



**A GOOD WAY TO WORK HARD**



## QUALITATIVE, INNOVATIVE, EFFECTIVE

→ **M&S Gruseck GmbH is a young, innovative company, which stands for highest quality in the sectors wear technology, mechanical processing as well as welding techniques, steel building and plant construction since 2003. The manufacturing processes found on engineering, development and construction, as well as practicable implementation, which is all represented in-house.**

By the help of competent guidance and assistance, as well as customer-oriented service performances M&S Gruseck GmbH features besides highest quality requirements and KnowHow equally flexible and prompt solutions depending on application and requirement.

For ensuring these requirements, all processes were certified for the DIN EN ISO 9001 in 2015.

Therefore, the company offers its clients in all product and service sectors the optimized quality as well as satisfaction.

By the use of this expertise and innovative capacity, the owner-operated company shortly established in the national and international market.

With holistic and future-oriented hinking, M&S Gruseck GmbH likes to enhance continuously together with its partners.

## USER-ORIENTED

→ As a competent company, M&S Gruseck GmbH offers a wide tool- and wear part product range for standard, as well as for special-purpose solutions. This includes spare parts for established machines as well as optimized wear resistant solutions according to the application.

Everything is implemented in-house – starting with technical development, the analysis of the wear, followed by the constructive implementation, the construction of prototypes up to the series production afterwards. As a result, the company can offer the customer an easy and structured process for reaching an optimized tool life.

In addition to the production of wear parts, the company also manufactures machine components, equipment and accessories for completing the product portfolio. Among rotor shafts, drum screens, casing shoes and combs there is also the possibility of a user-oriented customized solution starting with the conception, followed by the production up to the assembly on site.

The company does not only turn its attention to the assembly of new parts, reconditioning, maintenance and also refurbishment have a big value within the processes. This provides an essential advantage to the user.

By enlarging capacities in factory area, as well as in work force

and in machinery, M&S Gruseck GmbH established a further basis for the upgrade of the sectors mechanical processing, steel building and plant construction.

The production of pipelines or tanks, the individual manufacturing of screen drums up to engineering, construction and implementation of stationary

screening units – everything is offered by the company as complete solution.

To complete the performance in the sector plant engineering there are also additional options as static planning of the installation, central lubrication, steering or conveyor technology.



## PRODUCT PORTFOLIO

- ✓ Wear parts for Recycling  
Agriculture  
Foundation drilling
- ✓ Industrial knives
- ✓ Conicals
- ✓ Mulcher tools
- ✓ Road rehabilitation
- ✓ Drum screens
- ✓ Stationary trommel screens
- ✓ Casing shoes
- ✓ Pipeline manufacture
- ✓ Tank construction
- ✓ Steel constructions

## RANGE OF SERVICES

- ✓ Engineering
- ✓ Development
- ✓ Construction
- ✓ Prototype/tooling
- ✓ CNC-machining
- ✓ Induction brazing
- ✓ Pasting/stamping
- ✓ Sandblasting
- ✓ Hard-facing
- ✓ Granulation
- ✓ Wear protection
- ✓ Refurbishment
- ✓ Painting
- ✓ Plant construction
- ✓ Assembling
- ✓ Service on jobsite
- ✓ Rehabilitation





## PERFORMANCE IN PRECISION

→ With an advanced equipped machine park, up-to-date CAD/CAM-systems and flexibly conceived production processes are characterized by its performance in CNC-machining. Starting with single item fabrication through small series up to serial production, the company has all requirements.

By the usage of four- and five-axis-machining centers with optional pendular operation as well as dynamic turntable units, the components are produced in high quality, economically and efficiently.

In collaboration with their clients, high flexibility and the application of the

CAD-/CAM- software, the M&S Gruseck GmbH develops the best possible solutions from the draft, through programming up to the finished product – even for the most difficult five-axis-machining. The performance spectrum not only includes the production of machine components, but also the hardening,

tempering and refining are part of the company's service. This provides an advantage to the customer. The quality control is occurred according to the DIN EN ISO 9001 and is documented by test reports or measurement reports, depending on the demand.



