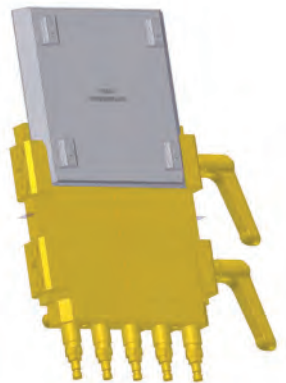
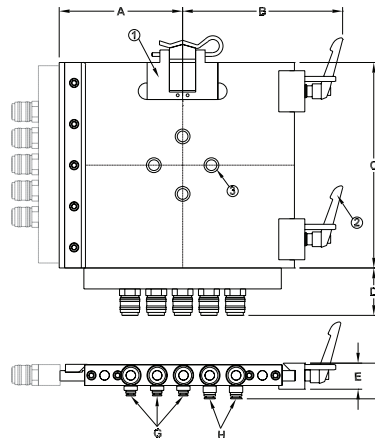
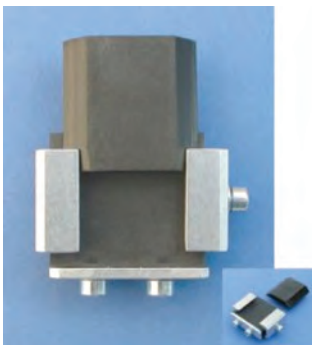
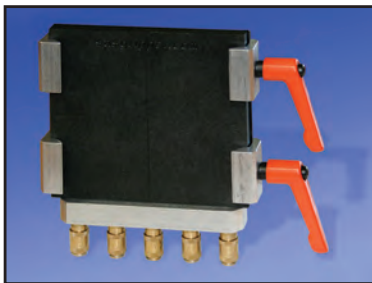
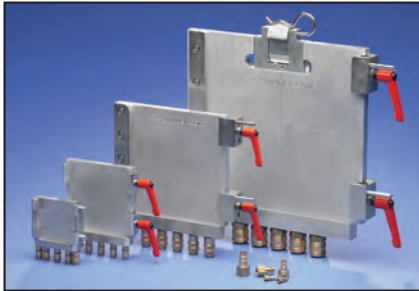




SWM... Quick Change Mounting Chuck

SWM... Schnellwechselsystem
SWM...チャック取付クイックチェンジャー



- 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.

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.

ST-Type (Steel)

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

LT-Type (Light)

- Delrin chuck body for reduced weight on small size chucks
- Great for light applications and small robots
- Delrin mounting plates also available

New Quick Change Chuck SWM-LT is part of the SAS New Technology series of lightweight line of components

- The new Quick Change Chuck-Lite is adaptable to every robot, and is an economical, one-time investment per robot.
- New SWM-LT are manufactured for all ranges of part sizes. This new lightweight component offers average weight savings of 50% - 60%.

Standard	A	B	C	D	E	F	G (Tubing Size)	H (Tubing Size)	Air Coupling	Air Plug	GPM Plate	Weight (g)	Price
SWM 0.1	27	35	40	10	19	~	~	~	~	~	GPM 0.1	139	\$204.56
SWM 0	38	43	60	32	19	32	3 tubes, 4mm	2 tubes, 4mm	92-5002	94-4902	GPM 0	323	\$258.75
SWM 1	58	95	102	34	19	32	3 tubes, 4mm	2 tubes, 6mm	92-5002	94-4902	GPM 1	567	\$336.75
SWM 2	101	132	160	50	25	40	3 tubes, 6mm	2 tubes, 8mm	92-0204	94-0104	GPM 2	2024	\$449.25
SWM 3	152	192	250	58	32	40	3 tubes, 6mm	2 tubes, 8mm	92-0406	94-0306	GPM 3	4559	\$599.25

E-Type	A	B	C	D	E	F	G (Tubing Size)	H (Tubing Size)	Air Coupling	Air Plug	GPM Plate	Weight (g)	Price
SWM 0E	38	43	60	8	19	~	~	~	~	~	GPM 0	284	\$222.75
SWM 1E	58	95	102	12	20	~	~	~	~	~	GPM 1	455	\$291.75
SWM 2E	101	132	160	12	25	~	~	~	~	~	GPM 2	1641	\$411.75
SWM 3E	152	192	250	14	32	~	~	~	~	~	GPM 3	3680	\$569.25

