

PREKOV RKA-05/06

punching and bending machine

RKA series punching and bending machines are flexible production units for tape and wire forming. With the concept of circular set of tools, eccentric press and flexible central mandrel the machines produce high quality products.

The machine is designed and manufactured in Slovenia and is the result of our in-house knowledge and experience.



Standard package

1. 3-phase asynchronous AC motor instead of servo motor – only for applications which do not require dynamic movement.
2. Pneumatic feeding unit.
3. Eccentric press.
4. Central mandrel with backside ejection.
5. 5 mechanical slide units.
6. Touch screen operated control system with numerically controlled positioning of the main drive unit.

Options and accessories

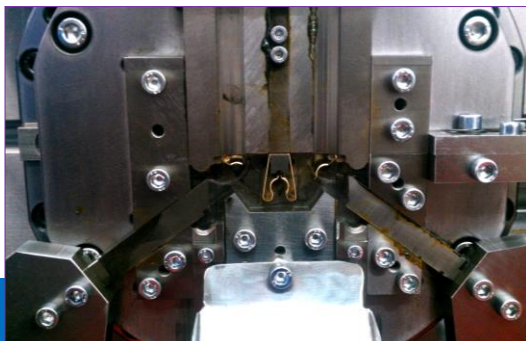
1. RKA machine with servo motor.
2. Additional slide units.
3. Feeding unit and straightener with servo drive instead of pneumatic feeder.
4. Tape and / or wire unwinder (integrated or standalone).

Upgrades

1. Upgrade with external units for production of complex products (welding units, preprocessing units, manipulators, special bending tools, laser marking units, threading units, etc.).
2. Design and development of product-specific tool sets.

Connectivity

1. Built-in USB and gigabit Ethernet connection with various upgrade options, including WiFi.
2. Remote support via secure Internet connection.
3. Connection to EtherCAT, PROFINET, PROFIBUS, Modbus or CANopen network.
4. Integration to supervisory or MES system.



Technical specifications

	RKA-05	RKA-06
Basic characteristics		
Size (width x height x depth)	1 600 x 2000 x 1000 mm	2200 x 2300 x 1200 mm
Weight ¹	1.500 kg	3.000 kg
Operating temperature range	5 °C to 50 °C	
Electrical characteristics		
Power consumption	5 kW	8 kW
Supply voltage	380V AC / 3-phase / 50 Hz	
Phase to phase voltage limitation	400V +/- 10%	
General		
Main drive	servo motor (optional) 3-phase asynchronous motor (standard)	
Numerically controlled positioning	optional	
Working rpm of the main drive ²	0 – 100 (standard), 0 – 200 (optional)	
Automatic central lubrication	standard	
Touch screen operated control system	standard	
Unwinder integration	optional	
Connectivity	1x Ethernet 10/100/1000, 1x USB	
Press		
Press type	eccentric, one-point	eccentric, two-point
Nominal load	120 kN	250 kN
Stroke	12 mm	20 mm
Fitting seat	180 x 80 mm	400 x 100 mm
Table size	180 x 170 mm	400 x 225 mm
Slide unit		
Nominal load (per unit)	60 kN	80 kN
Stroke	40 mm	50 mm
Number of sliding units	5 (max. 8)	
Central mandrel diameter	180 mm	260 mm
Central mandrel nominal load	20 kN	30 kN
Central mandrel stroke	30 mm	40 mm
Feeder		
Type	pneumatic (standard) or servo (optional)	
Feed length	0-150 mm (pneumatic), no limits (servo)	
Material – tape		
Maximum thickness	2 mm	3 mm
Maximum width	30 mm	40 mm
Material – wire		
Maximum diameter	3 mm	5 mm

¹ The weight of the machine does not take into account the weight of tools and accessories.

² Option with up to 200 rpm of the main drive is only available for specific applications and only with the confirmed tool set.