

**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, but also orbital riveting, roller forming and joining. 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 centers 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.

**Headquarter:**

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**The BalTec group:****Switzerland / Germany**

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**France**

BalTec France  
Rambouillet, France

**USA / Canada / Mexico**

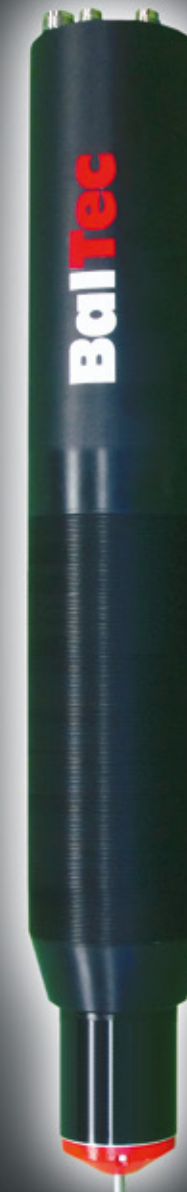
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**Brazil**

BalTec do Brasil  
Jundiaí, Brazil

**China**

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SWISS MADE

**Efficient & compact**

Riveting | Cold forming | Joining  
NC Technology

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**BalTec****BalTec**



## Speed, precision, flexibility

- 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, roller forming or joining. 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.

## Added value

As compared to  
conventional joining technologies



Increased productivity & reduced maintenance costs.



More compact design allows tighter positioning in assembly lines.



Greatly reduced operational costs compared to conventional systems.



Protected investment, as this machine is easily adaptable to new products and can meet a greater range of production requirements.



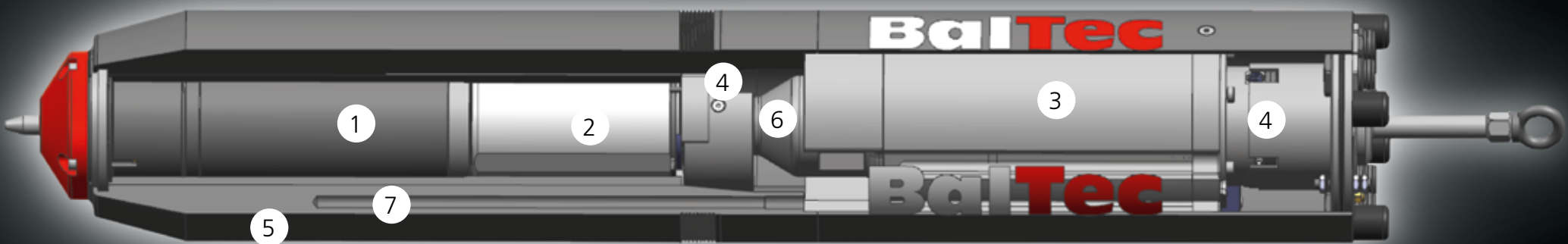
Immediate product fault and error detection by means of integrated 100% quality monitoring and traceability.





# Optimal Productivity

due to innovative technology



PATENT PENDING

**Process head**

- Radial forming head\*
- Orbital forming head
- Roller forming head

\* (mechanically identical to classical RN-line)

**Rotational drive**

- Variable RPM
- Power rating: 0.75 kW

**Linear drive**

- Motion profiles can be totally customized and programmed
- Power rating: 1.5 kW

**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**

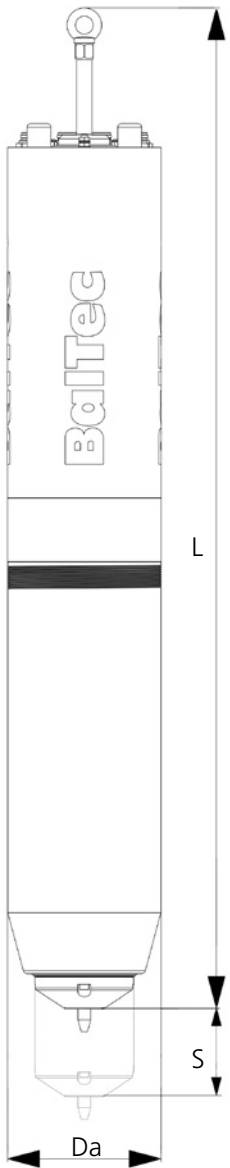
- Direct
- Inline

**Temperature**

- Separate monitoring of motor and process head temperature

Model	Unit	ER15	EO15	EB15
Technologies		Radial	Orbital	Roller forming
S	[mm]	0-100	0-100	0-100
F	[kN]	3-15	3-15	3-15
vr	[min <sup>-1</sup> ]	0-3000	0-3000	0-1000
vs	[mm/sec]	0-140	0-140	0-140
L	[mm]	785	785	785
Da	[mm]	120	120	120
G	[kg]	28.5	28.5	28.5

S = Stroke | F = Force | vr = Rotational speed (RPM) | vs = Linear speed  
L = Overall length without forming tool | Da = Outside diameter | G = Weight without forming tool



# Plug & Run

in one package

# Simple integration

for flexible operation

