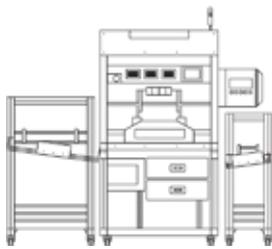


MACHINES[™] ON SPECIAL ORDER

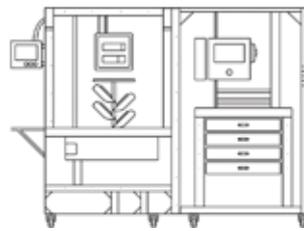
AB10



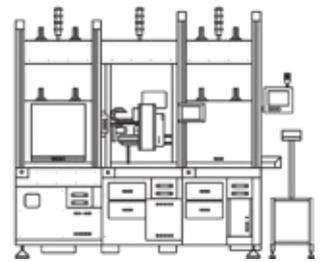
AB20



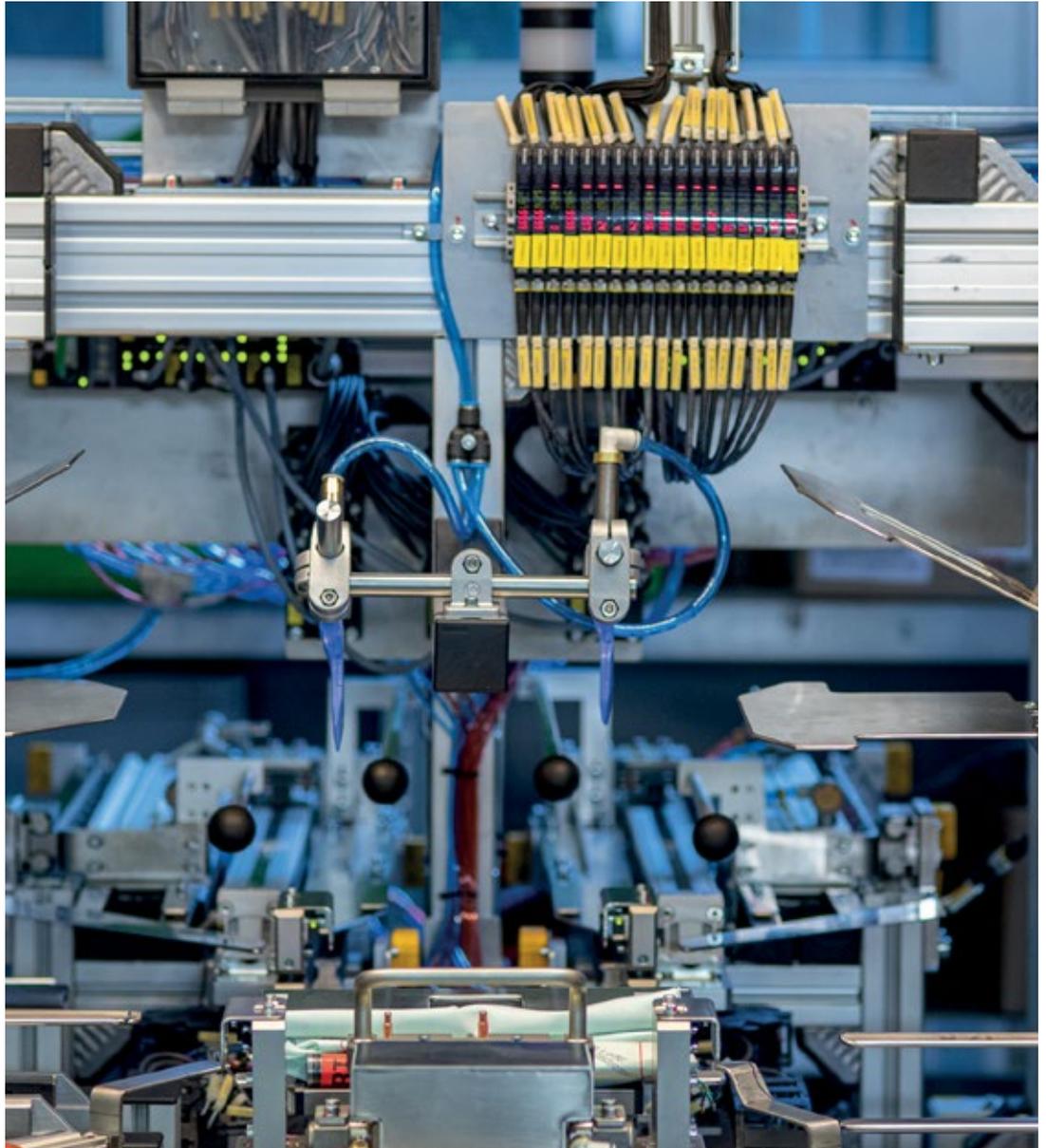
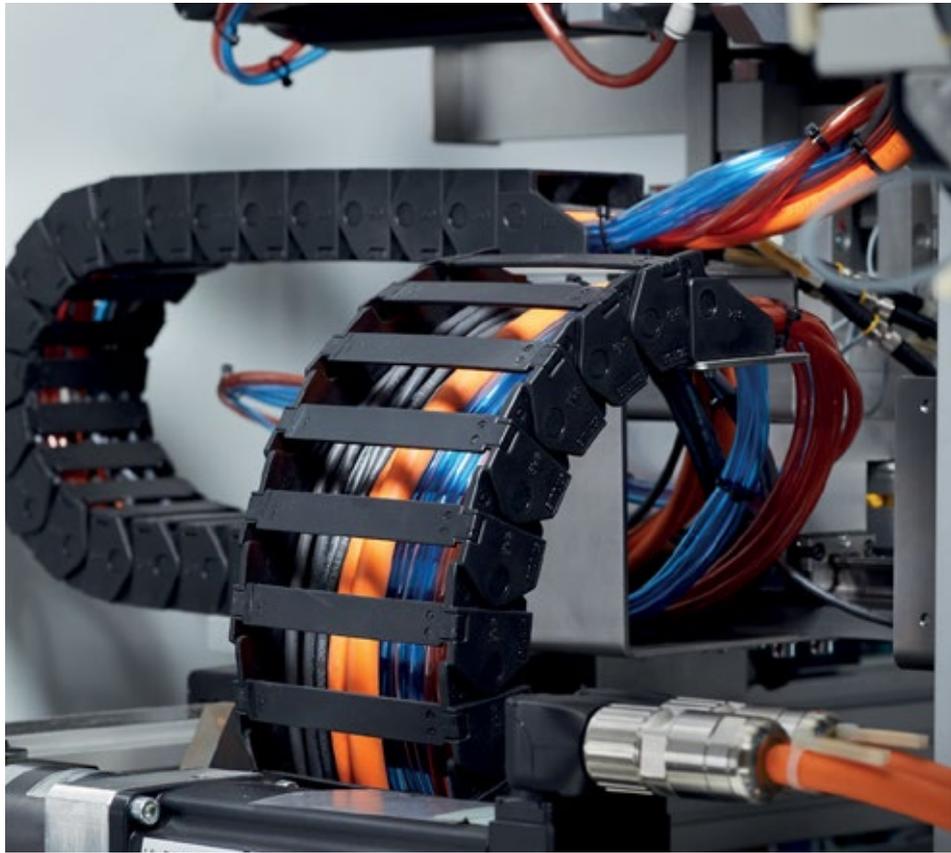
TRW AUTOMOTIVE



