

Efficient & compact

Riveting | Cold forming | Roller forming Servo technology

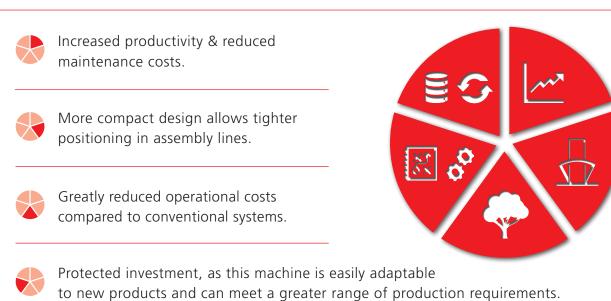




- Compact, slim design. Ideal for integration in cases of limited space.
- 100% electrically powered forming energy. No emission of oil vapor.
- Low noise emission.
- Exceptional energy efficiency, greatly reduced operating cost.
- Reduced process time yields increased output.
- Industry 4.0 ready. Process data collection, remote access to data, parameters and programs.

- 100% Real time process control AND monitoring. Linear force, speed and position are monitored at any point in the cycle.
- The power module was developed for different forming technologies – radial, orbital, and roller forming.
 The process head is interchangeable.
- Motion profiles can be totally customized.
 One process cycle can consist of an unlimited number of profile segments.
- Highest power to space ratio in regard to form factor.
- Inline force measurement.



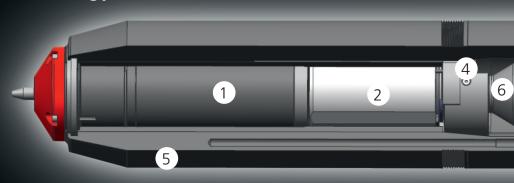


Immediate product fault and error detection by means of integrated 100% quality

monitoring and traceability.

Optimal Productivity

due to innovative technology



Process head

- Radial*
- Tangential
- Orbital
- Roller forming
- * (mechanically identical to classical RN-line)

Rotational drive

- Variable RPM
- Electrical overload protection
- Temperature sensor

Linear drive

- Motion profiles totally customized
- Mechanical overload protection
- Temperature sensor

Motor control

- Rotary encoder
- RPM sensor

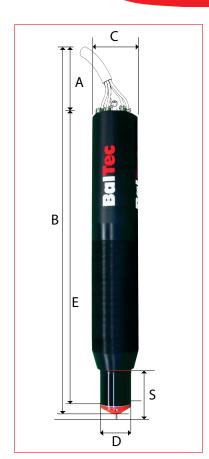
Linear measurement

- Direct measurement of process head
- Programmable stroke increment: 0.01 mm
- System resolution, stroke: 0.0005 mm

Force measurement

- Direct
- Inline









Model	Process	Rivet¹ max. Ø	vs ⁹ mm/Sec.	vr ⁹ min ⁻¹	F ⁹ kN	S mm	G kg
ER 15 / ET 15	Radial/Tangential	10.0	0.05-140	0-3000	15.0	0-100	28.0
ER 30 / ET 30	Radial/Tangential	15.0	0.05-180	0-2000	30.0	0-200	120.0
ER 50 / ET 50	Radial/Tangential	20.0	0.05-120	0-2000	50.0	0-200	120.0
EO 03	Orbital	2.0	0.05-140	0-3000	3.0	0-100	28.0
EO 15	Orbital	10.0	0.05-140	0-3000	15.0	0-100	28.0
EO 30	Orbital	15.0	0.05-180	0-2000	30.0	0-200	120.0
EB 03	Roller forming	_	0.05-140	0-1000	3.0	0-100	28.0
EB 15	Roller forming	_	0.05-140	0-1000	15.0	0-100	28.0
EB 30	Roller forming	_	0.05-180	0-800	30.0	0-200	120.0

