

# Motors and Drives

Customizable for  
every Application



**MOOG**

# OUR MAIN STRENGTHS KNOW-HOW, TECHNOLOGICAL INNOVATION, CO-DESIGN AND CUSTOM CARE.

## **High efficiency, quality and technological innovation**

The Moog plant in Casella, Italy, for over 50 years dealing with motors and drives, providing its customers with cutting-edge customized solutions for a wide range of applications, resulting in production processes with high efficiency and quality. Keeping the entire production chain under one roof allows us to guarantee our customers a flexible service and a great application adaptability.

## **Know-how, co-design, customer care and flexibility**

Moog ensures a continuous relationship among its technical departments and those of the customer to provide a personalized and efficient solution. Thanks to support on a global scale and know-how of excellence applied to the design, Moog assists machine builders and end users in the development of the best solutions for special applications.

## **Expertise in a wide range of applications**

Moog motors and custom drives are used in various markets, including, among others, metal forming, robotics, plastic blow molding and mechanical molding, industrial machinery, packaging, special machinery, electrical traction, wind power.

# COMPONENTS



## Multi-Axis Servo Drive DM2020

Compact and flexible, the DM2020 is a modular multi-axis drive with centralized power. It is equipped by fieldbus (EtherCAT®, CAN Bus) and manages synchronous permanent magnet motors, linear motors, torque motors and asynchronous motors. The current sizes range from 2 to 128 and up to 256 Arms nominal peak.



## Single-Axis Servo Drive DS2020

The DS2020 is the new digital “stand alone” servo drive, specifically designed with small overall dimensions. The current capacity of the available versions (50, 75, 85 and 125 mm) range from 2 Arms to 48 Arms continuous, and from 4 Arms to 96 Arms peak.



## Decentralized Servo Drive DR2020

The DR2020 is a drive suitable for applications with electronics distributed on the machine, that can be integrated into a multi-axis configuration. Thanks to the IP67 protection grade, the DR2020 does not require an electrical cabinet to be installed, but can be positioned directly on the machinery with a consequent streamlining of wire configurations and space savings in the control cabinets. This also thanks to the use of a single connector for power and signal.



## Brushless Motor with Natural or Liquid Cooling Fastact H

The servomotor Moog Fastact series H (W) is a synchronous motor with permanent magnets characterized by compactness, high overload capacity and high accelerations. It is available in a wide range of sizes, with nominal torques from 0.3 Nm to 831 Nm and peak torques from 1.8 Nm to 1721 Nm, with natural (Fastact H) or liquid cooling (Fastact WH).



## Direct Drive Motor D1200

The servomotors direct drive Moog D1200 series are synchronous motors with permanent magnets characterized by high torque and low speed. The motors are available in both complete version and as a rotor stator unit for integration into the mechanics of the customer. There is a wide range of modularity from 2000 Nm up to 16000 Nm, with natural cooling and water cooling.



## HF High Frequency Rotor Stator Units

The HF rotor/stator high frequency units are designed to be integrated in the motor spindles for milling, grinding, drilling, in pumps, fans, compressors, centrifuges etc. both for classical spindle manufacturers and industrial machinery manufacturers, each according to their specific performance requirements.

The asynchronous and permanent magnet units are available in versions with 2, 4, 6 and 8 poles and more, with an external diameter from 52 to 300 mm and speed of rotation up to 260000 rpm.



### Digital Positioning System DACS2000

The DACS2000 is a controller for synchronous (equipped with an encoder or resolver) or asynchronous motors with flux vector control (equipped with resolver), with digital references (CAN), powered by voltages up to 510 V. It can be configured as a motion controller that can integrate the positioning functionality (positioner with management of 8 inputs and 8 outputs, flying cut, electric cam, electronic gear) as a positioner with CANopen interface according to CIA DSP402 digital protocol.



