weight
ES-B112-25M-300-A	$[\text{.98}]$ 25	$[\text{0.67 lb}]$ 302g
ES-B112-10E-300-A	$[\text{1.00}]$ 25.4	$[\text{0.67 lb}]$ 302g

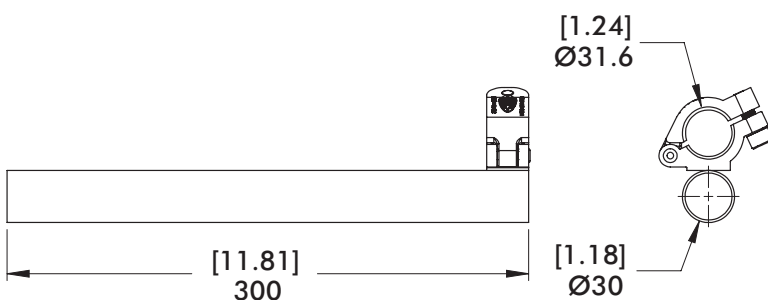
ESS Ball Extension 32mm



Material: Steel

Model Number	$\varnothing D$	L1	L2	L3	Weight
ESS-32B-20M-300-S	20 $[\text{.79}]$	298 $[\text{11.73}]$	319.5 $[\text{12.58}]$	345 $[\text{13.58}]$	410g $[\text{0.90 lb}]$
ESS-32B-20M-600-S	20 $[\text{.79}]$	598 $[\text{23.54}]$	598 $[\text{23.54}]$	645 $[\text{25.39}]$	674g $[\text{1.48 lb}]$
ESS-32B-30M-300-S	30 $[\text{1.18}]$	298 $[\text{11.73}]$	319.5 $[\text{12.58}]$	345 $[\text{13.58}]$	516g $[\text{1.14 lb}]$
ESS-32B-30M-600-S	30 $[\text{1.18}]$	598 $[\text{23.54}]$	598 $[\text{23.54}]$	645 $[\text{25.39}]$	830g $[\text{1.83 lb}]$

ESS-90 Ball Extension 32mm



Model Number	$\varnothing D$	Weight
ESS-32B-30M-90-300-S	30 $[\text{1.18}]$	518.4g $[\text{1.14 lb}]$

ACCELERATE® SPRING-LOADED CUP MOUNTS

Accelerate® Tooling Collection | Dimensions

LW-SCM Accelerate Spring-Loaded Cup Mounts

Features:

- Lightweight & compact design
- Bulkhead, apple core mounting
- Metric or imperial tube mounting
- Three travel lengths
- Non-rotating shaft for accurate part/sheet placement
- NPT or G mounting threads and vacuum ports

Benefits:

- Lightweight design offers increased productivity
- Hard-coat anodized with teflon for smooth operation and reduced wear
- Maintenance-free bushings for long life



Note: To be used in vertical orientations only.

Bulkhead Style
LW-SCM(B)



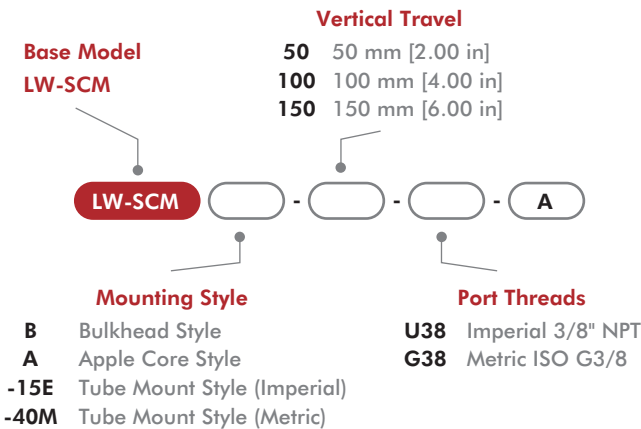
Apple Core Style
LW-SCM(A)



Clamp Style
LW-SCM(-40M/-15E)



Travel Length
LW-SCM(X)-"T"

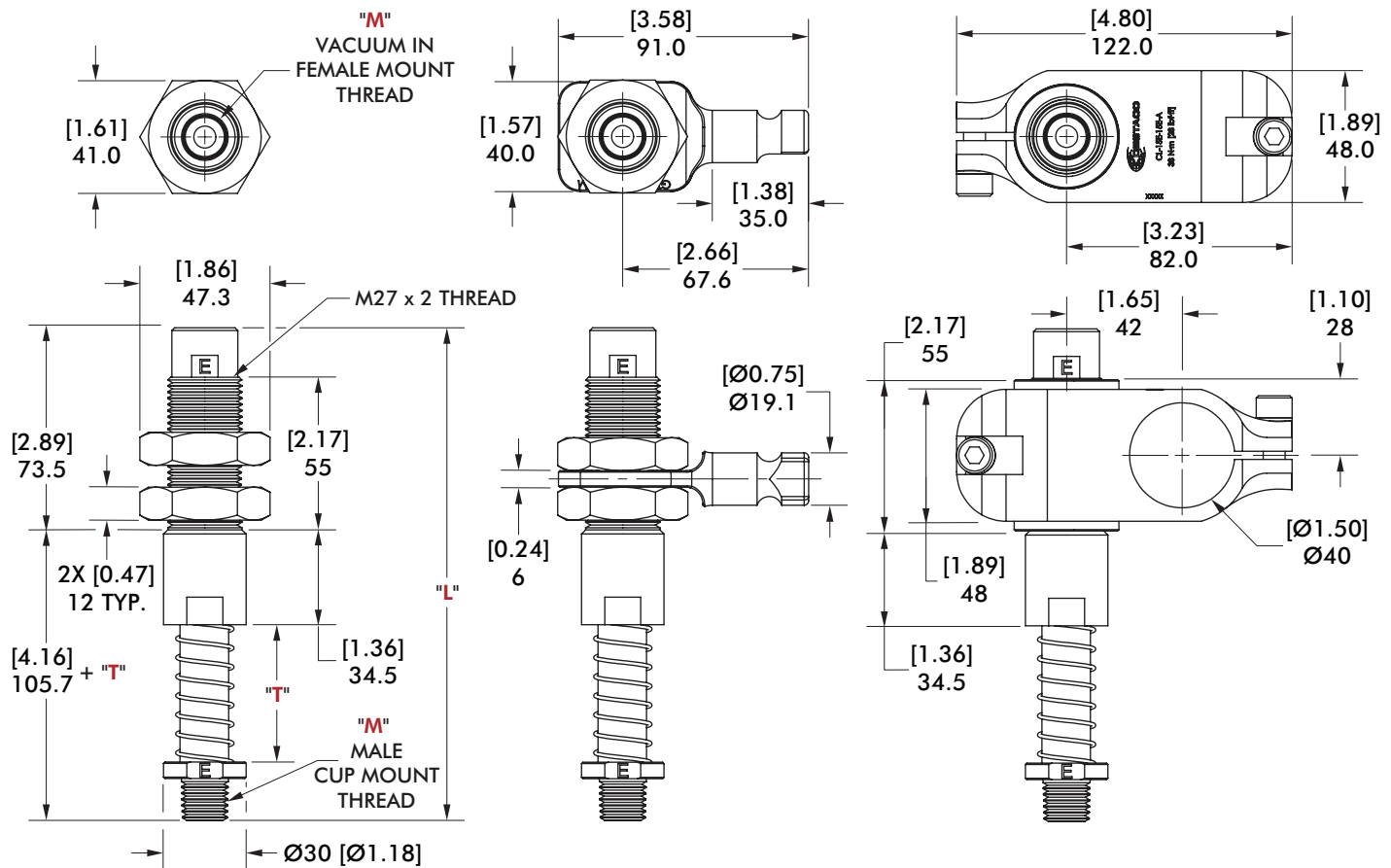


ACCELERATE® SPRING-LOADED CUP MOUNTS

Accelerate® Tooling Collection | Dimensions

LW-SCM Bulkhead/Apple Core/Tube Mounting

Note: To be used in vertical orientations only.



