

MEDICAL SOLUTIONS

High-precision, profitable manufacturing solutions for the medical technology sector





PRECISION WITH BITE

Multifunctional, complete machining of precision dental parts

Dental components are characterized by maximum precision and the lowest possible tolerances. The required surface qualities for implants, abutments, and drill heads for dental instruments made of titanium or stainless steel are perfectly achieved with INDEX and TRAUB automatic lathes and turn-mill centers. The high rigidity and thermal stability of our machines ensure the optimum quality of your products.

Patient-specific abutments

- TiAl6V4 2.5 x 12 mm
- 215 seconds ■ TRAUBTNL12
- [Sliding headstock automatic lathe]

Abutment body

- % TiAl6V4
- 1 4 x 8 mm
- 224 seconds
- TRAUBTNL12 [Sliding headstock automatic lathe]

Patient-specific abutment

TiAl6V4

1 4 x 8 mm

300 seconds

TRAUB TNL 20-9B

[Sliding headstock automatic lathe]

Crown forceps

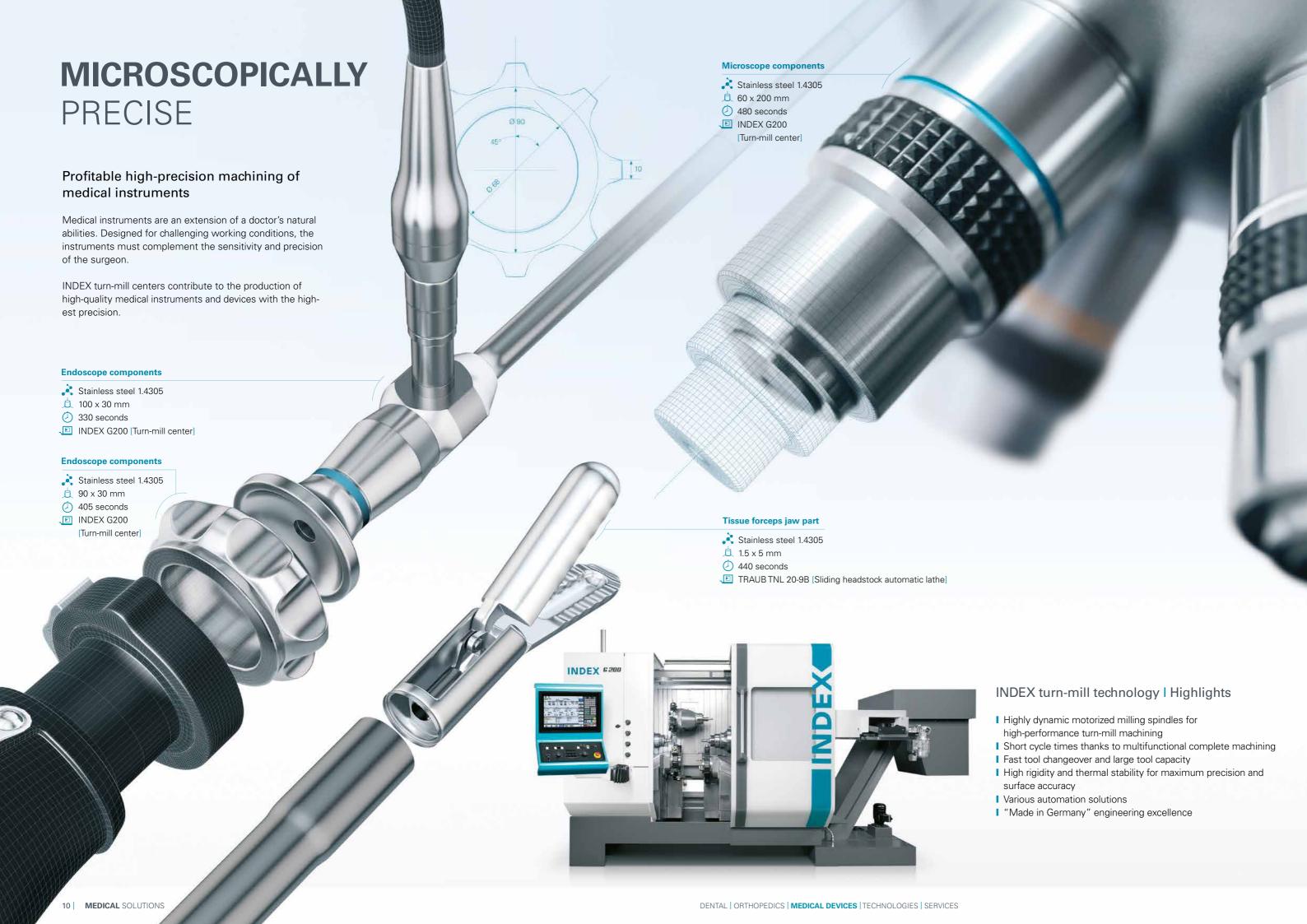
- Stainless steel 1.4021
- 720 seconds
- INDEX G220 [Turn-mill center]



