

Dual Belt Gripper Lip TGC-DBG-XX [SM/MD/LG]



The Modular belt gripper, with a series of job-optimized attachable belts is a another ground breaking innovative design, that empowers you to mimic the human two finger delicate grasp of especially small thin items, that just intuitively tends to grasp at the finger-tips of your thumb and forefinger. Even very fractal items like herb cuttings easily get grasped the belt gripper.

Designed for the “COMPLIANT SEFL-ALIGNING” grasp

The tree belts are all optimized to match a targeted variety of object in respective dimen belt are carefully designed to balance gentleness and firmness of the grasp. The overall natural grasp , hold and release motion that fulfills a number of requirements such as

- Positioning tolerance
- Size- and shape tolerance
- Secure grasp
- Controlled release /placement
- even mounting with self-compliance
- minimum clearance requirements
- longevity and durability, even when crashed unintended

The release capability

When releasing the grasped item, the gripping process is reversed meaning the time in allowing a very comprehensive placement.

Low clearance requirements

Products may be presented in a dense collection even in a bin in multiple layers. Also when placement may often require a thigh-fit the

Best in class Total cost of ownership, saves up to 90% energy

Save up to 90% energy compared to your standard suction cup. Make your own consumption savings calculation - link

Long lifetime

Save up to 90% energy compared to your standard suction cup. Make your own consumption savings calculation - link

Safely and ease of use and handling

As our grippers reflects bionic design its intuitively easy to get a basic idea about how our grippers works. The

High compliance

Innovative gripper design delivers a unique outstanding level of self-compliance, providing a firm but natural gentleness when conforming around the workpiece.

Typical workpieces



Herb cuttings and other similar cutting requires firm gentle grasp



Thin cylindric plastic/glass/matal (nails, bolts, screws) intersection inner surface structures of the belts are FEM optimized to ensure a to grasp thin parts



Nuts and Bolts



but gently and control roll free of the belts



Dual Belt Gripper Lip

SKU	Lip color	Fingertips	Max Pull (N)	Max push [N]	Actuator stroke [mm]	Min/Max. items size ²	Esp. MTBF [mill]	weight	Food Grade
TGC-DBG -NON-A3	Green	5 RIPS	80	100	30	13-65	5	142g	Yes
TGC-B-SM-SR	Red	Tiny reps	80	100	20(use blocking)	0.3-5	3	9g	Yes
TGC-B-MD-MR	Blue	Medium rips	80	100	20 (use blocking)	2-10	3	18g	Yes
TGC-B-MDPI-MR	Blue	Medium rips	80	100	20 (use blocking)	2-10	3	16g	Yes
TGC-B-LG-SR	Gray	Small rips	80	100	20(use blocking)	4-20	3	25g	Yes

- 3) Diameter, trials would have to validate the case specific feasibility
- 4) Exp. release Jan/21