MASERATI PHASER
ASSEMBLY LINE



We treat every case individually, with a focus on a fast, transparent process, short lead time, and long-lasting cooperation. We know how to listen and we understand the needs of our partners. And that's why we design perfect machines for them.

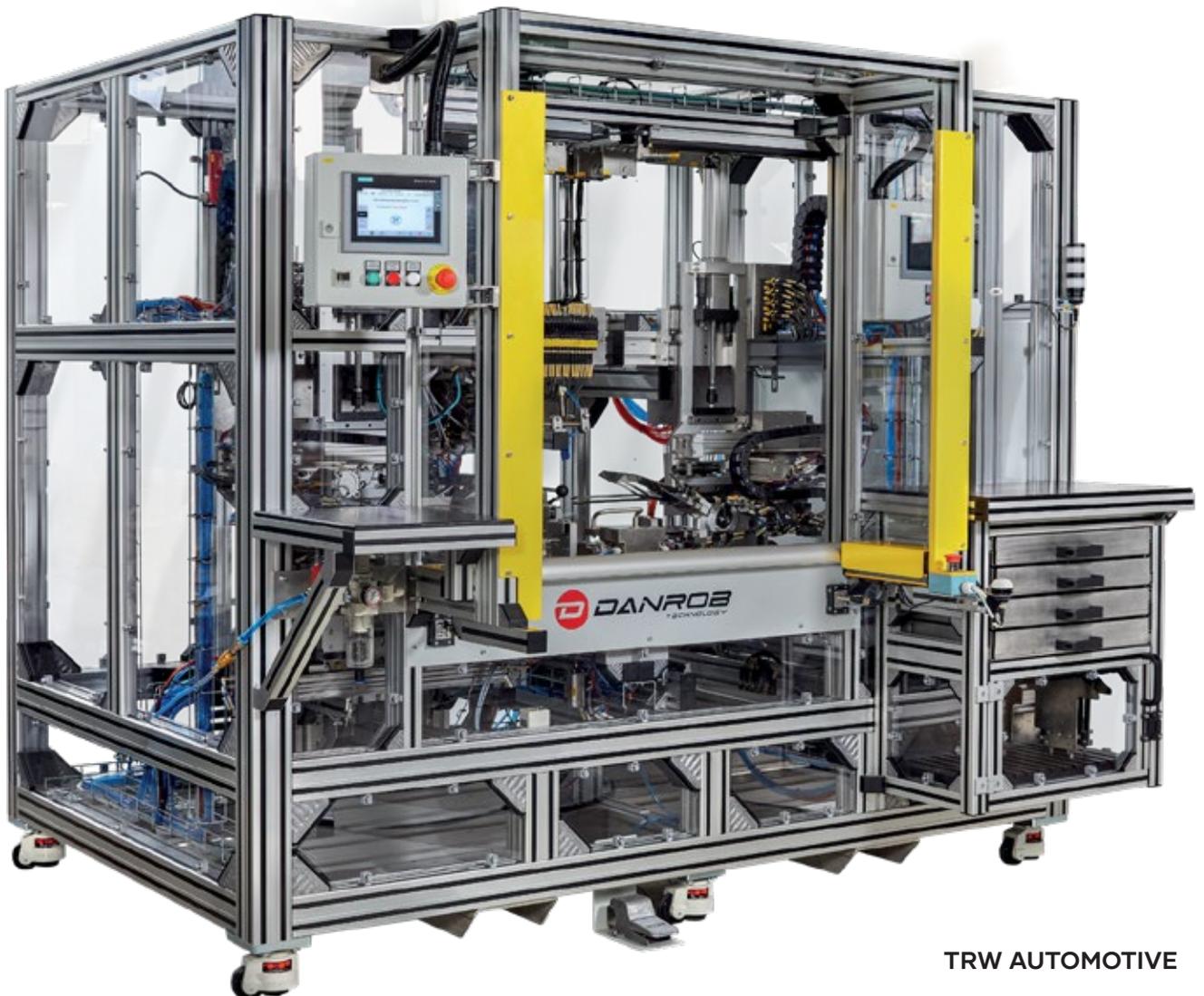




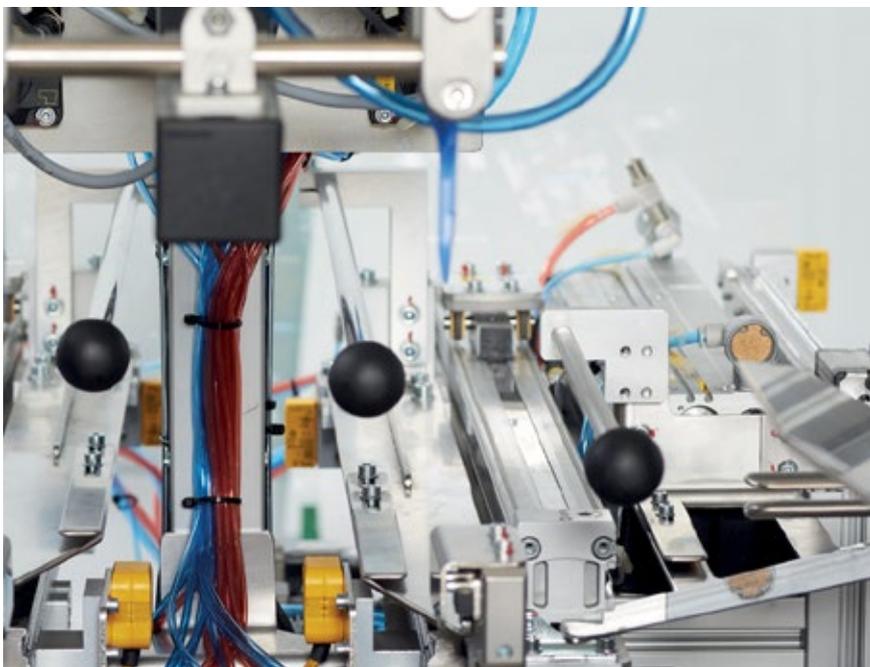
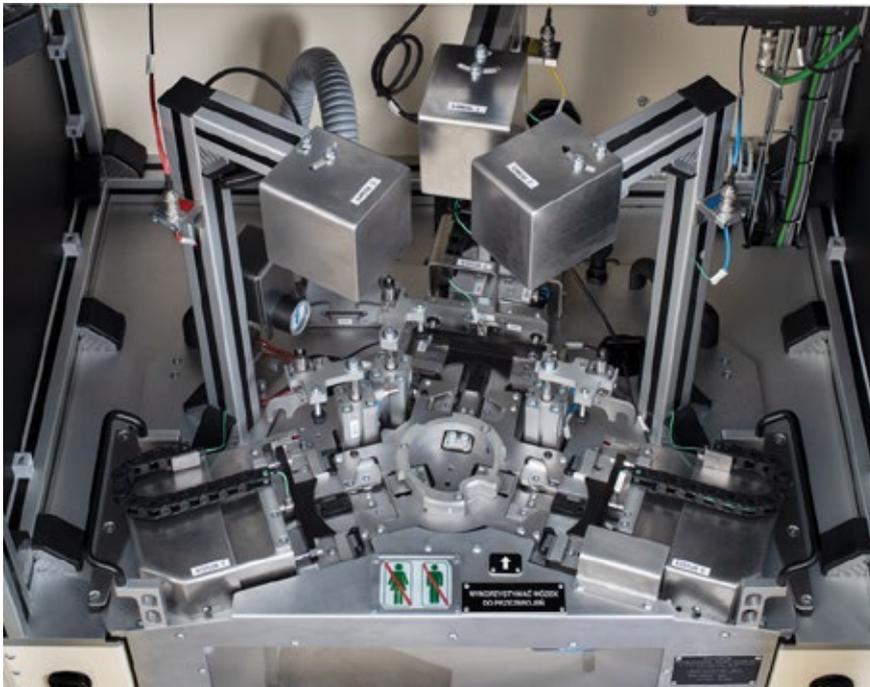
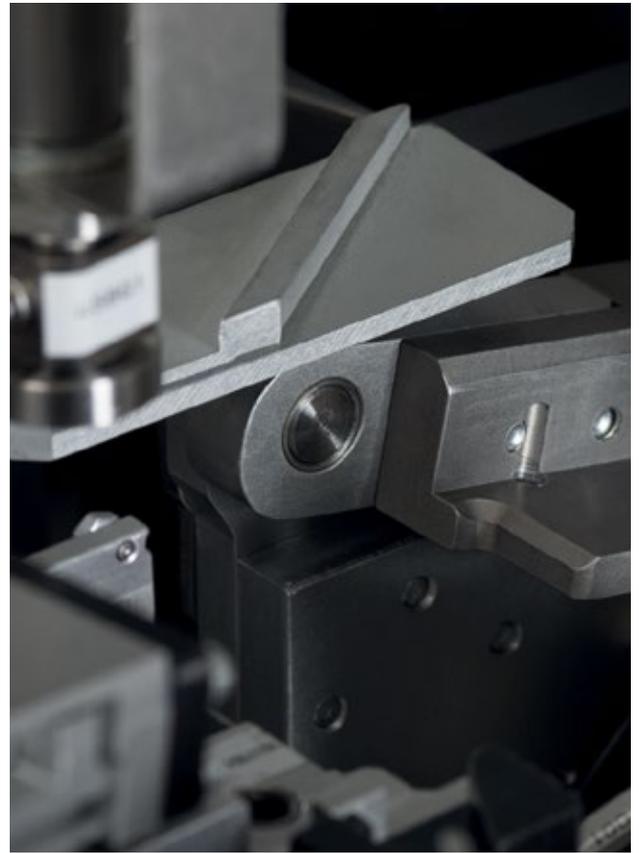
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AB10