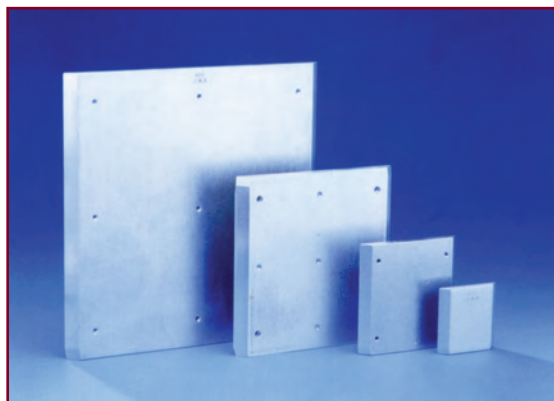
ST-Type	A	B	C	D	E	F	G (Tubing Size)	H (Tubing Size)	Air Coupling	Air Plug	GPM Plate	Weight (g)	Price
SWM 1 - Steel	58	95	102	34	19	32	3 tubes, 4mm	2 tubes, 6mm	92-5002	94-4902	GPM 1	1049	\$449.25
SWM 2 - Steel	101	132	160	50	25	40	3 tubes, 6mm	2 tubes, 8mm	92-0204	94-0104	GPM 2	3623	\$749.25
SWM 3 - Steel	152	192	250	58	32	40	3 tubes, 6mm	2 tubes, 8mm	92-0406	94-0306	GPM 3	7938	\$974.25

LT-Type	A	B	C	D	E	F	G (Tubing Size)	H (Tubing Size)	Air Coupling	Air Plug	GPM Plate	Weight (g)	Price
SWM 0.1 LT	27	35	40	10	19	~	~	~	~	~	GPM 0.1	74	\$204.56
SWM 0 LT	38	43	60	32	19	32	3 tubes, 4mm	2 tubes, 4mm	92-5002	94-4902	GPM 0	205	\$258.75
SWM 1 LT	58	95	102	34	19	32	3 tubes, 4mm	2 tubes, 6mm	92-5002	94-4902	GPM 1	390	\$336.75
SWM 2 LT	101	132	160	50	25	40	3 tubes, 6mm	2 tubes, 8mm	92-0204	94-0104	GPM 2	1200	\$508.50

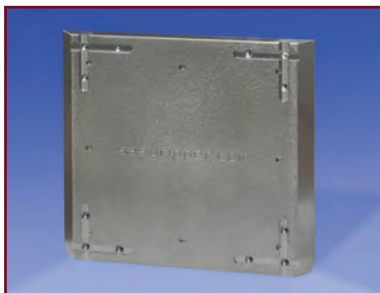


GPM... Quick Change Mounting Plates

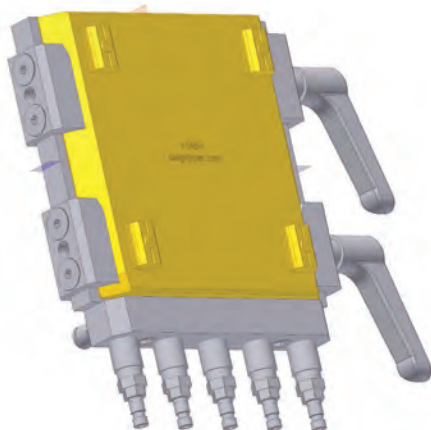
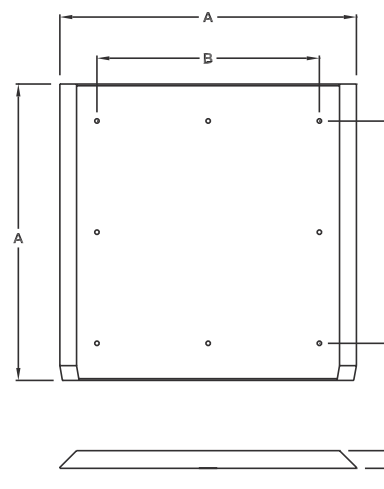
GPM... Greiferggrundplatte
GPM... チャック取付プレート