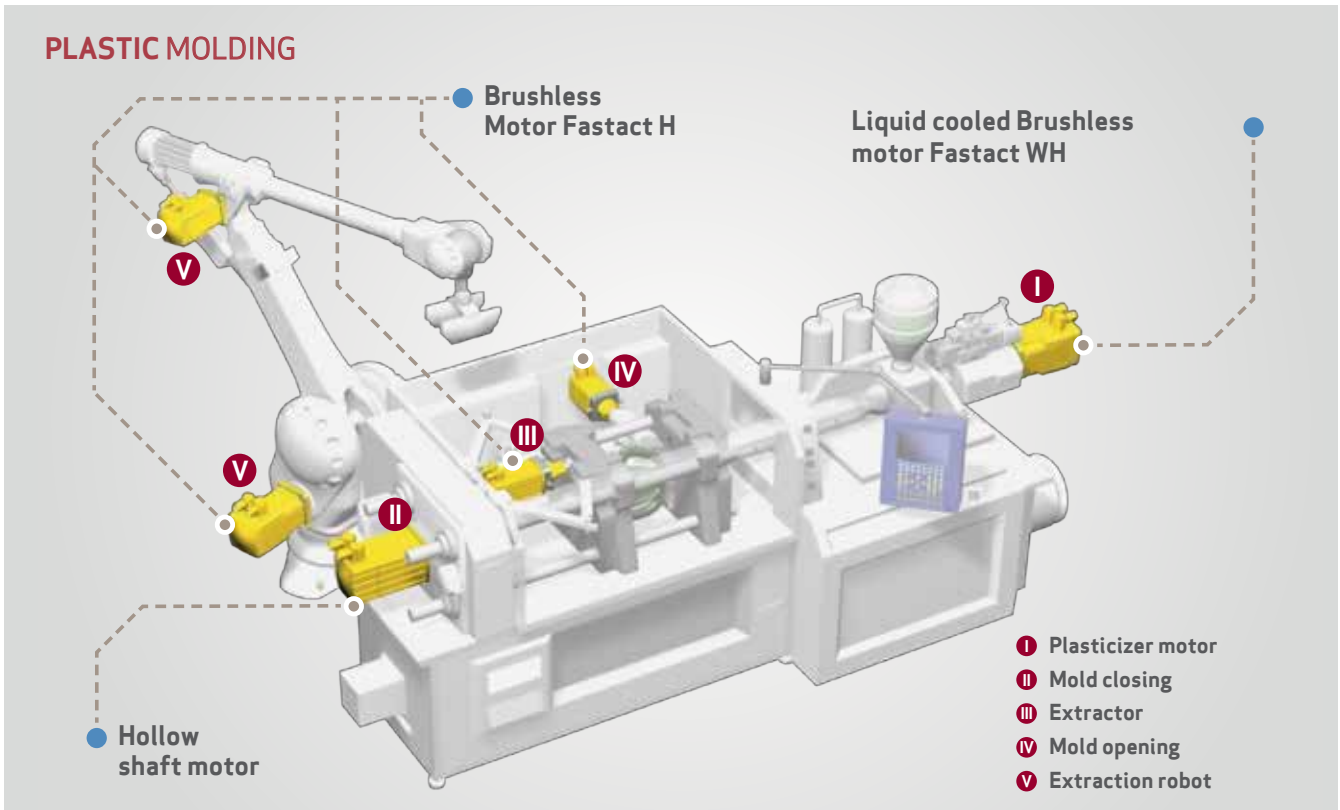
