



PXT Series - Single Beam End-of-Arm Tooling Kit



Schmalz PXT is a system of parts that allows the user to build end-of-arm tooling for lightweight robots. The single beam kit has everything needed to build a small end-of-arm tool.

Features:

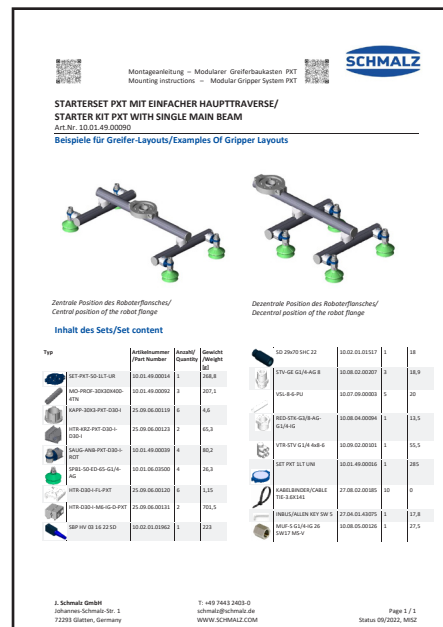
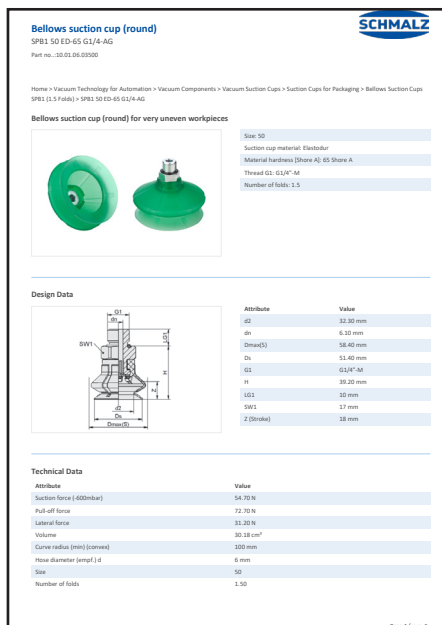
- Includes structural rail, connectors, cup mounts, vacuum tubing, vacuum cups, fittings and robot interfaces flanges
- Basic vacuum ejector included
- Purchase additional components as needed to build a custom design

PXT Series - Single Beam Gripper Framing Kit				
Part No.	Description	Price	Drawing Link	Vendor Manual
10.01.49.00090	Schmalz PXT series single beam gripper framing kit, kit includes Universal Robots and blank flanges, extruded rails and assorted parts.	\$1,020.00	PDF	PDF

See the System Insert for a full list of included items

Permissible loads vary with product weight, tool overall dimensions and configuration. Complete load and dimension limitations are listed in the installation and assembly guide, see link above for Vendor Manual.

For specs on included suction cups, please see the suction cup specifications below:





PXT Series - Double Beam End-of-Arm Tooling Kit



Schmalz PXT is a system of parts that allows the user to build end-of-arm tooling for lightweight robots. The double beam kit has everything needed to build a medium-sized end-of-arm tool.

Features:

- Includes structural rail, connectors, cup mounts, vacuum tubing, vacuum cups, fittings and robot interfaces flanges
- Basic vacuum ejector included
- Purchase additional components as needed to build a custom design

PXT Series - Double Beam Gripper Framing Kit

Part No.	Description	Price	Drawing Link	Vendor Manual
10.01.49.00091	Schmalz PXT series double beam gripper framing kit, kit includes Universal Robots flange, extruded rails and assorted parts.	\$1,660.00	PDF	PDF

See the System Insert for a full list of included items

Permissible loads vary with product weight, tool overall dimensions and configuration. Complete load and dimension limitations are listed in the installation and assembly guide, see link above for Vendor Manual.

For specs on included suction cups, please see the suction cup specifications below:

Bellows suction cup (round)

SPB1 50 ED-65 G1/4-A-G

Part no.: 10.01.00.00000

Home > Vacuum Technology for Automation > Vacuum Components > Vacuum Suction Cups > Suction Cups for Packaging > Bellows Suction Cups

SPB1 (1.5 FPA) > SPB1 50 ED-65 G1/4-A-G

Bellows suction cup (round) for very uneven workpieces

Size: 50

Suction cup material: Elastoflex

Material hardness (Shore A): 65 Shore A

Thread G1: G1/4" M

Number of holes: 2.5

Attribute	Value
Ø1	32.30 mm
Ø2	6.10 mm
Ø3	58.40 mm
H	51.40 mm
G1	G1/4" M
H	39.20 mm
L	30 mm
Ø2	37 mm
2 (Dinver)	38 mm

