



Short presentation of company Elo-Erosion GmbH and brand Seibu

We, Elo-Erosion GmbH, were founded in 2003 by the former spark erosion department of (AEG-)Elotherm GmbH as a new individual company.

With the experience of our expert team we are maintaining a long tradition since then and offer to our customers a wide pallet of services including sales, repair and maintenance, spare parts supply and technological consulting.

For years we have been exclusive partner of the Japanese manufacturer SEIBU in Germany and other European countries. We provide sales, service and application technology. We offer operator training and advise our customers in all questions related to wire EDM. Of course, we hold a wide pallet of spare parts in our stock. In addition to our service-department in Hückeswagen, we have bases near Pforzheim and Gera.

SEIBU is the first Japanese manufacturer of wire EDM machines (since 1972) and the first manufacturer worldwide of CNC-controlled wire EDM.

In the German market, SEIBU has been continuously present since 1978.

The acknowledged good reputation of the brand arose from the exceptionally high precision and longevity of the machines, the excellent surface quality and last but not least the unique wire feeding system.

Opposite to other competitors' systems, the automatic wire feeder **patented** by SEIBU is able to not only **feed** in the start hole but also **in the cutting gap**, directly at the position of wire break. And that since 1988 already.

This saves in case of wire break the positioning to the start hole for feeding and the subsequent movement along the previously cut path to the point of wire break with the wire supplied (time consuming). Furthermore, dirt or material warpage often lead to strictures of the gap.

In such cases, return of the supplied wire to the point of wire break may be impossible or at least leave unwanted markings on the workpiece.

Further technical advantages of the patented wire feeder:

- wire feeding dry as well as submerged with the work tank filled;
- wire feeding into smallest start holes;
- automatic search for free feeding position in case of dirty gap;
- extremely high efficiency for automatic feeding;
- feeding in shortest "chip-to-chip time";

Some remarks about the technique:

- Machine body made of Meehanite cast to achieve high stiffness and high vibration damping. This is essential for high positioning accuracy and high dynamics, prerequisite for most precise material cutting with finest surface and short machining time;
- Constant precision through water-cooled lower arm;
- High machining accuracy with finest surface through 0.1µm increments in all axes;
- Excellent surface even with use of brass wire, no special coated wire needed (lower price and operating cost);
- Almost no tungsten corrosion at certain carbide metals through specific control and generator technology;
- Machine design without wire transport belts; the wire is disposed from the machine by water jet (no time exposure and high cost like with wearing transport belt systems);

Through their highly developed technology, already the standard machines of SEIBU (MHP-/MB-series) are in direct competition to the „High-End“-machines of other renowned manufacturers.

All Seibu machines are completely developed and manufactured in Japan.



Seibu