

## **MEDICAL SOLUTIONS**

High-precision and economic manufacturing solutions for medical technology



# MEDICAL SOLUTIONS

## DENTAL



### Uncompromising precision and surface quality with maximum productivity

Your product idea is our challenge – due to decades of experience in all areas of medical technology, we will find the best solution together with you. No matter which material, which production strategy or to which quality requirements – with our machine solutions and know-how you can be sure you've made the right choice. Through a versatile range of modular configuration options, we put together the best solution for your applications while keeping in mind such criteria as piece-cost-effective production at lowest tolerances and optimum surface quality.

Surgically precise and reliable processes in medical technology are a matter of course for us. The INDEX and TRAUB high-precision dynamic lathes and turn-mill centers are optimal for the production of complex implants, prostheses, instruments or devices. The solutions designed individually with the customer reduce machining times and ensure safe processes.

#### Your benefits:

- ✓ Highest precision and excellent surface accuracy
- ✓ Short cycle times by multifunctional complete machining
- ✓ Customized material feed and discharge solutions
- ✓ Process integration such as measuring, marking, grinding, etc.
- ✓ Excellent ergonomics and easy service accessibility
- ✓ Machine tools "Made in Germany"

### Sample manufacturing solutions



**Abutment**  
> Titanium  
> D 5 x 15 mm

#### TRAUB TNL12

The ideal sliding/fixed headstock automatic lathe for high-precision manufacturing tasks



- 13 (16) mm bar capacity
- 12,000 rpm max. speed
- 130 mm max. Z-travel
- Productive machining in one clamping
- Manufacturing with up to 4 tools simultaneously
- Optimized operator ergonomics

>> [www.index-traub.com/tnl12](http://www.index-traub.com/tnl12)

**ORTHOPAEDICS**

**MEDICAL DEVICES**



**Medical screw**  
> Titanium  
> D 11 x 64 mm



**Drill sleeve**  
> Stainless steel  
> D 16 x 60 mm



**Hip joint cup**  
> Titanium  
> D 54 mm

**TRAUB TNL20**

Productive turning of high-precision medical components of medium to high complexity



- 20 mm bar capacity
- 10,000 rpm max. speed
- 205 mm max. Z-travel
- Manufacturing with up to 4 tools simultaneously
- High rigidity for optimum workpiece quality
- Optional: Integrated robot cell Xcenter

>> [www.index-traub.com/tnl20](http://www.index-traub.com/tnl20)

**INDEX G200**

Flexible turning and milling for economic complete machining of parts



- 65 mm bar capacity
- 165 mm chuck diameter
- 660 mm turning length
- Dynamic milling spindle(360° B-axis)
- Up to 3 tool carriers with Y-axis
- Complete machining of workpieces

>> [www.index-traub.com/g200](http://www.index-traub.com/g200)

**INDEX R200**

Efficient 5-axis machining of challenging workpieces



- 65 mm bar capacity
- 190 Nm max. torque
- Milling spindle with 18,000 rpm
- 5-axis interpolation in 2 independent systems
- Tool magazine with up to 120 stations
- Superior dynamics & high rapid traverse speeds

>> [www.index-traub.com/r200](http://www.index-traub.com/r200)

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