CGrasp

COBOTSYS SUPPORT

Sharp Eyes and Swift Hands Make Everything Accessible

Versatile and smart grasping

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▶ Product Description

The rapid development of society is constantly improving people's living standards, and the diversity of products makes the sorting demand of the manufacturing industry increase geometrically. However, the characteristics of labor-intensive industries have greatly limited the normal development of manufacturing industry. The efficiency, precision and cleanliness requirements of loading and unloading, stacking and unstacking, and disorderly sorting are facing huge bottlenecks. A more intelligent, more efficient and more secure man-machine cooperation mode emerges at the historic moment, which not only solves the increasingly high labor costs of manufacturing industry but also constructs a healthy manufacturing ecology.

CGrasp is a robotic high-speed and flexible grasping solution independently developed by COBOT. It can select the optimal visual algorithm and motion path adaptively according to the type of objects. CGrasp is accurate, fast and flexible can perfectly meet the sorting needs of logistics, pharmaceutical, food, 3C, retail and other industries.

▶ Product Advantage

Suitable for a variety of goods
Has been tested for more than 10000 products in medicine, food, 3C and retail.

Top speed
Grasp speed up to 4 sec/piece.

Flexible Deployment
The product is mobile grasping system, users can adjust the number of devices according to business requirements.

Superb robustness
To easily deal with extreme conditions like deep frame grasping, and reflective objects in-depth optimization have been done.

Rapid introduction of new products
A new product can be verified in 3 minutes.

Stable and maintenance-free system
The product can work stably 7*24 hours without maintenance.

▶ Product Framework

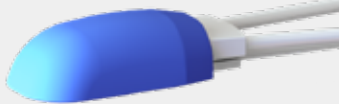### High Speed Intelligent Gripper

For different scenarios such as sorting and stacking, we provide a variety of high-speed smart grippers. Among them, the two-fingered sucker gripper used in order sorting on e-commerce platform combines sucker and flexible finger. The flexible finger can assist in clamping objects and improve reliability. The gripper has a vacuum pressure sensor and a pneumatic buffer device, which can realize the closed-loop control of grasping through pressure detection feedback, and also can protect the objects being grasped.

Optimal Grab Planning

CGrasp provides the shortest-path grasping planning algorithm. The manipulator has shorter moving path and faster grasping speed.

Independent mobile platform

The robot is installed on an independent mobile platform for rapid deployment.

Adaptive Robot Vision

CGrasp provides a variety of robot vision algorithms, and selects the optimal algorithm adaptively according to the type of objects, covering a large number of items.

▶ Applications

Robotic sorting system for an
E-commerce company

Smart Mushroom sorting system

Disordered parts sorting system

Visually guided robot palletizing system

▶ Parameter Configuration

Eformance Parameters	
Grab Efficiency	Up to 4 sec/piec e
Object Type	Independently p acked obje cts
Temperature Rang e	0℃ ~ 50℃
Humidity Range	20%~80%
Applic able Sc enario	E-commerce order sorting, expr ess sorting, s tacking, uns tacking, workpiec e loading and unlo ading, etc

让 每 一 个 人 都 能 使 用 工 业 机 器 人