



Horst Klein GmbH

Company

Horst Klein GmbH located in the North Rhine-Westphalia Business Centre in Velbert has been in business for more than 20 years.

In 1980, the founder and manager Horst Klein wanted to bring a company onto the market that would provide a top standard of service.

Together with his dedicated and highly qualified personal, he did just that.

Thanks to the team's many years of experience and ongoing learning, today the company is one of the market leaders in CNC engineering in Germany. The combination of the latest high tech with "human tech" ensures competitive advantages and guarantees quality.

21st-century clients need components, tools and models that are easy and quick to use. Daily each member of the 18-person team is faced with a special challenges, requirements and difficulties to satisfy a wide range of customers.

Specifications from our clients and in-house designs are translated into practice in different areas such as high-speed cutting (HSC), electrical discharge machining (EDM) and laser welding and grinding techniques.

Our wide range of machines (22) have an average age from two years.

HSC- Milling

As one of the first pioneers in the early 19th century Horst Klein was one of the first companies to make a breakthrough in high speed cutting.

With these innovations we now use seven three-axis milling machines from Rödertec with traverse paths XYZ 1000 x 800 x 500 mm and

OKK with traverse paths XYZ 1530 x 740 x 660 mm

Also we have one five-axis DMG DMC 105 V linear with linear drives in all axes with an rapid traverse speed up to 90 m/min to ensure high performance for perfect HSC-Milling.

Wire EDM

What began in 1980 on about 150 m² with an AGIE wire EDM machine has grown with the latest expansion in 2000 to a production area of over 1000 m² and this space is already fully utilised. Just as we did then, we work with the most modern plant; four AGIE wire EDM machines (see datasheet) are part of our basic inventory.

In keeping with our corporate philosophy we provide individual advice and customised solutions. This way we always manage to convince our clients of the benefits of our offers: quality, price/performance and service. Together, we create an extremely fruitful and profitable partnership for both sides.

EDM cavity sinking

Our success is based on customised, practicable solutions for the client.

In our CAD department we draw up plans with the help of the latest hardware. Thanks to shorter programming times we obtain the most effective performance data.

We can choose from various machining options for production so that we can always use the most economical and efficient methods. Because we integrate all the production stages we do not need many external services. This makes for short distance and easy communications and saves on the increasingly costly factor of time.

Due to change in client demand, EDM cavity sinking plays less of a role. It remains a firm element in our range of products, however and of course we also work in this area with the newest machine generation, the AGIE Innovation 3.

We make the electrodes ourselves, mainly out of graphite, which guarantees us top quality EDM cavity sunk products.

Laser welding

A very intensive and delicate area is our laser welding technology with the help of our mobile laser station we are able to repair many objects which normally must be completely taken apart to repair.

This helpful tool is the rescue for many of our clients.

Measuring

The technicians and experts at Horst Klein GmbH develop, design, optimise and build at maximum efficiency. We deploy the whole of our technical know-how to develop customised solutions that our clients can use to optimise their products at minimum cost. A package of innovative measures underpins our unusually broad range of service.

Precision and dimensional accuracy play an increasing role in tool-making, machine-building and mouldmaking.

We can also meet these higher requirements with the three-coordinate CNC gauging machine from Leitz - Brown & Sharpe for shape tracing 3D contours as well as quality assurance.

We attain a precision of 2,85 µm on 1000 mm in a room with steady air conditioning at 20°C ±1°C to VDI/VDE 2617.

The company was issued with certified quality for the first time in 1998. Thanks to additional investments we were also able to meet and improve on the DIN 9002 standard in 2001.