Standard



T Type



- Available in standard or X-Type, as above, upon request
- Low cost dove-tail mounting plate for grippers
- Can be used with or without SWM Quick Change Chuck
- Lightweight aluminum plates for standard applications

L-Type

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

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

ST-Type (Steel)

- Recommended for use only with steel SWM plates
- Use with steel SWM plates for heavy duty applications

LT-Type (Light)

- Can be used for light tools with any SWM plate of same size
- Use with LT SWM plates for greatest weight reduction in light duty applications
- Available in C & X styles as above on request

T-Type (Tubing)

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

Standard	A	B	C	SWM Chuck	Weight (g)	Material	Price
GPM 0.1	40	~	8	SWM 0.1	74	Aluminum	\$14.95
GPM 0	60	35	8	SWM 0	74	Aluminum	\$13.25
GPM 1	100	70	8	SWM 1	206	Aluminum	\$16.50
GPM 2	160	120	10	SWM 2	578	Aluminum	\$25.25
GPM 3	250	200	10	SWM 3	1595	Aluminum	\$39.50

L-Type	A	B	C	SWM Chuck	Weight (g)	Material	Price
GPM 0 L	60	35	8	SWM 0	74	Aluminum	\$18.50
GPM 1 L	100	70	8	SWM 1	206	Aluminum	\$22.75

X-Type	A	B	C	SWM Chuck	Weight (g)	Material	Price
GPM 1 X	100	70	8	SWM 1	232	Aluminum	\$25.95
GPM 2 X	160	120	10	SWM 2	669	Aluminum	\$44.25
GPM 3 X	250	200	10	SWM 3	1643	Aluminum	\$59.25

ST-Type	A	B	C	SWM Chuck	Weight (g)	Material	Price
GPM 1 ST	100	70	8	SWM 1 Steel	596	Steel	\$65.07
GPM 2 ST	160	120	10	SWM 2 Steel	1815	Steel	\$75.00
GPM 3 ST	250	200	10	SWM 3 Steel	4627	Steel	\$140.64

LT-Type	A	B	C	SWM Chuck	Weight (g)	Material	Price
GPM 0.1 LT	40	~	8	SWM 0.1 LT	15	Delrin	\$14.95
GPM 0 LT	60	35	8	SWM 0 LT	35	Delrin	\$13.25
GPM 1 LT	100	70	8	SWM 1 LT	105	Delrin	\$22.94
GPM 2 LT	160	120	10	SWM 2 LT	329	Delrin	\$52.23

T-Type	A	B	C	SWM Chuck	Weight (g)	Material	Price
GPM 1-14 T	100	22	8	SWM 1	198	Aluminum	\$26.50
GPM 2-14 T	160	22	10	SWM 2	560	Aluminum	\$46.50
GPM 2-20 T	160	28	10	SWM 2	555	Aluminum	\$47.50
GPM 3-20 T	250	28	10	SWM 3	1560	Aluminum	\$62.50
GPM 3-30 T	250	38	10	SWM 3	1588	Aluminum	\$64.50

