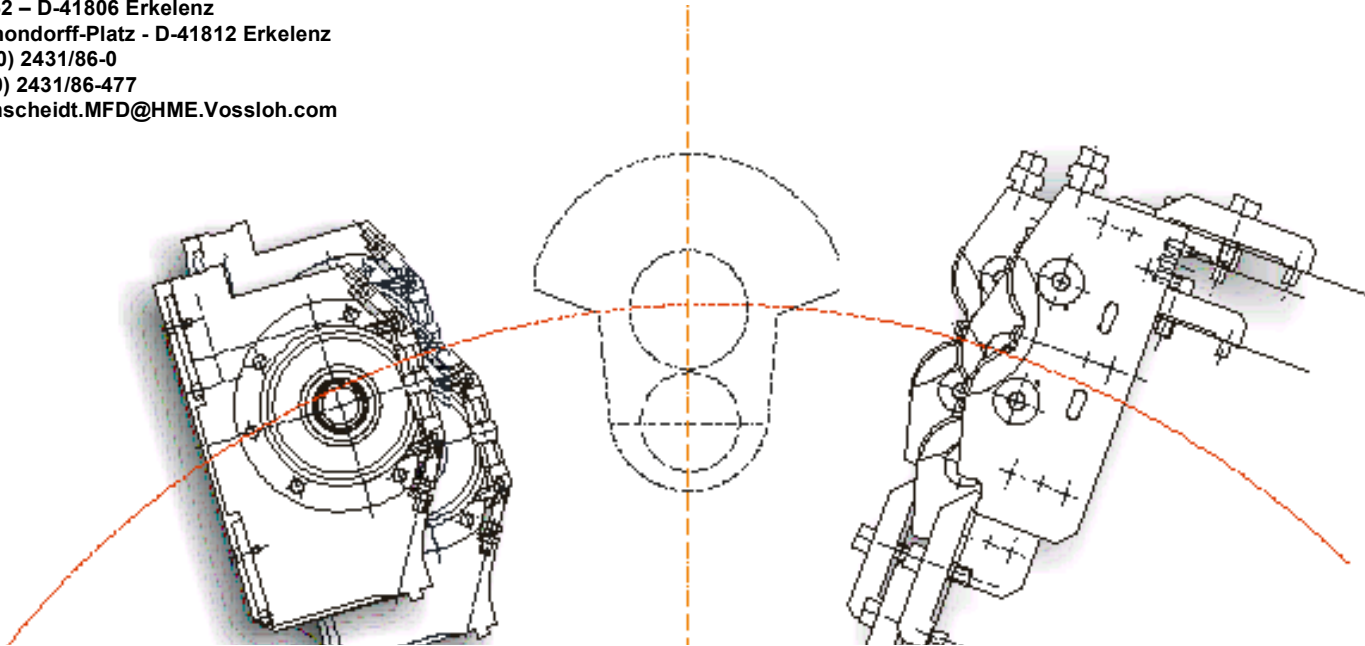


Deep Rolling Tools from

Hegenscheidt  MFD

Germany

Hegenscheidt-MFD GmbH & Co. KG
Postfach 16 52 – D-41806 Erkelenz
Bernhard-Schondorff-Platz - D-41812 Erkelenz
Phone + 49 (0) 2431/86-0
Fax + 49 (0) 2431/86-477
e-mail: Hegenscheidt.MFD@HME.Vossloh.com



**Your Partner in
Deep Rolling Machines
AND Tooling**

U.S.A.

Hegenscheidt-MFD Corporation
6255 Center Drive
Sterling Heights, MI 48312-2667/USA
Phone + 1 586 274 4900
Fax + 1 586 274 4916
e-mail: Hegen_MFD@hegenscheidtmfd.com