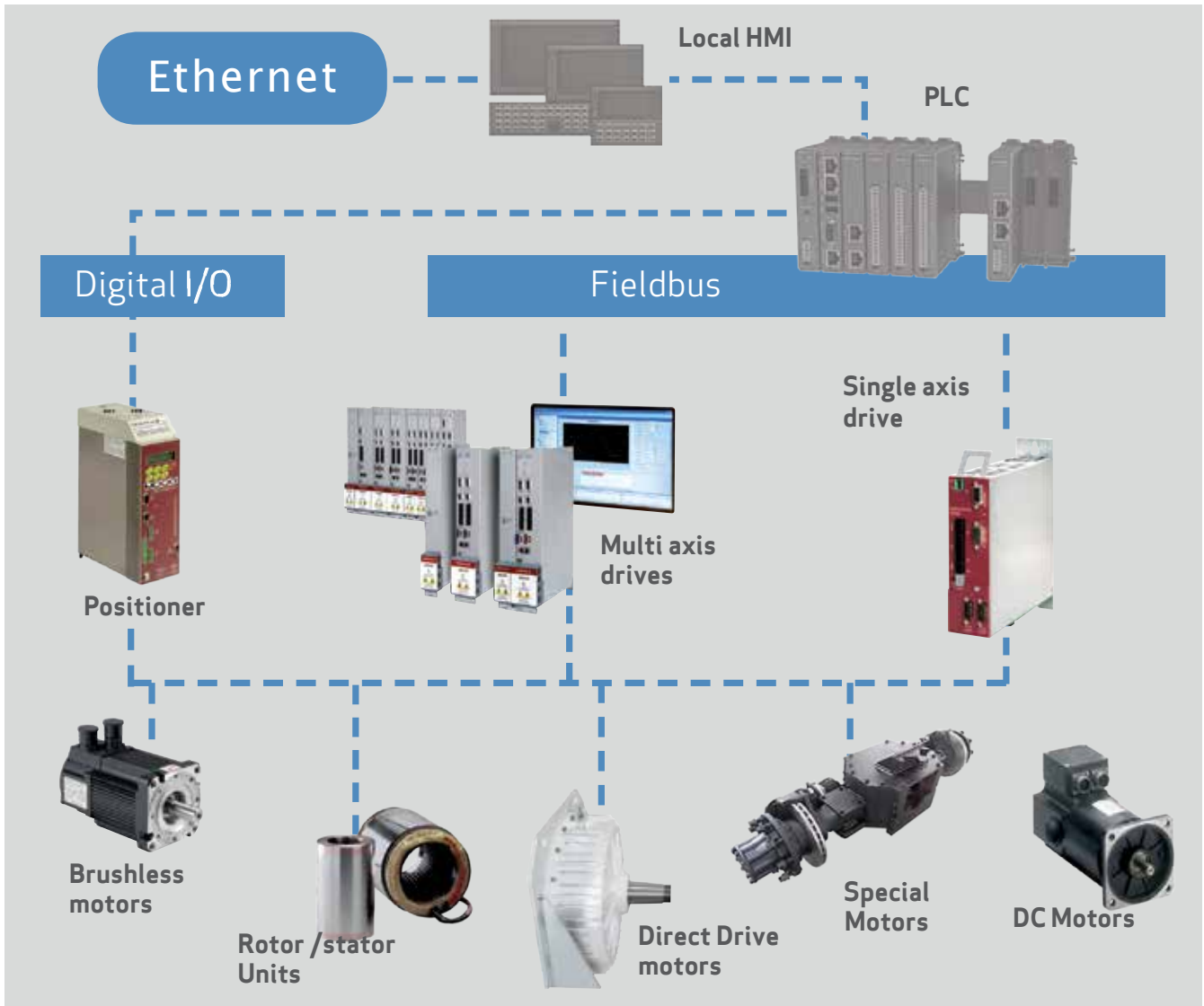
### Special Motors

