

# COMPANY PRESENTATION

We develop complete solutions for measuring, testing and assembly systems from the design to the final production, assembly and commissioning.

**See the difference for yourself. NM<sup>M</sup>H –  
Innovation is our world**



NMH data and facts at a glance

# NMH COMPANY PRESENTATION

## Company key figures

- >> Annual turnover: € 16 million
- >> Employees: 100
- >> Founded: 1943
- >> Registered office: D-88367 Hohentengen
- >> Globalisation: Worldwide references

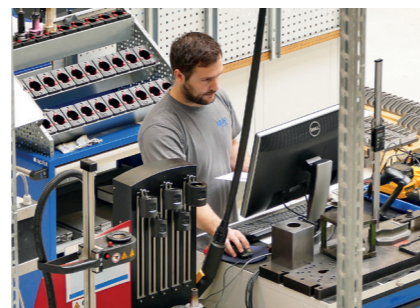
## Range of services

- >> Mechanical project planning, design and development
- >> Electrical project planning, design and development
- >> Mechanical machining with 100 % production depth
- >> Mechanical and electrical assembly
- >> Pneumatic and hydraulic installations
- >> Start-up assistance
- >> Service and maintenance
- >> Modernisation (retrofitting)
- >> Service and maintenance contracts

## Our strength is your advantage

- >> NMH delivers complete solutions – from a single source

## Company film



Overview of assembly, measuring and testing services

# SPECIAL MACHINE CONSTRUCTION

## Assembly systems and fixtures

- >> Press-in systems
- >> Screw stations
- >> Clamping and welding fixtures
- >> Joining devices
- >> Workpiece carrier systems
- >> Manual assembly tables and auxiliary fixtures

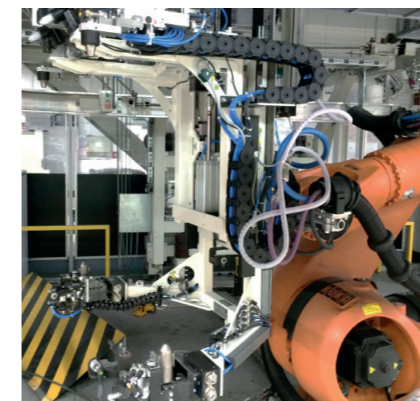
## Measuring machines and fixtures

- >> Force / path monitoring
- >> Dyn. wobble / transmission measurement
- >> Tooth clearance and flank testing
- >> Leak testing
- >> Brake disc test stands
- >> Manual measuring tables
- >> Inner channel testing of bores

## Grabber systems

- >> Component grabber
- >> Portal systems
- >> Rotating and turning fixtures
- >> Robot grabber
- >> Manipulators

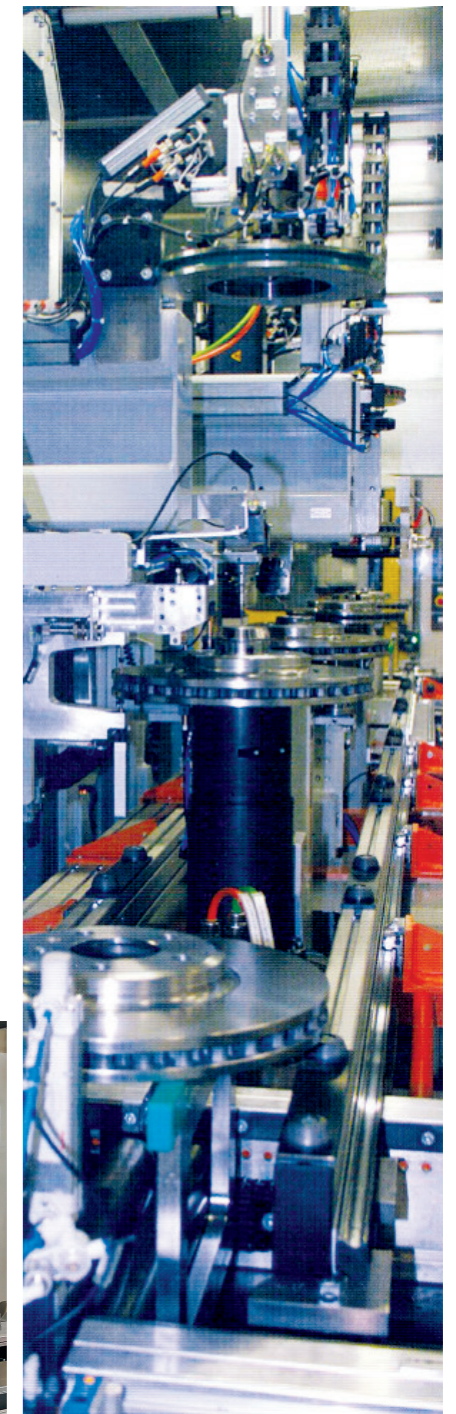
We also have the right product  
for your task!