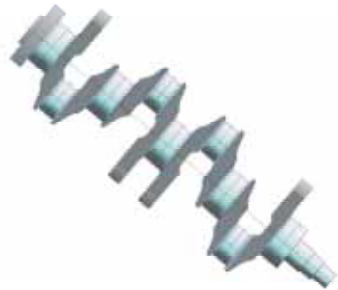
Company Introduction



- 1889** Foundation of Hegenscheidt at Ratibor (Upper Silesia) Product: metal fittings
- 1920** First wheel lathe
- 1930** Acquisition by the Schondorff family
- 1939** 3.000 employees at various plants
- 1945** Abandonment at the Ratibor site Reconstruction at Erkelenz
- 1949** Delivery of the first wheel lathe
- 1957** First deep rolling machine
- 1958** First underfloor wheel lathe
- 1966** Foundation of Hegenscheidt Corporation in Troy, MI
- 1984** New engineering building
- 1995** Acquisition by Vossloh-Werke GmbH
Merge of W. Hegenscheidt and Hoesch MFD to Hegenscheidt-MFD
- 1996** Move of the Corporation to Sterling Heights, MI
- 2001** Formation of Niles-Simmons-Hegenscheidt Group

Areas of activity

Automotive



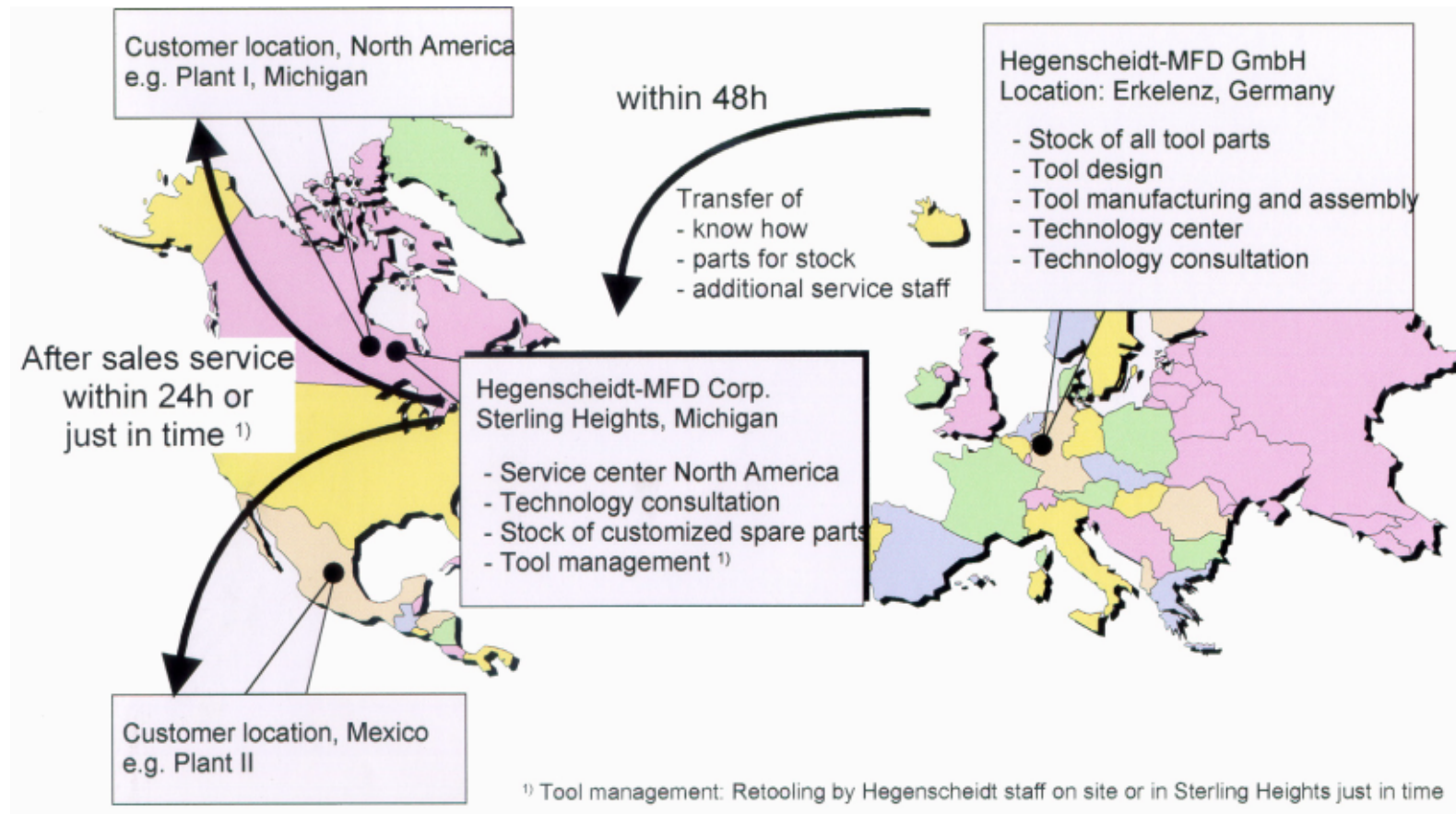
Machines for the production of
crankshafts

