

ZOLLER Presetting and Measuring Machine  
with Torquing Station

**ZOLLER**  
expect great measures

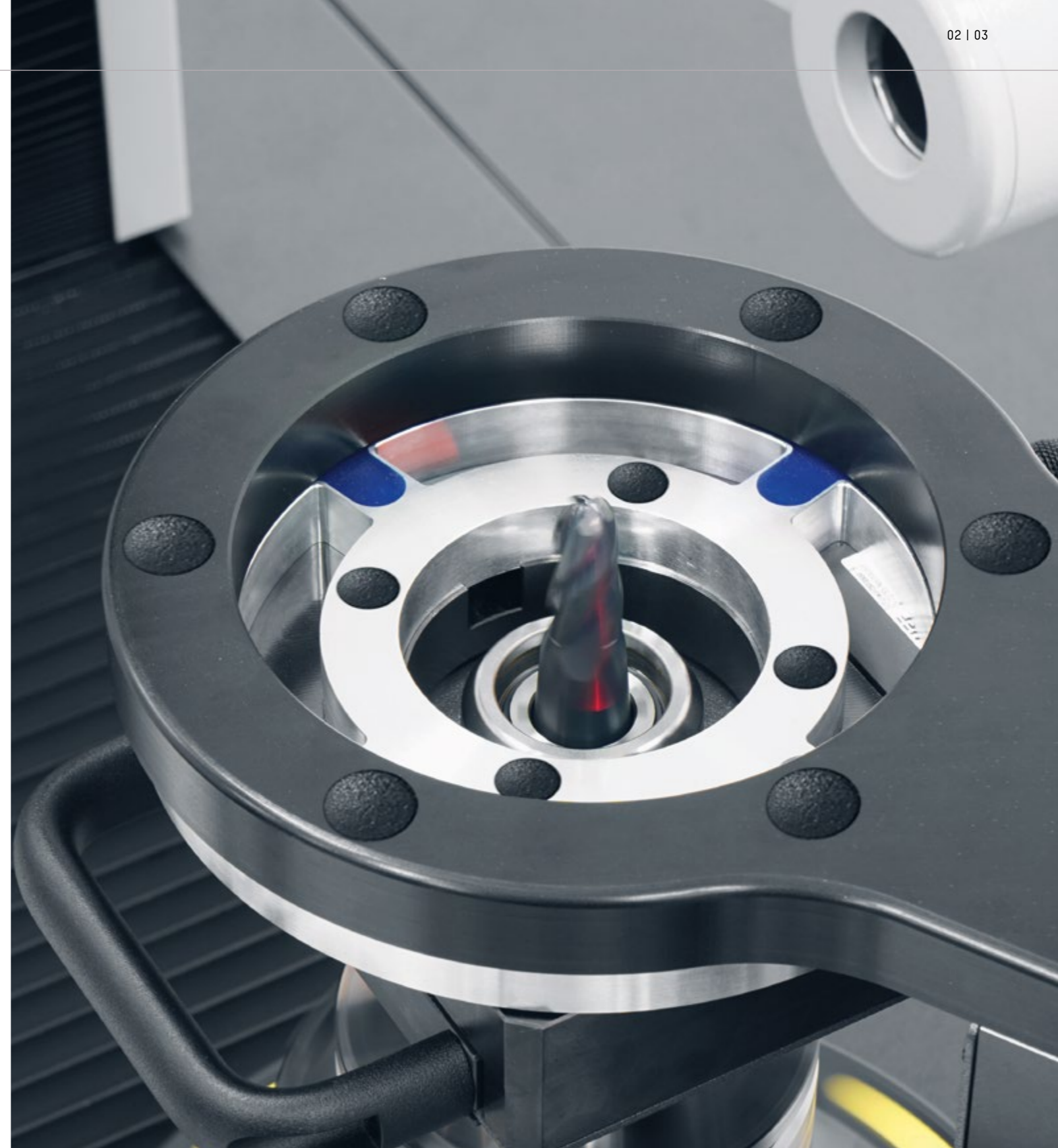
torquematic



# Fully Automatic Tool Torquing with no Muscle Power Required

With the »torquematic« presetting and measuring machine by ZOLLER, tools can be set to length, then clamped to a pre-defined torque and measured using collet chucks in a fully automatic process. Measuring results can then be seamlessly documented including torque information. Simple user guidance guarantees precisely set and clamped tools – without needing to exercise any force. Variable adaptations allow the machine to be used with many different clamping nut shapes. This makes the »torquematic« suitable for universal use, guaranteeing reliable results.