>> Grabbers for joining front ends



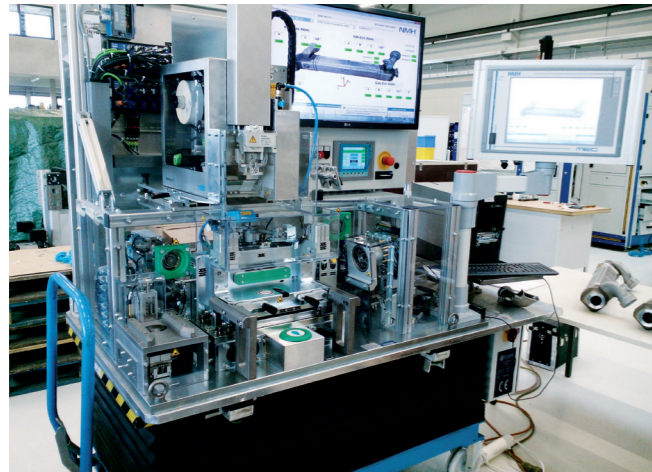
>> Inner channel bore testing



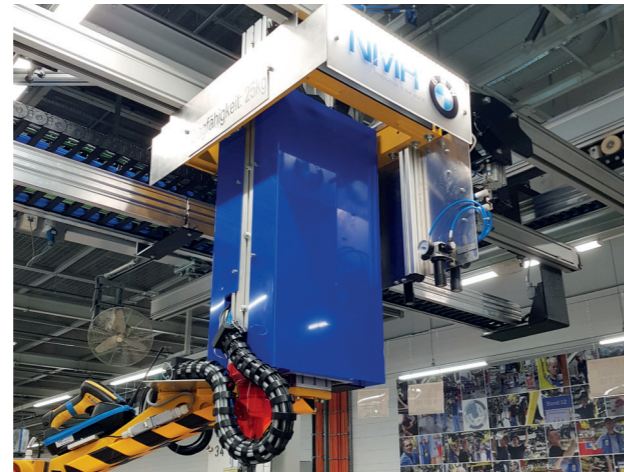
>> Brake disc measurement, crack testing and identification