Railway Industry



Machines for production, maintenance
and diagnostic of rail vehicle wheel-sets

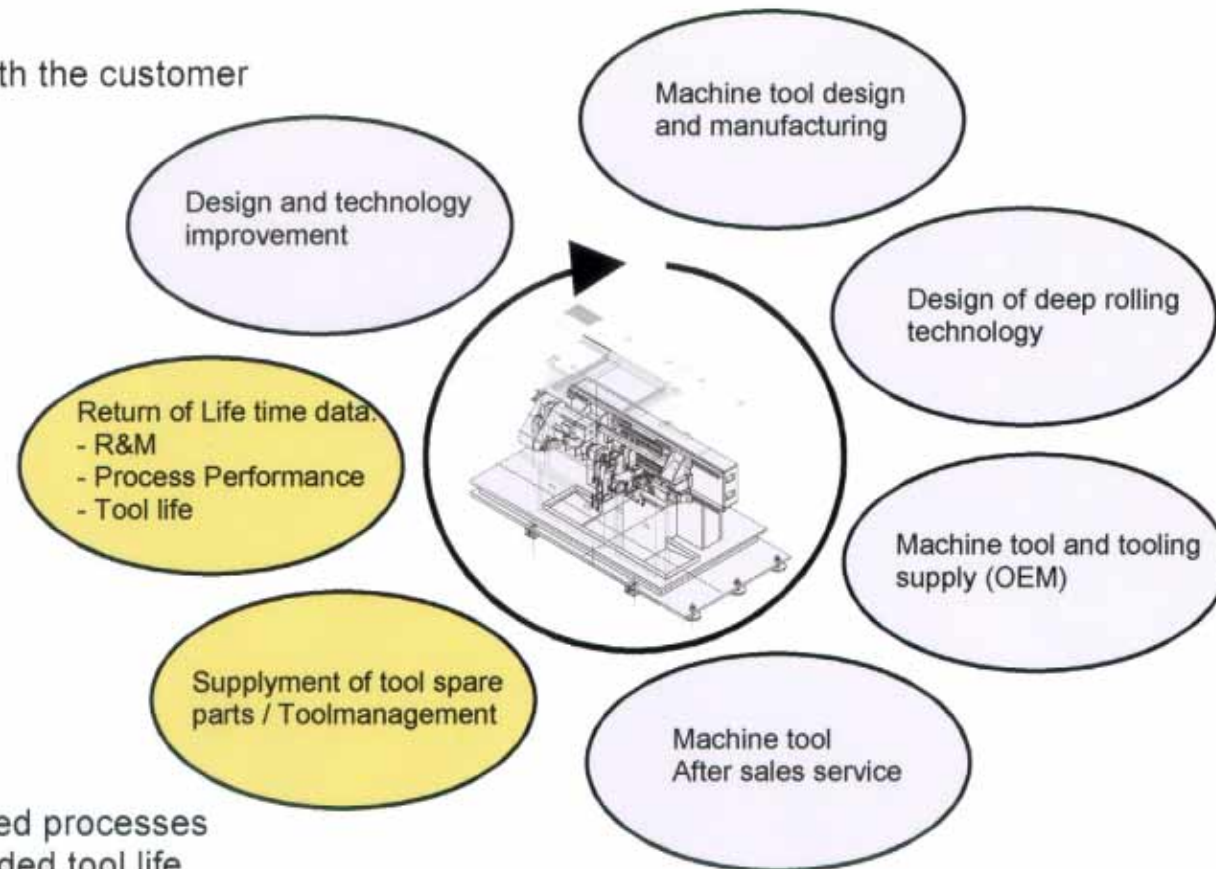
Service and tool management concept of Hegenscheidt-MFD in North America



Closed loop for machine life time

Our goal:

- System partnership with the customer



Your benefit:

- well-ried and customized processes
- cost reduction by extended tool life
- machine, technology and tools from one hand

Why Hegenscheidt-MFD Tools ?