Technical Data

Attribute	Value
Suction force (400mbar)	54.70 N
Pull-off force	72.70 N
Lateral force	31.20 N
Vacuum	30.20 mPa
Curve radius (mm) (convex)	100 mm
Hole diameter (mm) [d]	6 mm
Size	50
Number of holes	1.50

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Montageanleitung - Modularer Greiferbaukasten PXT

Mounting Instructions - Modular Gripper System PXT

STARTERSET PXT MIT DOPPEL-HAUPTTRASSE/

STARTER KIT PXT WITH DOUBLE MAIN BEAM

Art-Nr.: 10.01.49.00091

Beispiele für Greifer-Layouts/Examples of Gripper Layouts

Zentrale Position des Roboterflansches/
Central position of the robot flange

Dezentrale Position des Roboterflansches/
Decentral position of the robot flange

Inhalt des Sets/Set Content

Teil	Teilnummer Part Number	Menge Quantity	Gewicht Weight (g)
1. Extruded rail	10.01.00.00000	1	10.0
2. Connector	10.01.00.00001	1	10.0
3. Cup mount	10.01.00.00002	1	10.0
4. Vacuum tubing	10.01.00.00003	1	10.0
5. Vacuum cup	10.01.00.00004	1	10.0
6. Fitting	10.01.00.00005	1	10.0
7. Robot interface flange	10.01.00.00006	1	10.0
8. Basic vacuum ejector	10.01.00.00007	1	10.0
9. Additional components	10.01.00.00008	1	10.0
10. Total weight			100.0

J. Schmalz GmbH

Johnes Schmalz Str. 1

72203 Göttingen, Germany

T: +49 7443 2403-0

schmalz@schmalz.de

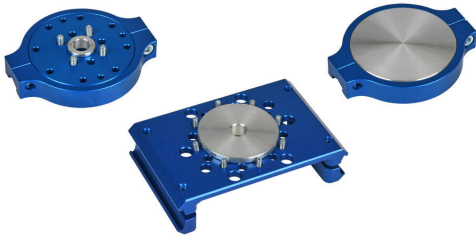
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Status: 09/2022, M102



PXT Series - Interface Flange Components



Schmalz PXT robot interface flange sets allow easy connection of end-of-arm tooling to many popular lightweight robot arms. Flanges are available to mount either single or double beam tooling setups.

Features:

- Low profile flanges help minimize space for tooling. This allows more range of motion for the robot
- Flange patterns fit many popular lightweight robots
- Blank flange available to allow user customization
- All flanges constructed of lightweight anodized aluminum

PXT Series - Interface Flange Components					
Item Image	Part No.	Description	Price	Drawing Link	Vendor Manual
	10.01.49.00012	Schmalz PXT series interface flange, single beam. For use with FANUC 31.5mm pitch robot arm. Mounting hardware included.	\$301.00	PDF	PDF
	10.01.49.00013	Schmalz PXT series interface flange, single beam. For use with FANUC 64mm pitch robot arm. Mounting hardware included.	\$301.00	PDF	PDF
	10.01.49.00014	Schmalz PXT series interface flange, single beam. For use with Universal Robots 50mm pitch robot arm. Mounting hardware included.	\$301.00	PDF	PDF
	10.01.49.00015	Schmalz PXT series interface flange, single beam. For use with Yaskawa 63mm pitch robot arm. Mounting hardware included.	\$301.00	PDF	PDF
	10.01.49.00016	Schmalz PXT series interface flange blank, single beam. For use with robots or other automation devices.	\$301.00	PDF	PDF
	10.01.49.00024	Schmalz PXT series interface flange, double beam. For use with FANUC 31.5mm pitch robot arm. Mounting hardware included.	\$433.00	PDF	PDF
	10.01.49.00025	Schmalz PXT series interface flange, double beam. For use with Rethink 40mm pitch robot arm. Mounting hardware included.	\$433.00	PDF	PDF
	10.01.49.00026	Schmalz PXT series interface flange, double beam. For use with Universal Robots 50mm pitch robot arm. Mounting hardware included.	\$433.00	PDF	PDF
	10.01.49.00027	Schmalz PXT series interface flange, double beam. For use with Yaskawa 63mm pitch robot arm. Mounting hardware included.	\$433.00	PDF	PDF
	10.01.49.00028	Schmalz PXT series interface flange, double beam. For use with FANUC 64mm pitch robot arm. Mounting hardware included.	\$433.00	PDF	PDF
	10.01.49.00029	Schmalz PXT series interface flange, double beam. For use with Yaskawa 80mm pitch robot arm. Mounting hardware included.	\$433.00	PDF	PDF

For additional details see manufacturer's technical specifications, manuals and inserts (where applicable).