Special machine construction for assembly, measuring and testing

# EXAMPLE REFERENCES



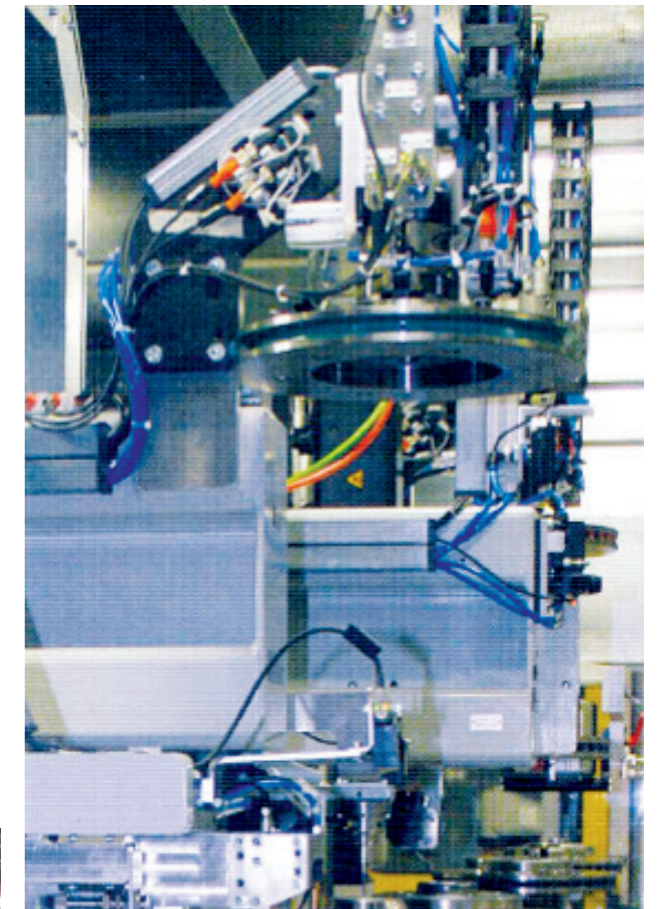
>> Measuring dimensional control device for exhaust gas heat exchangers



>> Handling device for passenger vehicle batteries



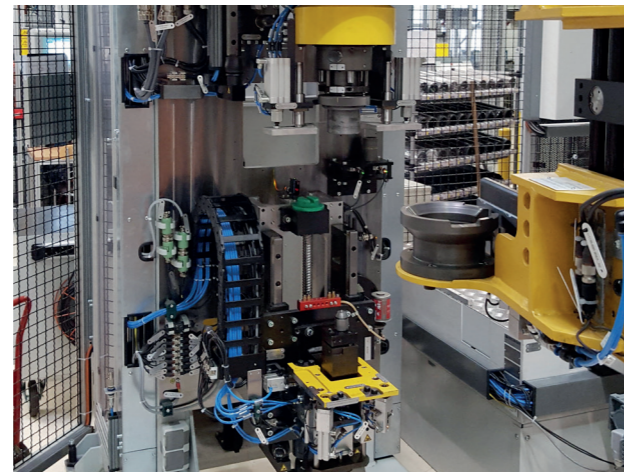
>> General view of universal assembly device for valve seat rings, valve guides and cylinder sleeves



>> NMH electric press for gearbox housings, various bearings and bolts installed in various gearbox housings in a single system



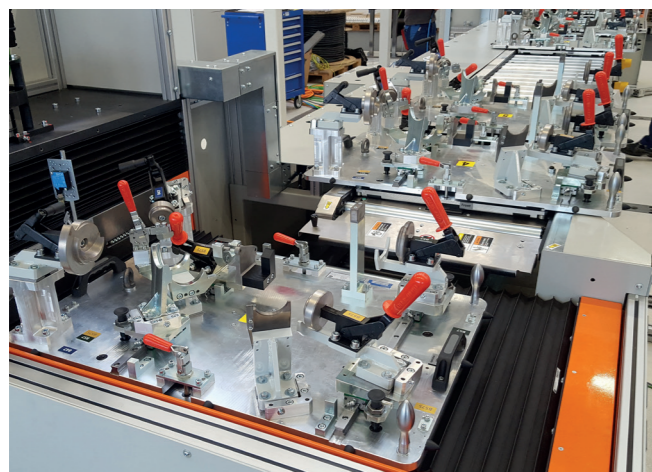
>> Rear side assembly system



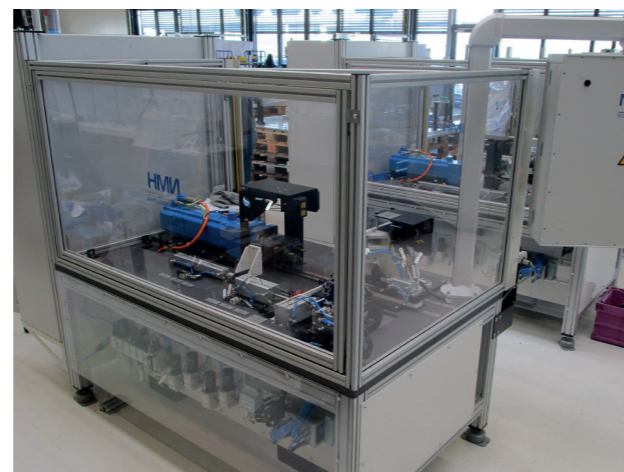
>> HAG passenger vehicle collared nut screw station



