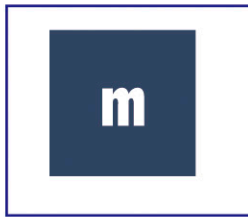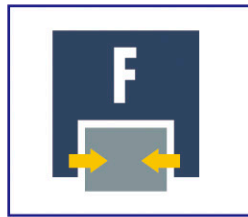# RGN-plus

經典款二指平動機械夾爪

尺寸
Size
50 ~ 300

重量
Weight
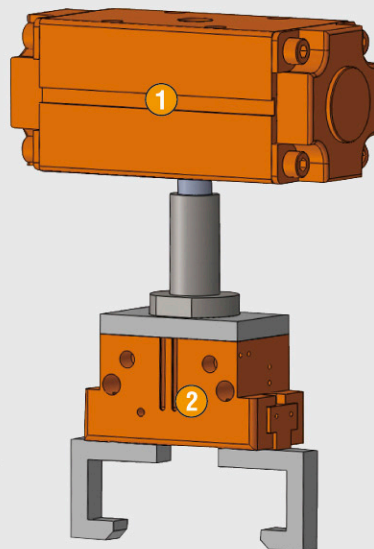0.15 ~ 19 KG

夾持力
Gripping force
170 ~ 14900 N

單爪行程
Stroke per jaw
4 ~ 30 MM

適用工件重量
Recom. workpiece weight
0.85 ~ 75 KG

1 SRA 通用型軸心式轉位模組
  SRA Flat Swivel Units

2 RGN 經典款兩指平動機械夾爪
  RGN Classic 2-Jaw Parallel Gripper

應用領域

通用二指平動機械手，T型導軌設計，極具經濟效益。
通用款，搭配各式配件即可適用於特殊機械手臂環境。
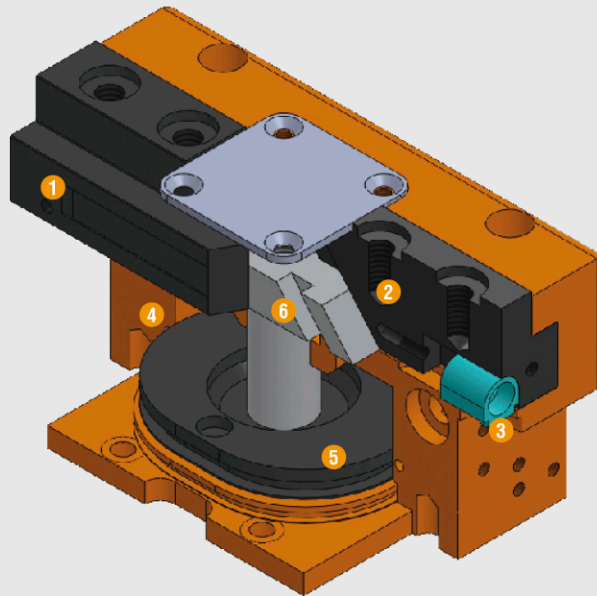無數應用領域的理想標準方案，適用於機台製作或工廠生產、組裝及自動化產業的乾淨環境。

Applications

Universal 2-Jaw Parallel Gripper, T rail design, cost-effective.
Universal models, with all kinds of different accessories, can be used in special robot application.
Ideal standard solution for numerous applications.
Suitable for clean environment of machine production or factory production, assemble and automation industry.

你的優勢

- 堅固的T型導軌設計：確保精確夾持工件
- 可達最大力矩：適用長爪設計FINGER
- 橢圓形活塞驅動設計：確保最大夾持力
- 小巧尺寸：確保工作中有最低的干涉外形
- 空氣供給，免管路直接連接或螺絲連接通道：確保在各式自動化系統中皆可彈性供給壓縮空氣。
- 各式選配：(防塵、抗高溫、抗蝕或其它)各式最適用您的需求款，歡迎另詢。
- 夾持力安全裝置：搭配機械式夾持力安全裝置在機械夾爪內或外部SDV逆止閥。

Your advantage

- Robust T rail design: ensure accurate gripping work pieces.
- Can reach maximum torque: For long jaw design.
- Oval piston-driven design: ensure maximum gripping force.
- Small size: make sure minimum interference while operating.
- Air supply piping free direct connection or screw connection channel: Ensure all kinds of automation systems can have elasticity supply of compressed air.
- Options: (Dust resistance, high temperature resistance, anti-corrosion and others). You're welcome to have inquiry of any gripper types which suits your demand.
- Gripping force safety device: with internal mechanical gripping force safety device or external SDV pressure safety valve.

