

# Wolf TSM280

ROTARY TABLE TRANSFER MACHINE



PRECISION BY THE SECOND



## Individual production processes



| Cold extrusion parts | Tubular parts | Turned parts | Long turned parts



## From raw material to the finished product – in one machine

The TSM280 is a highly efficient rotary table transfer machine that allows the execution of complex production processes on a single, extremely flexible production unit: Customised, compact and precise. A wide range of workpieces can be machined, be it cold extrusion parts or tubular parts, turned parts, straight turned parts made of bar or coil material – the TSM280 guarantees reliable and cost-effective production performance for many different industries.

You define your requirements and provide us with the parts drawings. In order to increase productivity, we can give you advice for the manufacturing processes, from the analysis of your production and your products through to customised machine design.

- **Automotive industry**
- **Mechanical and appliance engineering**
- **Electrical engineering**
- **Assembly engineering**
- **Aerospace**
- **Medical engineering**
- **Hydraulics/pneumatics**
- **Watch industry, and many more**



## All-in-one machine

The Wolf TSM280 is based on a rotary indexing principle and has been designed specifically for the production of parts for medium to large batch sizes (between 10,000 and 35 million parts). Thanks to its wide spectrum of use, the possibility of implementing different machining processes and the continuous controllability of all machining spindles, the TSM280 can replace various machines and can be used even in confined spaces.



## Wolf TSM280 – Sheer Efficiency

### Customised, compact and precise

With its modular structure, the TSM280 allows a customised process design – be it a specific product or an entire product family. A large number of additional units are available for the implementation of new processes.

Thanks to short set-up times and very good accessibility during tool change, a wide range of different workpieces can be produced on a single machine. The spindle speeds, feeds and therefore the cycle times of the workpiece to be manufactured can be adjusted as required.

### Diverse simultaneous machining and reduced non-productive time

Simultaneous machining on both sides using up to 15 tools. The central element of the TSM280 is the clamping plate that is arranged vertically in the centre providing 8 or respectively 16 hydraulically operated workpiece holding fixtures.

The machining units are controlled mechanically and/or via CNC axes.

#### Adaptable units

- Drilling and turning spindles
- Threaded units
- Undercutting units
- Milling and Cross-drilling units
- Embossing and pressing units
- Measuring and test equipment
- Special-purpose units

Interfaces for tools:  
ER25 / ABS32 / HSK32 / HSK40



### Your benefits at a glance

#### Machine design

- Modular and compact basic model
- Extremely rugged welded assembly
- Three-point support ensures stability
- Vertical plate in different designs
- Mechatronics system: electric, hydraulic, pneumatic system
- Switch cabinet mounted at the machine

#### Control

- Alternatively B&R or Siemens control
- Very easy operation
- Optional tool monitoring

#### Production

- Simultaneous machining of three sides is possible
- 2 – 120 parts/min
- Clamping sets with different diameters

- Easy retrofitting
- Double feeding available
- Simultaneous multiple production possible
- High-quality surfaces

#### Installation / Transport

- Cost-effective shipment as a single unit (e.g. for retrofitting or repair)
- Easily moveable with a forklift truck
- Integrated switch cabinet avoids complex mounting and installation work
- Plug out, pack in, transport, plug in – running

#### Maintenance

- Optional maintenance packages
- Remote maintenance via Internet (VPN), optional

Material Feed – Options and Possibilities



- (1) Material decoiler for coil material**  
Either mechanical version for up to 500 kg material or with electrical drive for up to 1200 kg.

**(2) Rotating straightening unit**  
For precise straightness requirements.

**(3) Drive-in unit for coil material**  
For the initial material drive-in.

**(4) Step feeder**  
Single or twin feeding of cuttings or turned parts.

- (5) Bar feeder**  
High speed bar processing with reduced material wastage. In order to reduce reloading times for larger diameters it is possible to add a bundle loader.