## BRAZING PROCESS

→ M&S Gruseck GmbH has been brazing different qualities of tungsten carbide for more than 10 years in order to be able to offer process optimized tools to you as clients. From single item production up to serial production – everything happens on modern semi-automatic inductive brazing installations.

### Tungsten Carbide

The compound material tungsten carbide consists of a resistant material and of a relatively soft binder as for example cobalt (Co). Hardness, bending strength and fracture toughness define the usage requirements of the sintered tungsten carbide. Thereby, the particle size of the resistant material as well as the quantity percentage of the binder are important actuating variables regarding the different applications of tungsten carbide. Tungsten carbide grains form this resistant material phase.

### Connection of tungsten carbide and base body

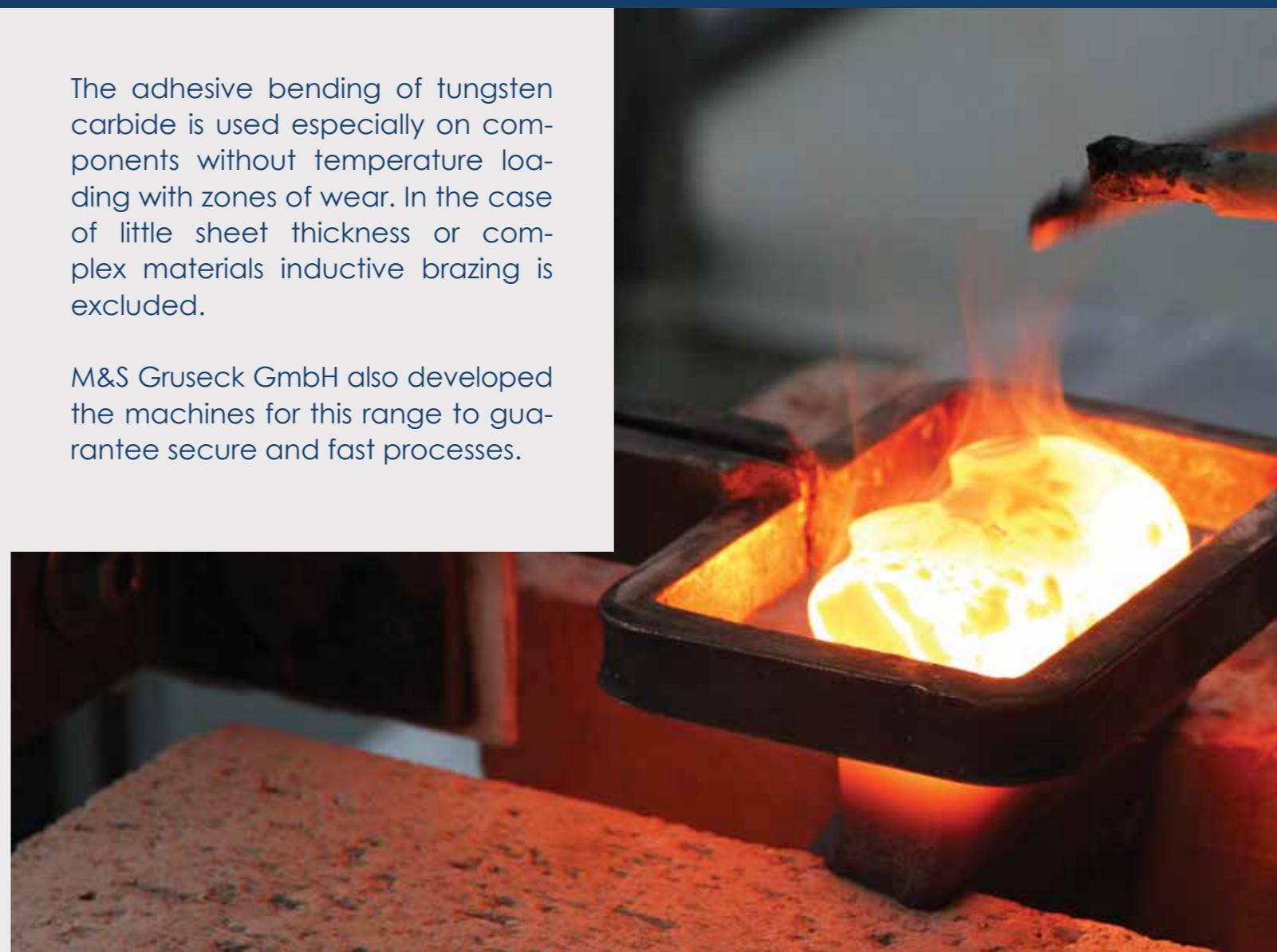
For connecting the different geometrical tungsten carbide with the base bodies made of steel permanently, M&S Gruseck GmbH basically applies two procedures. The most often used one is certainly the inductive brazing of the tungsten carbide by committing brazing solders.

