

SAPELEM › COBOTICS › HANDLING › MECHANICAL PARTS

ENGINE CYLINDER HEADS MANIPULATOR by PILOTED CLAMP

PROJECT: Palletizing automobile car engine cylinder heads

The manipulator must grip the car engine cylinder heads at the end of processing and position them in thermoformed containers, while forbidding shock risks (parts finished with precision processing).

The operator must visually control the part before the release, by making it turn 180°: the side seen by the operator during the release is the invisible side during the grip.

The manipulator must also assist the user in handling dividers.

CUSTOMER APPLICATION:

Capacity: 20kg for the cylinder heads and 25kg for the dividers

Pace: 80 (cycles/h)

Available slack during release: 15mm

ADOPTED SOLUTION:

Integration under an R2a multi-articulated arm, range: 4.7m

Gripping parts with customized clamp with pneumatic tightening piloted by the Zii.

The gripper allows for an easy and natural centring and avoids any risk of marking.

The gripping/up and down/releasing operations are combined to guarantee the safety and the pace.

An off-centred button enables the release of the parts in staggered rows.

The use of the intermediate tool does not require a disassembly.

An intermediate tool enables to ergonomically grip the dividers.



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Whatever the product weight, height, size or material, our engineers and ergonomists will find the solution to handle your products intuitively.

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