»torquematic«



## Simple –

Makes the operator's everyday work easier: the measuring machine handles clamping the tool by rotation at a pre-defined torque

## Precise –

Guaranteed maximum precision: releasing, clamping and measuring in the same clamping process

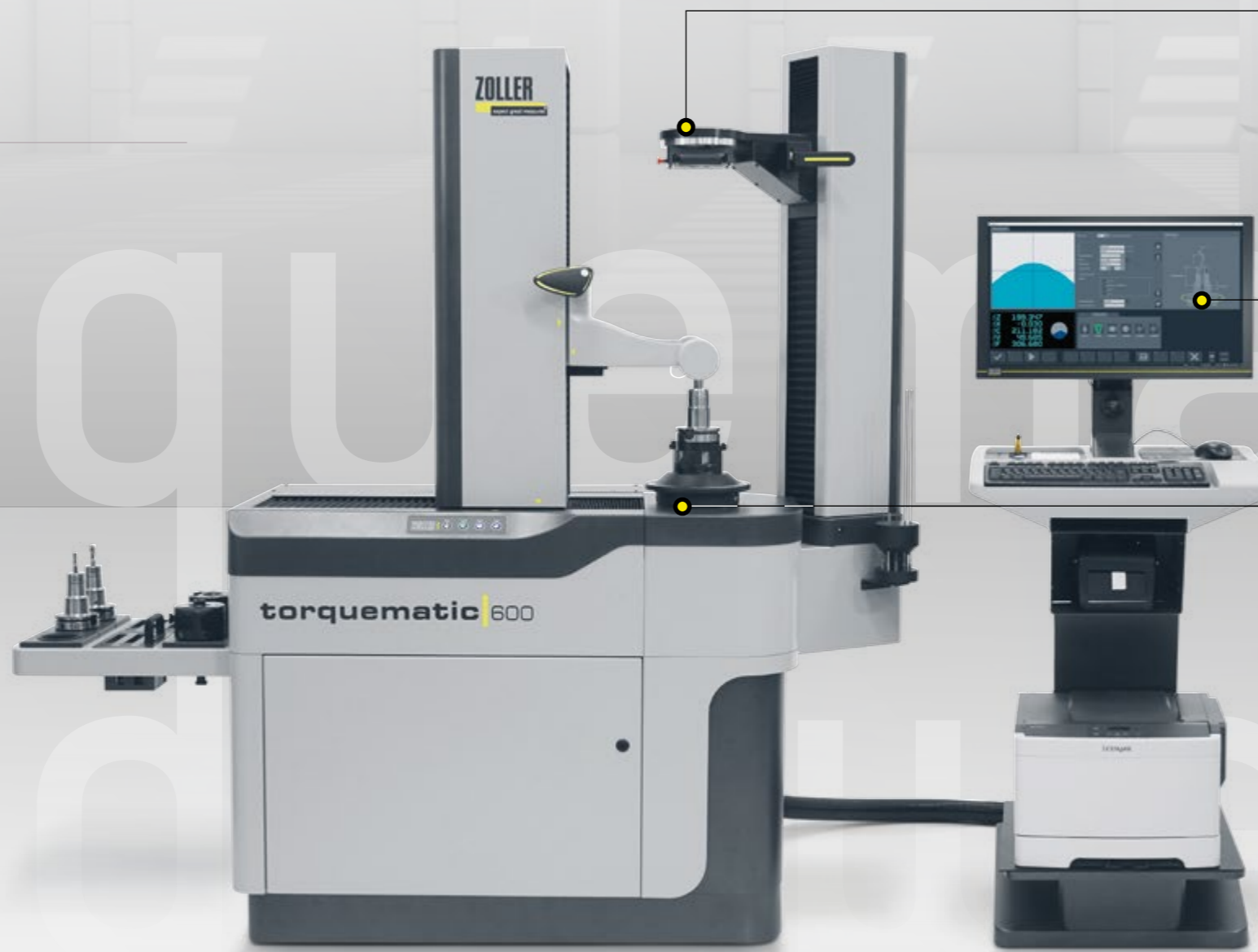
## Fast –

For tools with different clamping systems, thanks to the »adaptYourHolder« quick-change system

# Simply Secure – »torquematic«

Clamp tools with a new ease.  
Torque wrench? You don't need it.  
Big muscles? No longer a necessity.  
Activate the »torquematic« in the  
»pilot« software by simply touching  
the screen, then follow the  
instructions. The tool will then be set,  
clamped and measured through a  
fully automatic process.

