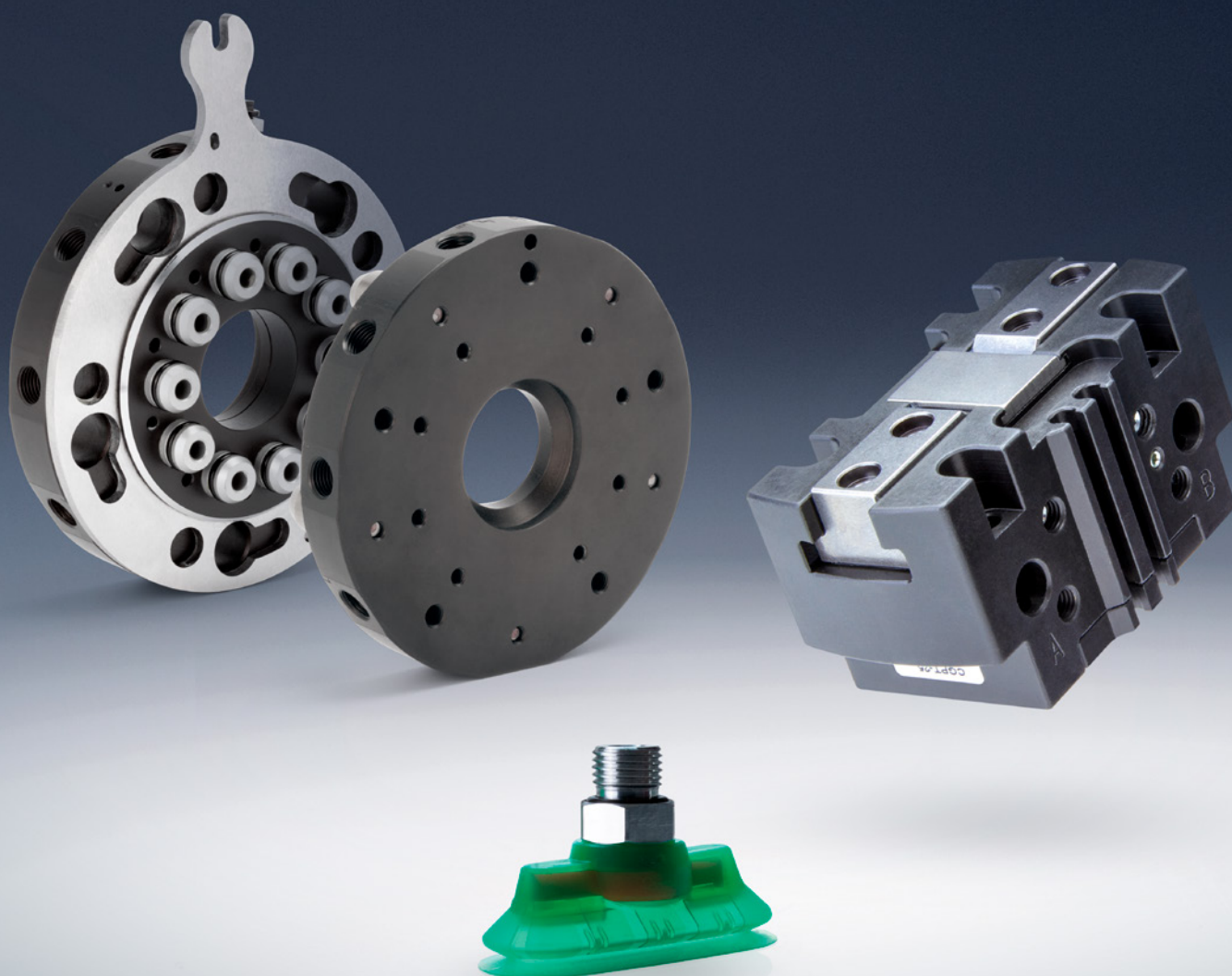


OVERVIEW

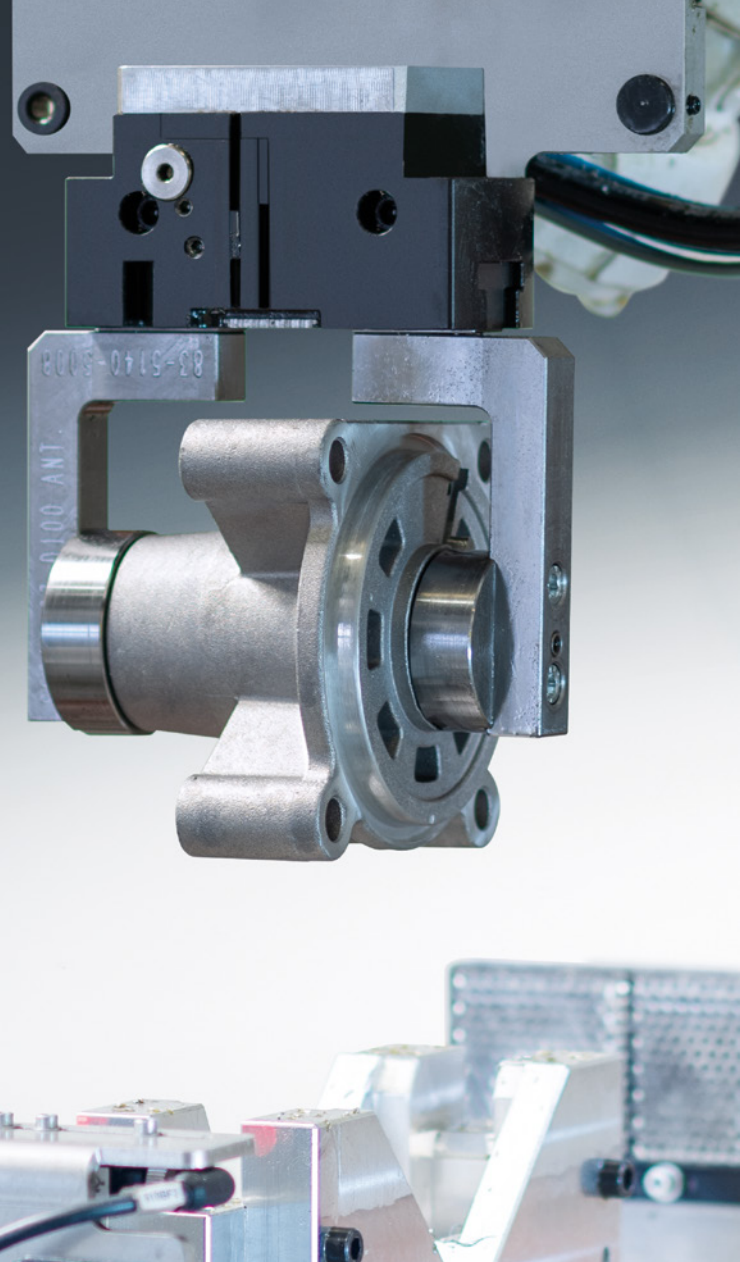


## HANDLING SOLUTIONS



# RELIABILITY AND FLEXIBILITY IN A COMPACT DESIGN

Modern industrial processes in which an ever-increasing amount of automation is required, handling is of essential importance to increase the productivity and performance of machinery.



Grippers, tool changer and vacuum components are available in a range of different versions **and sizes and are made to meet market demands** in terms of miniaturisation, reliability, flexibility and adaptability.

The wide range of handling solutions will provide the best solution for every application sector, from material handling and assembly to robotics and machine tool loading and unloading up to **the most complex mechatronic solutions** required by Industry 4.0.

## SECTORS

- Packaging
- Food & beverage
- Plastics & rubber
- Life science
- Automotive
- Electronic systems
- Material handling
- Assembly & robotics
- Machine tools



## Conceived for any application



Machine  
Tending



Pick & Place



Pick & Hold



Feeding



Sorting



Transferring



Palletising



Testing and  
Quality Control



# GRIPPERS

All grippers are optimised in terms of weight and dimensions, to facilitate the connection to different handling systems, from gantry to anthropomorphic and collaborative robots.

