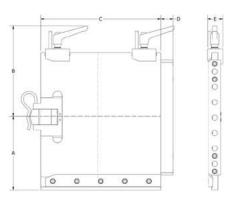




### **QUICK CHANGE MOUNTING CHUCKS**



- · Adaptable to every robot.
- · Economical one-time investment per robot.
- Makes EOAT interchangeable between robots.
- Minimizes downtime during setup changes.
- EOAT Gripper stays aligned & secure.
- Integrated pneumatic quick disconnect system.
- Lightweight aluminum base plates for standard applications.
- An auxiliary manifold can be attached to the side of the chuck to provide additional pneumatic quick disconnect ports.

#### LF-Type (Less Fitting)

· Pneumatic fitting mantifult without fittings.

	Α	В	С	D	E	GPM Plate	Weight (g)	Piab No.
SWM 1 LF	53	92	100	12.7	19	GPM 1	530	0214632
SWM 2 LF	101	133	160	19	25.4	GPM 2	1720	0214637
SWM 3 LF	150.5	189	250	25.4	31.8	GPM 3	4000	0214643

SWM 1 LF

SWM 2 LF Product Code: SWM 1 LF Product Code: SWM 2 LF



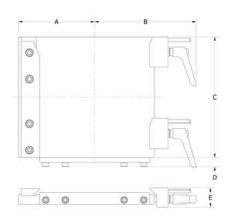
SWM 3 LF Product Code: SWM 3 LF



- Featuring Cartesian-style mounts and quick-change chucks
- Durable, rigid materials such as aluminum, and steel.
- · Expansive product and engineering knowledge



#### **QUICK CHANGE MOUNTING CHUCKS**



- Adaptable to every robot.
- · Economical one-time investment per robot.
- · Makes EOAT interchangeable between robots.
- · Minimizes downtime during setup changes.
- EOAT Gripper stays aligned & secure.
- Lightweight aluminum base plates for standard applications.
- An auxiliary manifold can be attached to the side of the chuck to provide additional pneumatic quick disconnect ports.

#### E-Type (Economy)

- Mounting chuck without pneumatic fittings for cost savings and weight reduction.
- Best used when pneumatic connectors from robot are near to the EOAT or when EOAT may be close to the robot payload.

	A	В	С	D	E	GPM Plate	Weight (g)	Piab No.
SWM 0 E	38	43	60	8	19	GPM 0	284	0214629
SWM 1 E	58	95	102	12	20	GPM 1	455	0212939

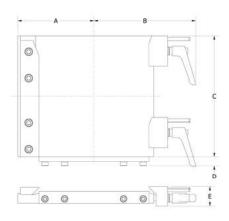
**SWM 0 E**Product Code: SWM 0 E



**SWM 1 E**Product Code: SWM 1 E



#### **QUICK CHANGE MOUNTING CHUCKS**



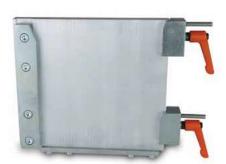
- Adaptable to every robot.
- · Economical one-time investment per robot.
- · Makes EOAT interchangeable between robots.
- Minimizes downtime during setup changes.
- · EOAT Gripper stays aligned & secure.
- Lightweight aluminum base plates for standard applications.
- An auxiliary manifold can be attached to the side of the chuck to provide additional pneumatic quick disconnect ports.

#### E-Type (Economy)

- Mounting chuck without pneumatic fittings for cost savings and weight reduction.
- Best used when pneumatic connectors from robot are near to the EOAT or when EOAT may be close to the robot payload.

		Α	В	С	D	E	GPM Plate	Weight (g)	Piab No.
SWN	4 2 E	101	132	160	12	25	GPM 2	1639	0212940
SWN	4 3 E	152	192	250	14	32	GPM 3	3680	0212941

**SWM 2 E**Product Code: SWM 2 E



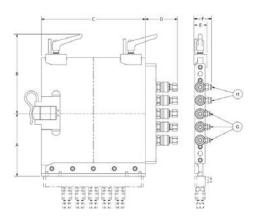
SWM 3 E
Product Code: SWM 3 E



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#### **QUICK CHANGE MOUNTING CHUCK**



- Adaptable to every robot.
- · Economical one-time investment per robot.
- Makes EOAT interchangeable between robots.
- Minimizes downtime during setup changes.
- EOAT Gripper stays aligned & secure.
- · Integrated pneumatic quick disconnect system.
- Lightweight aluminum base plates for standard applications.
- An auxiliary manifold can be attached to the side of the chuck to provide additional pneumatic quick disconnect ports.