LW-SCM(B)
Bulkhead Style

Travel [mm]	Weight kg [lb]
50	0.35 [0.77]
100	0.38 [0.84]
150	0.41 [0.90]

LW-SCM(A)
Apple Core Style

Travel [mm]	Weight kg [lb]
50	0.40 [0.88]
100	0.43 [0.95]
150	0.46 [1.01]

LW-SCM(-40M/-15E)
Tube Mount Style

Travel [mm]	Weight kg [lb]
50	0.57 [1.26]
100	0.60 [1.32]
150	0.63 [1.39]

LW-SCM Travel, Length, and Port Threads - LW-SCM("X")-"T"- "M"-A

Version	Vertical Travel "T"	L	"M"	Spring Force (compressed)
 Imperial	-50 (2.00 in)	176 mm [6.93 in]	U38 (3/8" NPT)	17.8 N [4.0 lbs]
	-100 (4.00 in)	226 mm [8.90 in]		25.7 N [6.0 lbs]
	-150 (6.00 in)	276 mm [10.87 in]		28.9 N [6.5 lbs]
 Metric	-50 (50 mm)	179.25 mm [7.06 in]	G38 (ISO G3/8)	17.8 N [4.0 lbs]
	-100 (100 mm)	229.25 mm [9.03 in]		25.7 N [6.0 lbs]
	-150 (150 mm)	279.25 mm [10.99 in]		28.9 N [6.5 lbs]

GTA, LPT SERIES

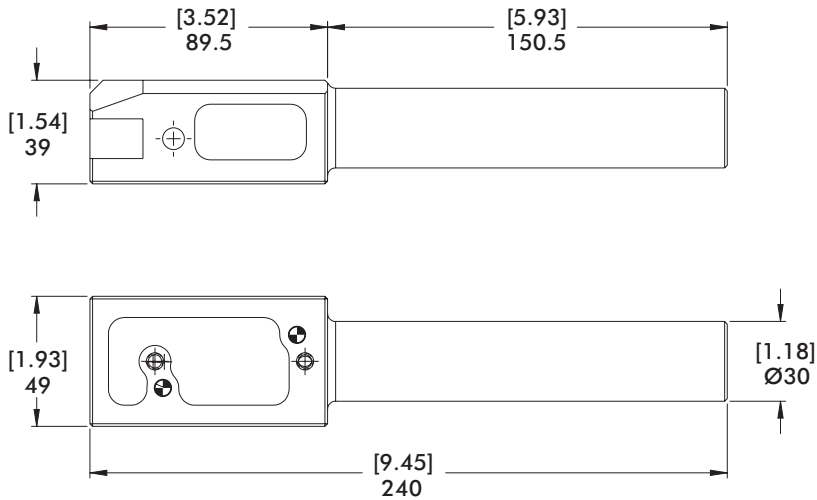
Accelerate® Tooling Collection | Dimensions

GTA - Tri Axis Adaptor Mounts

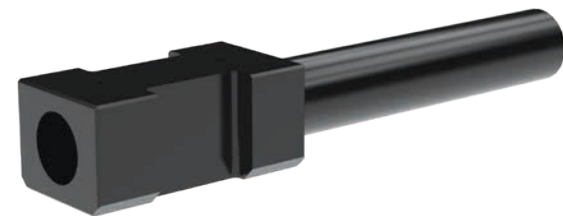


Material: High Strength Aluminum

Model Number	Weight
GTA-30-150	412g [0.91 lb]

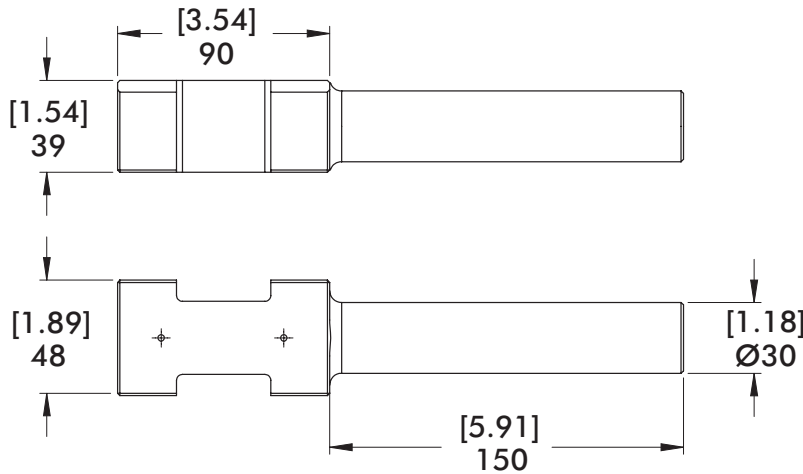


GTA



Material: High Strength Aluminum

Model Number	Weight
GTA-30-LTP	499g [1.10 lb]

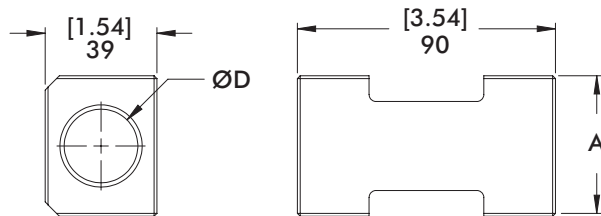


LTP



Material: Steel

Model Number	A	ØD	Weight
CPI-LTP-B-10	48 [1.89]	25.4 [1.00]	771g [1.70 lb]
CPI-LTP-B-11	49 [1.93]	27.3 [1.07]	726g [1.60 lb]



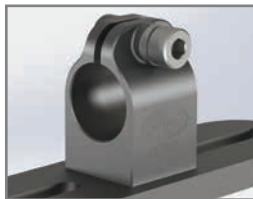
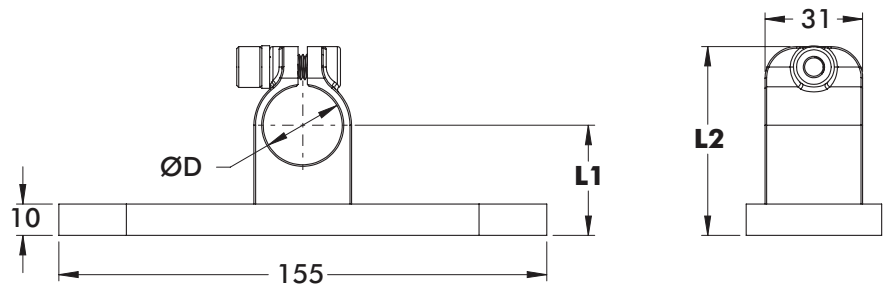
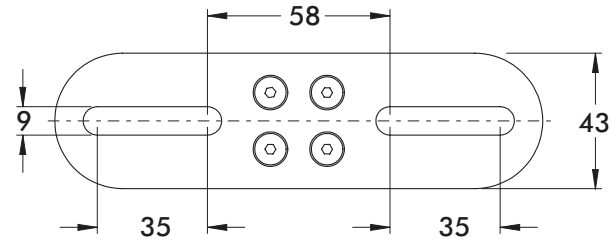
TPA SERIES

Accelerate® Tooling Collection | Dimensions

TPA Single Flange Mount



TPA-30-35



Configured 90°

Material: High Strength Aluminum

Model Number	L1	L2	ØD	Weight
TPA-20-35-LWT-A	35	60	20	234g [0.52 lb]
TPA-25-35-LWT-A	35	60	25	246g [0.54 lb]
TPA-25-65-LWT-A	63	88	25	322g [0.71 lb]
TPA-30-35-LWT-A	35	67	30	265g [0.58 lb]
TPA-30-65-LWT-A	63	95	30	361g [0.80 lb]

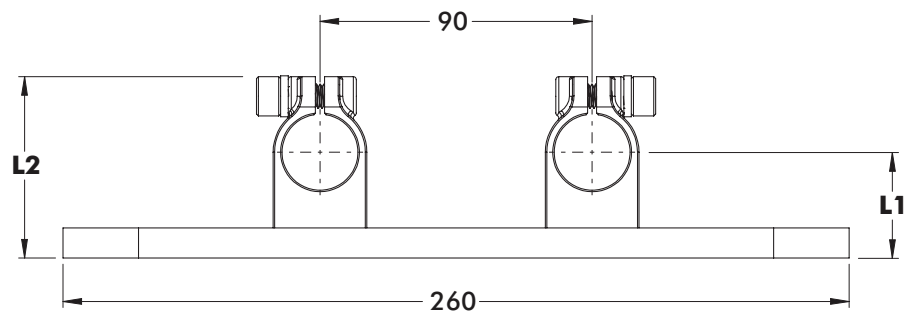
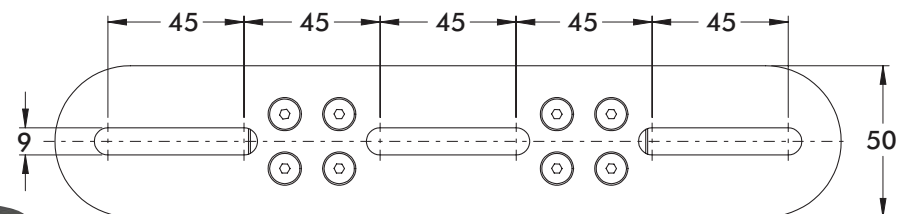
TPA Double Flange Mount



