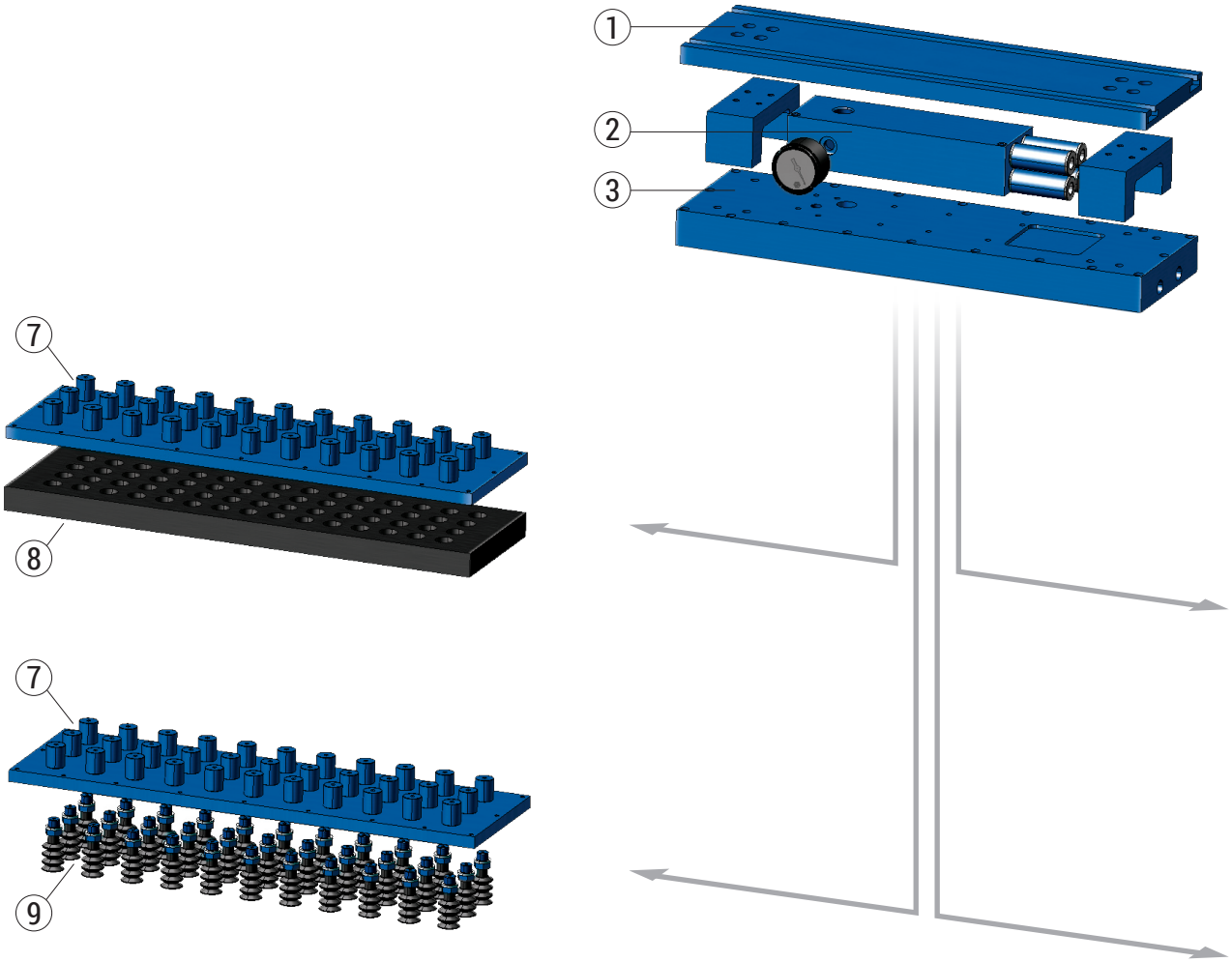
OCTOPUS VACUUM GRIPPING BARS - GENERAL DESCRIPTION

These bars have been created to further facilitate the installation of OCTOPUS vacuum gripping systems on palletising robots. They are based on the same operating principle and, in addition to the advantages and technical features of the standard OCTOPUS, are equipped with a grooved support plate to allow quick installation on the machine and easy positioning with respect to the load to be gripped.

They are in fact composed of:

- A slotted anodised aluminium fixing plate for quick installation onto the machine
- One or more compressed air-fed vacuum generators, depending on their size
- A connection equipped with quick coupling for feeding compressed air to the generators
- An anodised aluminium box, open on one side, with two air inlet connections inside at the end of the cycle, for quick restoration of the atmospheric pressure and one for possible installation of a vacuum switch.
- A suction plate sealing the box, also made with anodised aluminium, with calibrated holes equidistant from each other and coated with a special perforated foam rubber. This suction plate can thus perfectly adapt to any gripping surface, whether it be smooth, rough or irregular. With the same bar, for example, it is possible to grip and move wooden joists or metal profiles and the pallet that supports them.

The OCTOPUS gripping bars described so far are the standard bars: they can be supplied upon request with suction plates and with shut-off valves and, to make them even lighter, the aluminium parts can be made of Polizene, a thermoplastic material that decreases the weight by about 40%.



COMPOSITION OF THE OCTOPUS GRIPPING BARS

The OCTOPUS gripping bars are composed of:

(1) A grooved support plate made of anodised aluminium for rapid installation on the machine and easy positioning with respect to the load to be picked up.

(2) One or more compressed air-fed vacuum generators, depending on the size of the bars.

(3) An anodised aluminium box, open on one side, with two air inlet connections inside at the end of the cycle, for quick restoration of the atmospheric pressure and one for possible installation of a vacuum switch.

(4) A micro-perforated anodised aluminium suction plate to close the bar body, coated with special perforated foam rubber (5), with 15 mm diameter holes, axial to the calibrated holes of the plate, with thickness 20 mm **(PX)** or 30 mm **(P2X)** or with bellows (6) vacuum cups 18 mm **(PV)**.

Or:

(7) A suction plate with shut-off valves coated with foam rubber (8), with 15 mm diameter holes, thickness 20 mm **(PXE)** or 30 mm **(P2XE)** or with vacuum cups (9) diameter 18 mm **(PVE)**.