	Α	В	С	D	E	F	G (Tubing Size)	H (Tubing Size)	Air Coupling	Air Plug	GPM Plate	Weight (g)	Piab No.
SWM 0.1	27	35	40	10	19	-	-	-	-	-	GPM 0.1	139	0214630
SWM 0	38	43	60	32	19	32	3 tubes 4mm	2 tubes 4mm	92-5002	94-4902	GPM 0	323	0214628
SWM 1	58	95	102	34	19	32	3 tubes 4mm	2 tubes 6mm	92-5002	94-4902	GPM 1	567	0212936

# SWM 0.1

Product Code: SWM 0.1



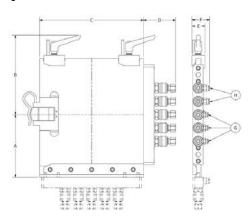
SWM<sub>1</sub> Product Code: SWM 0 Product Code: SWM 1







#### **QUICK CHANGE MOUNTING CHUCK**



- Adaptable to every robot.
- Economical one-time investment per robot.
- Makes EOAT interchangeable between robots.
- Minimizes downtime during setup changes.
- EOAT Gripper stays aligned & secure.
- Integrated pneumatic quick disconnect system.
- · Lightweight aluminum base plates for standard applications.
- An auxiliary manifold can be attached to the side of the chuck to provide additional pneumatic quick disconnect ports.

	A	В	С	D	E	F	G (Tubing Size)	H (Tubing Size)	Air Coupling	Air Plug	GPM Plate	Weight (g)	Piab No.
SWM 2	101	132	160	50	25	40	3 tubes 6mm	2 tubes 8mm	92-0204	94-0104	GPM 2	2024	0212937
SWM 3	152	192	250	58	32	40	3 tubes 6mm	2 tubes 8mm	92-0406	94-0306	GPM 3	4559	0212938

SWM 2 Product Code: SWM 2



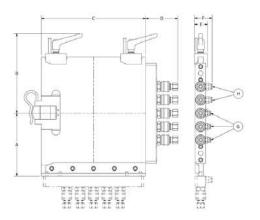
SWM 3 Product Code: SWM 3



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### **QUICK CHANGE MOUNTING CHUCKS**



- · Adaptable to every robot.
- Economical one-time investment per robot.
- Makes EOAT interchangeable between robots.
- Minimizes downtime during setup changes.
- EOAT Gripper stays aligned & secure.
- · Integrated pneumatic quick disconnect system.
- Lightweight aluminum base plates for standard applications.
- An auxiliary manifold can be attached to the side of the chuck to provide additional pneumatic quick disconnect ports.

#### ST-Type (Steel)

- · Steel chuck body with zinc plating for heavy duty applications.
- · Steel mounting plates also available.

	A	В	С	D	E	F	G (Tubing Size)	H (Tubing Size)	Air Coupling	Air Plug	GPM Plate	Weight (g)	Piab No.
SWM 1 ST	58	95	102	34	19	32	3 tubes 4mm	2 tubes 6mm	92-5002	94-4902	GPM 1	1049	0214635
SWM 2 ST	101	132	160	50	25	40	3 tubes 6mm	2 tubes 8mm	92-0204	94-0104	GPM 2	3623	0214641
SWM 3 ST	152	192	250	58	32	40	3 tubes 6mm	2 tubes 8mm	92-0406	94-0306	GPM 3	7938	0214647

SWM 1 ST

Product Code: SWM 1 ST



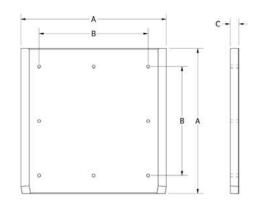
SWM 2 ST Product Code: SWM 2 ST



SWM 3 ST Product Code: SWM 3 ST



#### **QUICK CHANGE MOUNTING PLATES**



• Low cost dove-tail mounting plate for grippers.