Developed to meet specific application requirements, the Moog special motors are the result of continuous collaboration between our R & D, our Application Department, and the client's technicians. Some of the special motors developed by Moog are: the hollow and passing shaft motors, the motor rototranslating, the series IPM (internal permanent magnet), the motorwheel, the motovite, explosion-proof motors.

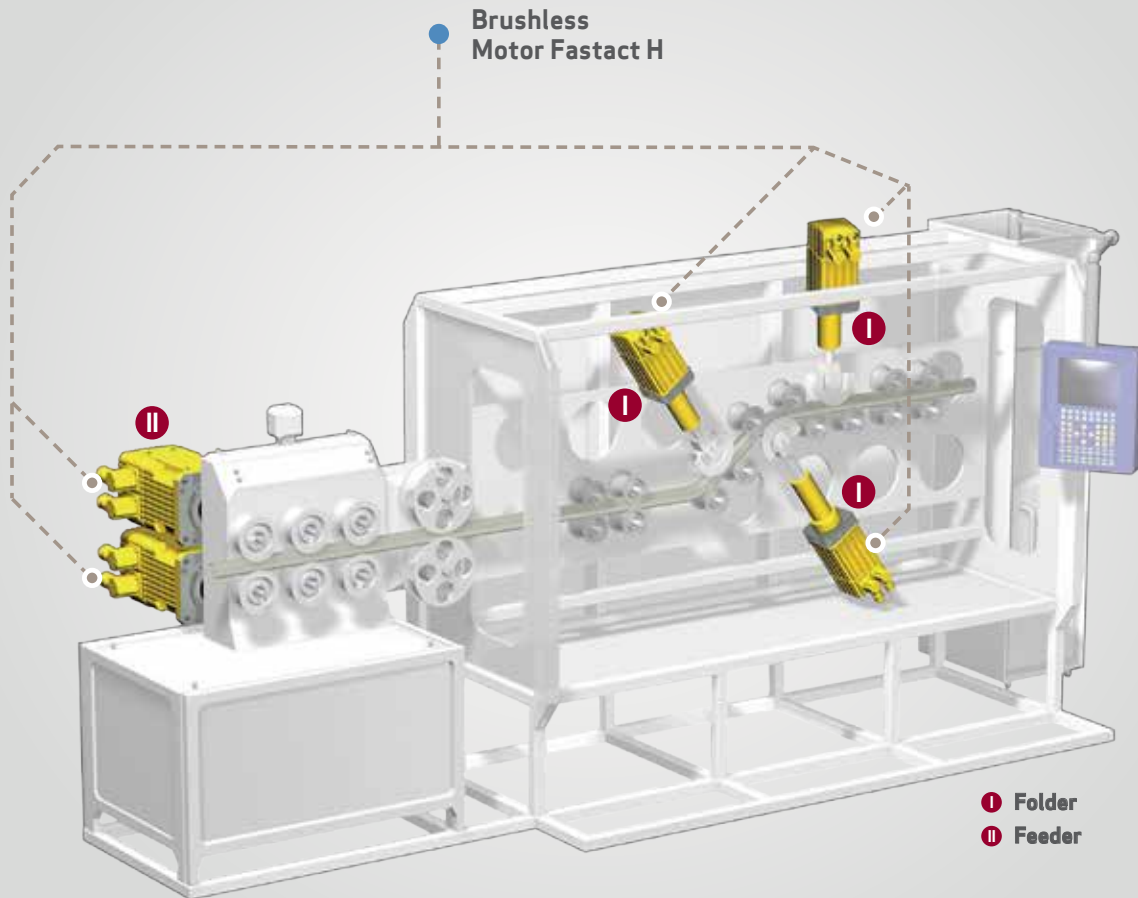