Enjoy simplicity and security –  
the »torquematic« from ZOLLER.



»adaptYourHolder« screwing – clamping station  
with quick-change system for different clamping  
bolts and integrated torque measurement system  
for a reliable clamping process.

»torquematic« measuring program in the »pilot«  
measuring machine software guides the operator  
through the process safely and reliably.

»ace« high-precision spindle with dual drive system  
to ensure reliable torque measurements and precise  
positioning every time – for measuring results precise  
down to the  $\mu\text{m}$ .

ZOLLER Presetting and Measuring Machine  
with Fully Automatic »torquematic« Torquing Station

## Technical Data: »torquematic«

Maximum Tool Length Z	Maximum Tool Diameter X	Maximum Snap Gauge Diameter D	Maximum Torque
600 mm / 23.62 inches	540 mm / 21.25 inches	200 mm / 7.87 inches	120 Nm



## Perfectly Clamped Tools, with Reliability

You can rely on »torquematic«. The »pilot« software supports you continuously throughout the process of presetting, clamping and measuring your tools. You receive perfectly clamped tools, set down to the  $\mu\text{m}$ , independent of the operator.

01.

Insert  
Adapter Plate



The operator starts the process in the »pilot« measuring machine software. The attachment holder is inserted and clamped into the spindle with the collet chuck. The operator selects the adapter plate specified in »pilot« and inserts it.

02.

Position  
Setting Pin



After the process is started, the »asza« longitudinal axis system automatically moves the setting pin to the clamping length saved in the software so you can insert the tool safely.

03.

Insert Tool



The tool is inserted into the collet chuck. The setting pin prevents the tool from falling down when feeding without a setting bolt.

04.

Clamp Tool



The torquing station moves down, the clamping bolt is screwed into the pre-defined torque by rotating the »ace« spindle, and the tool is clamped.

05.

Measure Tool



After the torquing process, the tool is measured, the tolerance is checked and the measured values are displayed, including torque.

06.

Remove Tool,  
Record Measurement



The operator removes the tool, and measurement results are recorded and saved in the z.One central tool database.

# Fits Any Collet Chuck – »adaptYourHolder«

Do you use a variety of different shapes of collet chucks in your production? No problem – ZOLLER has the solution! With the »adaptYourHolder« quick-change system developed by ZOLLER, »torquematic« can adjust to the shapes of your clamping nuts. And if that’s not enough: Once these are saved, the »pilot« measurement software specifies which adapter plate you need for the collet chuck in use. The adapter plates are easy to differentiate based on their color coding.



Activate indexing, remove the adapter plate and insert a new adapter plate – quickly and easily.



The adapter plates are stored within reach and directly on the machine using a specialized holder.



The dual drive technology integrated into the »ace« high-precision spindle makes it possible to reliably record precise torques.