- Can be used with or without SWM Quick Change Chuck.
- · Lightweight aluminum plates for standard applications.

- · Pre-drilled with M4 threaded holes.
- Usually used with L-18/10 profile.

	Α	В	С	SWM Chuck	Weight (g)	Material	Piab No.
GPM 0 L	60	35	8	SWM 0	/4	Aluminum	0214329
GPM 1 L	100	70	8	SWM 1	205.5	Aluminum	0214331

GPM 0 L Product Code: GPM 0 L



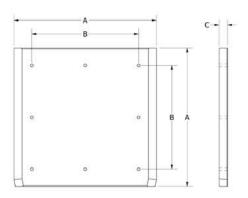
GPM 1 L Product Code: GPM 1 L



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### **QUICK CHANGE MOUNTING PLATES**



- · Low cost dove-tail mounting plate for grippers.
- Can be used with or without SWM Quick Change Chuck.
- · Lightweight aluminum plates for standard applications.
- Comes with predrilled pilot holes to assist with drilling custom hole sizes.

	A	В	c	SWM Chuck	Weight (g)	Material	Piab No.
GPM 0.1	40	201	8	SWM 0.1	74	Aluminum	0214330
GPM 0	60	35	8	SWM 0	74	Aluminum	0214328
GPM 1	100	70	8	SWM 1	205,8	Aluminum	0212942
GPM 2	160	120	10	SWM 2	578	Aluminum	0212943
GPM 3	250	200	10	SWM 3	1595	Aluminum	0212944

GPM 0.1 Product Code: GPM 0.1



GPM 0

Product Code: GPM 0 Product Code: GPM 1



GPM 2 Product Code: GPM 2



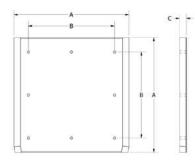
GPM 3 Product Code: GPM 3



GPM 1



**QUICK CHANGE MOUNTING PLATES** 



- · Low cost dove-tail mounting plate for grippers.
- Can be used with or without SWM Quick Change Chuck.
- Lightweight aluminum plates for standard applications.

#### ST-Type (Steel)

- · Recommended for use only with steel SWM plates.
- Use with steel SWM plates for heavy duty applications.
- · Comes with predrilled pilot holes to assist with drilling custom hole sizes.

#### X-Type

- Pre-set for mounting profile.
- X plates pre-drilled for 5mm cap screws and include 6 screws, lock washers, and GWP 5X channel nuts.

	Α	В	С	SWM Chuck	Weight (g)	Material	Piab No.
GPM 2 ST	160	120	10	SWM 2 Steel	1815.2	Steel	0214335
GPM 3 ST	250	200	10	SWM 3 Steel	4627	Steel	0214339

	Α	В	С	SWM Chuck	Weight (g)	Material	Piab No.
GPM 1 X	100	70	8	SWM 1	232	Aluminum	0212945
GPM 2 X	160	120	10	SWM 2	669	Aluminum	0212946
GРМ 3 X	250	200	10	SWM 3	1642.5	Aluminum	0212947

GPM 2 ST Product Code: GPM 2 ST



GPM 1 X Product Code: GPM 1 X



GPM 3 ST

Product Code: GPM 3 ST



GPM 2 X Product Code: GPM 2 X



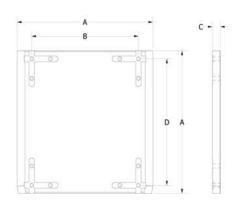
GPM 3 X Product Code: GPM 3 X



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### **QUICK CHANGE MOUNTING PLATES**



- · Low cost dove-tail mounting plate for grippers.
- Can be used with or without SWM Quick Change Chuck.
- Lightweight aluminum plates for standard applications.

#### T-Type (Tubing)

- Used with tube style framework.
- · Has tapped holes for KVB clamps.