TRW AUTOMOTIVE



STATION FOR MOUNTING THREE BAYONET CLIPS IN A BAYONET RING

Purpose	Station for mounting three bayonet clips in a bayonet ring
Investor	BorgWarner Mobility
Investor's location	Błonie k. Warszawy, Poland
After how many meetings did the concept appear?	After 3 meetings
Scope of work	Mechanical and electrical design, production of elements for the construction of the device, assembly, commissioning at DANROB, initial commissioning, transport to the customer, commissioning at the customer, final acceptance, employee training
Lead time	14 weeks
Team	2 engineers (constructor and automation specialist), the whole team consisted of 6 people
Components	SMC, Balluff, Festo, Siemens, Sick, Keyence, Turck, Bosch Rexrot, Rittal, Murr, PhoenixContact, Schneider, Kistler
Technology	Vision inspection, optical sensors, force versus displacement measurement with the Kistler system
Integrations	Integration with other machines in the production line, implementation of the Kistler system for detailed control of the correct pressing
Cooperation with the Investor	We have been working with BorgWarner for 1 year, it was not the first project

Purpose	The stand is for the assembly of the FLS
Investor	BorgWarner Mobility
Investor's location	Błonie k. Warszawy, Poland
After how many meetings did the concept appear?	After 3 meetings
Scope of work	Mechanical and electrical design, fabrication of elements for the construction of the device, assembly, commissioning at DANROB, initial commissioning, transport to the customer, commissioning at the customer, final commissioning, employee training
Lead time	14 weeks
Team	2 engineers (constructor and automation specialist), the whole team consisted of 5 people
Components	SMC, Balluff, Festo, Siemens, Sick, Keyence, Turck, Bosch Rexrot,, Rittal, Murr, PhoenixContact, Schneider, Kistler
Technology	Vision inspection, optical sensors, force versus displacement measurement with the Kistler system
Integrations	Integration with other machines in the production line, implementation of the Kistler system for detailed control of the correct pressing
Cooperation with the Investor	We have been working with BorgWarner Mobility for 1 year, it was not the first project

Purpose	Automatic folding of car airbags
Investor	TRW Automotive
Investor's location	Częstochowa, Poland
After how many meetings did the concept appear?	The concept appeared before the offer was presented by DANROB, after the first meeting
Scope of work	Mechanical and electrical design, production of elements for the construction of the device, assembly, commissioning at DANROB, transport to the customer, commissioning at the customer's site, final acceptance, employee training
Lead time	28 weeks
Team	2 engineers (constructor and automation specialist), the entire team consisted of 8 people
Components	SMC, Balluff, Festo, Siemens, Sick, Keyence, Turck, Bosch Rexroth, Weiss, Rittal, Murr, PhoenixContact, Schneider, Sick
Technology	Rotary table, servo drives, vision inspection, optical sensors
Integrations	Integration with other machines in the production line, integration with the production management system (traceability)
Cooperation with the Investor	We have been working with ZF TRW for 4 years, this is another joint project

STATION FOR ASSEMBLY AND CHECKING THE PHASER

Purpose	Station for assembly and checking the phaser (component for variable valve timing in an internal combustion engine)
Investor	BorgWarner
Investor's location	Jasionka k. Rzeszowa, Poland
After how many meetings did the concept appear?	After 4 meetings
Scope of work	Mechanical and electrical design, production of elements for the construction of in-line devices, assembly, commissioning at DANROB, transport to the customer, commissioning at the customer's site, final acceptance, employee training
Lead time	28 weeks
Team	6 engineers (4 designers, two automation engineers), the whole team of 16 people
Components	SMC, Balluff, Festo, Siemens, Sick, Keyence, Turck, Bosch Rexroth, Rittal, Murr, PhoenixContact, Schneider, Renishaw, TOX PRESSOTECHNIK, Omega, HBM, Burster, Cognex, Schunk
Technology	Servo drives, electric linear modules, hydropneumatic actuators, precise air flow control, torque measurement, pressure force measurement, laser marking + code class control, visual presence control, precise workpiece height measurement, creation of a local database
Integrations	Integration with other machines in the production line, implementation of the Kistler system for detailed control of the correct pressing
Cooperation with the Investor	We have been working with BorgWarner for 1 year, it was not the first project

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