Material: High Strength Aluminum



Configured 90°



Model Number	L1	L2	Weight
TPA-25-25-65-LWT-A	65	88	644g [1.42 lb]

TPA SERIES

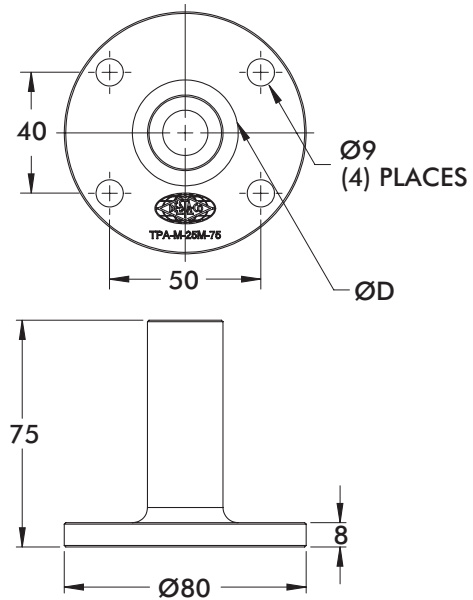
Accelerate® Tooling Collection | Dimensions

TPA Base Mount



Material: High Strength Aluminum

Model Number	ØD	Weight
TPA-M-20M-75	20mm	151g [0.33 lb]
TPA-M-25M-75	25mm	164g [0.36 lb]

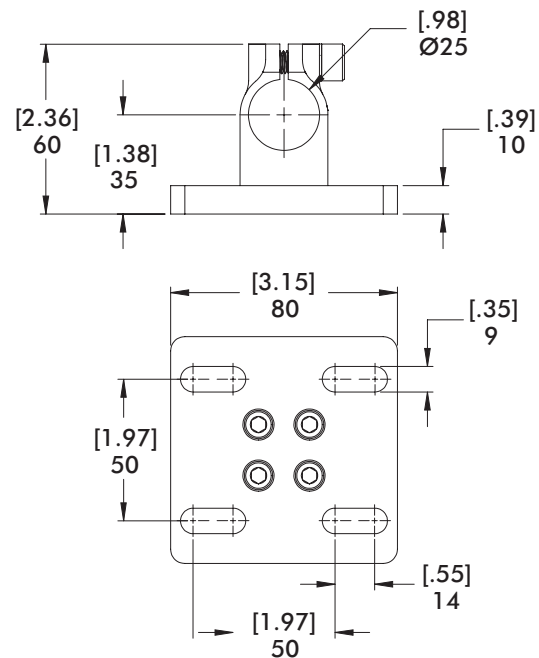


TPA 90° Base Clamp



Material: High Strength Aluminum

Model Number	Weight
TPA-G-25-35-A	258g [0.57 lb]

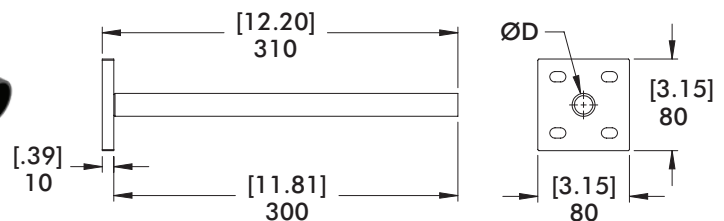


TPA Flange Extension



Material: Steel

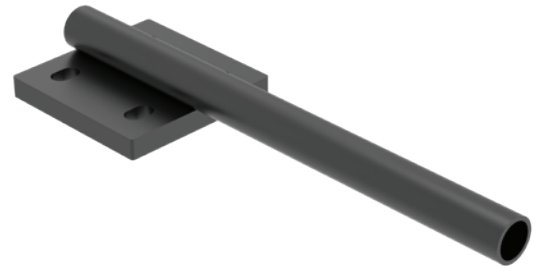
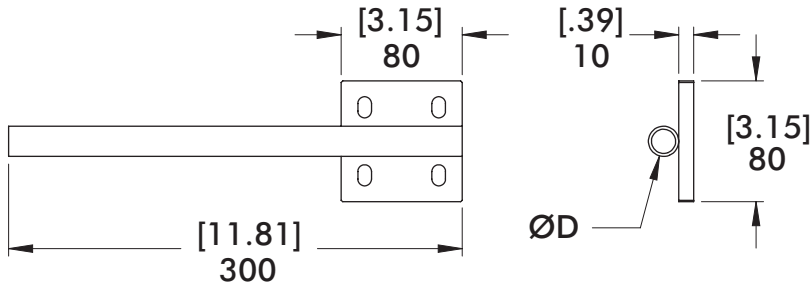
Model Number	ØD	Weight
TPA-00-20-300-GD	20mm	736g [1.62 lb]
TPA-00-25-300-GD	25mm	810g [1.79 lb]
TPA-00-30-300-GD	30mm	884g [1.95 lb]



TPA, TBS SERIES

Accelerate® Tooling Collection | Dimensions

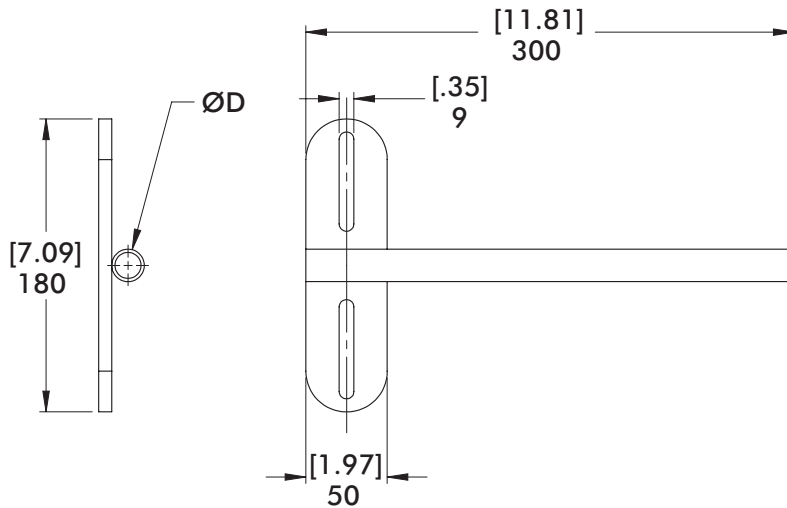
TPA 90° Slotted Flange Extension



Material: Steel

Model Number	ØD	Weight
TPA-90-20-300-GD	20mm	736g [1.62 lb]
TPA-90-25-300-GD	25mm	810g [1.79 lb]
TPA-90-30-300-GD	30mm	884g [1.95 lb]

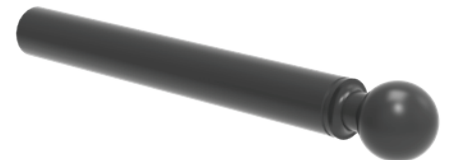
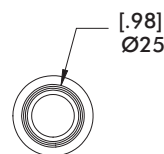
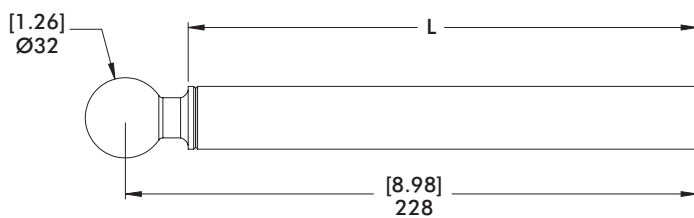
TPA 90° Slotted Flange Extension



Material: Steel

Model Number	ØD	Weight
TPA-90-20-300	20mm	733g [1.62 lb]
TPA-90-25-300	25mm	807g [1.78 lb]
TPA-90-30-300	30mm	881g [1.94 lb]