	Α	В	С	SWM Chuck	Weight (g)	Material	Piab No.
GPM 1-14 T	100	22	8	SWM 1	198.3	Aluminum	0214333
GPM 2-14 T	160	22	10	SWM 2	560	Aluminum	0214336
GPM 2-20 T	160	28	10	SWM 2	555	Aluminum	0214337
GPM 3-20 T	250	28	10	SWM 3	1560	Aluminum	0214340
GPM 3-30 T	250	38	10	SWM 3	1588	Aluminum	0214341

GPM 1-14 T Product Code: GPM 1-14 T



GPM 2-14 T Product Code: GPM 2-14 T



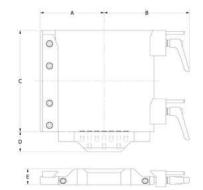
GPM 3-30 T



GPM 2-20 T Product Code: GPM 2-20 T



SEMI-AUTOMATIC QUICK CHANGE MOUNTING CHUCKS



- · No need for hose clearance below the chuck.
- Automatically couples air and vacuum lines.
- Must be used with GPM SA mounting plates.
- Uses "S" style fittings (not included).
- · Adaptable to every robot.
- Economical one-time investment per robot.
- Makes EOAT interchangeable between robots.
- Minimizes downtime during setup changes.
- EOAT Gripper stays aligned & secure.
- Lightweight aluminum base plates for standard applications.

	А	В	С	D	E	F	G (Tubing Size)	# of Ports	GPM Plate	Weight (g)	Piab No.
SWM 1 SA	57	94	102	25	32	45	4/6mm	7	GPM 1 SA	575	0214634
SWM 2 SA	101	130	160	32	25	43	6	1	GPM 2 SA	1786.5	0214640
SWM 3 SA	150	180	250	32	25	43	6	10	GPM 3 SA	4100	0214646

SWM 1 SA

Product Code: SWM 1 SA

SWM 2 SA

Product Code: SWM 2 SA

SWM 3 SA Product Code: SWM 3 SA







**GPM 3-20 T** Product Code: GPM 3-20 T



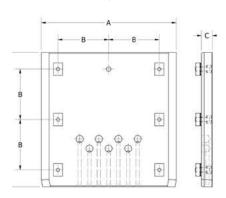
Product Code: GPM 3-30 T



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## SEMI-AUTOMATIC QUICK CHANGE MOUNTING PLATES



- Automatically couples air and vacuum lines.
- Prevents mixing up of air and vacuum lines during tool changes.
- Must be used with a SWM SA Quick Change Chuck.

	Α	В	С	Port	# of Ports	SWM Chuck	Weight (g)	Piab No.
GPM 1 SA	100	70	19	M5	7	SWM 1 SA	475	0214332
GPM 2 SA	160	60	13	G 1/8"	7	SWM 2 SA	850	0214334
GPM 3 SA	250	100	13	G 1/8"	10	SWM 3 SA	2045.8	0214338

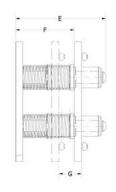
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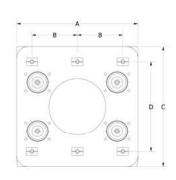


GPM 2 SA GPM 3 SA Product Code: GPM 2 SA Product Code: GPM 3 SA



## SPRING LOADED QUICK CHANGE MOUNTING PLATES





- Allows for a spring loaded compliance on our standard GPM mounting plate.
- Especially useful in high speed ejection strokes and safety releases.

	A	В		D	E	F	G (Stroke)	SWM Chuck	Profile	Weight (g)	Piab No.
GPG 1	100	35	102	70	91	66	20	SWM 1	L/X	601	0214325
GPG 2	160	60	160	120	115	84	30	SWM 2	X	253	0214326
GPG 3	250	100	254	200	115	84	30	SWM 3	×	2268	0214327

GPG 1

Product Code: GPG 1



Product Code: GPG 2



GPG 3 Product Code: GPG 3





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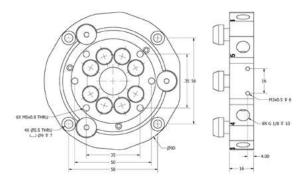
#### MANUAL QUICK CHANGE CHUCK - TOOL SIDE

- Semi-Automatic Tool Changer for accurate, repeatable mounting of Robotic End-of-Arm Tooling.
- · Couples air and vacuum lines automatically.
- Made of lightweight aluminum with durable steel locators.