## Long stroke parallel grippers with ball guide **Series CGPL**

New



Sizes: 8, 12, 16, 20  
Total force: 45 ÷ 340 N  
Total stroke: 8 ÷ 80 mm  
Version: Double acting

### BENEFITS

- Compact Design
- Lightweight
- Long stroke
- High speed opening & closing
- High repeatability

### APPLICATIONS

- Pick & Place
- Inserting

### SECTORS



Assembly & Robotics

## Parallel grippers with T-guide **Series CGPT**



Sizes: 16, 20, 25, 32, 40  
Total force: 114 ÷ 780 N  
Total stroke: 5 ÷ 20 mm  
Versions: Single and double acting

### BENEFITS

- High resistance to external static and dynamic loads
- High closing/opening repeatability
- Protected from penetration by impurities

### APPLICATIONS

- Machine Tending
- Pick & Place
- Pick & Hold
- Palletizing

### SECTORS



Assembly & Robotics



Material Handling



Machine Tools

## Compact, parallel grippers **Series CGSP**



Sizes: 20, 25, 32, 40  
Total force: 45 ÷ 220 N  
Total stroke: 5 ÷ 16 mm  
Version: Single and double acting

### BENEFITS

- Compact and light design
- Compatible with magnetic proximity switches or inductive sensor kits
- Protected from penetration by impurities

### APPLICATIONS

- Transferring
- Inserting
- End of arm Tooling (EOAT)

### SECTORS



Assembly



Plastics & Rubber



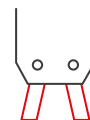
Food & Beverage



Cosmetics & Pharma



Packaging



## Parallel grippers with H-shaped guide **Series CGPM**



Sizes: 12, 16, 25, 35, 45  
Total force:  $28 \div 1082 \text{ N}$   
Total stroke:  $5,3 \div 41 \text{ mm}$   
Versions: Single and double acting

### BENEFITS

- Robust, compact and light design
- High closing/opening repeatability
- Protected from penetration by impurities

### APPLICATIONS

- Machine Tending
- Pick & Place
- Pick & Hold
- Palletizing

### SECTORS



Assembly & Robotics



Material Handling



Machine Tools

## Parallel grippers with double ball bearing guide **Series CGPS**



Sizes: 10, 16, 20, 25, 32  
Total force:  $34 \div 424 \text{ N}$   
Total stroke:  $4 \div 20 \text{ mm}$   
Versions: Single and double acting

### BENEFITS

- Highly flexible mounting
- High closing/opening repeatability
- Protected from penetration by impurities

### APPLICATIONS

- Transferring
- Inserting
- Machine Tending
- End of arm Tooling (EOAT)

### SECTORS



Assembly & Robotics



Plastics & Rubber

## Wide opening parallel grippers **Series CGLN**



Sizes: 10, 16, 20, 25, 32  
Total force:  $15 \div 225 \text{ N}$   
Total stroke:  $20 \div 160 \text{ mm}$   
Version: Double acting

### BENEFITS

- Robust and light design
- Highly flexible mounting
- Wide range of strokes available

### APPLICATIONS

- Palletizing
- Pick & Place

### SECTORS



Material Handling



Packaging

## GRIPPERS

### Radial grippers 180° opening **Series CGSY**



Sizes: 10, 16, 20, 25  
Total torque: 50 - 790 Ncm  
Jaw opening: 2x90°  
Version: Double acting

#### BENEFITS

- Precision and position repeatability
- High speed opening and closing
- Protected from penetration by impurities

#### APPLICATIONS

- Transferring
- Machine Tending
- Sorting
- Pick & Hold

#### SECTORS



Bottling



Food & Beverage



Assembly



Packaging

### Angular grippers with opening angle of 30° **Series CGAN**



Sizes: 10, 16, 20, 25, 32  
Total torque: 19 - 890 Ncm  
Jaw opening: 2x15°  
Version: Double acting

#### BENEFITS

- Compact and light design
- Highly flexible mounting
- High speed opening and closing

#### APPLICATIONS

- Transferring
- Palletizing
- Pick & Hold

#### SECTORS



Packaging



Food & Beverage



Assembly

### Three-jaw grippers with T-guide **Series CGZT**



Sizes: 40, 50, 64, 80, 100, 125, 160  
Total force: 80 ÷ 6450 N  
Total stroke: 5 ÷ 32 mm  
Versions: Single and double acting

#### BENEFITS

- High resistance to external static and dynamic loads
- High closing/opening repeatability
- Protected from penetration by impurities

#### APPLICATIONS

- Machine Tending
- Pick & Place
- Pick & Hold
- Palletizing

#### SECTORS



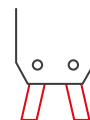
Assembly & Robotics



Material Handling



Machine Tools



## Three-jaw grippers with T-guide **Series CGCN**



*Sizes:* 50, 64, 80, 100, 125  
*Total force:* 84 ÷ 3280 N  
*Total stroke:* 8 ÷ 26 mm  
*Version:* Double acting