TBS Ball Extension



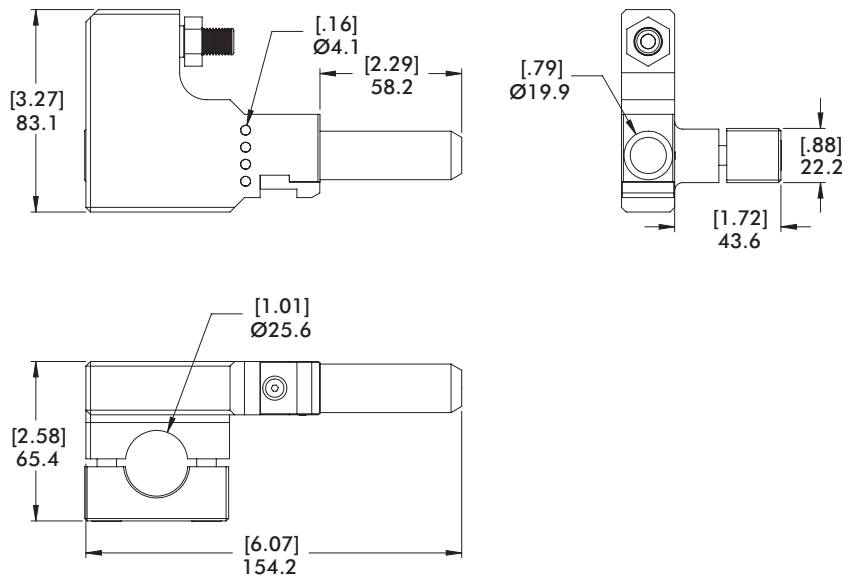
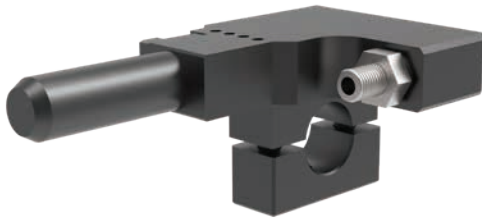
Material: Steel

Model Number	L	Weight
TBS-32B-25M-200-A	[7.87] 200	[0.75 lb] 339g
TBS-32B-25M-300-A	[11.81] 300	[1.43 lb] 648g

TPB, 1T SERIES

Accelerate® Tooling Collection | Dimensions

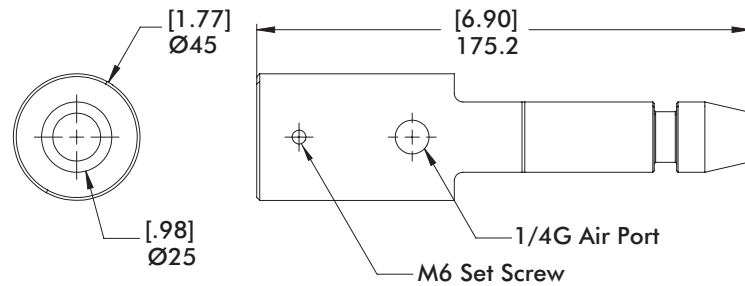
TPB - Transfer Press Bayonet



Material: Steel

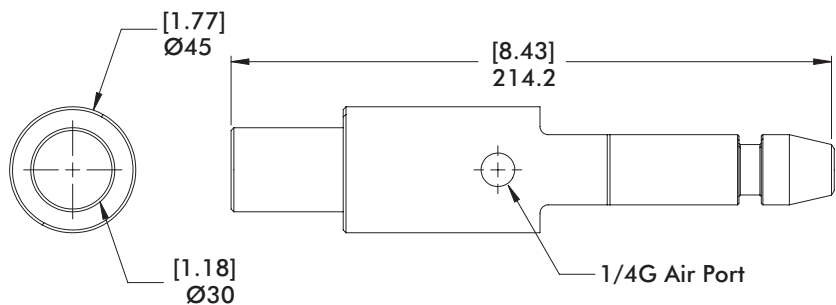
Model Number	Weight
CPI-TPB-HYU-10-1A-ST	734g [1.62 lb]

1T - One Touch Finger Tool 25mm



Model Number	Material	Weight
CPI-1T-25F	Steel	1.05kg [2.31 lb]
CPI-1T-25F-A	Aluminum	0.36kg [0.79 lb]

1T - One Touch Finger Tool 40mm

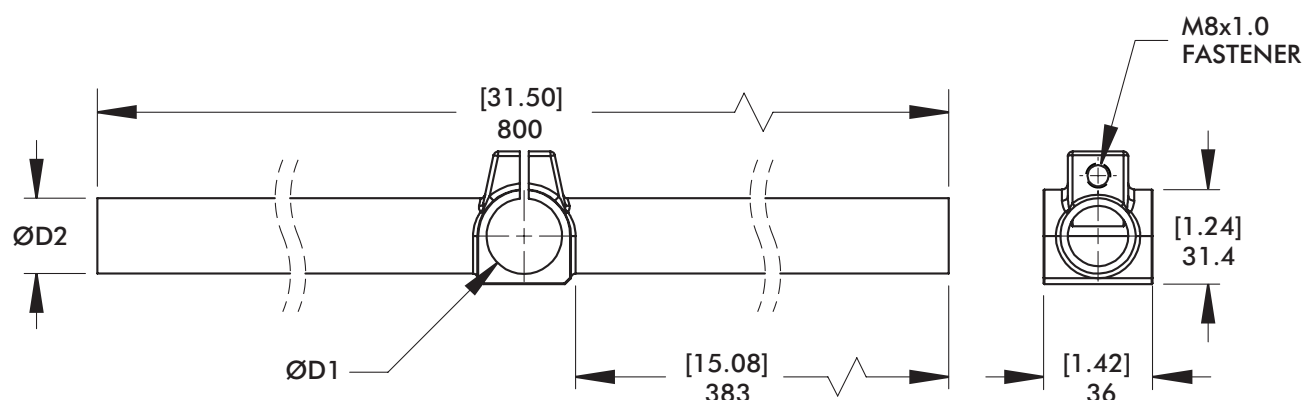


Model Number	Material	Weight
CPI-1T-33M	Steel	1.42kg [3.13 lb]
CPI-1T-33M-A	Aluminum	0.49kg [1.08 lb]

LPT SERIES

Accelerate® Tooling Collection | Dimensions

LTP Double T-Clamp



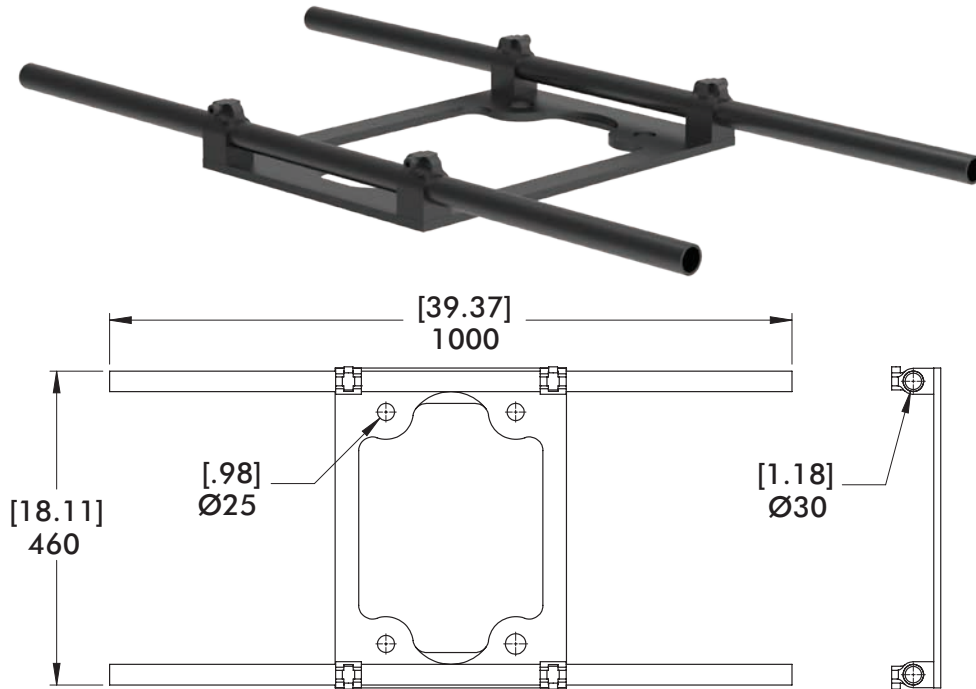
Material: Steel

Model Number	$\varnothing D1$	$\varnothing D2$	Weight
TCA-20M-20MD-400-A	20mm	20mm	974.7g [2.15 lb]
TCA-25M-20MD-400-A	25mm	20mm	1001.8g [2.21 lb]
TCA-25M-25MD-400-A	25mm	25mm	1245.3g [2.75 lb]
TCA-30M-30MD-400-A	30mm	30mm	1546.6g [3.41 lb]