# QST 90-8

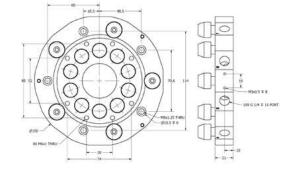
Payload: 10 kg Piab No. 0212960





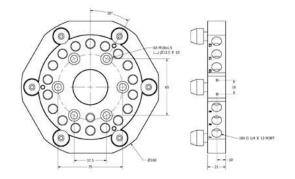
QST 150-10 Payload: 30 kg Piab No. 0212961





QST 160-18 Payload: 40 kg Piab No. 0212962





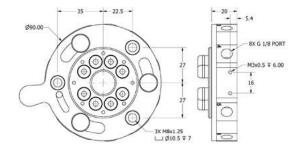
#### SEMI-AUTOMATIC TOOL CHANGER - ROBOT SIDE

- Semi-Automatic Tool Changer for accurate, repeatable mounting of Robotic End-of-Arm Tooling.
- · Couples air and vacuum lines automatically.
- Made of lightweight aluminum with durable steel lock ring.

#### QSR 90-8

Payload: 10 kg Piab No. 0212957

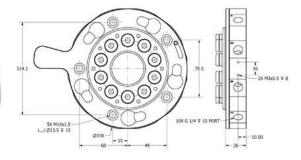




QSR 150-10

Payload: 30 kg Piab No. 0212958

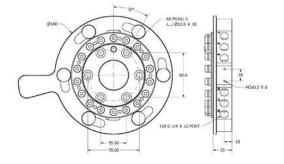




# QSR 160-18

Payload: 40 kg Piab No. 0212959

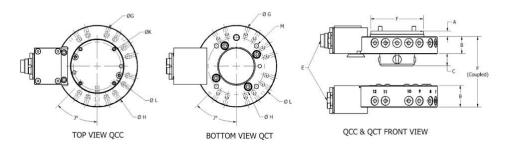








## HANDS FREE QUICK CHANGE CHUCKS - ROBOT SIDE



- Used in automatic robotic tool change application.
- Integrated pneumatic and electrical connections.
- Master plate and tool plate sold separately.
- Size 2 and 3 include electrical connectors.

	Α	В	С	D	E (Electrical)	F (Coupled)	G (#)	H (Bolt Circle)	J	К	L	М	Payload	Piab No.
QCC 0	5	18	19	33	10-Pin	49	M5 (6)	40	45	3.5	49	-	8kg	0214574
QCC 1	3	16	13	45	10-Pin	39	M5 (6)	40	45	3.5	50	-	16kg	0214575
QCC 2	3	19	14	60	19-Pin	45	M5 (12)	53	45	4.5	90	-	25kg	0214576
QCC 3	3	27	18	80	19-Pin	57	1/8NPT (8)	65	30	5.5	115	-	50kg	0214577

QCC 0 Payload: 8 kg



QCC 1 Payload: 16 kg



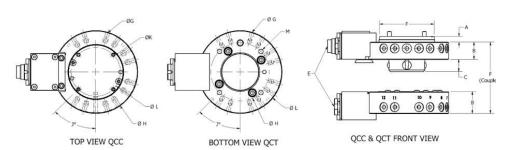
QCC 2 Payload: 25 kg



QCC 3 Payload: 50 kg



## HANDS FREE QUICK CHANGE CHUCKS - TOOL SIDE



- Used in automatic robotic tool change application.
- Integrated pneumatic and electrical connections.
- Master plate and tool plate sold separately.
- Size 2 and 3 include electrical connectors.

	A	В	С	D	E (Electrical)	F (Coupled)	G (#)	H (Bolt Circle)	J	K	L	М	Payload	Piab No.
QCT 0	-	26	-	-	10-Pin	49	M5 (6)	40	45	-	49	M5 x .8	8kg	0214581
QCT 1	-	21	-	-	10-Pin	39	M5 (6)	40	45	-	50	M5 x .8	16kg	0214582
QCT 2	-	24	-	-	19-Pin	45	M5 (12)	63	45	-	90	M6 x 1	25kg	0214583
QCT 3	-	27	-	-	19-Pin	57	1/8NPT (8)	80	30	-	115	M8 x 1.25	50kg	0214584

QCT 0 Payload: 8 kg



QCT 1 Payload: 16 kg



QCT 2 Payload: 25 kg



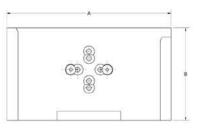




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#### **WALL MOUNTS**



- Economical storage of EOAT when not in production.
- Accepts EOAT built on our standard GPM mounting plates as well as our GPG Spring Loaded and new GPM-SA Semi-Automatic mounting plates.