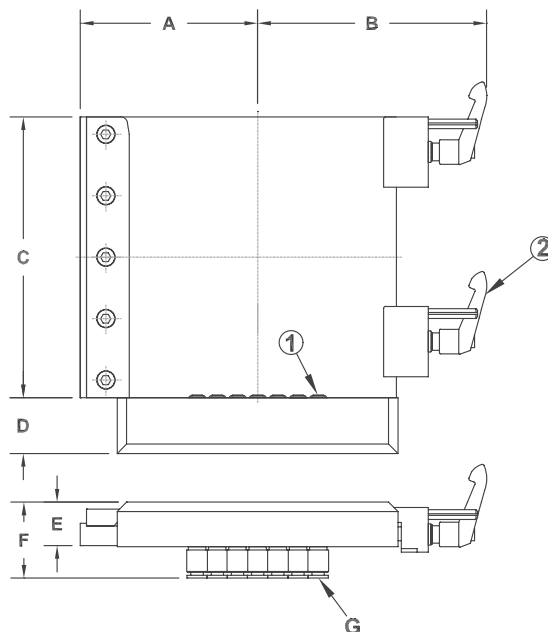


SWM...SA Semi-Automatic Quick Change Mounting Chuck

SWM...SA halbautomatische Schnellwechselplatte
SWM...SA 半自動クイック・チェンジ取付プレート



- All the benefits of SWM Quick Change Mounting Chuck
- 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)



- ① - Rubber seals for pneumatic interface
② - Hand levers for changing EOATs without tools

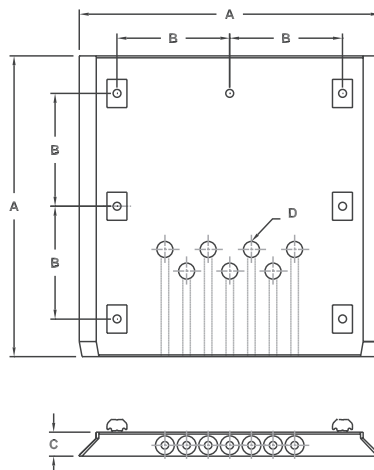
	A	B	C	D	E	F	G (Tubing Size)	# of Ports	GPM Plate	Weight (g)	Price
SWM 1 SA	57	94	102	25	32	45	4/6mm	7	GPM 1 SA	~	\$433.50
SWM 2 SA	101	130	160	32	25	43	6	7	GPM 2 SA	1787	\$546.00
SWM 3 SA	150	180	250	32	25	43	6	10	GPM 3 SA	~	\$674.25

GPM...SA Semi-Automatic Quick Change Mounting Plates

GPM...SA Halbautomatische Greifergrundplatte
GPM...SA 半自動クイック・チェンジ取付プレート



- 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



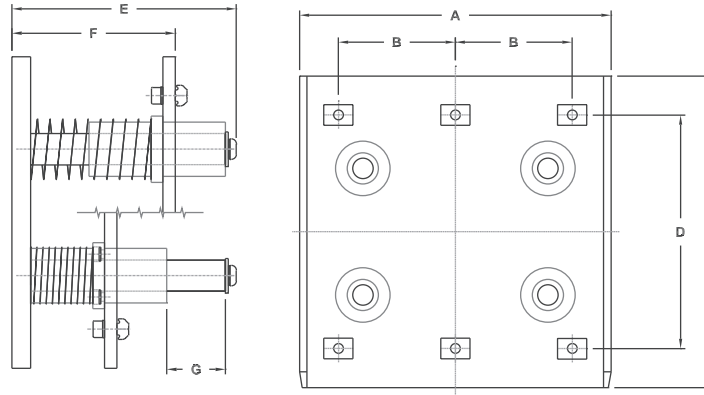
	A	B	C	D	# of Ports	SWM Chuck	Weight (g)	Price
GPM 1 SA	100	70	19	M5	7	SWM 1 SA	~	\$116.70
GPM 2 SA	160	60	13	G 1/8"	7	SWM 2 SA	~	\$135.00
GPM 3 SA	250	100	13	G 1/8"	10	SWM 3 SA	2046	\$165.00