>> Robot station rear and front axle



>> Friction roller conveyor with workpiece carrier



>> VTG bearing press



>> Assembly lines and work stations for corner modules / axles



>> Housing caulking system

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# MEASURING TECHNOLOGY

- >> High-performance industrial measuring software on proven hardware for recording / evaluation of measuring data
- >> Arbitrary display of sensor signals and measurement results
- >> Freely editable formulae, characteristics, tolerances, stations, etc.
- >> Documentation of measurements, statistics, diagnostics, XY charts, etc.
- >> QsStat®, Microsoft Excel®, CSV, etc. interfaces for external evaluation of measurement data

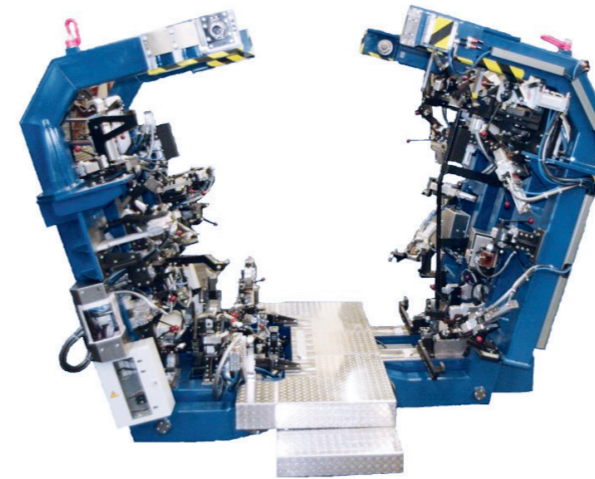


>> NMH measuring computer / industrial PC "MEC Touch"

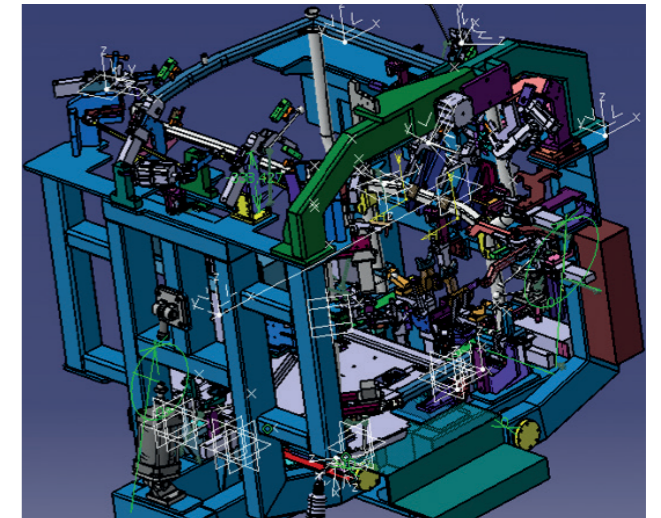
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# WELDING TECHNOLOGY

NMH designs and builds all types of welding fixtures according to customer specifications or in-house designs with manual or pneumatically actuated clamping / spreading mechanisms. Whether equipped with cooled clamping systems or high-strength and temperature-resistant materials, NMH delivers solutions according to your requirements for everything from simple clamping fixtures to complex robot-loaded multi-cells (e.g. as a 3-way multi-welding cell).