### DC Motors 407

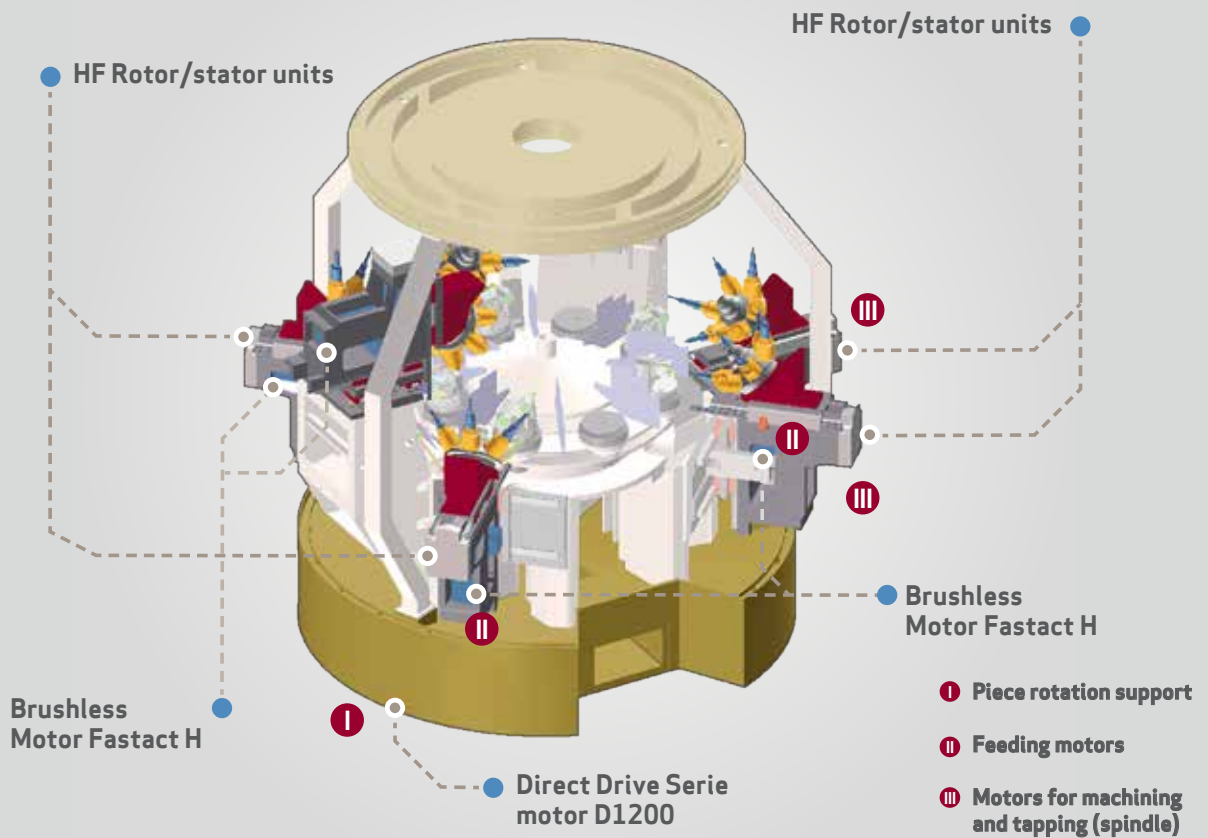
The DC servo motors, ISM series and the DC motors for universal uses 407 series with permanent magnet excitation, available in two sizes for each series (equal to 1 and 2 Nm), with a wide range of windings, for power supply voltages from 12 to 200 VDC, are particularly suited to function associated with electronic drivers, in a large range of velocities and in constant torque.



