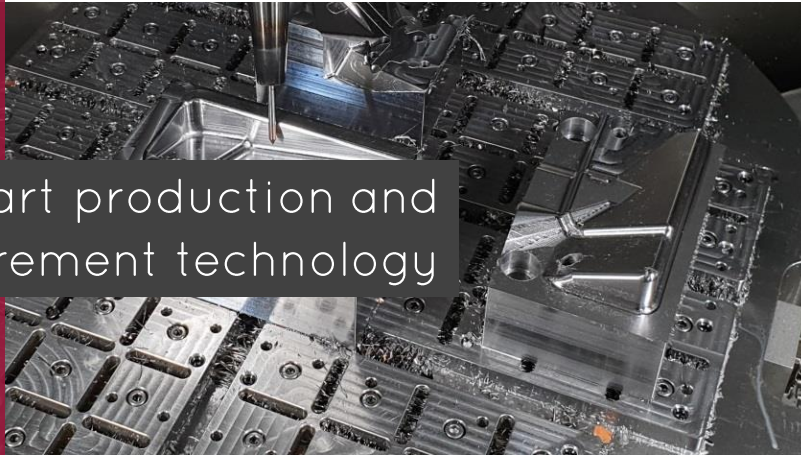


Precision from prototype to
small series



State-of-art production and
measurement technology



Large production depth –
best quality



MX Prototyping

We rely on quality.
Uncompromising.

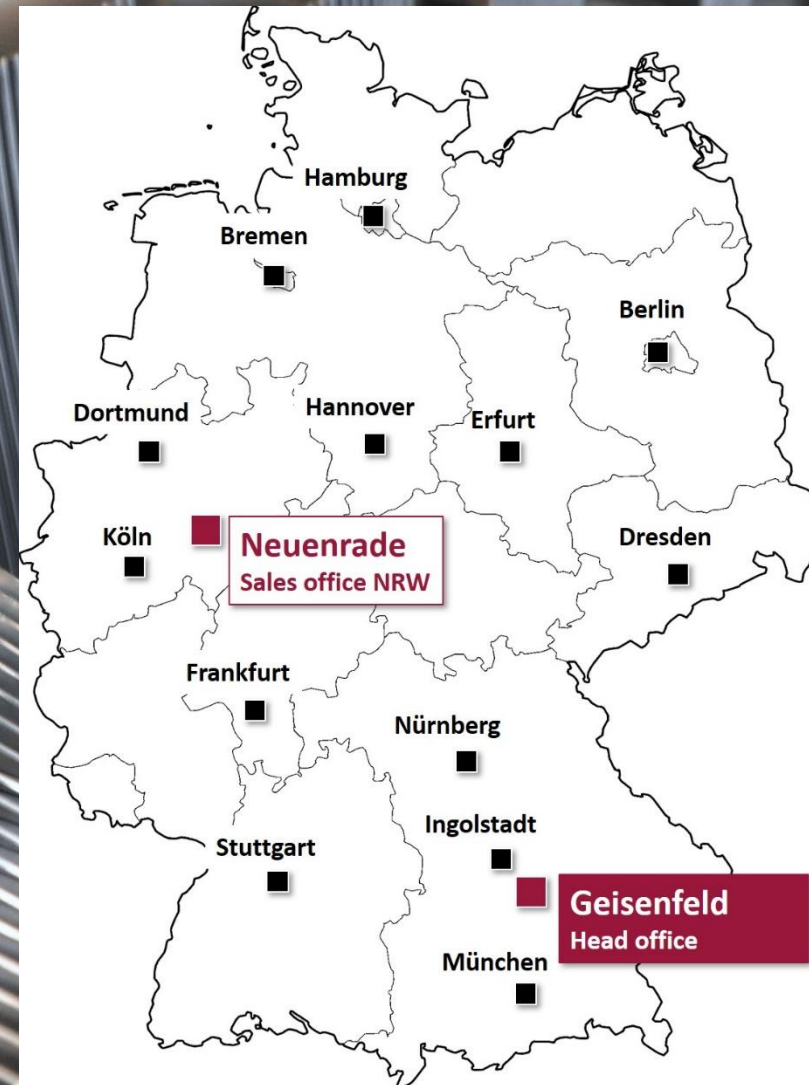
Company Presentation

February 2021

Founded in 1989, MX Prototyping is a medium-sized company in prototyping and combines craft and industry. Highest quality and customer satisfaction are our motivation.