LTP SERIES

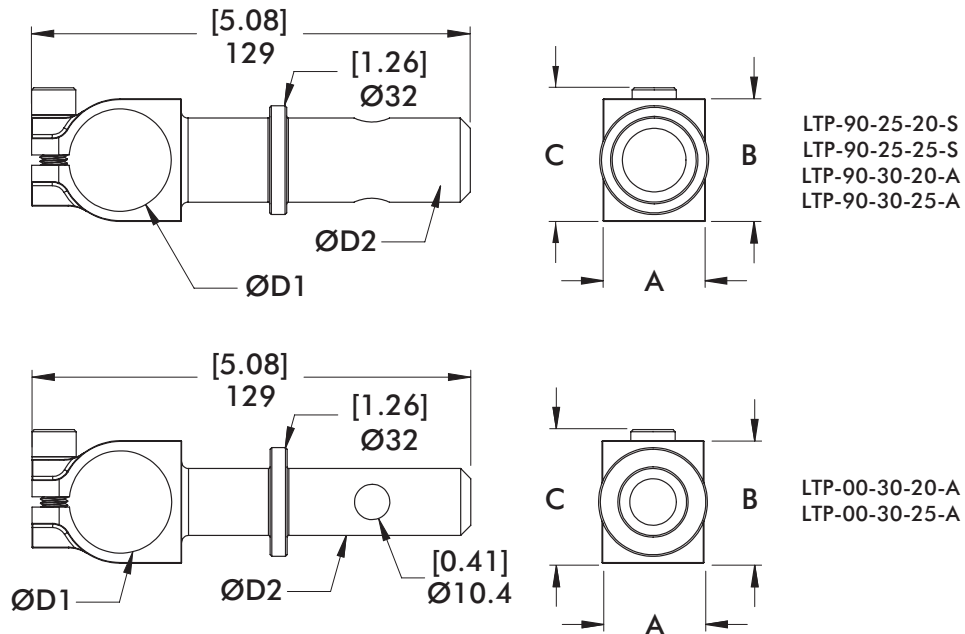
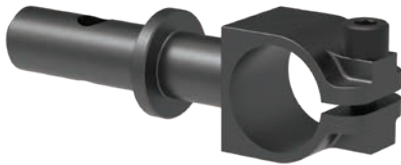
Accelerate® Tooling Collection | Dimensions

LTP Frame



Model Number	Weight
LTP-30M-25-30-1000-A	3939g [8.68 lb]

LTP Pin

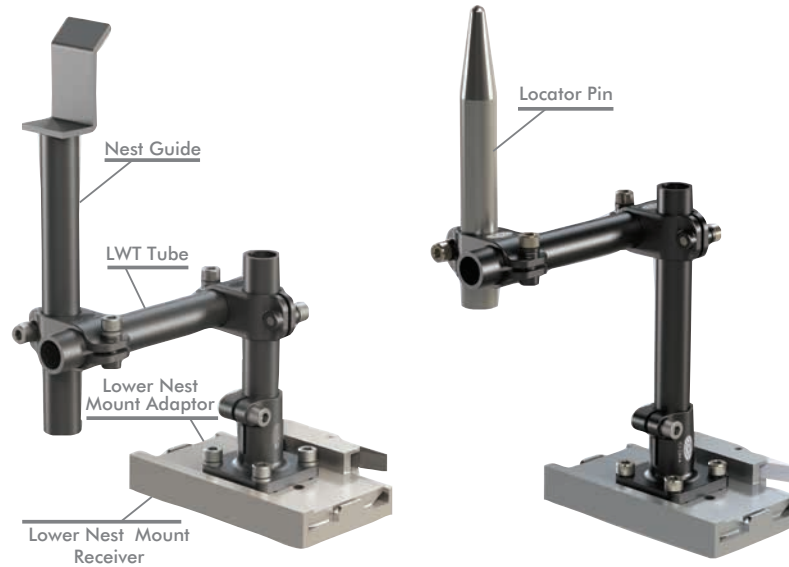


Material: Steel

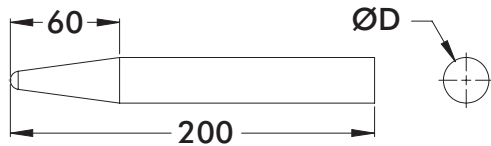
Model Number	ØD1	ØD2	A	B	C	Weight
LTP-90-25-20-S	25mm	20mm	31 [1.22]	31 [1.22]	37.2 [1.46]	370g [0.82 lb]
LTP-90-25-25-S		25mm				470g [1.04 lb]
LTP-90-30-20-S		20mm				350g [0.77 lb]
LTP-90-30-25-S	30mm	25mm	30 [1.18]	36 [1.42]	39.65 [1.56]	460g [1.01 lb]
LTP-00-30-20-S		20mm				350g [0.77 lb]
LTP-00-30-25-S		25mm				460g [1.01 lb]

CP, SGM SERIES

Accelerate® Tooling Collection | Lower Nest Tooling Example



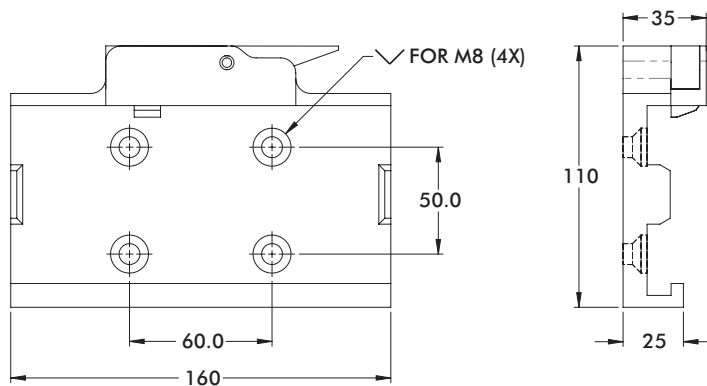
CP Center Pin



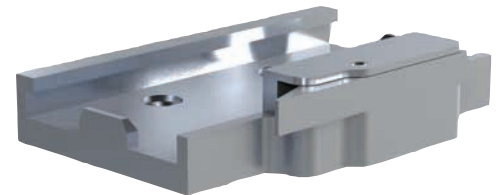
Material: Steel

Ø20/Ø25, 200mm Length

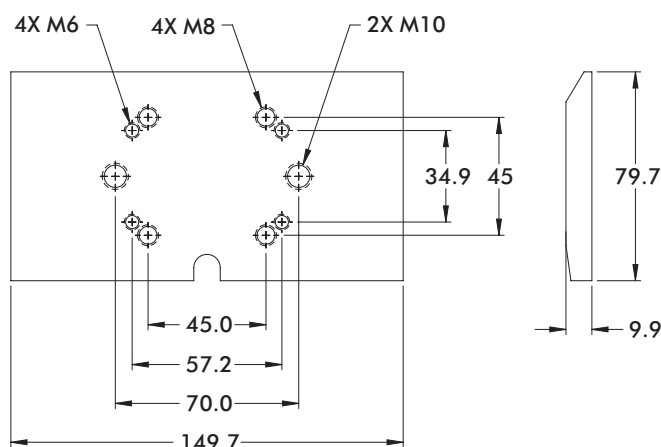
Model Number	ØD	Weight
CP-20-200	20	427g [0.94 lb]
CP-25-200	25	640g [1.41 lb]



SGM Mount Receiver



Model Number	Material	Weight
CPI-SGM-TH-USR-AL	Aluminum	670g [1.48 lb]
CPI-SGM-TH-USR	Steel	1730g [3.81 lb]



SGM Mount Adaptor

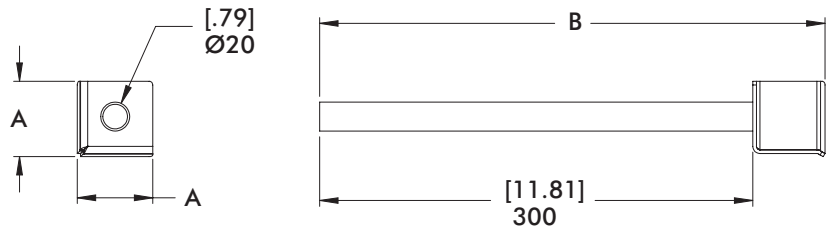


Model Number	Material	Weight
CPI-SGM-TH-USA-AL	Aluminum	287g [0.63 lb]
CPI-SGM-TH-USA	Steel	839g [1.85 lb]

GTS, NPG SERIES

Accelerate® Tooling Collection | Dimensions

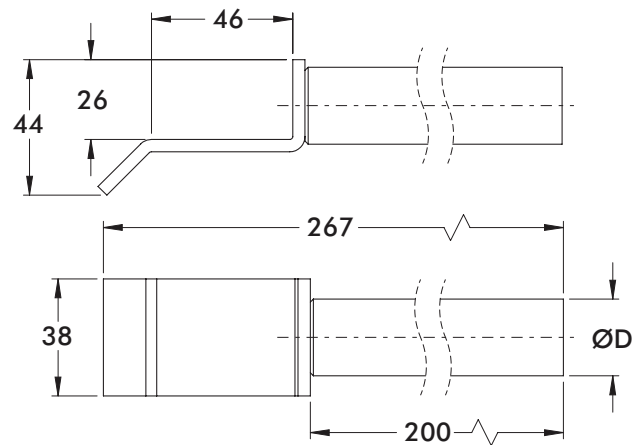
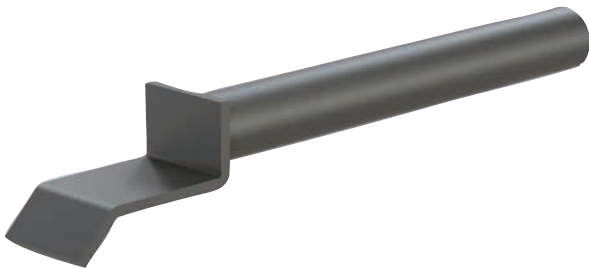
GTS Shovel with Welded Post