## FOLDING MACHINE

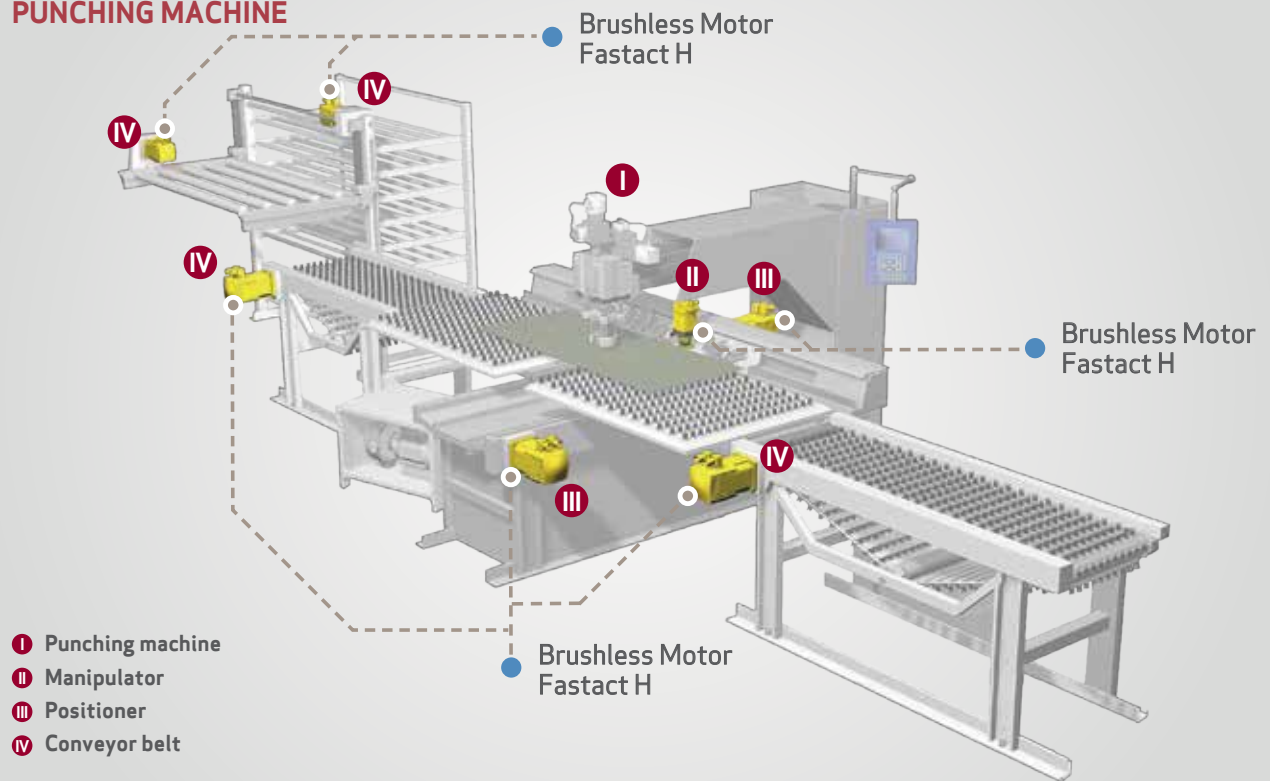


## WORK CENTER OF AN INDUSTRIAL MACHINE

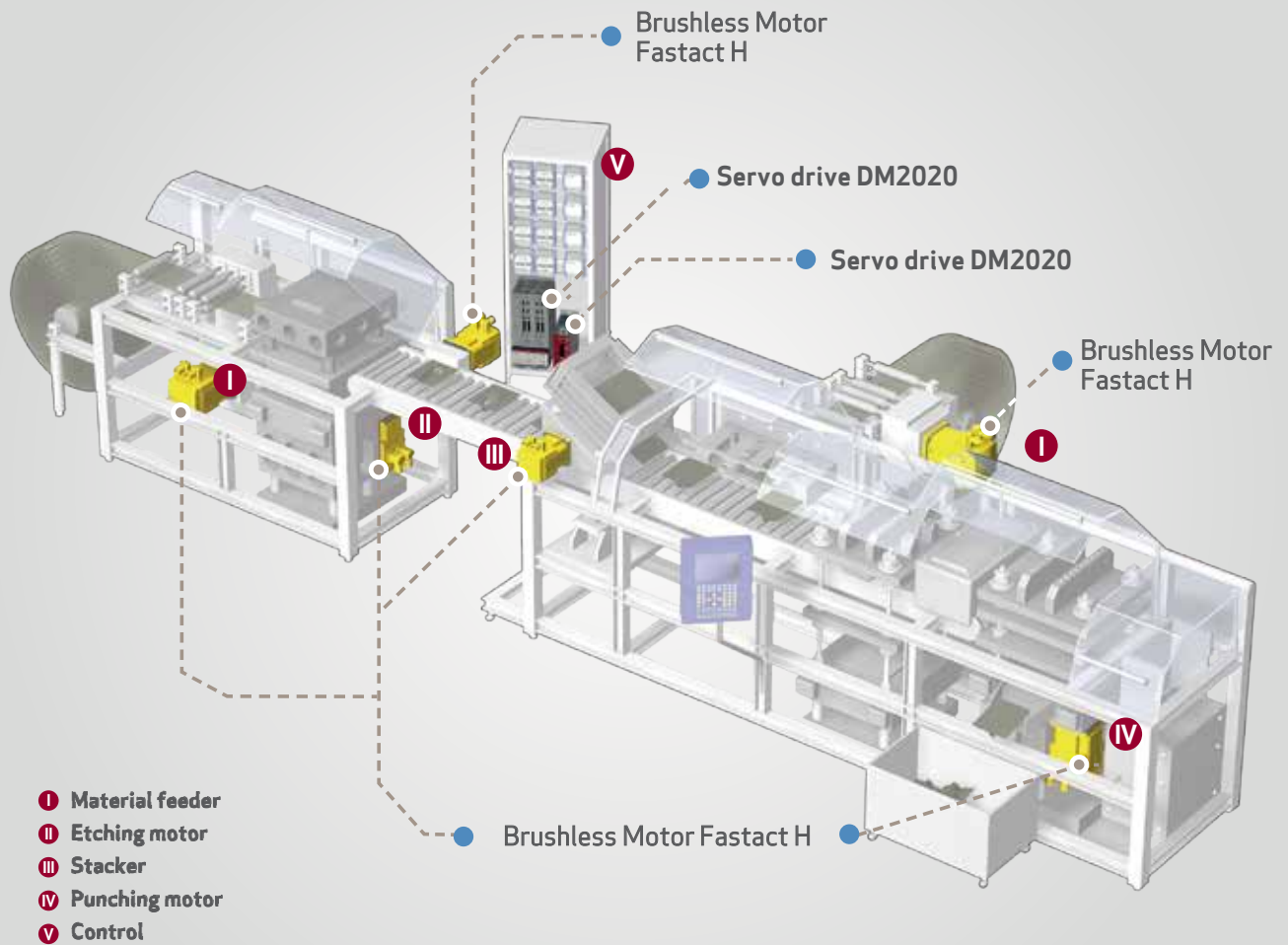




## PUNCHING MACHINE



## PACKAGING



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