

## GEA Procomac POLARIS

### Layer preparation system

Polaris is a System based on **SCARA configuration (Selective Compliance Assembly Robot Arm)** that allows the handling grip to move only along horizontal axis (x-y), this excludes gravity, reducing inertia. A third vertical axis can be present, z axis, with the aim to adjust the grip height (format changeover).

**SCARA configuration guarantees the following advantages compared to the traditional Cartesian systems:**

- **Footprint more compact**
- **Better visibility and easy access** for the operator due to the absence of obstructing support structures.
- **Higher speed** of round trip cycle due to the lower moving bulk, motor controls are installed on the main rotating axis
- **Easier transport and installation** operations
- **Gentle handling of any type of pack** avoiding shocks during rotation and positioning, thanks to gripping head fixed on the end joint of the two modules.

According to the project requirements it is possible to connect the arm to the following gripping heads:

- **HEAD no.1:** Self centering gripping head completely motorized, it eliminates air consumption. The head is able to pick the packs up, both from frontal and lateral side, allowing high speed performances and complete gripping flexibility. The vertical movement of the plates is totally independent.
- **HEAD no.2:** A gripping head with plate overtake cycle. The system (patent pending) has been designed to reduce the downtime due to plates repositioning phases, creating high working cycles. The head is able to pick the packs up, both from lateral and frontal side, allowing a complete gripping flexibility. The vertical movement of the plates is totally independent.



## GEA Process Engineering

GEA Procomac S.p.A.

Via Fedolfi 29, 43038 Sala Baganza (Parma), Italy  
 Phone: +39 0521 839411, Fax: +39 0521 833879  
 sales.procomac.it@gea.com, www.gea.com