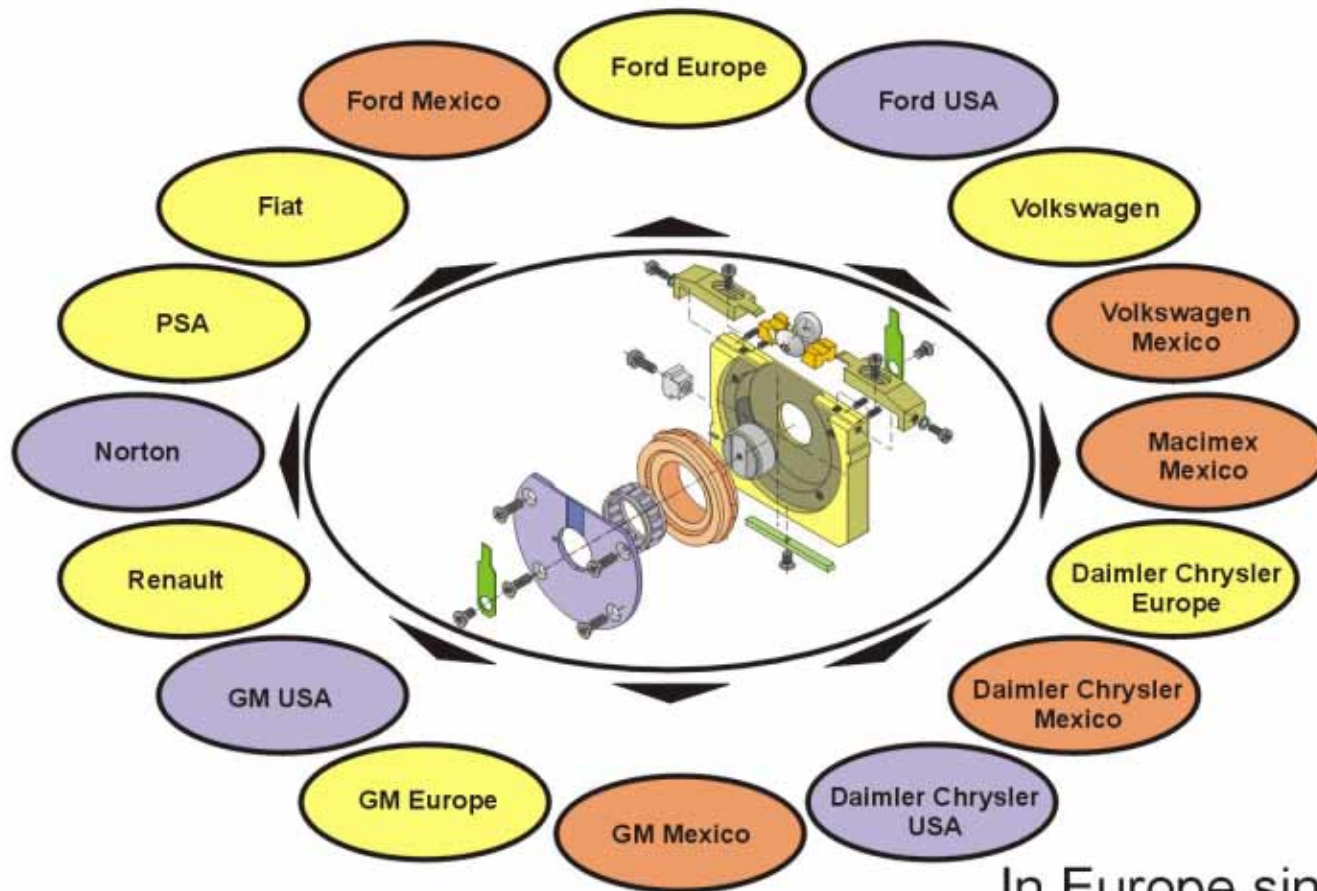
Commitment of continuous decrease of the costs per crankshaft

- 48 Hour delivery for Rollers and Roller Cages
- Complete Supply Chain for Advise, Design, Production and Service for Machine AND Tooling.
- Optimized Roller with smaller Bandwidth in Tool life
- Closed and stable Tools
- Possibility of Part Stock at Customer or Hegenscheidt-MFD side
- Double sided Roller Cages (Patent # ...)
- Easy assemble Tools (with no need of adjustment) Patent Pending

Deep Rolling Tools from

Hegenscheidt  MFD

OEM supplier for deep rolling tools...

