

E-MOBILITY SOLUTIONS

HIGH-PRECISION, PROFITABLE MANUFACTURING SOLUTIONS FOR MAXIMUM PERFORMANCE



RELY ON EXPERIENCE & EXPERTISE

The worldwide "electromobility" market is seeing explosive growth.

This confronts manufacturers of vehicles for private transport, recreational vehicles, but also increasingly utility vehicles or public service vehicles, with major challenges.

A great number of electric motor components, such as stator and rotor as well as drive shafts and crankshafts are being manufactured on INDEX turning centers, turnmill centers, sliding headstock automatic lathes, and automatic production lathes already today.

Counting more than 100 years of experience in machine tool construction for customers in the field of mobility, INDEX development engineers have technological expertise in their genes, as the saying goes. That's something you can rely on!

E-BIKES & PEDELECS [p. 04 - 07]

Components for electric motors and gears:

- E-bikes
- Pedelecs
- E-motorcycles
- I E-mopeds
- E-quads





THE BEST MANUFACTURING SOLUTION FOR PERFECT PERFORMANCE

- I An extensive product range for nearly every e-mobility application
- Innovative turn-mill technologies
- I Effective sliding headstock technologies
- I High-output multi-spindle technology
- Integrated automation solutions
- I Custom complete solutions
- I Comprehensive iXservices
- I "Made in Germany" engineering excellence









UTILITY VEHICLES [p. 12 - 13]







automatic lathes allows for profitable production in small to medium-sized batches.

HIGHLIGHTS:

- I Complete machining on main spindle and counter spindle
- I Simultaneous machining with up to 3 tools
- I Up to 42 tool stations for front and rear-end machining
- A wide range of automation solutions
- I "Made in Germany" engineering excellence

E-bike motor | Drive shaft



- Dia. 40 mm | L 70 mm
- 35.6 seconds
- INDEX MS40-6 [Multi-spindle automatic lathe]



E-bike motor | Crankshaft

- ₹ 16MnCrS5
- d Dia. 28 mm | L 105 mm
- 90 seconds
- INDEX C100 [Automatic production lathe]



tivity of multi-spindle technology. They can be used not only for volume production of a great variety of precision parts in the area of electromobility, but also for low-volume multi-variant production, considering the tremendously short setup times. In any case, our multi-spindle machines are impressive when it comes to their extreme cost-effectiveness.

HIGHLIGHTS:

- I Up to 8 spindles and 16 tools in simultaneous use
- I High cutting performance and short machining times
- I Easy access to the front-opening work area
- Bar or chucked part machining
- I Siemens Sinumerik 840D sl with iXpanel
- A wide range of automation solutions
- I "Made in Germany" engineering excellence



Electric motor E-axle | Planetary gear

- 16MnCrS5
- △ Dia. 20 mm | L 25 mm
- 11 seconds
- **■** INDEX MS24-6
 - [Multi-spindle automatic lathe]



require to achieve a sustainable and efficient production for their products. We deliver the manufacturing solution that is the best and most profitable for them. Effective, reliable, and from a single source.

- INDEX G220 [Turn-mill center]



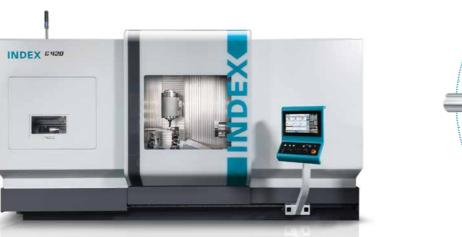
Electric motor | E-axle | Pinion shaft

- ₹ 16MnCr5
- **≜** Dia. 70 90 mm | L 150 200 mm
- 600 seconds
- INDEX G220 [Turn-mill center]



HIGHLIGHTS:

- I Highly dynamic motorized milling spindles for high-performance turn-mill machining
- I Short cycle times owing to multifunctional complete
- I Fast tool changeover and large tool capacity
- I High rigidity and thermal stability for maximum precision and surface accuracy
- I A wide range of automation solutions
- I "Made in Germany" engineering excellence



Electric motor | Rotor shaft

- △ Dia. 100 150 mm | L 150 450 mm
- 300 seconds
- INDEX G420 [Turn-mill center]







- 20NiCrMoS6-4 forged
- Dia. 55 72 mm | L 20 30 mm
- 15-17 seconds
- INDEX MS52-6 Robot loading
 [Multi-spindle automatic lathe]

QUALITY & COSTS UNDER FULL CONTROL

ALWAYS THE BEST SOLUTION-ALL FROM A SINGLE SOURCE

In addition to its diverse range of machines, INDEX offers extensive automation solutions from bar loading magazines all the way to modular robot cells. A wide selection of machine services complement the offering.

With its 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.



The world of digital integration

iXworld is the IoT platform for everything to do with your machines—from procurement to operation and



Xservices

The service platform

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

X4.0

The IoT platform

X4.0 is the INDEX IoT platform that allows you to integrate all of your production machines into the digital world.



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
- I Fast delivery



INTELLIGENT AUTOMATION— FOR EVEN GREATER FLEXIBILITY AND COST-EFFECTIVENESS

Automation solutions "Made by INDEX" ensure intelligent handling of your workpieces. We offer a wide range of options for our complete machine range, from bar loading magazines to machine-integrated or robot automation, all the way to customized, application-specific solutions.

- I Everything from a single source
- I Flexible standard modular system
- Custom expansion options





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