	А	В	С	Storage For	Profile	Weight (g)	Piab No.
GHV 0	80	63	10	All GPM 0 Plates	L/X	94.6	0214324
GHV 1	120	76	10	All GPM 1 Plates	L/X	147.1	0212948
GHV 2	180	102	10	All GPM 2 Plates	X/JX/HX	297.1	0212949
GHV 3	270	152	13	All GPM 3 Plates	X/JX/HX	817.1	0212950



GHV 0 Product Code: GHV 0



GHV 2 Product Code: GHV 2



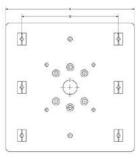
GHV 1 Product Code: GHV 1



GHV<sub>3</sub> Product Code: GHV 3



MOUNTING PLATES



• Mounts profile straight up to the 150 and 160 QST.

A B C Weight (g) Piab No.

• Mounts profile straight up to the QST 90.

160 120 17

QMP 1-90

	Α	В	С	Weight (g)	Piab No.
QMP 2-150-160	160	120	17	668.7	0212965
QMP 3-150-160	250	200	17	1620	0212966

**QMP 1-90** Product Code: QMP 1-90



QMP 2-150-160 Product Code: QMP 2-150-160



QMP 2-90 Product Code: QMP 2-90



QMP 3-150-160 Product Code: QMP 3-150-160

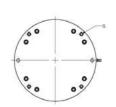


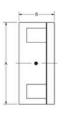
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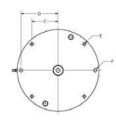




# TOOL ALIGNMENT DEVICE





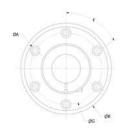


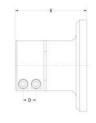
- Allows tools to shift for proper alignment with parts.
- Use with locator pins or bushings to align tools with molds or other machines.
- After aligned the compensator can be locked in place for proper part placement.

	A	В		D	E (Tap)	F (Slip Fit)	Lateral Misalignment (mm)	Rotary Misalignment	Max Payload (kg)	Payload @ 4.1 Bar (kg)	Torsion Resistance (N*m)	Piab No.
TAD 0	76	30	23	33	#8-32	3/16"	+/- 2.5	+/-5	18.6	8.5	11.8	0214704
TAD 1	102	41	31	45	#10-32	1/4"	+/- 2.5	+/-5	33.6	15.3	30.7	0214705
TAD 2	133	51	42	59	1/4-20	1/4"	+/- 2,5	+/-5	44.7	20,3	51,7	0214706
TAD 3	203	88	65	92	5/16-18	3/8"	+/- 2.5	+/-5	99.2	45.1	157.6	0214707



## **QUICK CHANGE INTERFACE**

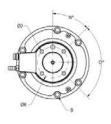




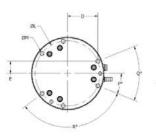
- Quick change interface for boom mounting D-Profile.
- Allows for end or boom mounting commonly utilized with 5 or 6 axis robots.

	A	В	D	E	F	G	Profile	Piab No.
QCI 30 T	14/9	127	-	100	60	100	T-30	0214578
QCI 40 T	14/9	127	18	100	60	100	HX-40	0214579
QCI HX-60	14/9	140	63	100	60	118	HX-60	0214580

### **COLLISION SENSORS**









- The TCS is a mechanical collision sensor that utilizes pneumatics for dynamic variability.
- Detects when the robot arm has encountered an obstruction.
- · Absorbs the crash energy.
- Stops the robot to prevent costly damage to the robot arm and tooling.
- Features a repeatability of 0.0005" and allows the user to adjust the amount of resistance the unit must overcome before stopping the system.