Our approx. 40 employees are our greatest asset. Therefore we maintain a corporate culture that is characterized by openness, flat hierarchies and a personal and respectful relationship with each other.

We encourage motivation and commitment of our employees and we do everything that they feel well in our company. In this way we are able to meet the challenges of our customers in a team.



Strict quality management and the perfect interaction between man and technology are the guarantee for our high production and product quality - and for unrestricted customer satisfaction.

Using state-of-the-art manufacturing and measuring technology, all our products are "Made in Germany".

We employ only well educated and trained professionals who can fully implement our high quality standards.

Short reaction times and a comprehensive service are further quality features of our work.

The effectiveness of our quality and environmental management system is confirmed by the certifications to ISO 9001: 2015 and ISO 14001: 2015.



Pictures: MX Prototyping

MX Prototyping produces prototype and small series sheet metal parts, forming tools, laser boards and laser edge parts, mainly in the automotive and mechanical engineering sectors.

We offer a vertical range of manufacture and accompany the entire production process from the initial design to the final product. For this purpose we use modern production and measuring technology.

In combination with our extensive experience and expertise consistent product quality is guaranteed.

Precision Work on behalf of customers

- forming of steel, aluminum or magnesium components
- prototypes in steel, aluminum or magnesium
- small series parts made of steel or aluminum
- production of complex assemblies
- forming of high-strength steels



Picture: MX Prototyping

Leading Software in use

Design

- Catia V5
- Spinfire Viewer (all workstations)

Useable data formats

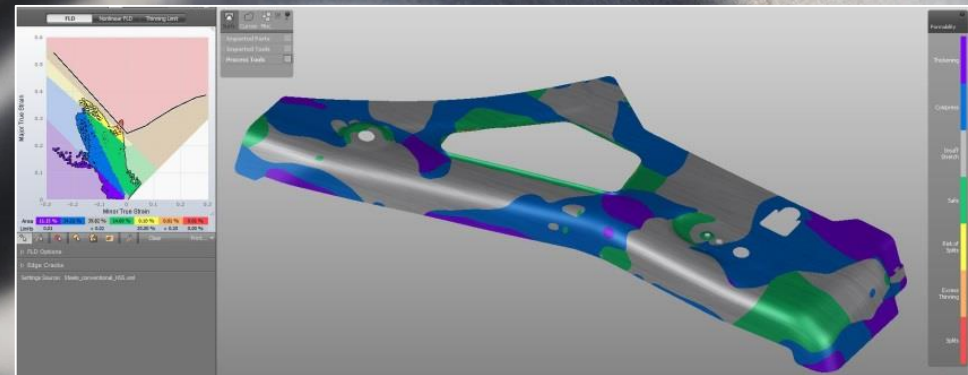
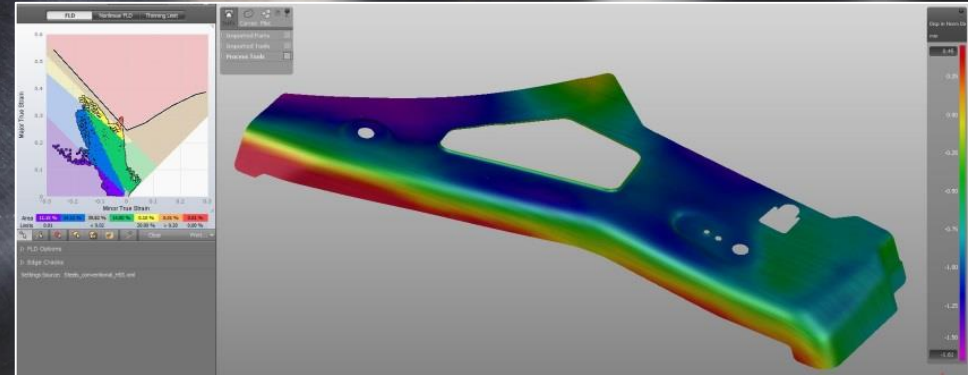
- STEP
- IGES
- CATPART
- SLDPR2

