

Universal Presetting, Measuring and
Shrinking Machine for MST Tool Holders

ZOLLER
expect great measures

redomatic 600 MST



Automated Heat Shrinking of Tools to 10 μm

5-axis machining, tool and mold making, and automated series production depend on precisely set and measured tools.

ZOLLER stands for highest precision when shrinking tools to length.

We guarantee an accuracy of less than 10 μm - independent of the operator. This minimum tolerance can only be achieved with devices whose technology is mature and whose components are perfectly matched to each other.

ZOLLER's solutions shrink quickly and reliably to the highest possible level. Due to the optimal interaction with the software »pilot«, the procedure is operator-independent – with constant accuracy.



»redomatic 600« MST

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In the End, Only One Thing Counts – Outstanding Quality

With a »redomatic 600« MST from ZOLLER you make optimum use of the advantages of your MST toolholders and thus increase the efficiency of your production. With »redomatic 600« MST you can be sure that tool lengths are always set correctly. The shrink sequence developed by ZOLLER with the »masterPiece« adjustment adapter is both quick and easy. The perfect interplay between mechanics, pneumatics, electronics and software as well as the continuous parameter monitoring and automatic measuring sequences guarantee you the highest process reliability.

redomatic

600



»redomatic 600« MST

Technical Data: »redomatic 600« MST

| | Maximum Tool Length Z | Measuring Range X-axis | Maximum Shrinkable Shaft Diameter | Maximum Tool Diameter D |
|---------------------|-----------------------|------------------------|-----------------------------------|-------------------------|
| »redomatic 600« MST | 600 / 800 mm | 270 mm | 32 mm | 540 mm |

Perfection for Shrinking Processes – »redomatic 600« MST

»redomatic 600« MST is the high-end solution for automated measuring, presetting, and shrinking of shaft tools in MST shrink fit chucks. Additional equipment features allow a wide variability of the tool spectrum. Due to the CNC-controlled axes, the process can be automated to a large extent. This additionally increases process reliability.

Up to seven induction coils selectable – depending on the diameter and tool holder type. The ZOLLER measuring device software »pilot« specifies which coil with which heating parameters should be used for your tool. The subsequent pre-cooling by means of air for clamping the tools in the chuck or for complete cooling of slim chucks or chucks of the "Curve" type takes place with the aid of a ring nozzle below the coil directly after the heating process. The quick-change interface allows the coil to be changed quickly and conveniently.



One hand control handle »eQ« (ergonomic & quick) – The optics carrier can be quickly moved to the correct position with one hand.

»asza« – the automatic length stop system in the Z-axis for shrinking to an accuracy of less than 10 µm.

Shrink length monitoring – for safe and controlled shrinking of tools with monitoring of the minimum shrink length.

Universal spindle »ace« – for universal mounting of tool holders.



Cooling station – for complete cooling of your tool chucks within just a few seconds. Five cooling adapters, mounted to the left of the coils, can be individually selected depending on the diameter and chuck type.

Carrier system – for holding the coils, cooling stations, holding rings, adjusting rods, tools, and the ZOLLER »masterPiece« adjusting adapter in various sizes. The shrink electronics find their place inside the carrier system. It is switched on and off depending on use. This saves you power and costs and guarantees the operator full safety when changing coils.

The shrink guide system »sls« – guides the operator safely and quickly through the shrink process with the aid of precisely specified work steps in the »pilot« software and illuminated LEDs on the carrier system.

A safety note in »pilot« indicates the temperature curve during cooling.



Industrial panel PC with software »pilot« – 24" TFT color display for all processing tasks for presetting, measuring and shrinking.