GPG... Spring Loaded Quick Change Mounting Plates

GPG... Greifergrundplatte
gefedert mit Kugelumlaufbuchsen

GPG... スプリング式プレート



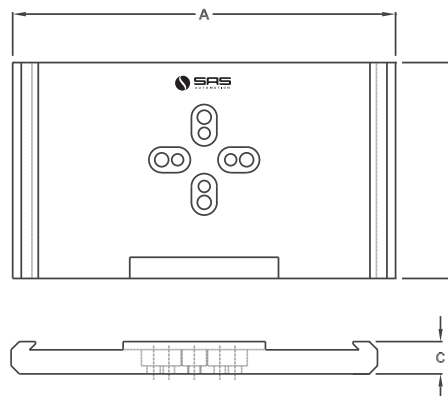
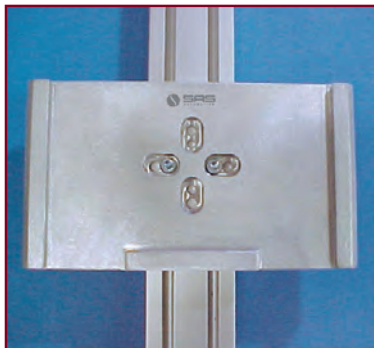
- Allows for a spring loaded compliance on our standard GPM mounting plate
- Especially useful in high speed ejection strokes and safety releases

	A	B	C	D	E	F	G (Stroke)	SWM Chuck	Profile	Weight (g)	Price
GPG 1	100	35	102	70	91	66	20	SWM 1	L/X	601	\$295.00
GPG 2	160	60	160	120	115	84	30	SWM 2	X	253	\$213.52
GPG 3	250	100	254	200	115	84	30	SWM 3	X	2268	\$496.00

GHV... Wall Mount

GHV... Greiferhaltevorrichtung

GHV... 壁掛式プレート



- 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

	A	B	C	Storage For	Profile	Weight (g)	Price
GHV 0	80	63	10	All GPM 0 Plates	L/X	95	\$60.62
GHV 1	120	76	10	All GPM 1 Plates	L/X	147	\$67.00
GHV 2	180	102	10	All GPM 2 Plates	X/JX/HX/D	297	\$95.00
GHV 3	270	152	13	All GPM 3 Plates	X/JX/HX/D	817	\$100.00

GHV... Rack for EOAT Storage

GHV... Roboter Greifer Gestell

GHV...EOAT収納ラック



- EOAT Storage Rack can be customized to fit your needs.
- Uses GHV Wall Mounts on Heavy Duty Profile for stability.
- Available, as shown, on heavy duty casters for mobility or fixed with L-shaped legs for storing against the wall
- Multi EOAT storage capability



QSR... Semi-Automatic Tool Changer

QSR... Halbautomatischer Greiferwechsler



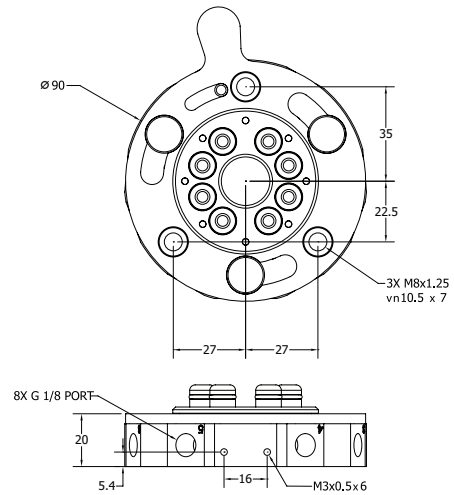
The SAS tool changer automatically connects multiple ports including air, vacuum, and electric, thereby, greatly reducing set-up time. Reliable port connection provides additional safety ensuring that all connections are aligned correctly.

Features

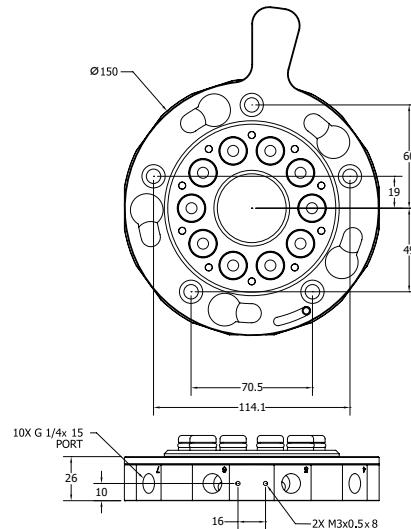
- Semi-Automatic Tool Changer for accurate, repeatable mounting of Robotic End-of-Arm Tooling.
- Couples air and vacuum lines automatically (8/10/18).
- Made of lightweight aluminum with durable steel lock ring
- Handles typical end-of-arm tool weights up to 25/75/90 lbs