Dental drill head







EFFECTIVE USE OF TOP TECHNOLOGY

Innovations perfectly tailored to medical applications

For decades, INDEX has been working with a wide range of technologies, such as grinding, polygon turning, high-speed whirling, deep-hole drilling, gear cutting, deburring, marking, and measuring. The technological diversity that can be deployed on INDEX and TRAUB machines is almost inexhaustible. Our engineers speak your language.



Multi-start thread whirling and external turning in one operation

- I Up to 40% time reduction
- I Low unit cost thanks to machining of multi-start and conical threads
- I Thread whirling possible during machining (at same time as turning)
- Increased tool life
- Better surface quality

INDEX **virtual machine**

- I 3D model of the actual machine with all INDEX tool carriers and spindles
- Machining simulation
- Collision monitoring
- I Shortened setup time
- I Identical behavior of virtual and actual machines
- I Optimized machining rate



The iXpanel operating concept provides access to networked production. With iXpanel, your employees always have the relevant information for efficient production right at the machine.





TRAUB sliding headstock turning technology

e.g. production of a bone screw on a TRAUB TNL20-9B



Milling with "Torx Pro"

Easy programming of the Torx contour



Internal thread whirling M1.4 x 0.3 with fluid spindle

Fluid spindle advantages:

- I Flexible use on any turret station
- I Speed is programmable via ecofluid pump
- No converter/cabling in the work area



3D contour deburring

with "DeburrPro"

Process optimization directly on the machine



Deep-hole drilling

with internal coolant up to 140 bar



TRAUB **winflex** IPSPLUS

Fast and flexible creation and optimization of programs

- I Quick and easy programming with dialog screens
- I Integrated 3D simulation with a new engine for precise optimization on a computer or directly on the machine
- I The programming system can be upgraded with new functions at any time: e.g. streamline milling, DeburrPro, Torx Pro, 3D step import, etc.

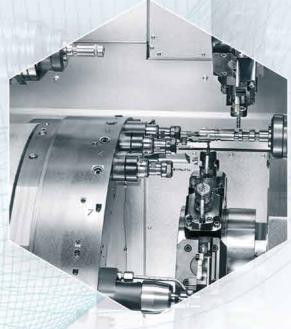


THE ANATOMY OF PERFECTION

Wide range of applications thanks to modular, configurable machine solutions With their modular design, INDEX machines enable custom production solutions. Together with our experienced technology experts, create your ideal INDEX machine via a large number of configurable options. High-quality assemblies, including a range of spindles, turrets, steady rests, automation modules, and tool magazines, ensure the best possible design for your machine. At INDEX, we're also experts in the entire field of turning and milling: from universal lathes, turn-mill centers, and sliding headstock automatic lathes to highly productive multi-spindle automatic lathes. The State of the S Flexible productivity with the modular system Example: INDEX G220 turn-mill center

Sliding headstock automatic lathes

TRAUB sliding headstock automatic lathes are designed for the exact and productive machining of long parts with diameters of up to 32 mm. These machines can quickly and easily be converted to fixed headstock automatic lathes.



Automation solutions are available for all INDEX and TRAUB machines.

From the integrated iXcenter automation system to custom gantry, belt, or robot cells - we have the best option for your application.



Turn-mill centers

INDEX turn-mill centers set the standard in profitable complete machining from bar stock or with chucked parts.



Production turning machines

INDEX production turning machines are ideal for the productive machining of series parts - with up to 4 cutting edges in simultaneous operation.



INDEX multi-spindle technology – with up to 8 spindles and 16 tools - is a benchmark in high-volume production of high-precision workpieces.



QUALITY AND COSTS UNDER FULL CONTROL

Always the best solution all from a single source

In addition to our diverse range of machine solutions, INDEX offers extensive automation solutions from bar loaders to robot cells. A wide selection of machine services are also available.

INDEX is already an experienced player in the world of digital integration. With our iXworld cloud platform, INDEX offers connectivity for your entire machine fleet. In addition, we'll be happy to support you with our wide range of services, from setup and retrofitting to optimizing your processes or training your machine operators, application engineers, and service personnel.



Xworld

The world of digital integration

iXworld is the cloud platform for everything to do with your machines - from procurement to operation to service.