Forming simulation

- Autoform Plus R8

Data exchange

- OFTP 2
- OS4X-Webinterface



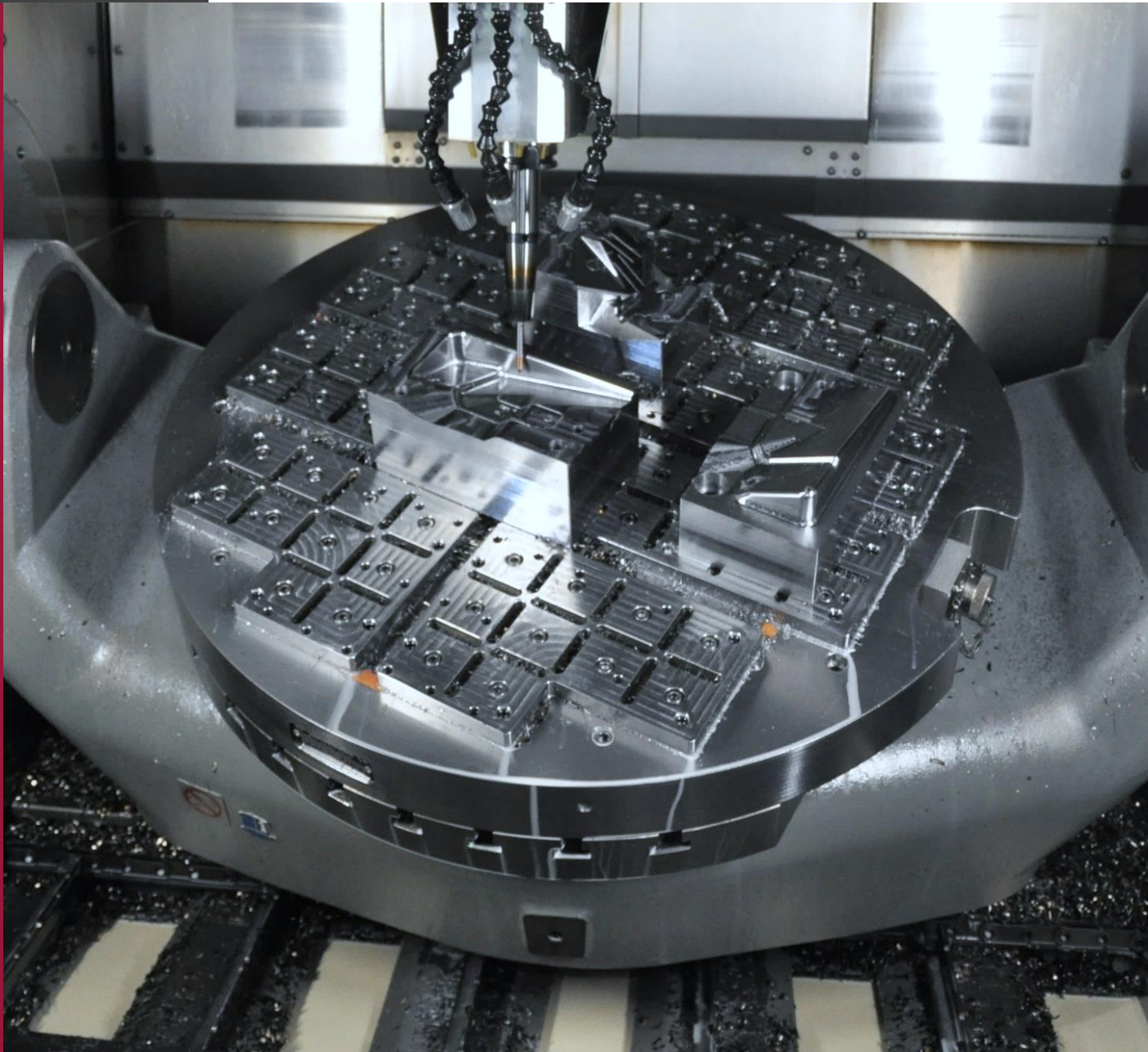
MX Prototyping has two 5-axis CNC machining centers. This enables us to offer our customers tailor-made solutions with high efficiency and punctuality.