	Weight (g)	Price
QSR 90-8	333	\$320.00
QSR 150-10	1114	\$525.00
QSR 160-18	1175	\$600.00

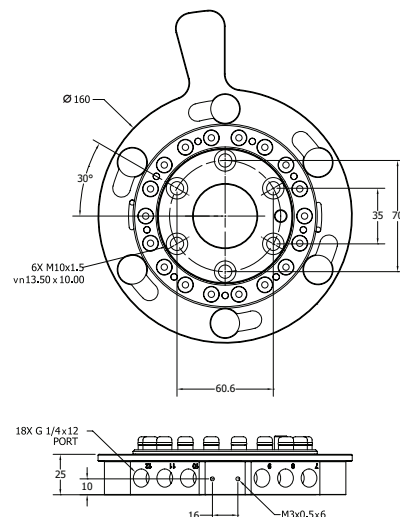
QSR 90-8



QSR 150-10



QSR 160-18





QST... Semi-Automatic Tool Changer

QST... Halbautomatischer Greiferwechsler

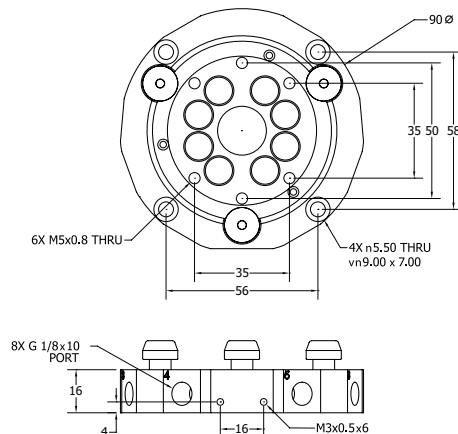


The SAS tool changer automatically connects multiple ports including air, vacuum, and electric, thereby, greatly reducing set-up time. Reliable port connection provides additional safety ensuring that all connections are aligned correctly.

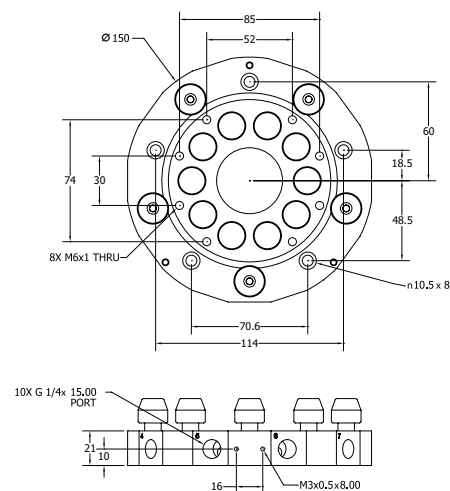
- Semi-Automatic Tool Changer for accurate, repeatable mounting of Robotic End-of-Arm Tooling.
- Couples air and vacuum lines automatically (8/10/18).
- Made of lightweight aluminum with durable steel locators
- Handles typical end-of-arm tool weights up to 25/75/90 lbs

	Weight (g)	Price
QST 90-8	213	\$185.00
QST 150-10	816	\$285.00
QST 160-18	929	\$375.00