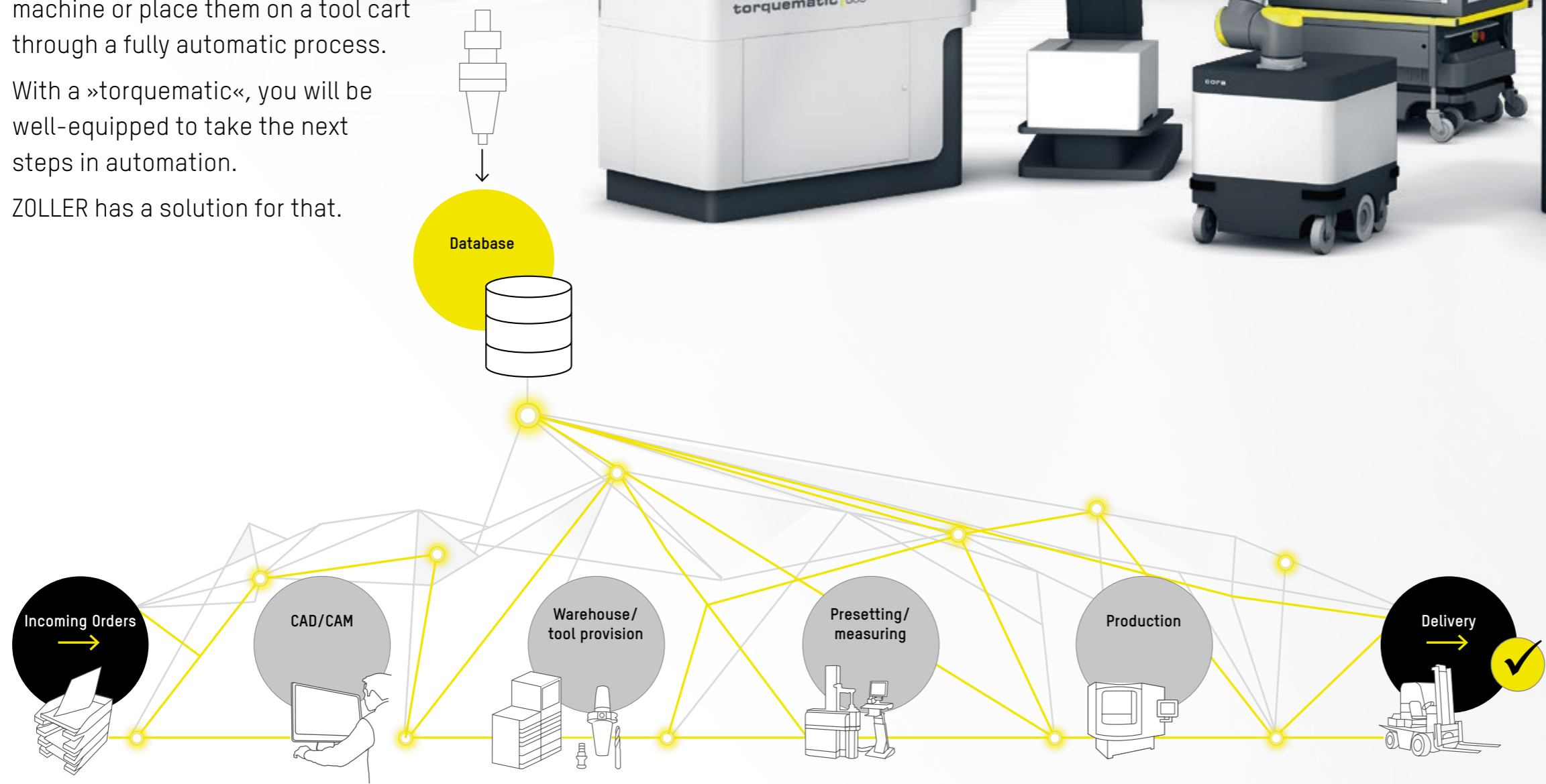
# Ready for the next Step Towards Automated Production

Because ZOLLER is a system supplier, our solutions can automate many additional processes related to the »torquematic«, for instance using »cora« robot system.

»cora« can fit »torquematic« with tools, remove the finished tools and transport them to the production machine or place them on a tool cart through a fully automatic process.

With a »torquematic«, you will be well-equipped to take the next steps in automation.

ZOLLER has a solution for that.





# ZOLLER solutions

More speed, higher quality, reliable processes –  
with ZOLLER you get more out of your production process.  
We combine hardware, software and service  
to create optimum system solutions for presetting,  
measuring, inspecting and managing tools.

---

Presetting & Measuring

---

Tool Management

---

Inspection & Measuring

---

Automation

---

Everything from a single source.  
Everything for your success.  
Everything with ZOLLER Solutions.

#### Headquarters in Pleidelsheim

E. Zoller GmbH & Co. KG  
Tool presetter and measuring machines  
Gottlieb-Daimler-Straße 19 | D-74385 Pleidelsheim  
Phone: +49 7144 8970-0 | Fax: +49 7144 8060-807  
post@zoller.info | www.zoller.info

#### ZOLLER North

E. Zoller GmbH & Co. KG  
Service and Sales Center  
Wohlenbergstraße 4 c | D-30179 Hannover  
Phone: +49 511 6765 57-12 | Fax: -14  
zollernord@zoller-d.com

#### ZOLLER West

E. Zoller GmbH & Co. KG  
Service and Sales Center  
Friedrich-Krupp-Straße 7 | D-40764 Langenfeld  
Phone: +49 2173 59670-90 | Fax: -81  
zollerwest@zoller-d.com

#### ZOLLER East

E. Zoller GmbH & Co. KG  
Service and Sales Center  
Fugger Business Park | Fuggerstraße 1 B | D-04158 Leipzig  
Phone: +49 341 332097-60 | Fax: -61  
zollerost@zoller-d.com

**ZOLLER**  
expect great measures