PXT Series - Mounting Components



Schmalz PXT mounting components allow for easy assembly of custom end-of-arm tooling. These components work with Schmalz PXT extruded rails to build vacuum tooling systems to lift moderate loads.

Features:

- Easy to assemble and adjust to fit a wide range of applications
- Connectors that are internal vacuum capable allow for very clean and compact systems
- All parts are anodized aluminum

PXT Series - Mounting Components					
Item Image	Part No.	Description	Price	Drawing Link	Vendor Manual
	10.01.49.00034	Schmalz PXT series rail connector, cross, internal vacuum capable, aluminum alloy. For use with (2) D30-I profiles.	\$222.00	PDF	PDF
	25.09.06.00123	Schmalz PXT series rail connector, cross, aluminum alloy. For use with (2) D30-I profiles.	\$30.00	PDF	PDF
	25.09.06.00143	Schmalz PXT series tubing holder, plastic. Package of 10.	\$19.50	N/A	PDF
	25.09.06.00131	Schmalz PXT series rail connector, threaded, aluminum alloy. For use with D30-I profile.	\$31.00	PDF	PDF
	10.01.49.00047	Schmalz PXT series rail connector, tee, aluminum alloy. For use with (2) D30-I profiles.	\$23.00	PDF	PDF
	25.09.06.00121	Schmalz PXT series rail connector, parallel, aluminum alloy. For use with (2) D30-I profiles.	\$15.00	PDF	PDF
	25.09.06.00122	Schmalz PXT series tube clamp, aluminum alloy. For use with 30mm round tube.	\$15.00	PDF	PDF

For additional details see manufacturer's technical specifications, manuals and inserts (where applicable).



PXT Series - Connection Components



Schmalz PXT cup mounts allow easy mounting of vacuum cups at any location desired on PXT extruded rail. All mounts have female G1/4 BSPP connection to fit a wide range of vacuum cups.

Features:

- External or internal vacuum mounts available
- Drill bushing for internal vacuum mounts ensures precision location and a leak-free connection
- 5/16in (8mm) push-to-connect vacuum connections for external vacuum allow quick and easy hook-up

PXT Series - Connection Components					
Item Image	Part No.	Description	Price	Drawing Link	Vendor Manual
	<u>10.01.49.00036</u>	Schmalz PXT series suction cup mount, slotted, 5/16in (8mm) push-to-connect vacuum connection, G1/4 female BSPP cup connection, aluminum alloy. For use with D30-I profile.	\$140.00	<u>PDF</u>	<u>PDF</u>
	<u>10.01.49.00039</u>	Schmalz PXT series suction cup mount, swivel, 5/16in (8mm) push-to-connect vacuum connection, G1/4 female BSPP cup connection, aluminum alloy. For use with D30-I profile.	\$98.00	<u>PDF</u>	<u>PDF</u>
	<u>10.01.49.00045</u>	Schmalz PXT series suction cup mount, straight, internal vacuum capable, G1/4 female BSPP cup connection, aluminum alloy. For use with D30-I profile.	\$176.00	<u>PDF</u>	<u>PDF</u>
	<u>10.01.49.00046</u>	Schmalz PXT series suction cup mount, swivel, internal vacuum capable, G1/4 female BSPP cup connection, aluminum alloy. For use with D30-I profile.	\$231.00	<u>PDF</u>	<u>PDF</u>
	<u>10.01.49.00038</u>	Schmalz PXT series suction cup mount, swivel, aluminum alloy. For use with D30-I profile.	\$65.00	<u>PDF</u>	<u>PDF</u>
	<u>10.01.49.00044</u>	Schmalz PXT series drill bushing, internal vacuum capable, 8mm, steel. For use with M16x1 threaded hole.	\$33.50	N/A	<u>PDF</u>
	<u>10.01.49.00057</u>	Schmalz PXT series drilling fixture, internal vacuum capable, 8mm, aluminum alloy. For use with 8mm drill bushing.	\$73.00	N/A	<u>PDF</u>
	<u>10.08.02.00589</u>	Schmalz PXT series suction cup connector, straight, 5/16in (8mm) push-to-connect vacuum connection, G1/4 female BSPP cup connection.	\$48.00	<u>PDF</u>	<u>PDF</u>

For additional details see manufacturer's technical specifications, manuals and inserts (where applicable).