### BENEFITS

- Compact and light design
- Highly flexible mounting
- Protected from penetration by impurities

### APPLICATIONS

- Pick & Place
- Pick & Hold

### SECTORS



Material Handling

## Sprue grippers **Series RPGA**



*Size:* 20  
*Versions:* Not self-centering, single acting, Normally open  
*Models:* Flat finger with and without sensor slot, curved finger with and without sensor slot, short finger

### BENEFITS

- High gripping force
- High reliability

### APPLICATIONS

- End of arm Tooling (EOAT)

### SECTORS



Plastics & Rubber

## Sprue grippers **Series RPGB**



*Sizes:* 8, 12  
*Versions:* Not self-centering, single acting, Normally open  
*Models:* Flat finger, short finger, flat finger with sensor

### BENEFITS

- Compact and light design
- High reliability

### APPLICATIONS

- End of arm Tooling (EOAT)

### SECTORS



Plastics & Rubber

## SPECIAL PURPOSE GRIPPERS

In addition to offering standard components, Camozzi partners with its clients to analyse their needs, develop and then deliver specialist grippers or custom handling systems suitable to meet the specific needs of any automation process.



Needle gripper



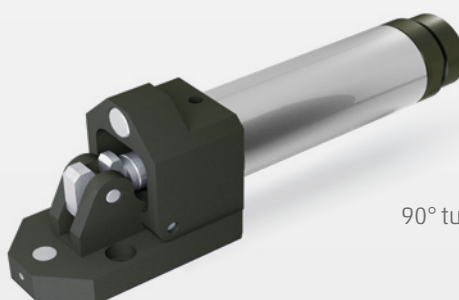
Miniaturised parallel gripper



Parallel gripper  
with integrated fingers



30° angular gripper  
with adjustable fingers



90° turning head



# TOOL CHANGER

The Tool Changer is the ideal solution for industrial applications that require an efficient and reliable device for a fast and secure changeover of tools (gripping or working systems).

## Series RTC

Sizes: 50, 90, 150

Pneumatic connection: 4, 8, 10

### BENEFITS

- High flexibility and adaptability
- Constant monitoring of block position
- Increased efficiency and precision
- High load capacity
- Reduced downtime



# VACUUM COMPONENTS

This range of vacuum components allows the creation of complete solutions for handling, both of single objects – typically for the electronics and assembly industries – and of large workpieces, such as wooden panels or metal sheets.

## Suction Pads

### Universal suction pads

**Series VTCF, VTOF, VTCL, VTCN, VSCF**

*Materials:* NBR, Silicone

*Shape:* Round, oval

*Version:* Flat, bellows (1,5 - 2,5 folds)



Series VTCN



Series VTCF



Series VTOF



Series VTCL



Series VSCF

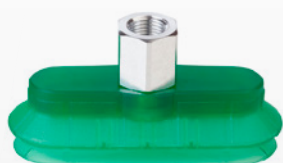
### Suction pads for the packaging sector

**Series VPOL, VPCL, VPCM, VPCN, VPCO, VPCQ, VPCF**

*Materials:* Silicone, Elastodur

*Shape:* Round, oval

*Version:* Flat, bellows (1,5 - 2,5 - 4,5 folds)



Series VPOL



Series VPCL



Series VPCM



Series VPCN



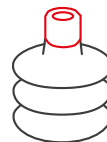
Series VPCO



Series VPCQ



Series VPCF



## Ejectors

### Basic ejectors

#### Series VEB and VEBL

*Body:* Anodised aluminium, technopolymer

*Nozzle:* Brass

*Silencer:* Technopolymer



### Inline ejectors

#### Series VED and VEDL

*Body:* Anodised aluminium, technopolymer

*Nozzle:* Brass



### Compact ejectors

#### Series VEC, VEM, VES, VEN, VEQ

*Body:* Anodised aluminium, technopolymer

*Nozzle:* Brass



## Filters

### Inline vacuum filters

#### Series FVD

*Body:* Technopolymer

*Filter:* Cloth



### Vacuum cup filters

#### Series FVT

*Body:* Technopolymer

*Filter:* Polyethylene



## Accessories

### Accessories

#### Series NPF, NPM, NPR, VNV



## Contacts

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