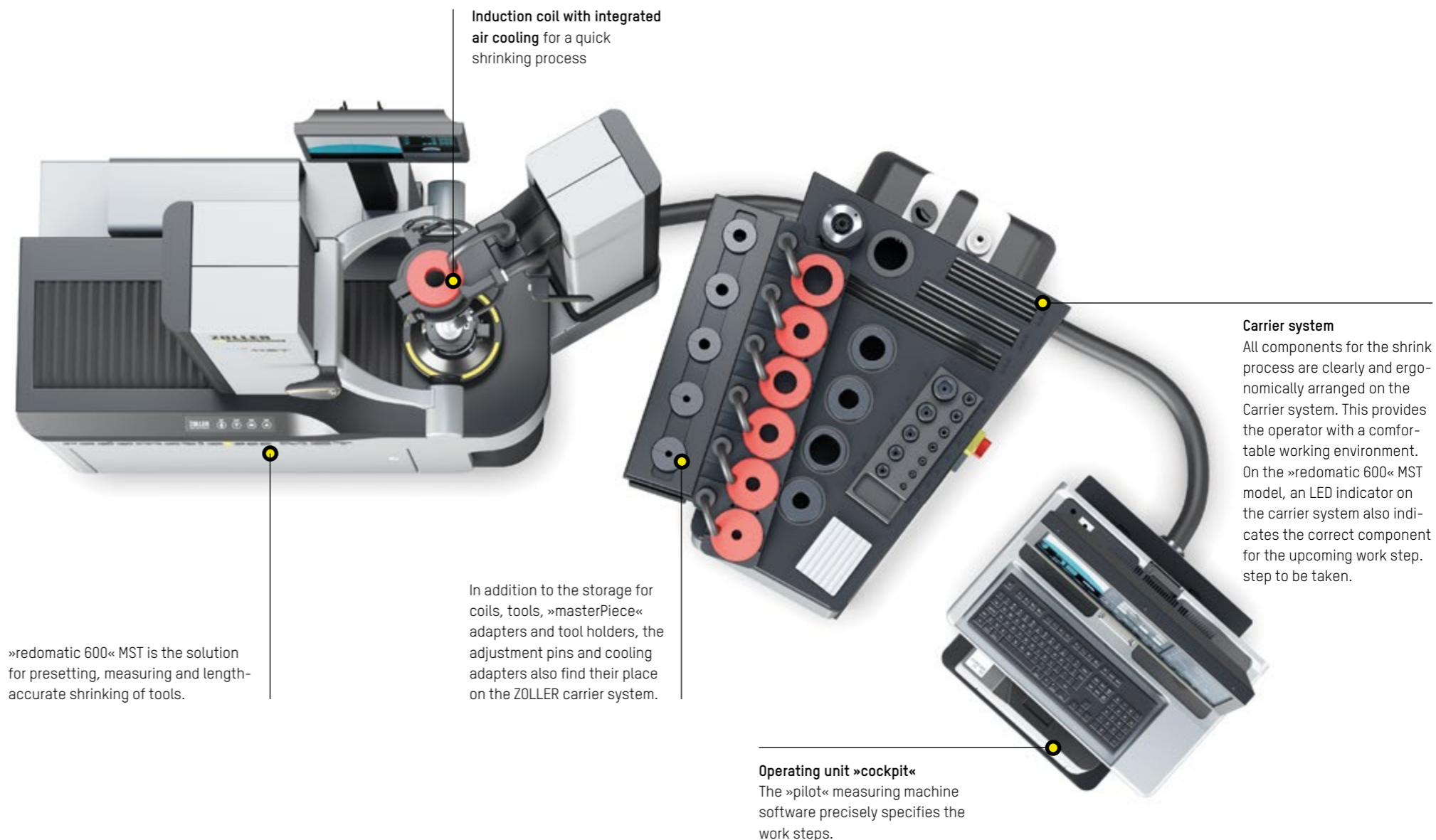
Energy manager software – for the cooling unit: The cooling unit is only switched on automatically when required.

Safe and Fast Through the Shrinking Process

With ZOLLER, shrink tools are quickly ready for use. The »pilot« measuring machine software, the carrier system and the permanent monitoring of the work steps facilitate rapid and reliable work.

Even inexperienced operators achieve outstandingly short process times for the length-precise shrinking of tools after only a short training period.

All components have their fixed place on the Carrier system. The »pilot« measuring machine software guides the operator through all work steps and controls many processes fully automatically. For each work step, the software names the component that is required and shows on the screen where the component is located on the Carrier system.



»redomatic 600« MST

Shrinking Process with »redomatic 600« MST



00:00 00:10 00:40 00:45 01:15 01:23 01:45

Insert shrink fit chuck, adjustment adapter and tool.

Automatic measurement of the tool and positioning of the adjustment pin.

Remove tool and adjustment adapter.

Induction coil moves to position, heating process starts.

Insert tool.

Cooling with air cooling.

Optional cooling with cooling adapter on carrier system.

Control measurement.

Perfect Interaction Between Software and Hardware

The »sls« shrink control system on the »redomatic 600« MST model is a prime example of the perfect interplay between software and hardware.