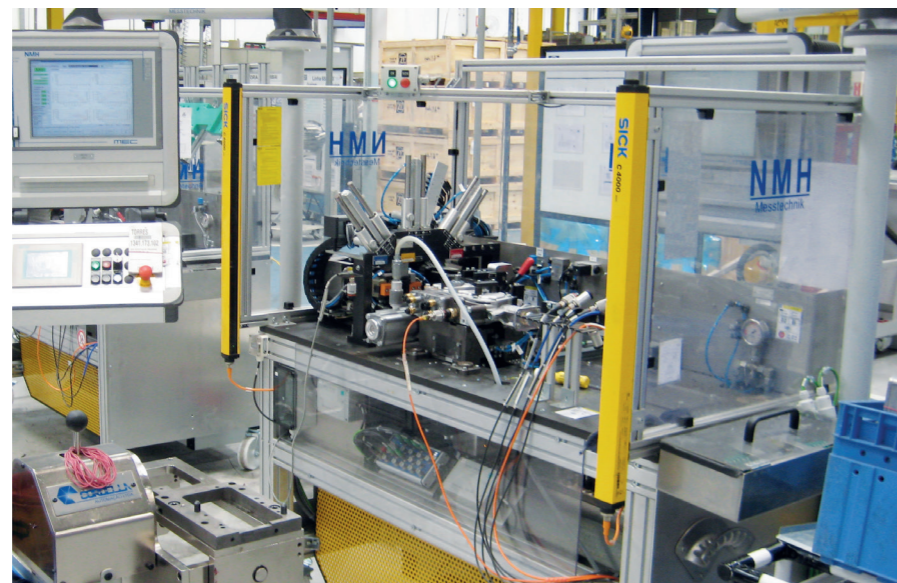
>> Pivoting and walkable NMH final welding fixture for cabs



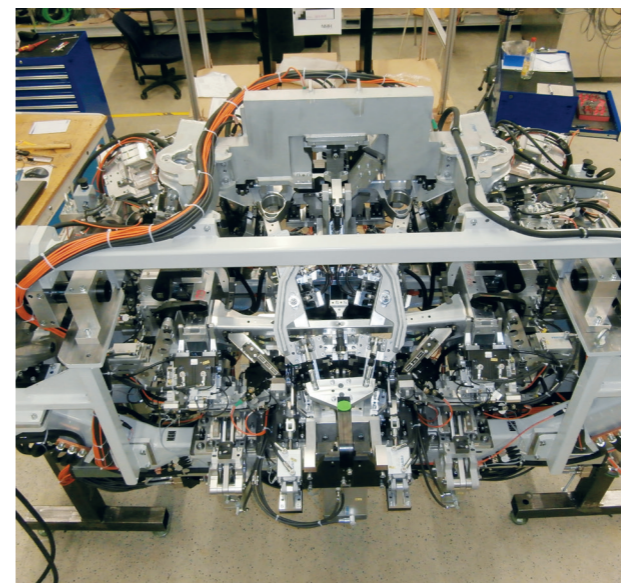
>> Cab final welding fixture CAD model



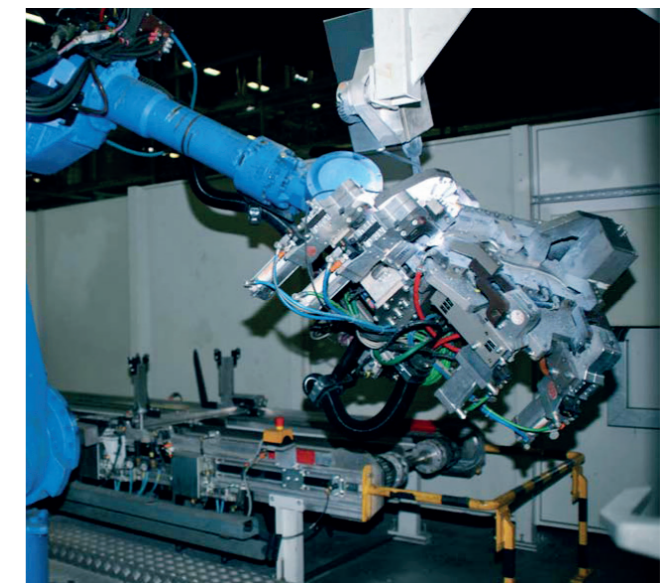
>> Example installation of a measuring system



>> Measuring system for testing of shift turrets for commercial vehicle applications