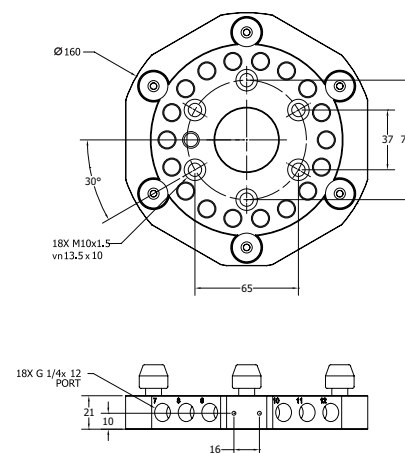
QST 90-8



QST 150-10

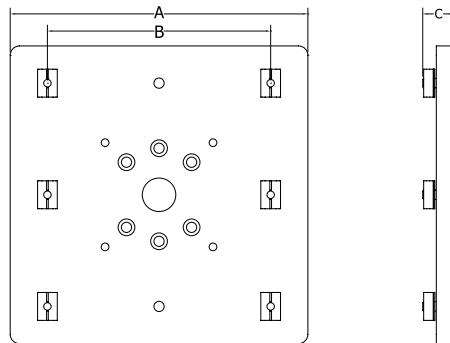


QST 160-18





QMP... Mounting Plate

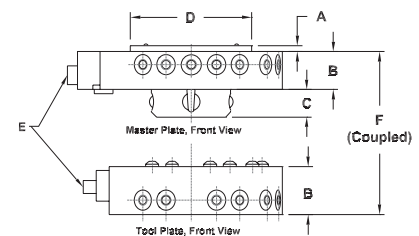
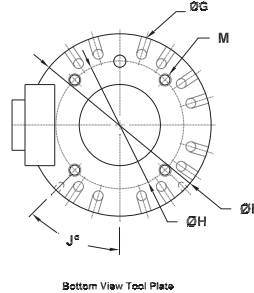
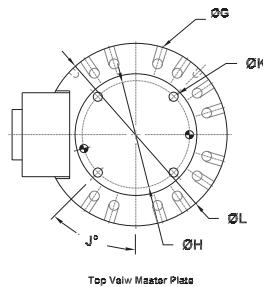


- Mounts profile straight up to the QST.
- Different size plates to mount up to the different QST sizes.

	A	B	C	Weight (g)	Price
QMP 1-90	100	70	15	~	\$47.50
QMP 2-90	160	120	17	724	\$43.66
QMP 2-150-160	160	120	17	669	\$64.66
QMP 3-150-160	250	200	17	~	\$75.62

QCC... Hands Free Quick Change Chuck

QCC...Schnellwechsel (Automatik)
QCC...クイックチャック交換装置



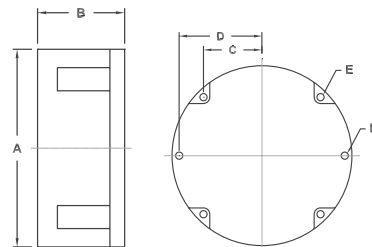
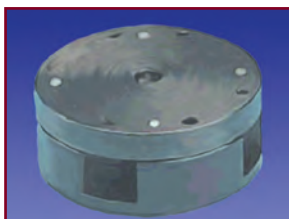
- Used in automatic robotic tool change application
- Integrated pneumatic and electrical connections
- Master plate and Tool plate sold separately
- Includes electrical connectors

Master Plate	A	B	C	D	E (Electrical)	F (Coupled)	G (#)	H (Bolt Circle)	J	K	L	M	Payload	Price
QCC 0	5	18	19	33	10-Pin	49	M5 (6)	40	45	3.5	49	~	8kg	\$1,007.00
QCC 1	3	16	13	45	10-Pin	39	M5 (6)	40	45	3.5	50	~	16kg	\$1,232.00
QCC 2	3	19	14	60	19-Pin	45	M5 (12)	53	45	4.5	90	~	25kg	\$1,553.00
QCC 3	3	27	18	80	19-Pin	57	1/8NPT (8)	65	30	5.5	115	~	50kg	\$1,670.00

Tool Plate	A	B	C	D	E (Electrical)	F (Coupled)	G (#)	H (Bolt Circle)	J	K	L	M	Payload	Price
QCT 0	~	26	~	~	10-Pin	49	M5 (6)	40	45	~	49	M5 x .8	8kg	\$422.00
QCT 1	~	21	~	~	10-Pin	39	M5 (6)	40	45	~	50	M5 x .8	16kg	\$445.00
QCT 2	~	24	~	~	19-Pin	45	M5 (12)	63	45	~	90	M6 x 1	25kg	\$545.00
QCT 3	~	27	~	~	19-Pin	57	1/8NPT (8)	80	30	~	115	M8 x 1.25	50kg	\$613.00