Hermle C50 dynamic

- extremely stable and reliable
- X 1100 mm, Y 1000 mm, Z 750 mm
- electronic probe
- cooling on the milling tool
- chip conveyor
- 50-fold tool changer

Hermle C42 dynamic

- X 800mm, Y 800mm, Z 550mm
- interference area 800mm, 1400kg loading
- electronic probe
- cooling on the milling tool (IKZ)
- chip conveyor
- 42-fold tool changer



Picture: MX Prototyping

MX Prototyping is able to produce prototype parts, small batches and series in the field of presses through its extensive machine park.

With our presses of 60 to 615 tons of pressure and table sizes up to 1200 x 1200 mm, we can respond individually and flexibly to every customer request.

An overview of our hydraulic presses:

Typ	Manu- facturer	Pressure t	Tabel size mm
PYE 63	WEMA	60	630 x 500
PY 63S1	WEMA	60	740 x 560
100 SS	WEMA	100	742 x 702
PY 250 SS	WEMA	250	1250 x 900
PY 250 N	WEMA	250	1250 x 900
Duramatic	Mossini	300	1105 x 820
H-615	HiDRO- LiKSAN	615	1200 x 1200



Picture: MX Prototyping

At MX Prototyping we work with a modern and variable 3D system. With laser technology we can cut components of all kinds from simple to complex geometries.

6-axis laser system

Trumpf TruLaser Cell 7040

- Beam power 4 kilowatts, CO2 laser
- Traverse path X 4.000mm, Y 1.500mm, Z 750mm
- X 1100 mm, Y 1000 mm, Z 750 mm
- 2 stations - mode for in-cycle setup and cutting
- Heat recovery to reduce energy costs
Owls reduction of CO2 - emissions
- Highest precision and cutting speed