Xservices

The platform for digital services

iXservices is the INDEX service platform that uses advanced technology to quickly return your machine to production in the event of a malfunction.

X4.0

The IoT platform

iX4.0 is the INDEX IoT platform that allows you to integrate all of your production machines into the digital world.

Xshop

The procurement portal

Order more than 130,000 quality parts easily and efficiently

- I Quickly find accessories and components
- I Comprehensive product information
- I Clear price transparency
- Fast delivery same-day shipment

iXcenter - intelligent automation increased flexibility and cost-effectiveness

With the optional iXcenter robot cell, blanks and/or finished parts can be supplied and discharged quickly, safely, and flexibly. The robot cell is ergonomically integrated into the machine. It can easily be moved to the left during the setup process, thus allowing unhindered access to the machine's working area. During production, the robot cell is fixed in front of the machine's work area. The robot then accesses the work area via the machine's automatically opening door.





BRAZIL | Sorocaba INDEXTornos Automaticos Ind. e Com. Ltda. Rua Joaquim Machado 250 18087-280 Sorocaba - SP Phone +55 15 2102 6017 info@index-traub.com.br www.index-traub.com.br

CHINA | Shanghai INDEX Trading (Shanghai) Co., Ltd. No. 526, Fute East 3rd Road Shanghai 200131 Phone +86 21 54176637 info@index-traub.cn www.index-traub.cn

CHINA | Taicang INDEX Machine Tools (Taicang) Co., Ltd. 1-1 Fada Road, Building no. 4 Ban Qiao, Cheng Xiang Town 215413 Taicang, Jiangsu Tel.: +86 512 5372 2939 info@index-traub.cn www.index-traub.cn

DENMARK | Langeskov INDEXTRAUB Danmark Havretoften 1 5550 Langeskov Phone +45 30681790 info@index-traub.dk www.index-traub.dk

GERMANY | Esslingen INDEX-Werke GmbH & Co. KG Hahn & Tessky Plochinger Strasse 92 73730 Esslingen Tel. +49 711 3191-0 info@index-werke.de www.index-werke.de

GERMANY | Deizisau INDEX-Werke GmbH & Co. KG Hahn & Tessky Plochinger Strasse 44 73779 Deizisau Tel. +49 711 3191-0 info@index-werke.de www.index-werke.de

GERMANY | Reichenbach INDEX-Werke GmbH & Co. KG Hahn & Tessky Hauffstrasse 4 73262 Reichenbach Tel. +49 7153 502-0 info@index-werke.de www.index-werke.de

FINLAND | Helsinki INDEXTRAUB Finland Hernepellontie 27 00710 Helsinki Phone +358 10 843 2001 info@index-traub.fi www.index-traub.fi FRANCE | Paris INDEX France S.à.r.I 12 Avenue d'Ouessant / Bâtiment I 91140 Villebon-sur-Yvette Phone +33 1 69 18 76 76 info@index-france.fr www.index-france.fr

FRANCE | Bonneville INDEX France S.à.r.I 399, Av. de La Roche Parnale 74130 Bonneville Cedex Phone +33 4 50 25 65 34 info@index-france.fr www.index-france.fr

NORWAY | Oslo INDEXTRAUB Norge AB Liadammen 23 1684 Vesterøy Phone +47 93080550 info@index-traub.se www.index-traub.no

RUSSIA | Toglyatti INDEX RUS Lesnaya Street 66 445011 Toglyatti Phone +7 848 269 16 00 info@index-rus.ru ru.index-traub.com

SWEDEN | Stockholm INDEXTRAUB Nordic AB Fagerstagatan 2 16308 Spånga Phone +46 8 505 979 00 info@index-traub.se www.index-traub.se

SWITZERLAND | St-Blaise INDEX Werkzeugmaschinen (Schweiz) AG Av. des Pâquiers 1 2072 St-Blaise Tel. +41 32 756 96 10 info@index-traub.ch www.index-traub.ch

SLOVAKIA | Malacky INDEX Slovakia s.r.o. Vinohrádok 5359 901 01 Malacky Phone +421 34 286 1000 info@index-traub.sk

U.S.A. | Noblesville INDEX Corporation 14700 North Pointe Boulevard Noblesville, IN 46060 Phone +1 317 770 6300 info@index-usa.com www.index-usa.com

Visit us on our social media channels:















Printed in Germany Technical data subject to change



INDEX-Werke GmbH & Co. KG Hahn & Tessky

Plochinger Straße 92 73730 Esslingen, Germany

Phone +49 711 3191-0 Fax +49 711 3191-587 info@index-werke.com www.index-werke.com