This very flexible method is distinguished on the company's self-designed and high performed machines especially through a fast, precise and very well controllable process.

Depending on the solder and on the application it is operated in a temperature range between 450°C and 1100°C. The choice of solder is adapted to the specific application in order to prevent stress cracks. Together with our competent suppliers, it is possible to adapt high quality tools to your specific application.

The adhesive bending of tungsten carbide is used especially on components without temperature loading with zones of wear. In the case of little sheet thickness or complex materials inductive brazing is excluded.

M&S Gruseck GmbH also developed the machines for this range to guarantee secure and fast processes.



## QUALITY IN CONNECTION

→ The M&S Gruseck GmbH offers a large KnowHow and experience in the execution of different proceedings as well as in the application regarding the sector of welding technique.

In the area of steel- and mechanical engineering, the company is able to produce, next to the engineering as well as the constructive implementation and production planning, large components, assemblies and steel components with the help of different welding processes.

There exist capacitively possibilities of CNC-machining by means of boring mills and machining centers, as well as of coating and painting and complete final assembly in the plant. All this is offered by the M&S Gruseck GmbH from one single source.

Due to numerous investigations within the last years, the company is capable of the handling of all known steel profiles, heavy or thin sheets, depending on the requirement, the production drawing or the customer request. For example, there is to mention the production of hydraulic or wastewater tanks, as well as appropriate pipelines in all diameters or wall thicknesses.

In the processing of steel components, forging parts and castings, as well as flame cut parts, the M&S Gruseck GmbH specially developed procedures and equipment in the sections armor, hardening and granulation.

The benefits are obvious: with using armoring wires and the suitable welding process, the tool life is increased by a multiple, because the respective surfaces and areas are protected against wear.

By the help of this procedure, already worn components can also be refurbished. Furthermore, the M&S Gruseck GmbH offers the service of reprocessing or regeneration, starting with the collection on-site up to the delivery to the respective location. For the operator this means not only an omission of administrative efforts, but also offers a cost-reduced advantage to him.

The method of granulation describes the combination of cored wire and hard metal granulate, which is added into the liquid weld pool.

After cooling, you obtain a seam with a fixed firmly bonded connection. In the field of shredding with aggressive use, these tools processed with granulate are applied.

The operator not only gets the desired wear protection, but also an alternative to the simple hard facing.



## MANUFACTURING LARGE COMPONENTS

→ The manufacturing of large steel construction components up to the weight of 20 tons per piece is now standard in the product range of M&S Gruseck GmbH. Complex components can get welded, machined and painted reliably. Of course the company offers you a complete solution.

This starts with the construction up to the production engineering including welding instructions through to the production and nondestructive testing. Of course, all components are produced and tested according to EN1090.

The M&S Gruseck GmbH obsesses welding certificates for nearly all sheet thicknesses and types of welding seams.