>> Robotic welding fixture

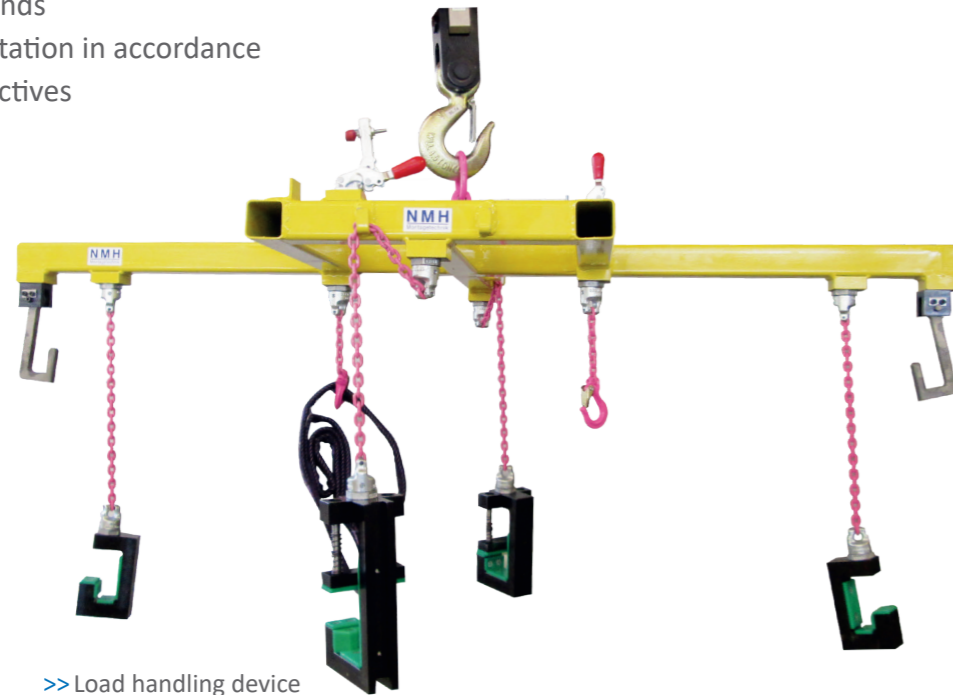


>> Robotic grabbers as TIG / MAG welding fixture

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# LOAD-HANDLING DEVICES

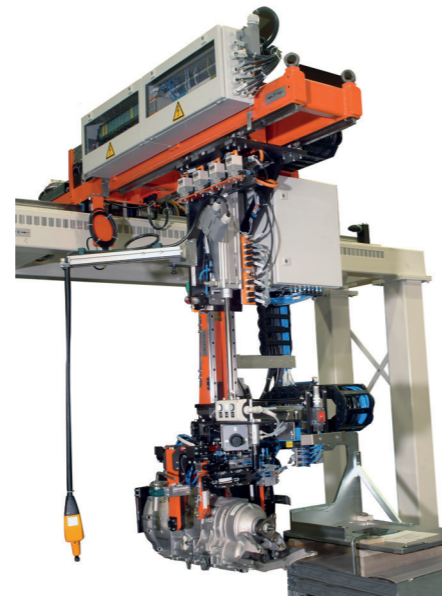
- >> Special load-handling devices for engines and transmissions
- >> Lifting equipment (grabber tongs, scissor-type tongs, cross beams)
- >> Standardised lifting equipment catalogue
- >> Modular adaptation designs
- >> Load test stands
- >> CE documentation in accordance with EU Directives



>> Load handling device for front axle



>> NMH manipulator



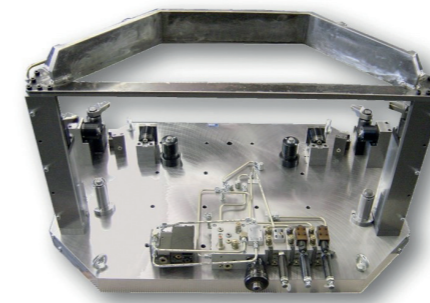
>> Transmission joining

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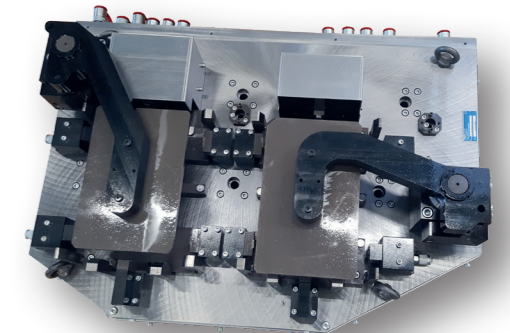
# CLAMPING TECHNOLOGY

