

FIPA Gripper assembly – your options for the highest benefit of technology and know-how



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Option 1

- > FIPA provides full technical support and supplies all required components
- > You conduct the final assembly



Option 2

- > FIPA designs the gripper according to your specification in 3D CAD and all components and an installation guide are provided
- > You conduct the final assembly



Option 3

- > FIPA plans and assembles the gripper according to your specification
- > The gripper is delivered already preset and needs only on-site fine-tuning



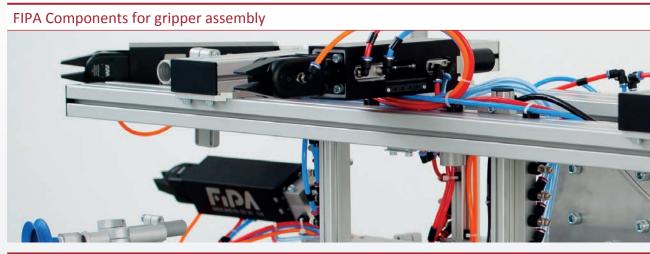
Cutting stations

- > FIPA plans and realizes cutting stations for cutting off sprues
- > For our extensive range of air nippers and suitable blades please refer to this catalog









Suction fingers or vacuum cup fittings







Suction fingers, springloaded, rotatable, with anit-twist protection



Adjustable vacuum cup fitting



Application example

Suction fingers, rigid

Extrusions and connectors

Suction fingers, rotatable



Angle connectors

Application example



Application example

Active gripping elements



Grippers

Extrusion systems /

S, M and XLine

ID grippers

Angle clamps



Finger grippers



Parallel grippers



Needle grippers







FIPA Plate-based gripper systems

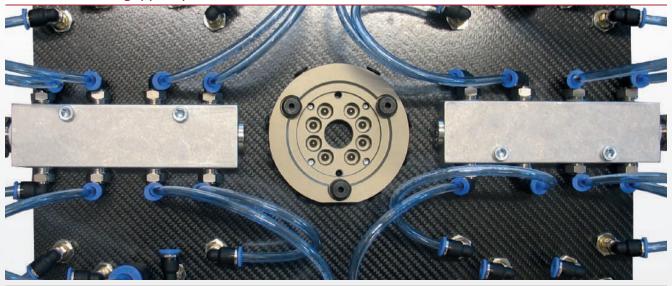








Plate-based gripper systems made of aluminum or carbon fiber (CFK) Properties

- > Simplified gripper construction reduces costs and weight compared to extrusion-based systems
- > Connecting elements such as angle clamps or profile connectors can be omitted
- > Lower total weight enhances gripping dynamics and reduces current consumption

Example 1 – Tool for gripping a two-component part

- > Four parallel grippers
- > Linear guiding block
- > Four customized centering plates
- > Quick-change system
- > Holder for harting plug

Example 2 – Tool for gripping a cylindrical part

- > Four vacuum cups made of vinyl
- > Twelve POM centering pins
- > Quick-change system
- > Holder for harting plug

Example 3 – Tool for gripping an electronic part

- > Four grippers on guide blocks
- > Six parallel grippers
- > Quick-change system



Clamping rings

> Mounting gripper components with a shaft to plate-based EOAT

Larger grippers can be realized by combining > Extrusions for supporting structure extrusions and plates: > Plates for integration of gripper components

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FIPA Grippers based on polyamide (PA) laserforming





Properties of PA-grippers

- > Realization of special gripping tools in quantities of one or more
- > Use of PA-components reduces weight and increases gripping dynamics
- > Adjustment to workpiece contour enables high accelerations and gentle handling of sensitive products
- > Vacuum or air channels integrated into the material minimize piping and complexity and enable space-saving installation
- > High-performance PA-material approved for direct food contact
- > Combining aluminum (support structure) and PA (custom gripper geometry) extends range of applications



Example 1

- > Modular grippers for chocolate bars for use with Delta Robots
- > Flexible gripper fingers for gentle product handling



Example 2

- > Modular gripper for short duty cycles
- > Integrated ejector EMM and Varioflex® bellows vacuum cup for height compensation



Example 3

> Modular gripper for cans

high accelerations

> Gripper design follows the contours of the can and thus enables

> Using PA-grippers reduces weight by up to 70 % compared to conventional systems! > We will be happy to develop your customized

- gripper solution!