Material: Steel

Model Number	A	B	ØD	Weight
GTS-40-40-40-20M-A	42.2 [1.66]	340 [13.39]	Ø20 [0.79]	290g [0.64 lb]
GTS-40-40-40-30M-A	42.2 [1.66]	340 [13.39]	Ø30 [1.18]	400g [0.88 lb]
GTS-50-50-50-20M-A	52.2 [2.05]	350 [13.78]	Ø20 [0.79]	341g [0.75 lb]
GTS-50-50-50-30M-A	52.2 [2.05]	350 [13.78]	Ø30 [1.18]	451g [0.99 lb]

NPG Nest Guide



Material: Steel

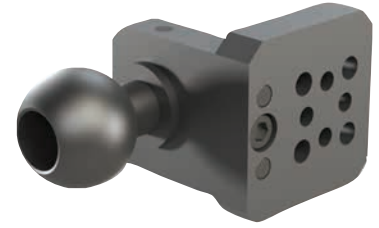
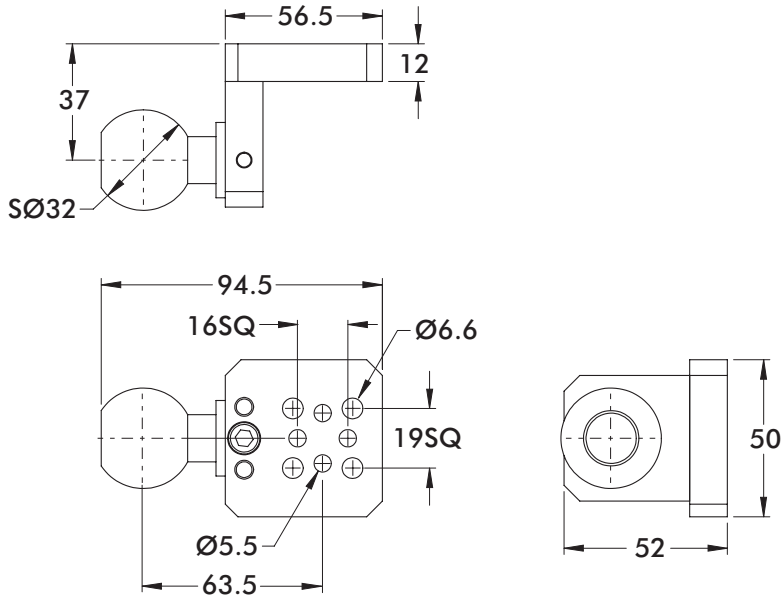
Ø20/Ø25, 200mm Length

Model Number	ØD	Weight
NPG-25-200	25	432g [0.95 lb]

GT SERIES

Accelerate® Tooling Collection | Dimensions

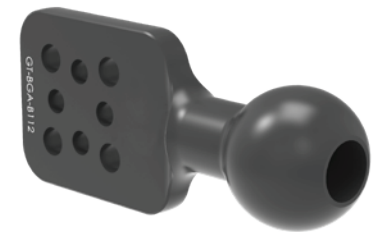
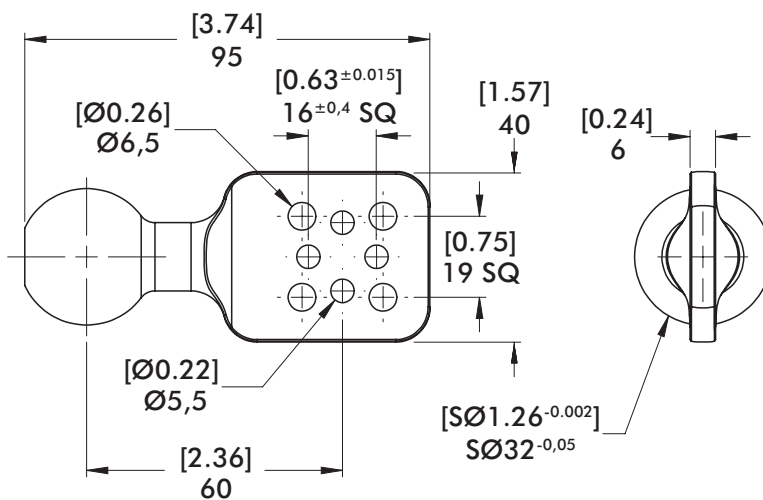
GT-BGA 32mm Ball Gripper Mount



Material: High Strength Aluminum

Model Number	Weight
GT-BGA-A	174g [0.38 lb]

GT-BGA Paddle Gripper Mount



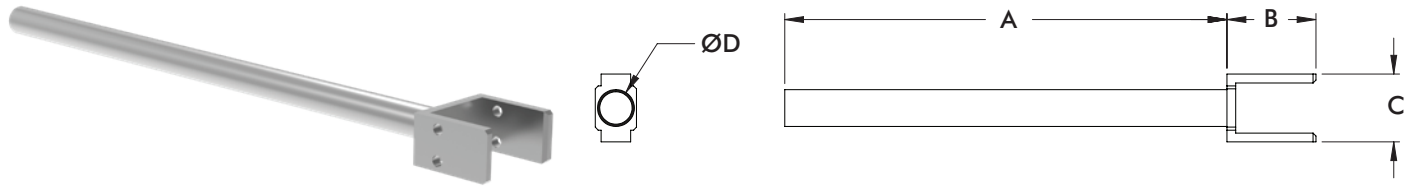
Material: High Strength Aluminum

Model Number	ØD	A	Weight
GT-BGA-B112	28.6 [1.12]	93 [3.66]	66g [0.15 lb]
GT-BGA-32B	32 [1.26]	95 [3.74]	79g [0.17 lb]

GT SERIES

Accelerate® Tooling Collection | Dimensions

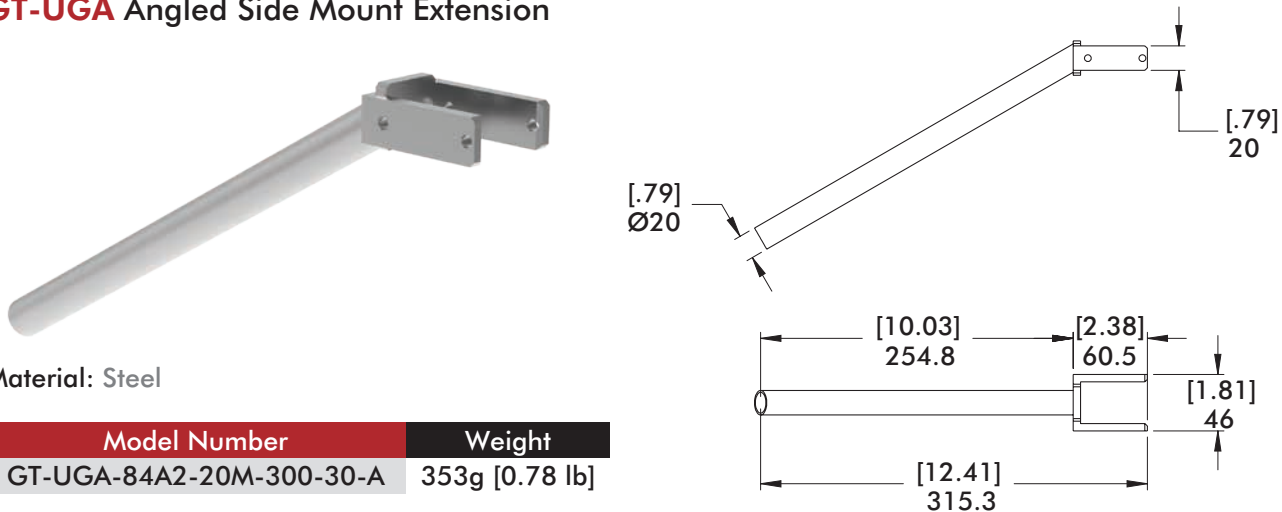
GT-UGA Side Mount Extension



Material: Steel

Model Number	A	B	C	ØD	Weight
GT-UGA-84A2-20M-400-A	400 [15.74]	60.5 [2.38]	46 [1.81]	20 [0.79]	425g [0.94 lb]
GT-UGA-84A2-25M-300-A	300 [11.81]	60.5 [2.38]	46 [1.81]	25 [0.98]	412g [0.91 lb]
GT-UGA-84A2-30M-400-A	400 [15.74]	60.5 [2.38]	46 [1.81]	30 [1.18]	582g [1.28 lb]
GT-UGA-84A3-20M-400-A	400 [15.74]	51 [2.01]	58 [2.28]	20 [0.79]	475g [1.05 lb]
GT-UGA-84A3-25M-300-A	300 [11.81]	51 [2.01]	58 [2.28]	25 [0.98]	462g [1.02 lb]
GT-UGA-84A3-30M-400-A	400 [15.74]	51 [2.01]	58 [2.28]	30 [1.18]	631g [1.39 lb]

