

EcoCGrip



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EcoCGrip stands for a new, parallel gripper in a modular design with 2 optional rotation axes. It can be easily adapted to different tasks and workpieces and meets all the demands of modern cleaning systems. Highest safety standards, operation under difficult wet chemical conditions and the ability to handle workpieces of up to 70 kg are further features.

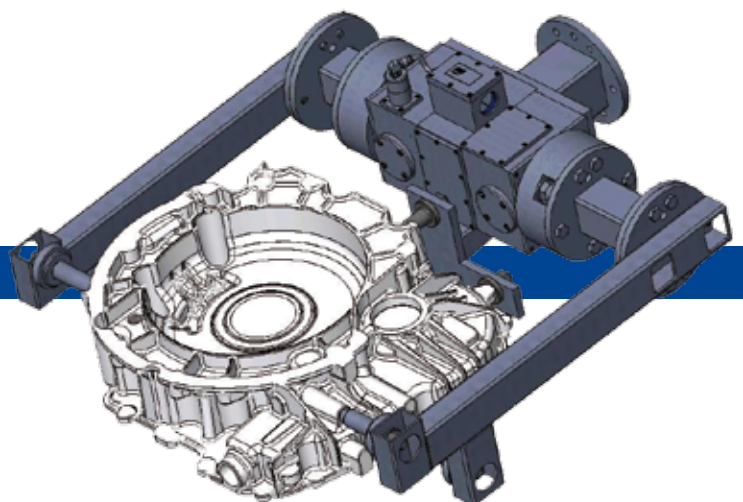
Operation under difficult wet chemical conditions

The gripper is primarily for use in cleaning systems in which individual workpieces are cleaned with an aqueous medium and then dried. The gripper, which is attached to a robot, picks up the workpiece from a conveyor belt outside the cleaning system and feeds it into the different processing stages within the system. Here, there is a range of possible cleaning operations such as flood washing at 10 bar in which the workpiece and gripper arm are completely immersed in the liquid. The gripper itself is not immersed but is hit by spray and splash water.


High pressure applications are also possible. A jet of water with a pressure of 400–500 bar is used to clean and deburr the workpiece surfaces to remove burr and impurities. During this process deflected jets of water may hit the gripper housing at high speed and cause a reaction force of 50 N to 100 N on the workpiece.

The workpiece is dried with approx. 250 mbar compressed air. Drying with 6 bar compressed air is also used for targeted applications.

The *EcoCGrip* copes with all of these processes and ensures a problem-free cleaning process. 

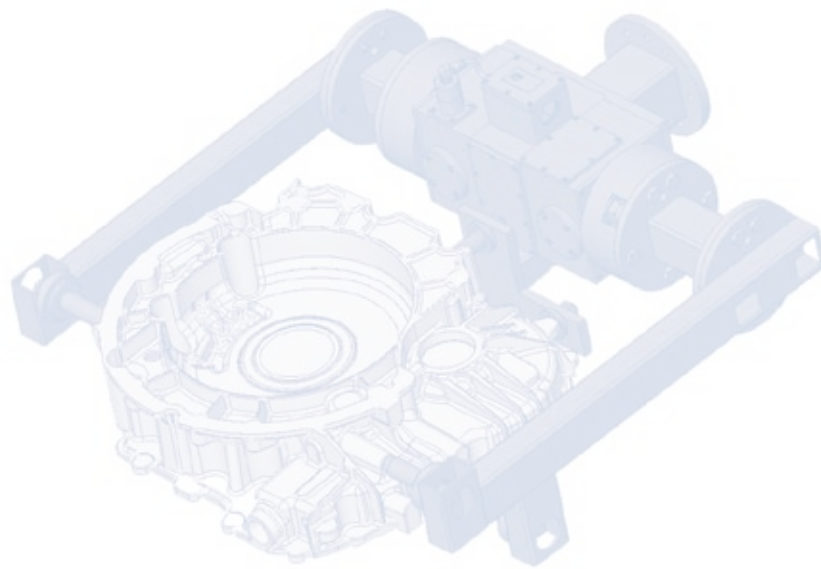


Advantages

- The modular design enables the gripper to be adapted to suit different workpiece geometries with minimum engineering work.
- It can be used as a purely parallel gripper as well as with a binder.
- A new feature is the ability to handle workpieces with a weight of up to 70 kg and to move them with an overlaid rotation axis.
- An integrated brake system ensures quick and safe operation under all circumstances, even when the compressed air supply fails.
- Treating the inside of the gripper with sealing air prevents moisture from entering and condensation from accumulating within the gripper. 



Technical Data	
Operating pressure	4 to 8 bar
Working pressure	5 bar
Hub	40 mm
Pivoting angle	90° +/- 3°
Lifetime	2,500,000 operating cycles (at 500,000 operating cycles annually)
Maintenance intervals	
Small service	after 500,000 operating cycles (or 1 year)
Large service	after 2,500,000 operating cycles (or 1 year)
Environmental conditions	
Air humidity	95–100 %
Environmental temperature	+5°C to +60°C
Corrosion resistance for outside parts in accordance with FN 940070 Part 1	KBK 3
Free from substances that might prevent paint wetting in accordance with FN 942 010	LABS free



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