RGN-plus 系列簡介

- 工作原理：楔形鉤運動學
- 外殼材質：鋁合金，超硬陽極處理
- 基爪材質：鋼
- 驅動方式：氣動：濾清壓縮空氣 (10mm) - 乾式、潤滑或非潤滑壓力介質：需求壓縮空氣品質等級 DIN ISO 8573-1:644
- 保固：12個月
- 夾持力安全裝置：搭配機械式夾持力安全裝置在機械夾爪內或外部SDV逆止閥。

RGN-plus series introduction

- How it works: Wedge-hook kinematics
- Gripper material: Aluminum alloy, hard anodized
- Jaw material: Steel
- Drive: Pneumatic-filtration of compressed air _ (10mm) _- dry, lubricated or non-lubricated pressure medium: demand for compressed air quality level DIN ISO 8573-1:644
- Warranty: 12 months
- Gripping force safety device: with internal mechanical gripping safety device or mechanical external SDV pressure safety valve.

RGN-plus

1. 導軌：基爪重載軸承導軌，便長爪有最小的晃動
   Rail: Base jaw heavy load bearing rails, long jaws with minimal shaking.

2. 基爪：連接工件專用夾爪
   Base jaw: Jaws connected to work piece.

3. 傳感系統：非接觸式感應器或接觸式感應器可供使用
   Sensor Systems: Non-contact sensors and contact type sensors available.

4. 外殼：利用超硬陽極處理的高強度合金鋁來減輕重量
   Material: Anodized high strength aluminum alloy to reduce weight.

5. 大型橢圓型活塞：能產生較大的力量結構
   Large oval piston: Can have greater structural strength.

6. 楔型鉤原理：高動力傳輸的中心夾爪
   Wedge hook principle: High power transmission center jaws.

作動描述

壓縮空氣將橢圓形活塞推上或壓下。
透過傾斜工作面，楔型鉤將運動改向為
側向運動，同時作動二個基爪的夾持運動。

Movement description

Compressed air will push or press the oval piston.
By tilting the working surface, the wedge hook will transfer the movement to side movement, and initiate the action of the two base jaws simultaneously.

感應器固定塊
Mounting block

調速接頭
Speed control valve

夾爪週邊配件
Gripper Accessories

磁性開關（接觸式）
Proximity switch (contact)

磁性開關（無接觸式）
Magnetic field sensor (non-contact)

逆止閥
Pressure safety valve

防塵罩
Dust protection

素材夾爪
Universal jaw set

求心襯套
Centering sleeve

RGN-plus
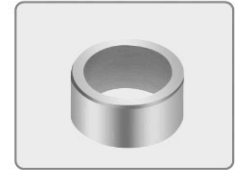
系列簡介

- 夾持力：係為在P距離下(各型號圖示)，自夾爪上端量測，各基爪的夾持力值的計算總合。
- 夾爪長度：自機械手主件外殼上端往主軸方向測量。
- 重覆精度：定義連續100次行程運動的位置散佈狀況。

- 工件重量：建議工件重量，係由摩擦係數0.1在重力加速度 g 下工件抗滑落的安全係數(斜坡動摩擦係數) 2而計算出來的，有相當重量的工件，夾爪可吻合工件形狀。
- 開/關時間：開關時間單指基爪或夾爪運動時間。閥的轉換時間，管線充氣時間或PLC的反應時間皆不含在內，因此估算週期時間需注意。

Series introduction

- Gripping force: Under the distance P (see illustration of each models), measured from the upper end of jaws, calculating the sum of values of the respective gripping force of the base jaws.
- Jaw length: measured in a direction toward the spindle from the upper end of the robot main pieces of shell.
- Repeatability: define the location of 100 consecutive stroke movement of dispersal.
- Work piece weight: Recommended work piece weight, is the Department of the friction coefficient of 0.1 In the safety coefficient of the gravitational acceleration g piece of anti-slip (Slope dynamic friction coefficient) calculated from the two, there is a considerable weight of the work piece, the work piece shape fit jaws.
- Open/closing time: switching time single finger base jaw or jaw movement time.
- Reaction time conversion time valves, pipeline inflation time or the PLC all free account, and therefore the estimated cycle time required attention.