Picture: MX Prototyping

Our range 3D measurement

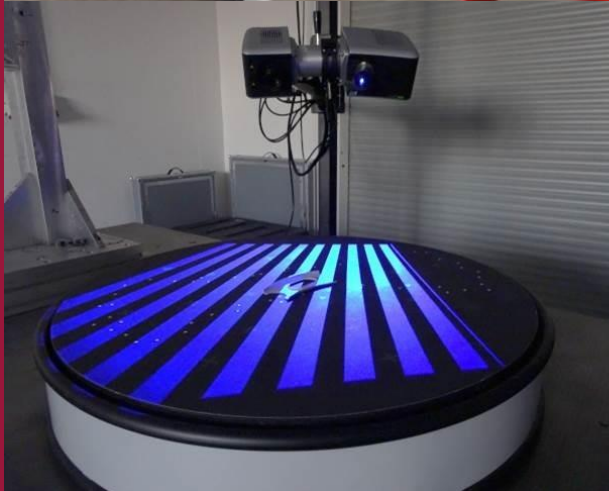
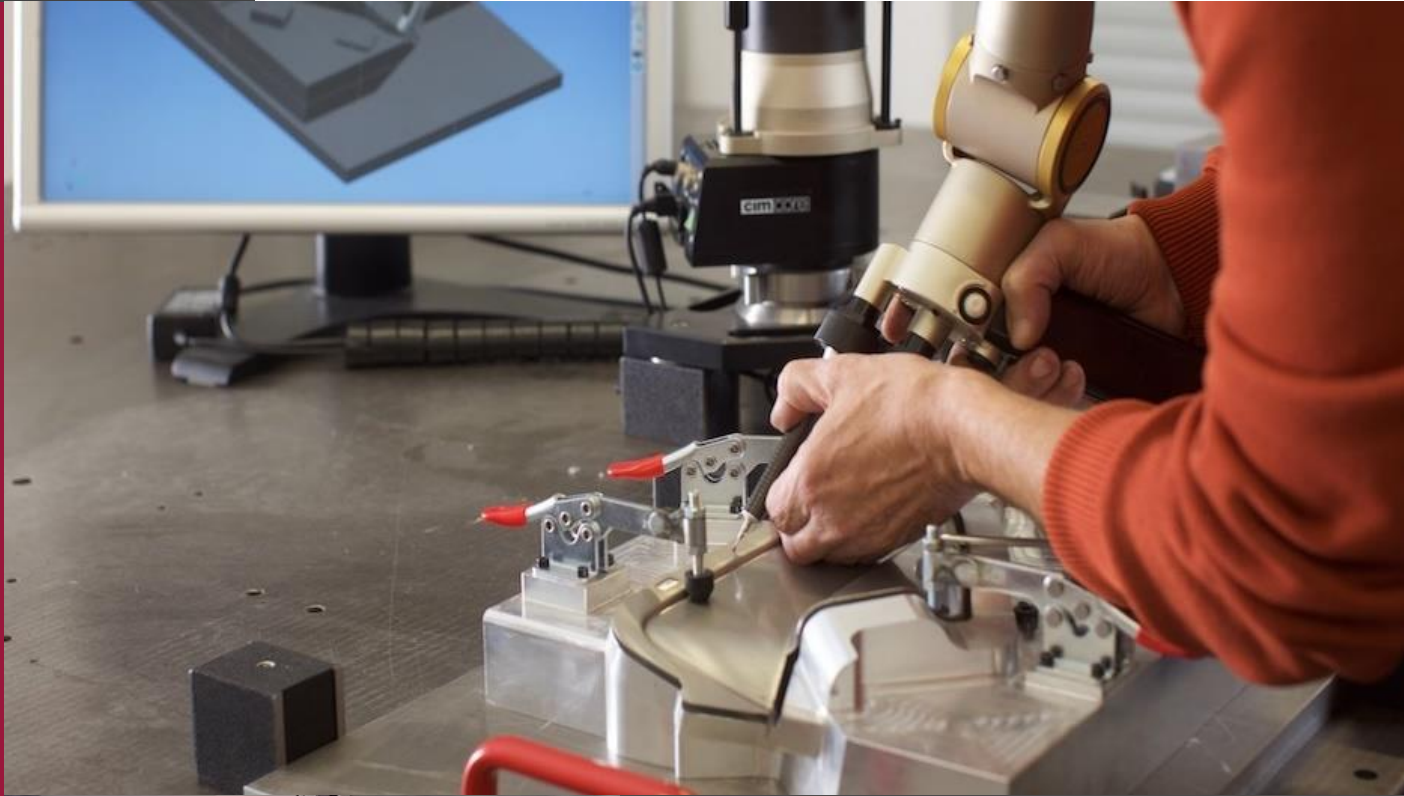
For all components produced by us, the first part is released by measuring the shape and trimming. On customer request, a measurement protocol is created according to specification.

Our measuring software

- Polyworks
- GOM Inspect

Our measuring tools

- Romer Infinite 3D Measuring Arm
- Zeiss Comet 6 High end 3D Sensor
- GOM Athos Scanbox



Pictures: MX Prototyping

Our range Welding technology

We can process the materials magnesium, aluminum, steel and stainless steel by welding. The following welding processes are:

- CMT robot welding with rotary-tilt individual positioner
- MIG, MAG and TIG welding with state-of-the-art computer-controlled systems from Fronius and EWM
- Arc stud welding with Nelson system
- Spot welding