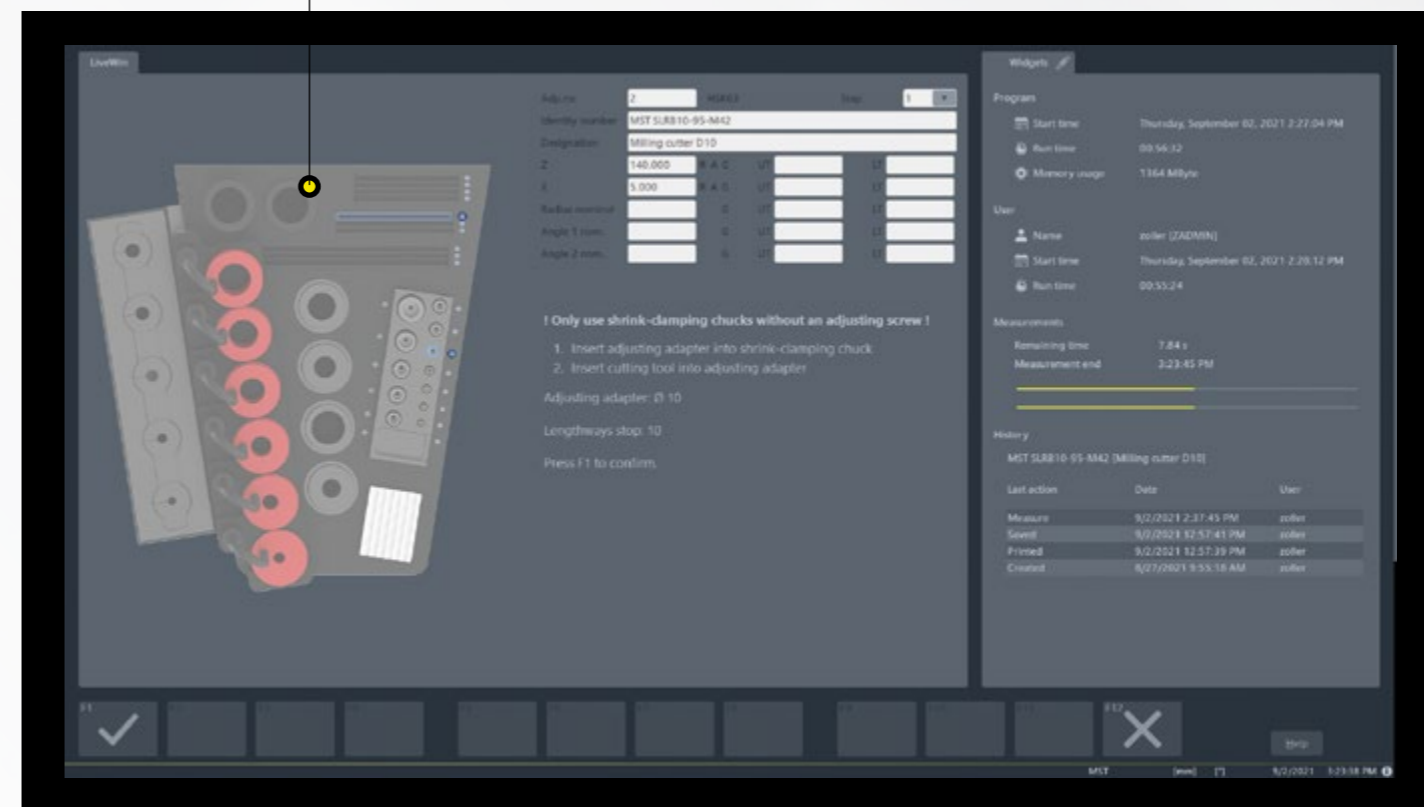
The measuring sequences are completely automated. If operator intervention is necessary, the »pilot« measuring instrument software displays the exact working instructions on the monitor. If components are required, they are displayed on the monitor as well as on the carrier system by illuminated LEDs. It is so easy for an operator to achieve perfect results.



Example

Work step: Select and insert suitable »masterPiece« adapter

The »pilot« measuring machine software shows which »masterPiece« adapter is to be used. An LED signal on the carrier system supports this information, so that the operator immediately recognizes which »masterPiece« adapter he should remove and use.



ZOLLER-Service

Your goal is maximum efficiency for your production. Our goal is to support you with well-designed system solutions. We also offer comprehensive service.

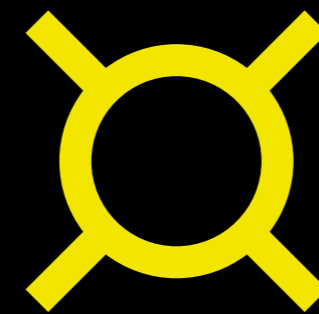
Whether through personal consultation on site or by developing perfectly tailored solutions for individual requirements – if you choose ZOLLER, you will not only receive excellent products, but also unique production know-how on your side. And of course, competent contact partners to answer questions at any time – over the entire life cycle of the ZOLLER products.

Make use of the ZOLLER know-how to optimize your production processes.



Alexander Zoller | Christoph Zoller

ZOLLER Solutions



With us, you get more than excellent products. You get individual system solutions connected with your tools. We combine hardware, software and services for you. Everything from a single source. Everything for your success. We call it: ZOLLER Solutions.

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ZOLLER quality is “made in Germany” –
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Our company has its own locations and branches
at 85 sites in 62 countries guaranteeing we are
close to customers and can provide first-class,
personal customer advising in local markets.

