

MCS-RP [RoboPick]Series Specifications



CASE DE-PALLETIZING AND MIXED PALLETIZING IN 1 FLOW

Our MCS-RP [ROBOPICK] gripper serie enables automatic case de-palletizing and mixed palletizing in 1 flow with the same EOAT gripper. The MCS-RP serie consists of 3 grippers (1 and 2 fork version). MCS-RP gripper requires Vision for case de-palletizing & mixed palletizing software mixed pallet building.

- ✓ MCS-RP is available in 1 fork (Cobot and heavy-duty version) or 2 fork version (for larger cases or 2 cases at once)
- ✓ MCS-RP enables case depal and mixed palletizing in 1 flow with the same EOAT gripper
- ✓ MCS-RP is suitable for a high variation of different SKUs
- ✓ MCS-RP needs Vision technology (for case depalletizing)
- ✓ MCS-RP grippers are robot brand agnostic



MCS-RP [ROBOPICK] specifications



PRODUCTS & CARRIERS

DIMENSIONS CARRIERS	LENGTH IN MM	WIDTH IN MM	HEIGHT IN MM
EURO pallet	1200	800	150
CHEPP pallet	1219	1016	141
BLOCK pallet	914	914	120

DIMENSIONS PACKAGES	LENGTH IN MM	WIDTH IN MM	HEIGHT IN MM
Min dimensions package	115	65	50
Max dimensions package	600	430	410

SPECIFICATONS MCS GRIPPER SERIES

MCS-RP GRIPPER	MCS-1RP	MCS-1RP HD	MCS-2RP
Base frame length	x	x	600 mm
Weight (excl product)	± 11 Kg	± 15 Kg	± 55 Kg

MCS-RP GRIPPER	MCS-1RP	MCS-1RP HD	MCS-2RP
Fork width (WF)	100 mm	100 mm	100 mm
Fork (max) support length (LF)	300 mm	300 mm	300 mm
Max thickness of the fork	21 mm	25 mm	21 mm
Max load per fork	15 Kg	25 Kg	30 Kg (15 Kg per fork)
Box clamp cylinder stroke	400 mm	400 mm	400 mm
Max allowed box clamp force	10 Kg	10 Kg	10 Kg

MCS-RP GRIPPER CAPACITIES

NR CASES PER PICKUP	1 CASE PICKUP (*)	2 CASE PICKUP
Max output capacity p/hr	450 CASE P/HR	900 CASE P/HR
Output capacity (80% utilization)	360 CASE P/HR	720 CASE P/HR

(*) The expected output capacity is based on the number of packages in a pickup. For the calculation we use a cycle time for the robot with MCS-RP gripper of 8 sec.

CABLES

Standard cable length (power & interface)	Length 5m
Longer than 5 m	On request

AIR SUPPLY REQUIREMENTS

Pressure	6 bar
Diameter air supply tube	Ø12
Airflow (incl vacuum)	40 l/min
Min air quality	ISO 8573-1:2010 7 : 4 : 4

MCS-2 RP GRIPPER CONTROLS & INTERFACE (only for 2 fork version)

- One servo is used for the horizontal stroke of each fork and 1 servo is used for the side movements of each fork
- These servos are controlled by the external servo drive in the robot control cabinet.
- The sensors and the control of the valves can be accessed via the field IO module

MCS-RP GRIPPER CONTROLS & POWER

POWER REQUIREMENTS	
Sensors/valves	24 V DC, 48W
Servo's (4)	1,6 KVA