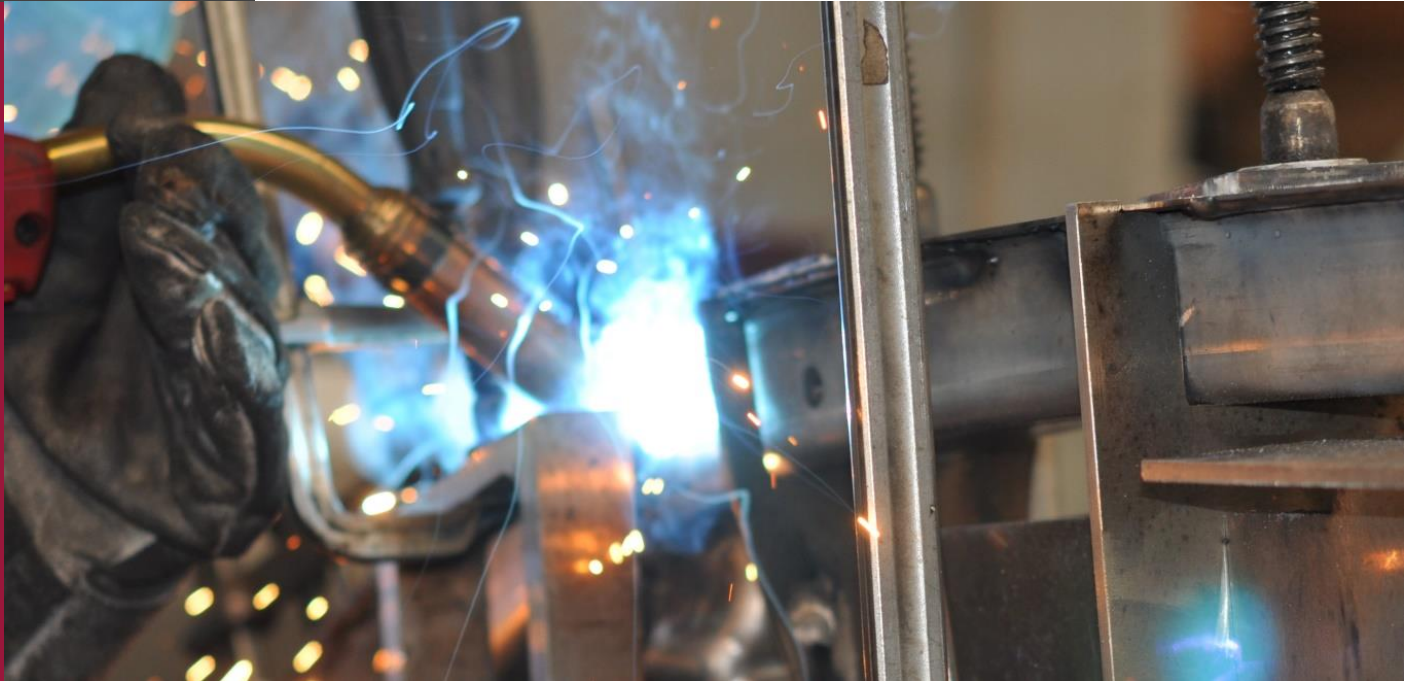
The examination of the welds by ground inspection takes place in our house. We employ only trained and certified welders.



Pictures: MX Prototyping

Assembly

Division into different subassemblies to optimize the tolerance chain as well as the production processes.



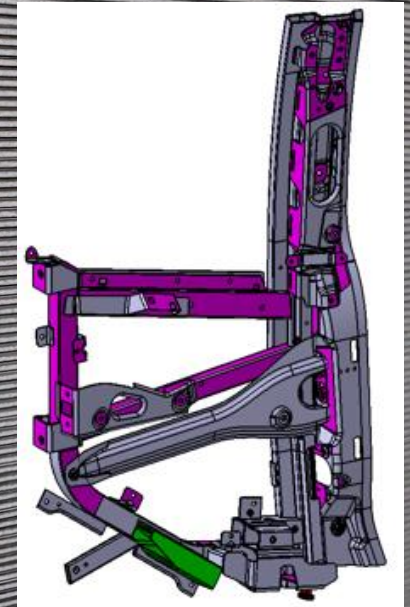
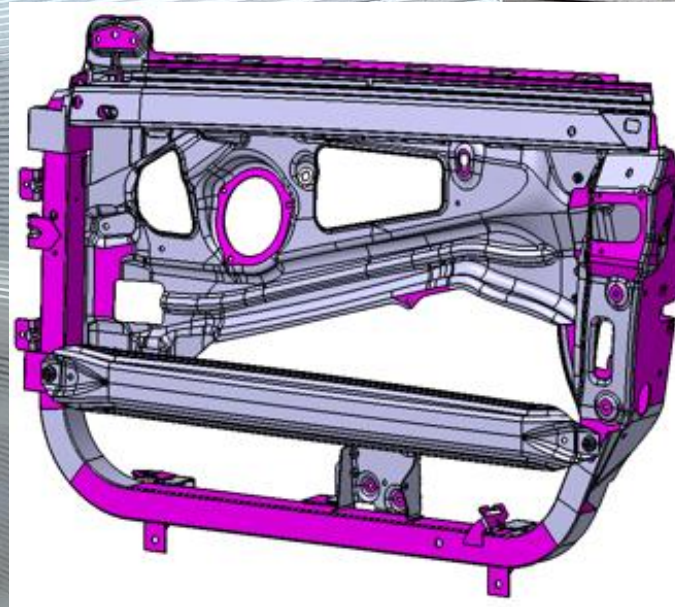
Checking fixture