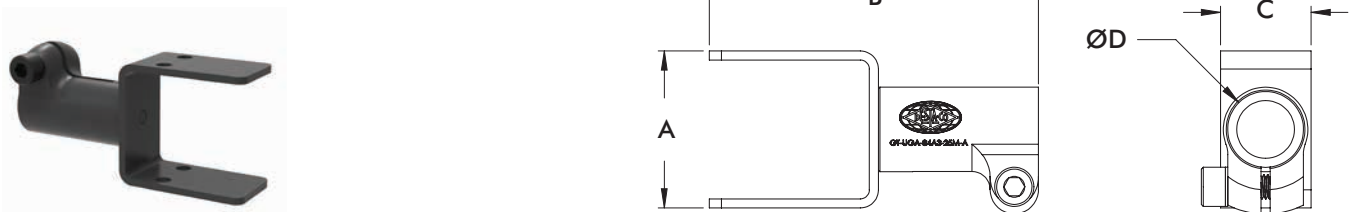
GT-UGA Angled Side Mount Extension



Material: Steel

Model Number	Weight
GT-UGA-84A2-20M-300-30-A	353g [0.78 lb]

GT-UGA Side Mount Clamp



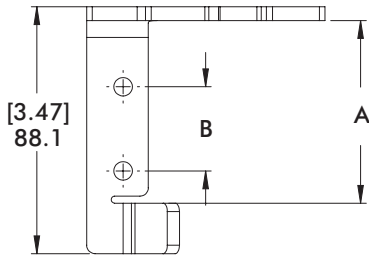
Material: Steel

Model Number	A	B	C	D	Weight
GT-UGA-84A2-20M-A	40 [1.57]	116 [4.57]	20 [0.79]	20 [0.79]	165g [0.36 lb]
GT-UGA-84A2-25M-A	40 [1.57]	116 [4.57]	20 [0.79]	25 [0.98]	184g [0.41 lb]
GT-UGA-84A2-30M-A	40 [1.57]	116 [4.57]	20 [0.79]	30 [1.18]	200g [0.44 lb]
GT-UGA-84A3-20M-A	52 [2.05]	109 [4.29]	30 [1.18]	20 [0.79]	194g [0.43 lb]
GT-UGA-84A3-25M-A	52 [2.05]	109 [4.29]	30 [1.18]	25 [0.98]	213g [0.47 lb]
GT-UGA-84A3-30M-A	52 [2.05]	109 [4.29]	30 [1.18]	30 [1.18]	228g [0.50 lb]

GT-OPS, SAP SERIES

Accelerate® Tooling Collection | Dimensions

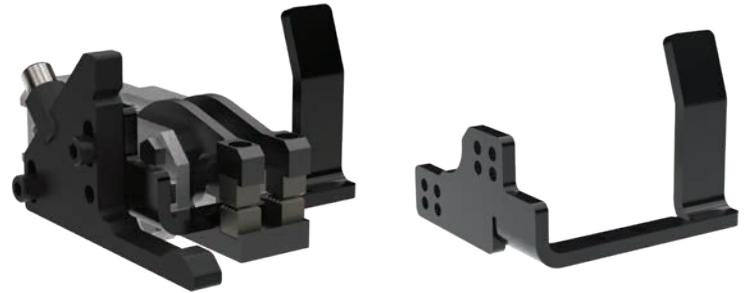
GT-OPS Jaw Sensor Mount



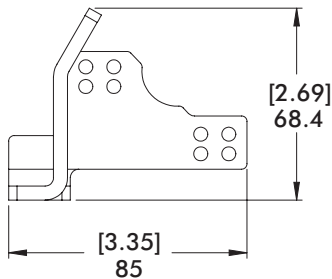
[3.47]
88.1

B

A



Material: Steel



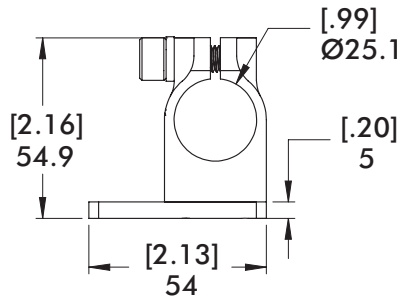
[2.69]
68.4

[3.35]

85

Model Number	A	B	Weight
GT-OPS-84A2-LH-A	63.5 [2.50]	17.5 [0.69]	171g [0.38 lb]
GT-OPS-84A2-RH-A	63.5 [2.50]	17.5 [0.69]	171g [0.38 lb]
GT-OPS-84A3-LH-A	65.1 [2.56]	30 [1.18]	192g [0.42 lb]
GT-OPS-84A3-RH-A	65.1 [2.56]	30 [1.18]	192g [0.42 lb]

SAP Sensor Clamp Mount



[.99]
Ø25.1

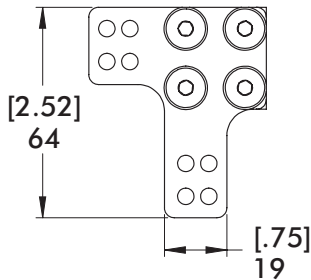
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54.9

[.20]
5

[2.13]
54



Material: High Strength Aluminum

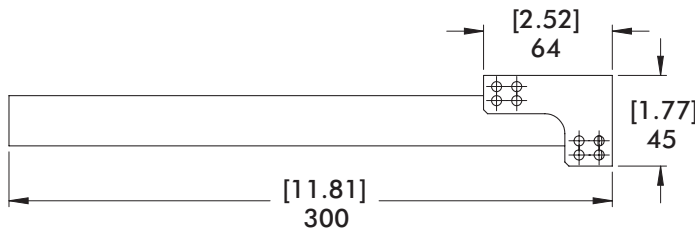


[2.52]
64

[.75]
19

Model Number	Weight
SAP-OPS-25M-A	120g [0.26 lb]

SAP Sensor Extension Mount

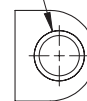


[2.52]
64

[.98]
Ø25

[1.77]
45

[11.81]
300



Material: Steel

Model Number	Weight
SAP-OPS-25M-300-LH-A	515g [1.14 lb]
SAP-OPS-25M-300-RH-A	515g [1.14 lb]

GTS SERIES

Accelerate® Tooling Collection | Dimensions

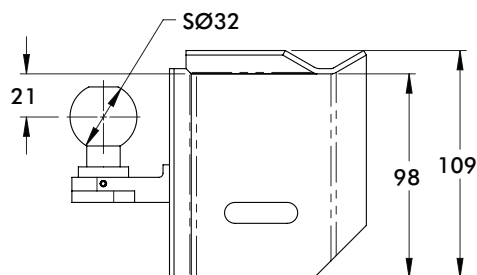
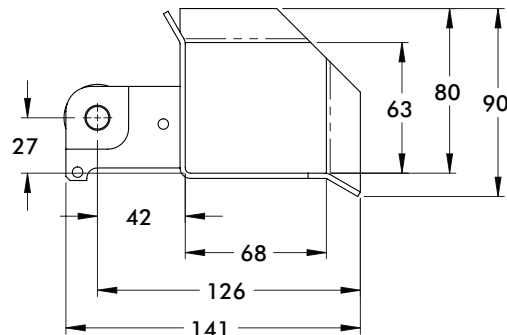
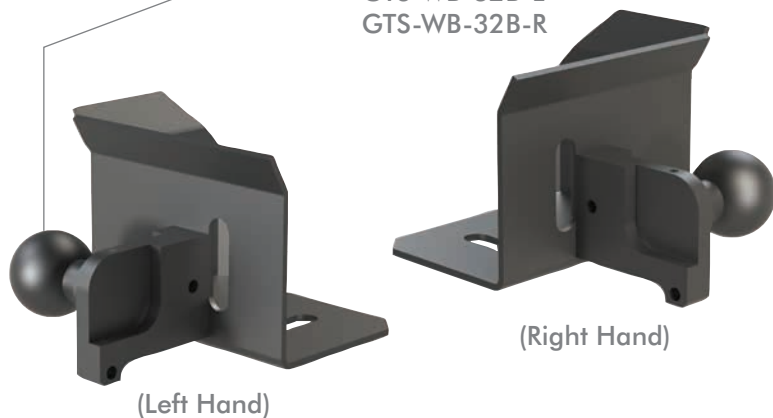
GTS-100 32mm Ball 80mm Shovel