## COMPETENCE FOR YOUR BENEFIT

→ As a modern company in the above-named manufacturing processes, the M&S Gruseck GmbH uses its competence for optimum solutions and satisfied customers.

Thereby the company works closely with its partners. Only by communication between operators on-site, analysis of problems, common development and optimization, as well as the KnowHow of the raw material suppliers, an ideal result, depending on the application, is achieved. The basis for a high-class product is set with the use of high quality materials and cooperation based on partnership with the suppliers.

→ With this philosophy, the M&S Gruseck GmbH sets its standards.

Above consultancy directly on-site, constructive development and optimization, analysis of materials and procedures, spare parts management, assembly and maintenance, administration of inventory and warranty of availabilities or also flexible and reliable manufacturing and delivery conditions – the company is able to depict all of that and much more by the help of competent engineers and specialists. With these requirements, the M&S Gruseck GmbH offers its customers and clients the implementation of projects, tool and wear solutions, as well as individual special solutions within a very short time.





## DEVELOP, CONSTRUCT, MACHINE, BRAZE,

## WELD IN THE WAGE!

→ Besides the presented production processes, the M&S Gruseck GmbH offers you its performance in the sector of contract manufacturing.

The contribution of experience regarding the handling of the different processes or also techniques help to serve the requirements and implementations of the clients.

In the sectors engineering, technical support and constructive realization, the company is able to refer to its qualified engineers. Therefore, projects, drawings or also static calculations can be realized contemporarily.

By the help of the extension of the machinery in the mentioned sectors of

CNC-machining, inductive brazing, as well as metal- and welding work, the company is now able to refer to a more comprehensive range of services.

Furthermore, the capacities and the flexibility within the production processes have been extended.

Consequently, there were created possibilities to fulfill demands of pure contract production.

The M&S Gruseck GmbH provides thereby the most modern production techniques and equipment for realizing these performances.

## QUALITY WITH THE HIGHEST REQUIREMENT!

### → Certification according to DIN EN ISO 9001

For being able to deliver its clients a high quality and reliable product, all materials as well as the production- and organization procedures underlie a continuous critical survey.

Starting with the receiving of the raw material up to the delivery of the final product, these processes pass through the internally defined quality management system and offer therefore a sustainable quality and guarantee an effective satisfaction.



# DEVELOPMENT INNOVATIVE SERVICE QUALITATIVE U MANUFACTURE EFFECTIVE ENGINEERING

## A GOOD WAY TO WORK HARD

## ALL MADE BY M&S GRUSECK GMBH

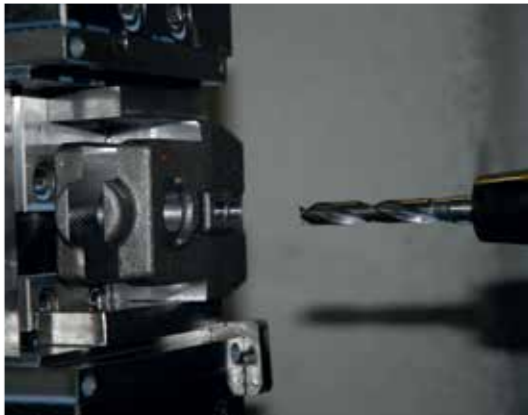
### TOOL CONSTRUCTION

Tooling | Forging |  
ind. Brazing | Granulate |  
Pasting | Wear protection



### MECH. PROCESSING

CNC-machining |  
Turning | Milling |  
Hardening and Tempering



### STATIONARY TROMMEL SCREENS

Engineering | Construction |  
Manufacture | Assembly  
and service on jobsite  
(for all machine types)



### STEEL CONSTRUCTION

Cuttled blanks | Rolling |  
Assembly | Welding |  
Refurbishment | Painting





INNOVATIVE  
MANUFACTURE  
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MANUFACTURE

DEVELOPMENT SERVICE

QUALITATIVE  
ENGINEERING

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