vs = Linear speed

F = Max. forming force

S = Stroke

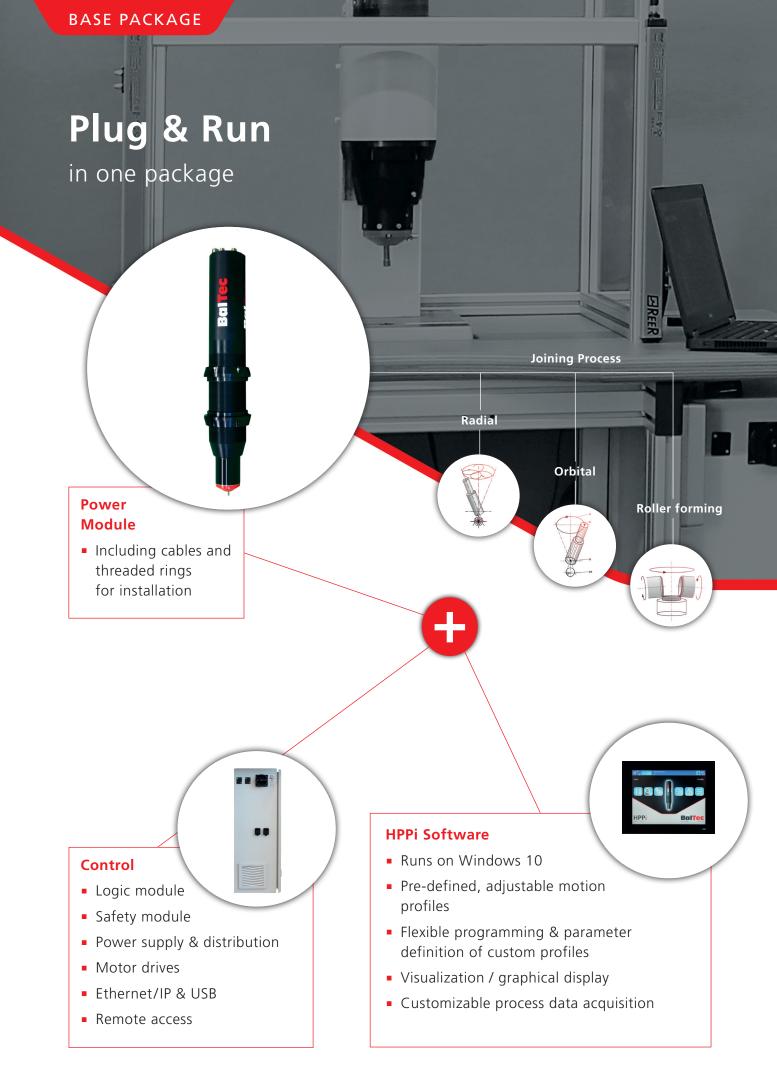
¹ Steel 370 N/mm²

vr = Rotational speed

G = Weight of unit

⁹ Subject to restrictions

Machine sizes determined by specific application | Subject to technical changes





Installation Options

- Flange or side mount possible
- Retrofit in existing production lines

Configurations

 Suitable for a variety of configurations including our existing models

Complete workstation

 CE compliant or as alternative **UL** compliant

Downholder / Pressure pad

With base detection

User interface

- 10.4" touch panel, pre-configured PC with HPPi
- 4" terminal for visualization
- Integrated OPC-UA license (Industry) 4.0 ready)

Who we are

With its headquarter in Pfäffikon (Zurich), Switzerland, the core competence of BalTec group is in the manufacturing of machinery for joining technology, with a focus on radial riveting process, on orbital and tangential riveting or roller forming. As early as 1968, BalTec (then still known as Bräcker) had already produced radial riveting technology, a process well known in a variety of industries. Today we are the global leader in riveting and cold forming technology. BalTec has direct operations in 7 countries with approximately 60 direct employees and is represented through over 40 sales partners around the globe.

What we offer

We firmly believe that the high-level of quality and customer satisfaction provided by BalTec can only be achieved by a strong local presence. Our technology and service center provide world wide support to machine builders as well as process development and testing for end users while defining the most suitable process. This competent and personal support is provided by BalTec employees or our trained representatives, close to your location.

Where we aim to go

Our position as a technology leader defines our focus for the future. We continuously thrive to improve this position and our offerings, in order to provide optimal and sustainable solutions to our customer in conjunction with joining technologies. With the patented HPP, a process data management system with integrated and intuitive machine control, we have created a new benchmark in process monitoring. A capability that allows the customer to achieve a clear cost advantage.

We are BalTec

Our strongest asset? Beyond any doubt, it is our committed and motivated employees, many of whom have gained a wealth of experience over many years. Together, we pursue a single goal with absolute dedication: customer satisfaction. Please arrange an appointment and take advantage of our experience.

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SWISS MADE