Optional spare parts

28.58mm Ball
GTS-WB-B112-L
GTS-WB-B112-R

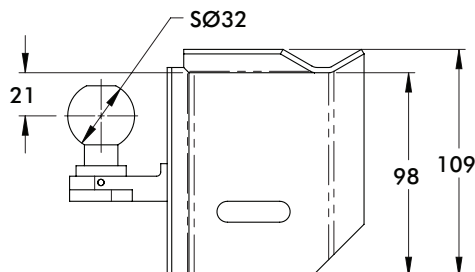
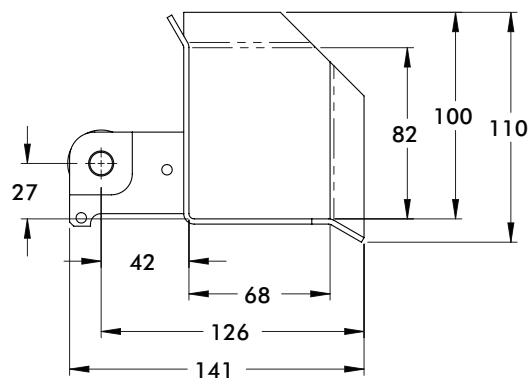
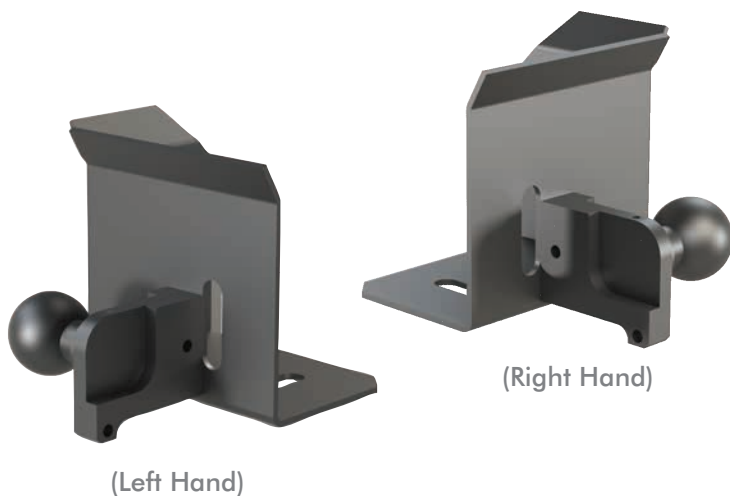
32mm Ball
GTS-WB-32B-L
GTS-WB-32B-R



Material: Steel

Model Number	Weight
GTS-100-85-80LH-A	656g [1.45 lb]
GTS-100-85-80RH-A	

GTS-100 32mm Ball 100mm Shovel



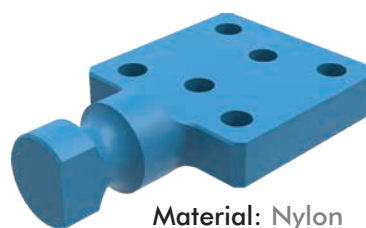
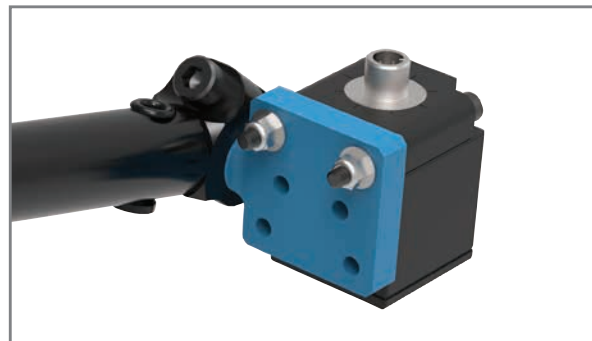
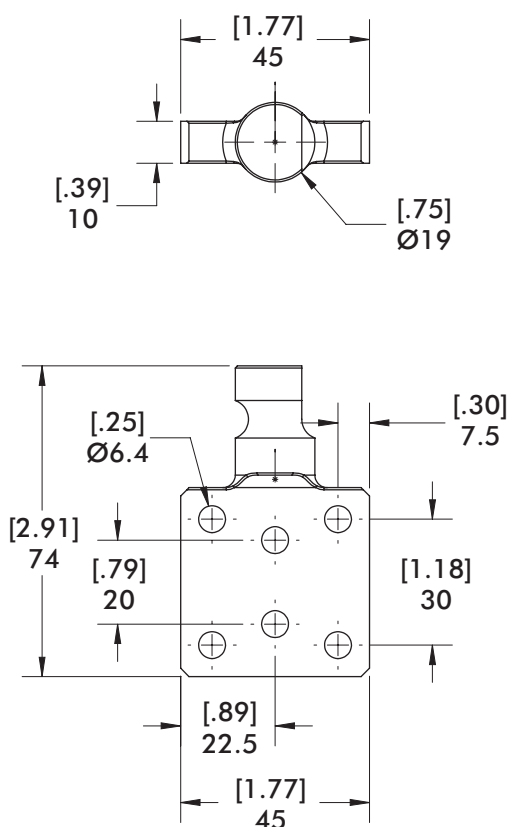
Material: Steel

Model Number	Weight
GTS-100-85-100LH-A	730g [1.61 lb]
GTS-100-85-100RH-A	

AB, SAP SERIES

Accelerate® Tooling Collection | Dimensions

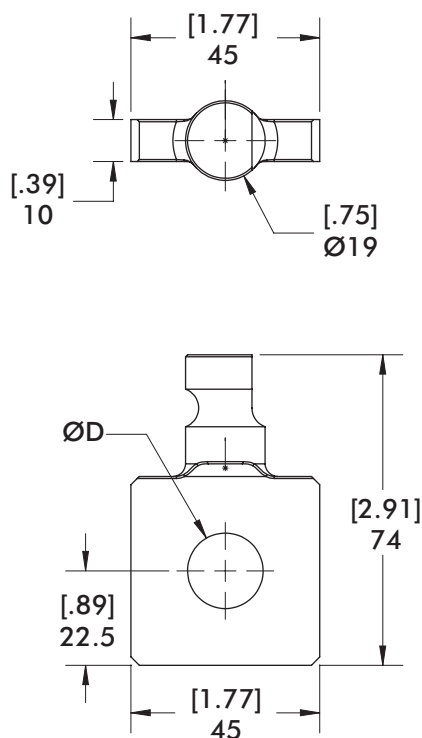
AB Block Style Proximity Switch Mounts



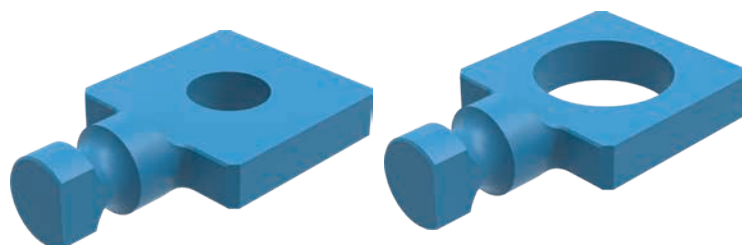
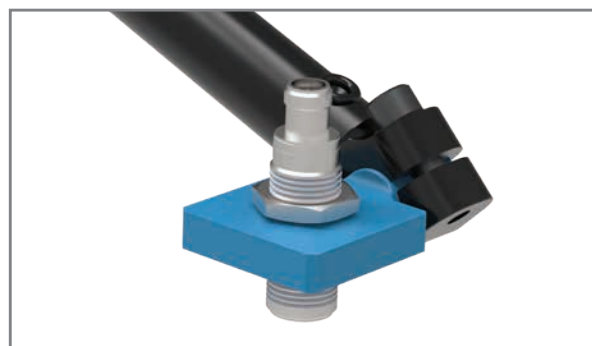
Material: Nylon

Model Number	Weight
CPI-AB-750-EF-BP	31.2g [1.1oz]

(2) screws & (2) locking flange nuts included



SAP Barrel Style Proximity Switch Mounts



Material: Nylon

Model Number	(Ø)"D"	Weight
CPI-SAP-18-BP	[0.71] 18	28.3g [1.0oz]
CPI-SAP-30-BP	[1.18] 30	22.7g [0.8oz]