For decades, NMH has been planning, designing and producing everything from simple hand clamping fixtures to highly complex mechanical, pneumatic and / or hydraulic multi-way clamping fixtures, including hydraulic control units for low-pressure clamping or high-pressure clamping. Contact our experts.

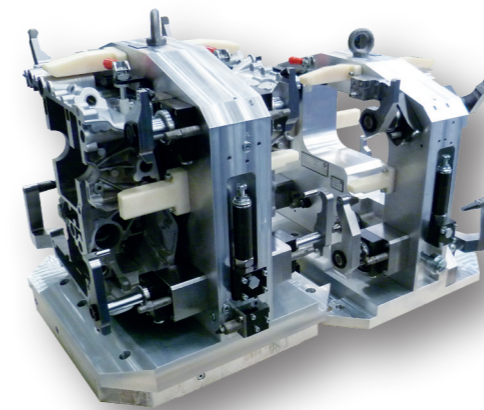
- >> Consultation
- >> Design
- >> Production
- >> Service
- >> Decades of experience
- >> Worldwide references
- >> Everything from a single source



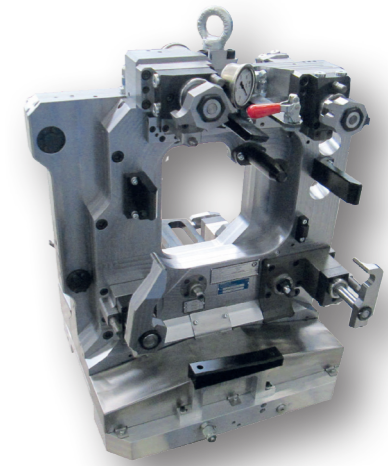
>> Lorry crankcase with hydraulic NMH control block clamping fixture



>> Pressure die casting clamping fixture



>> Clamping fixture: pressure die casting



>> Clamping fixture: pressure die casting

NMH contract manufacture – production capacity of 6000 hours / month

# COMPLETE MACHINING

We have the right solution! We are ideally equipped for your manufacturing task – from the procurement of materials, cutting, surface machining and assembly to the documentation and shipment of the finished workpieces to you.

- >> CNC milling / boring systems
- >> CNC lathes
- >> Grinding (cylindrical and flat grinding)
- >> Welding
- >> Machining centres, large parts weighing up to 5 t and up to 6,000 mm long
- >> Measurement (conventional and climate-controlled CNC)
- >> Electric discharge wire cutting / electrode discharge machining (EDM)



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# PLASTIC TECHNOLOGY

- >> Serial production of injection-moulded plastic parts (1K / 2K)
- >> Procurement of production tools from our international partners
- >> Process planning collaboration with the customer
- >> Our machine inventory comprises 10 state-of-the-art injection moulding machines with a closing force range between 220 and 3000 KN



WE SHAPE YOUR PROBLEMS INTO SOLUTIONS  
ON TIME, IN THE BEST QUALITY AND AT AN ATTRACTIVE PRICE

[WWW.NMH-KT.DE](http://WWW.NMH-KT.DE)

**MORE THAN 3,400 CUSTOMERS  
WORLDWIDE – INNOVATION IS  
OUR WORLD**



**About NMH**

NMH is one of the “hidden champions” for complex measuring, testing and assembly systems. The company employs around 100 employees at the Hohentengen location. NMH offers complete solutions – from the design to the final production, assembly and commissioning. Nearly all German premium automotive manufacturers and their suppliers are NMH customers.

**Excerpt of  
references**



**Company film**



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