TAD... Tool Alignment Device

TAD... Werkzeugjustierungshilfe
TAD...ツール調整装置



- 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

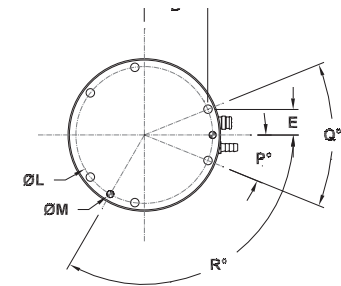
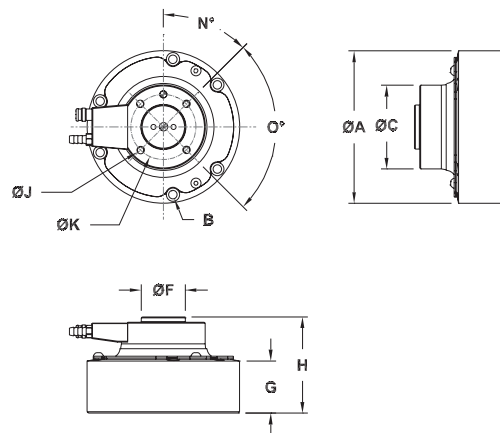
	A	B	C	D	E (Tap)	F (Slip Fit)	Lateral Misalignment (mm)	Rotary Misalignment	Max Payload (kg)	Payload @ 4.1 Bar (kg)	Torsion Resistance (N*m)	Price
TAD 0	76	30	23	33	#8-32	3/16"	+/- 2.5	+/- 5	18.6	8.5	11.8	\$772.06
TAD 1	102	41	31	45	#10-32	1/4"	+/- 2.5	+/- 5	33.6	15.3	30.7	\$1075.00
TAD 2	133	51	42	59	1/4-20	1/4"	+/- 2.5	+/- 5	44.7	20.3	51.7	\$1295.00
TAD 3	203	88	65	92	5/16-18	3/8"	+/- 2.5	+/- 5	99.2	45.1	157.6	\$1995.00



TCS...Collision Sensors

TCS... Kollisionssensoren

TCS...衝突センサ



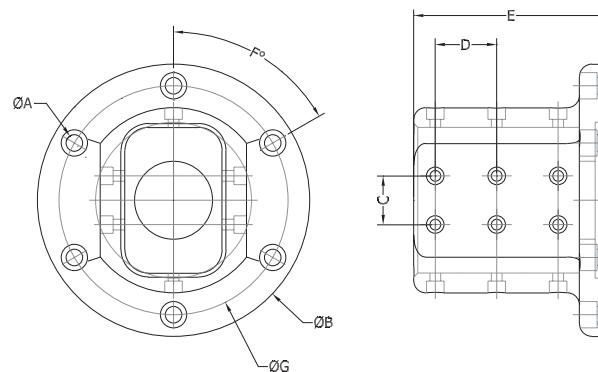
- Detects when the robot arm has encountered an obstruction
- Absorbs the crash energy
- Stops the robot to prevent costly damage to the robot arm and tooling
- Features a repeatability of 0.0005" and allows the user to adjust the amount of resistance the unit must overcome before stopping the system

	A	B (C'bore)	C	D	E	F	G	J	K	L	M (Slip Fit)	N	O	P	Q	R	Price
TCS-0	86	M4	48	36	15	31	52	M5	37	77	4	45	4x90	22	44	120	\$1,095.00
TCS-1	114	M5	63	48	19	40	64	M6	50	103	6	45	4x90	21	42	120	\$1,275.00
TCS-2	150	M6	85	64	25	51	79	M6	63	137	6	60	6x60	21	42	120	\$1,625.00
TCS-3	203	M8	117	86	33	71	105	M10	90	184	10	45	4x90	21	42	120	\$2,045.00
TCS-4	278	M10	163	120	46	99	143	M10	125	257	10	60	6x60	21	42	120	\$2,995.00

QCI... Quick Change Interface

QCI... Kupplungsstück

QCI...クイック・チェンジ・インターフェー;



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



	A	B	C	D	E	F	G	Profile	Price
QCI 30 T	14/9	127	~	~	100	60	100	T-30	\$175.00
QCI 75/50 D	14/9	140	25	32	100	60	118	D	\$350.00