**(6) Cross straightening unit**  
For straightening coil material.

**(7) Oscillating feeding bowl**  
Single part feeding.

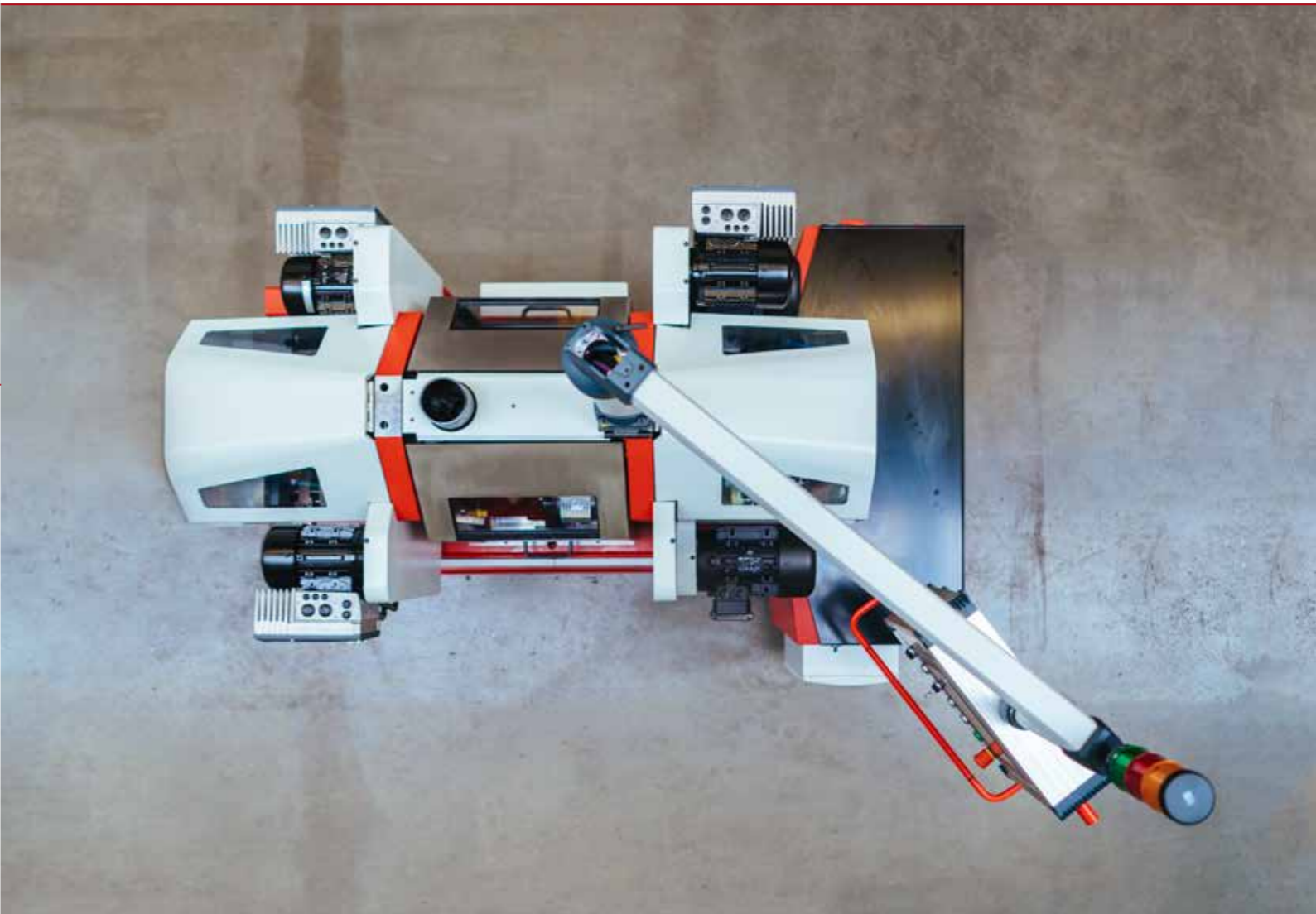
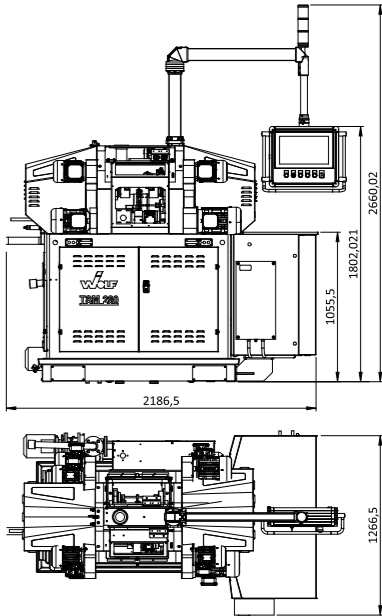
**(8) Robot unit**  
Loading and unloading via integrated robot.

Technical Data

Material cross section	TSM 280	TSM 280 L	TSM 280 LS	TSM 280-45
Coil material	≤ 13 mm	≤ 13 mm	-	-
Bar material	≤ 30 mm	≤ 30 mm	≤ 30 mm	≤ 45 mm
Part length	≤ 80 mm	≤ 200 mm	≤ 300 mm	≤ 60 mm
Clamping table				
Number of clamping positions	8 / 16	8 / 16	16	8
Clamping system	hydraulic			
Clamping force	≤ 25 kN			
Number of unit heads	≤ 15	≤ 15	≤ 14	≤ 14
Feed				
with cams, hydraulic or CNC control				
Work stroke				
With cams	≤ 35 mm			
hydraulic / CNC controlled	≤ 40 / 60/ 80 / 100 mm			

| Additional diameter and lengths on request.

| Small but nice. The TSM280 is constructed absolutely compact and function-oriented. Due to the compactness it is easy to transport and set up.



## Pioneering for efficiency and precision

With the innovative Wolf TSM280 rotary indexing table machine, we offer an efficient solution for complex production processes in just one highly flexible machine.



**Precise**

**Fast**



**Compact**

**Economical**



**Flexible**

**Customized Production (if required)**



**Optional: SPS or CNC control**

**Multiple simultaneous processes**



**Reduced non-productive time**

**Remote maintenance via VPN connection**



### Wolf Maschinenbau AG

We manufacture and supply innovative round and linear phased machine tools – and the peripheral devices for them – to enable custom, compact machining of metal rings, metal bars, turned parts, pipes and extruded parts with flexibility and precision. As a leading technology specialist, our range of services includes designing, developing, manufacturing and servicing high precision, made-to-measure automation solutions for our customers.

When developing and producing the individual components that make up our perfectly coordinated systems and running our vast range of services, we make maximum speed, quality, effectiveness and precision our top priorities.

Being an owner-run family business means that our customers are guaranteed a personal service and tailored advice. Our entire manufacturing process



benefits from employees with many decades of experience in the sector and our pioneering services.

This is why Wolf products are synonymous with unparalleled speed and efficiency, maximum flexibility, optimum service and the real “Made in Germany” quality promise.



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