

Suction cups.

Suction cups open up a world to innovative lifting technology. The cups can be used to e.g. handle panels, sheets or concrete slab, open bags, etc. and to pick electronic components as well as label and secure miscellaneous items.

Different applications pose different requirements. Together with Piab, IBC offers one of the widest suction cup ranges to ensure each individual application gets its own solution.

Some of the most common industrial suction cups are shown below.



XLF



- Suitable for handling large and heavy panels, such as glass and metal plates, with flat or slightly concave surfaces.
- The friction pattern contributes to improved safety and ability to handle sloping or vertical glass and metal panels.
- The twin flange is a fail-safe design in case of overloading or tears in the outer flange.
- The hard-wearing and surface-resistant material reduces the risk of marks.
- The flat mounting plate offers a flexible mounting interface.
- Extra port suitable for a vacuum switch or efficient free-blow valve.

F-Flat (15-150 mm)



- Suitable for flat objects such as cardboard, steel plates, glass and porous materials.
- The barrier rails prevent deformation of the object due to being sucked into the cup.
- The suction cup features high stability and small inherent movement.
- Also suitable for vertical lifts since the barrier rails provide increased friction.

FCF- Flat, Concave, Friction (35-125 mm)



- Friction cup specially designed for greasy surfaces such as metal plates in metal forming processes.
- Thanks to the excellent grip on greasy surfaces, the suction cups can withstand high shearing strains, typical 2-4 times higher than with conventional suction cups.
- The FCF-P is suitable for curved and flat surfaces which, among others, are common when handling plates and panels in press processes.
- The suction cups feature supporting rails to prevent deformation of thin objects.
- DURAFLEX® suction cups are manufactured in a specially developed material with elastic properties like rubber and wearing qualities like polyurethane.
- The material leaves no marks.

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SUCTION CUPS

F- Flat (75-110 mm)



- Suitable for flat objects such as cardboard, steel plates and porous materials.
- The barrier rails prevent deformation of the object due to being sucked into the cup.
- The suction cup features high stability and small inherent movement.
- Also suitable for vertical lifts since the barrier rails provide increased friction.
- DURAFLEX® suction cups are manufactured in a specially developed material with elastic properties like rubber and wearing qualities like polyurethane.
- The material leaves no marks.

BX- 2½ bellows (10-110 mm)



- Suitable for uneven and porous surfaces, such as cardboard.
- DURAFLEX® suction cups are manufactured in a specially developed material with elastic properties like rubber and wearing qualities like polyurethane.
- The material leaves no marks.

OCF – Oval, Concave, Friction (20x80-40x110 mm)



- Specially developed friction suction cups for greasy surfaces such as steel plates in metal working processes.
- Thanks to the powerful grip on greasy surfaces, the suction cups can withstand high acceleration/braking forces, typical 2-4 times higher than with conventional suction cups.
- The OCF-P design is suitable for long objects with slightly curved or flat surfaces, e.g. body parts in the vehicle industry.
- The suction cups feature a built-in support to prevent deformation of thin objects.
- DURAFLEX® suction cups are manufactured in a specially developed material with elastic properties like rubber and wearing qualities like polyurethane.
- The material leaves no marks.

FDA



- The material is approved according to FDA (FDA 21 CFR 177.2600) and complies with the EU Directive 1935/2004.
- Most of the suction cups are transparent and free of colour pigments.

piGRIP® adjustable suction cups



- A unique suction cup concept with optimised parts to grip, lift and perform level compensation.
- Supports in different dimensions act as a distance piece for all bellows and flanges.
- Powerful, stable piGRIP® suction cups with 1, 3 and 6 bellows enable even very high machine speeds. The design with thin walls allows the cups to compress faster, while they consume less power and energy. The impressive strength of the material increases lifting capacity by around 30-50% compared to conventional suction cups.
- A filter plate inside the bellows protects the system against dust and other particles.

piSAVE sense



- Vacuum check valves to guard against a few suction cups missing the object(s) while still retaining sufficient vacuum in the system for rapid response and release.
- Vacuum check valves are for use in a centralised system with one valve for each suction cup. When using vacuum check valves, smaller vacuum pumps can be used to save energy.
- Suitable for handling different sizes or varying numbers of leaking objects, such as MDF boards and corrugated cardboard, with a flexible object handling installation.
- Also suitable for objects with surface leakage around the suction cup flange.
- Available in three sizes.

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