- Parent company
- Headquarters
- Branch office
- Representative

GERMANY

HEADQUARTERS

E. ZOLLER GmbH & Co. KG
Einstell- und Messgeräte
Gottlieb-Daimler-Straße 19
D-74385 Pleidelsheim
Tel: +49 7144 8970-0
Fax: +49 7144 8970-70191
post@zoller.info | www.zoller.info

ZOLLER NORTH

E. ZOLLER GmbH & Co. KG
Service- und Vertriebszentrum
D-30179 Hannover

ZOLLER EAST

E. ZOLLER GmbH & Co. KG
Service- und Vertriebszentrum
D-04158 Leipzig

ZOLLER WEST

E. ZOLLER GmbH & Co. KG
Service- und Vertriebszentrum
D-40764 Langenfeld

EUROPE

AUSTRIA

ZOLLER Austria GmbH
A-4910 Ried im Innkreis
office@zoller-a.at | www.zoller-a.at

SWITZERLAND

ZOLLER Schweiz GmbH
CH-9016 St. Gallen
info@zoller-ch.com | www.zoller-ch.com

FRANCE

ZOLLER France
F-67380 Lingolsheim
info@zoller.fr | www.zoller.fr

SPAIN + PORTUGAL

ZOLLER Ibérica S.L.
E-08006 Barcelona
correo@zoller.info | www.zoller.info

TURKEY

Zoller Ölçüm Teknolojileri San.ve Tic. Ltd. Sti.
TR-16120 Nilüfer / Bursa
info@zoller-tr.com | www.zoller-tr.com

RUSSIA

LLC ZOLLER Russia
RU-111123 Moscow, Russia
info@zoller-ru.com | www.zoller-ru.com

ISRAEL

ZOLLER Israel GmbH
Ramat Yishay 3009500
info@zoller-il.com | www.zoller.info

POLAND

ZOLLER Polska Sp. z o.o.
60-104 Poznan
biuro@zoller-a.at | www.zoller.net.pl

SLOVAKIA + CZECH REPUBLIC

ZOLLER CZECH s.r.o.
602 02 Brno
suchna@zoller.cz | www.zoller.cz

AMERICA

USA

ZOLLER Inc.
North American Headquarters
USA-48108 Ann Arbor, MI
sales@zoller-usa.com | www.zoller-usa.com

CANADA

ZOLLER Canada Inc.
CAN-LSN 864 Mississauga, ON
sales@zoller-canada.com | www.zoller-canada.com

MEXICO

ZOLLER Tecnologías S de R.L. de C.V.
MEX-C.P. 76030 San Angel Querétaro
sales@zoller-mexico.com | www.zoller-mexico.com

BRASIL

ZOLLER do Brasil
BRA-CEP 13284-198 Nova Vinhedo,
Vinhedo – São Paulo
comercial@zoller-br.com | www.zoller-br.com

ASIA

INDIA

ZOLLER India Private Ltd.
IN-Pune 411019 Maharashtra, India
info@zoller-in.com | www.zoller-in.com

CHINA

ZOLLER Shanghai, Ltd.
Asia Pacific Regional Headquarter
RC-201108 Shanghai
info@zoller-cn.com | www.zoller-cn.com

ZOLLER Asia Pacific, Ltd.

RC-Kowloon, Hongkong
info@zoller-cn.com | www.zoller-cn.com

JAPAN

ZOLLER Japan K. K.
JP-564-0037 Osaka, Japan
info@zoller-jp.com | www.zoller-jp.com

THAILAND

ZOLLER (Thailand) Co. Ltd.
Amphur Muang Chonburi, TH-20000 Thailand
info@zoller-in.com | www.zoller-th.com

INDONESIA

ZOLLER Singapore Pte. Ltd
Indonesia Representative Office
Tambun - 17510, Bekasi, Jawa Barat
info@zoller-in.com | www.zoller-in.com

SINGAPORE

ZOLLER Singapore Pte. Ltd
SG - 199589 Singapore
info@zoller-in.com | www.zoller.info

MALAYSIA

ZOLLER MALAYSIA SDN. BHD.
Malaysia Representative Office
MY-Petaling Jaya | Selangor Darul Ehsan, Malaysia
lau@zoller-my.com | www.zoller-in.com

VIETNAM

ZOLLER Vietnam
VNM-Ho Chi Minh City, Vietnam
info@zoller-in.com | www.zoller-in.com

KOREA

ZOLLER Korea Co., Ltd.
KOR-15119 - Siheung-Si, Gyeonggi-Do, Südkorea
info@zoller-kr.com | www.zoller-kr.com

REPRESENTATIVES

Argentina, Australia, Belarus, Belgium, Bolivia, Chile,
Colombia, Costa Rica, Croatia, Denmark, Estonia,
Finland, Great Britain, Hungary, Iran, Ireland, Italy, Latvia,
Lithuania, Luxembourg, Netherlands, New Zealand,
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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.
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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 8970-701917
post@zoller.info | www.zoller.info