	Α	B (C'bore)	С	D	E	F	G	J	К	L	M (Slip Fit)	N	0	Р	Q	R	Piab No.
TCS-0	86	M4	48	36	15	31	52	M5	37	77	4	45	4x90	22	44	120	0214710
TCS-1	114	M5	63	48	19	40	64	M6	50	103	6	45	4x90	21	42	120	0214711
TCS-2	150	M6	85	64	25	51	79	M6	63	137	6	60	6x60	21	42	120	0214712
TCS-3	203	M8	117	86	33	71	105	M10	90	184	10	45	4x90	21	42	120	0214713
TCS-4	278	M10	163	120	46	99	143	M10	125	257	10	60	6x60	21	42	120	0214714

Moment Resistance† Variable from 10 to 90 psi (0.68 to 6.2 bar)	29-274 in-lb, 3-31 Nm
Torque Resistance† Variable from 10 to 90 psi (0.68 to 6.2 bar)	56-362 in-lb, 6-41 Nm
Force Resistance† Variable from 10 to 90 psi (0.68 to 6.2 bar)	25-229 lbf, 111-1,019 N
Angular Compliance	±8 deg (0.14 rad)
Rotary Compliance	±24 deg (0.42 rad)
Axial Compliance Compression	0.31 in, 7.9 mm
Repeatability (x, y & z) Measured at center and O.D. of tool plate	±0.0005 in, ±0.0127 mr
Repeatability (about z axis) Measured at center and O.D. of tool plate	±0.017 deg
Mass	1 lb (0.45 kg)
Height	2.03 in (51.6 mm)

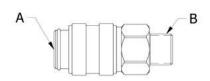




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## **QUICK RELEASE COUPLING**

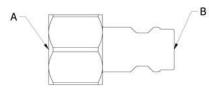




- Quick release couplings for faster tool changes.
- Replacement couplings for SWM series Quick Change Mounting Chucks.
- \* Sold individually.

	A (Female Thread)	B (Series)	Weight (g)	Piab No.
92-5002	M5 x .8	20	8	0212954
92-0204	R 1/8**	21	27	0212955
92-0406	R 1/4*	26	73	0212956

### **QUICK RELEASE PLUGS**





- Quick Release plugs for fast tool changes.
- EOAT plugs for mating SWM couplings.
- \* Sold in Packs of 10

	A (Female Thread)	B (Series)	Weight (g)	Piab No.
94-4902-10	M5 x .8	20	26	0212951
94-0104-10	G 1/8*	21	143	0212952
94-0306-10	G 1/4"	26	246	0212953

#### **HANDLES & LEVERS**

#### SWM 1 MANIFOLD

Product Code: SWM 1 Manifold Piab No. 0214631



## SWM 2 MANIFOLD

Product Code: SWM 2 Manifold Piab No. 0214638



#### SWM 3 MANIFOLD

Product Code: SWM 3 Manifold Piab No. 0214644



#### SWM 1 LEVER

Product Code: SWM 1 Lever Piab No. 0214633



### **SWM 2 LEVER**

Product Code: SWM 2 Lever Piab No. 0214639



### SWM 3 LEVER

Product Code: SWM 3 Lever Piab No. 0214645



#### SWM 1 HANDLE

Product Code: SWM 1 Handle Piab No. 0214631



# SWM 2 HANDLE

Product Code: SWM 2 Handle Piab No. 0214636



#### **SWM 3 HANDLE**

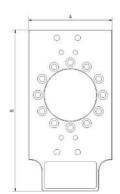
Product Code: SWM 3 Handle Piab No. 0214642



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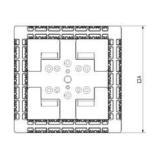
### ADAPTER PLATE



- Drilled holes for quick change systyem.
- 250mm x 160mm and one bold circle of 125mm.

	Α	В	Depth	Piab No.
AP-250x160LK125SWA	160	305	20	0213367

#### LIGHTWEIGHT FLEXIBLE MOUNTING PLATE



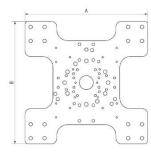


• Series polymer lightline.

HA-SSW100-200	200	200	34	0216332
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A B Depth Piab No.

#### **UNIVERSAL ADAPTER PLATE**



- Drilled holes for quick change systyem.
- 250mm x 160mm and one bold circle of 125mm.

AP-352x352-UNI	352	352	15	0	
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#### LIGHT WEIGHT MOUNTING PLATE



- Made from high strength light weight polymer
- Dovetail guide 100 mm
- Weight 333 grams
- Compatible with Piab modular gripper system

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