PXT Series - Structural Rail



Schmalz PXT structural rail comes in two profiles each in lengths of 500mm and 1000mm. The D30-I profile can carry internal vacuum for a cleaner, more compact system.

Features:

- 30mm round and 30 x 25mm D-shape profiles
- T-slots work with connectors and mounts for quick and easy assembly
- Anodized aluminum

PXT Series - Structural Rail Components					
Item Image	Part No.	Description	Price	Drawing Link	Vendor Manual
	10.01.49.00087	Schmalz PXT series structural rail, internal vacuum capable, round, D30-I (30 x 30mm) profile, 1000mm length, anodized aluminum.	\$57.00	PDF	PDF
	10.01.49.00086	Schmalz PXT series structural rail, internal vacuum capable, round, D30-I (30 x 30mm) profile, 500mm length, anodized aluminum.	\$43.00	PDF	PDF
	10.01.49.00089	Schmalz PXT series structural rail, half-round, 8D30-I (30 x 25mm) profile, 1000mm length, anodized aluminum.	\$62.00	PDF	PDF
	10.01.49.00088	Schmalz PXT series structural rail, half-round, 8D30-I (30 x 25mm) profile, 500mm length, anodized aluminum.	\$46.00	PDF	PDF
	10.01.49.00031	Schmalz PXT series end seal, internal vacuum capable, aluminum alloy. For use with D30-I profile.	\$39.00	PDF	PDF
	25.09.06.00144	Schmalz PXT series end cap, plastic. Package of 6. For use with D30-I profile.	\$20.00	PDF	PDF
	25.09.06.00145	Schmalz PXT series end cap, plastic. Package of 6. For use with 8D30-I profile.	\$20.00	PDF	PDF

For additional details see manufacturer's technical specifications, manuals and inserts (where applicable).



Vacuum Ejectors

Multi-Stage Ejectors



Part No. [10.02.01.01606](#)
Model No. SBPL-100-HF-NPT



Part No. [10.02.01.01598](#)
Model No. SBPL-100-HF

Basic Ejectors



Part No. [10.02.01.00566](#)
Model No. SBP-15-S02-SDA



Part No. [10.02.01.01962](#)
Model No. SBP-HV-3-16-22-KU

Schmalz multi-stage and basic ejectors are efficient with a very high suction rate. They are excellent for vacuum applications with both airtight and porous products. Either ejector is easily maintained.

Features:

- SBPL multi-stage ejectors can be used for central vacuum applications with suction rates of 500 l/min [17.7 cfm] to 860 l/min [30.4 cfm] and are ideal for porous applications
- SBP basic ejectors can mount very close to the cup with suction rates of 37.7 l/min [1.3 cfm] to 308.8 l/min [10.9 cfm] and are ideal for non-porous applications such as plastic injection molding

Vacuum Ejectors							
Part No.	Schmalz Model No.	Price	Suction Rate	Inlet(s)	Vacuum Port	Drawing Link	Manufacturer Specs
10.02.01.01605	SBPL-50-HF-NPT	\$452.00	500.0 l/min [17.7 cfm]	3/8 in female NPT	3/4 in female NPT	PDF	PDF
10.02.01.01606	SBPL-100-HF-NPT	\$748.00	860.0 l/min [30.4 cfm]		1 inch female NPT	PDF	PDF
10.02.01.01597	SBPL-50-HF	\$452.00	500.0 l/min [17.7 cfm]	G3/8 female BSPP	G3/4 female BSPP	PDF	PDF
10.02.01.01598	SBPL-100-HF	\$748.00	860.0 l/min [30.4 cfm]		G1 female BSPP	PDF	PDF
10.02.01.00565	SBP-10-S02-SDA	\$50.00	37.7 l/min [1.3 cfm]	6mm push-to-connect	8mm push-to-connect	PDF	PDF
10.02.01.00566	SBP-15-S02-SDA	\$54.00	71.0 l/min [2.5 cfm]			PDF	PDF
10.02.01.01962	SBP-HV-3-16-22-KU	\$233.00	308.8 l/min [10.9 cfm]	G1/4 female BSPP	G3/8 female BSPP	PDF	PDF

For additional details see manufacturer's technical specifications, manuals and inserts (where applicable).

Basic Ejector Accessories



Part No. [10.02.01.01517](#)
Model No. SD-29x70-SHC-22

Basic Vacuum Ejector - Accessories				
Part No.	Description	Price	Drawing Link	Manufacturer Specs
10.02.01.01517	Schmalz silencer, plastic. For use with SBP-HV-3-16-22-KU ejector.	\$8.50	PDF	PDF

For additional details see manufacturer's technical specifications, manuals and inserts (where applicable).