100 percent control. All interfaces to the vehicle are checked.



Pictures: MX Prototyping

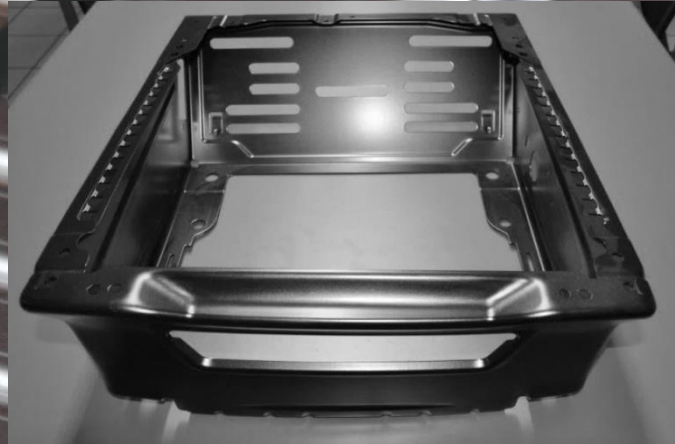
Development support, prototypes and pre-series with high-strength aluminum



Pictures: MX Prototyping

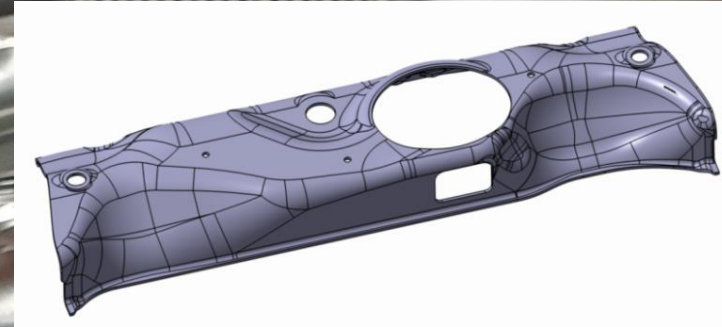
Our range Seat structures

Prototypes made of steel, aluminum
and magnesium



Pictures: MX Prototyping

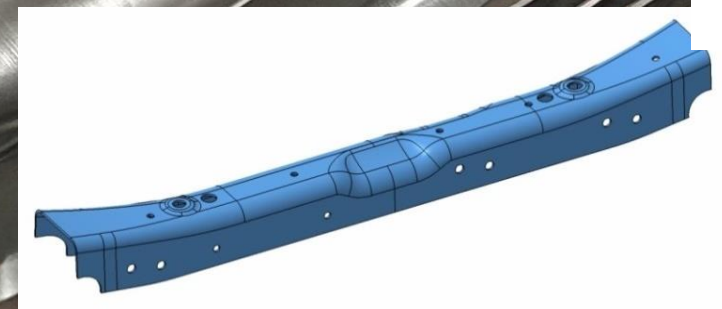
Crossbeam S420 MC
t 3,0 mm



Crossbeam S420 MC
t 2,75 mm



Crossbeam S420 MC
t 2,0 mm



Pictures: MX Prototyping

Cockpit carriers

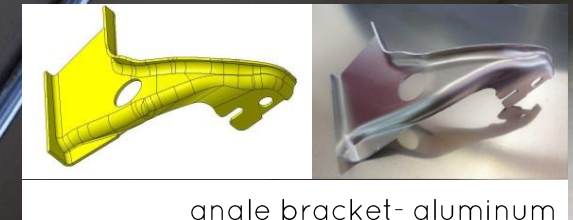
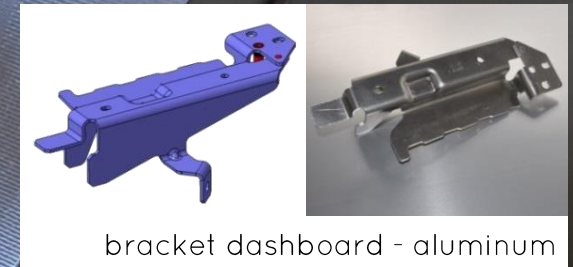
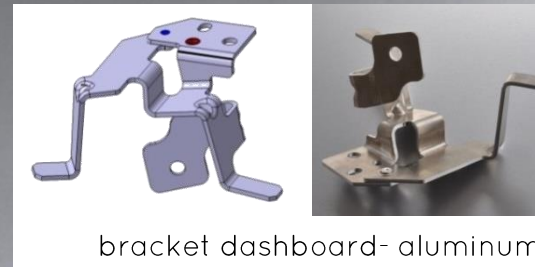
Various brackets

Heat protection

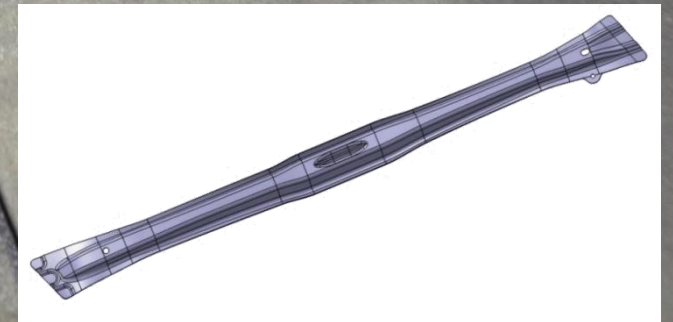
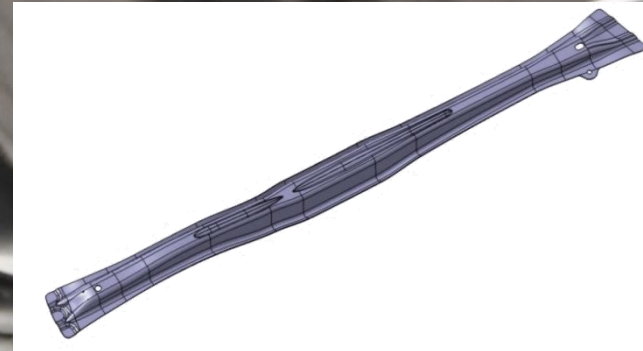
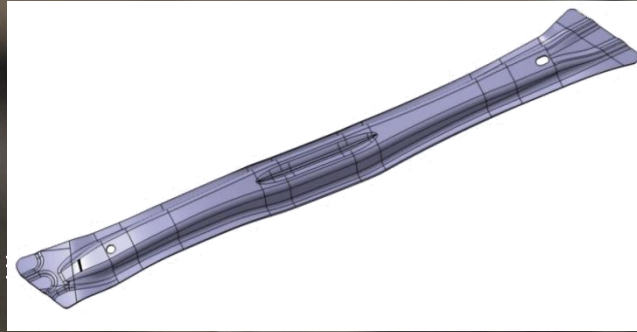
Heat shield components

Milling components

Seat components



Made of high-strength steel



Pictures: MX Prototyping

Our range Crash management systems

Made of steel



Pictures: MX Prototyping

Contact

We rely on quality. Uncompromising.

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Picture: MX Prototyping