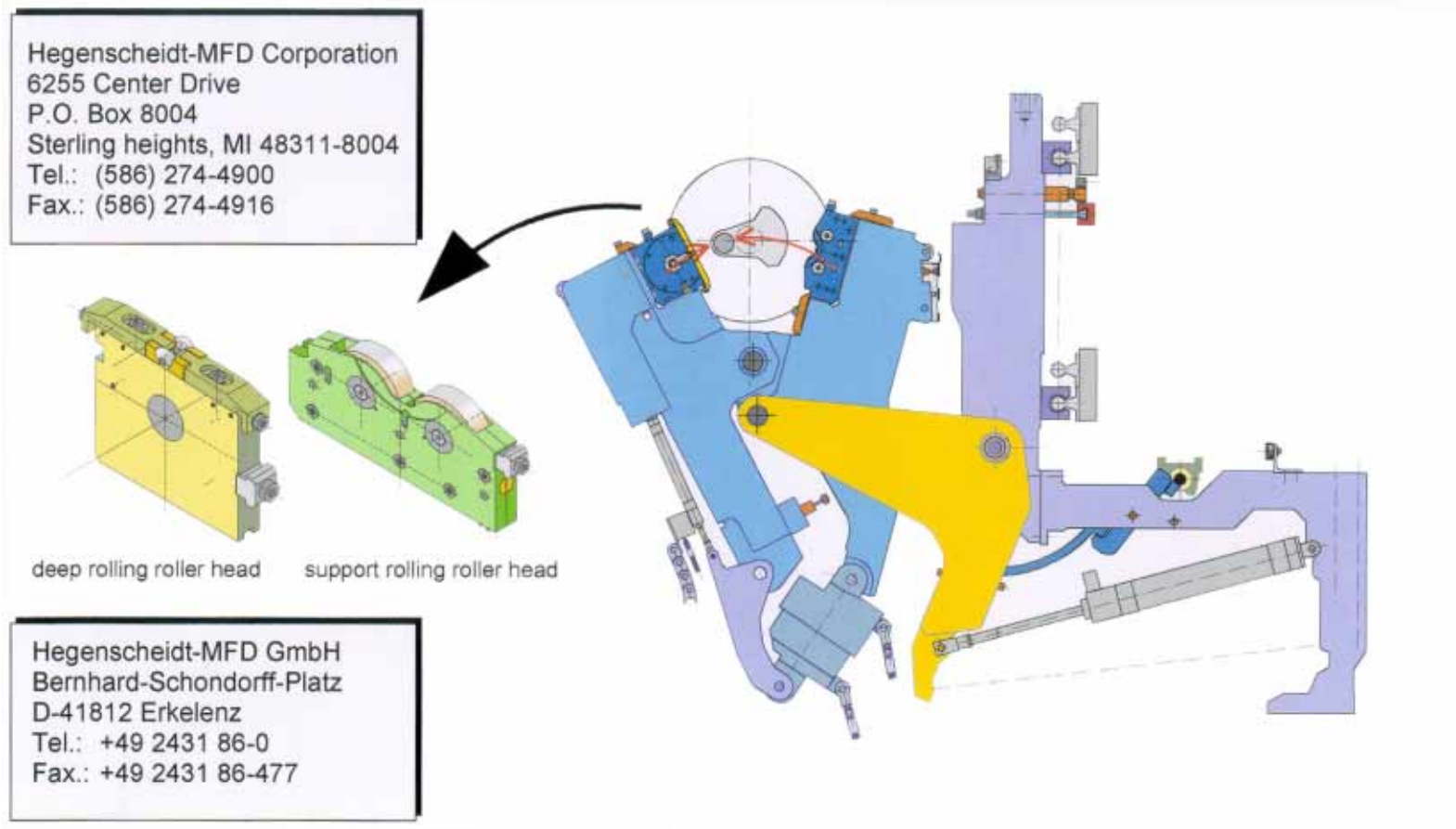


... In Europe since 1965

Deep Rolling Tools from

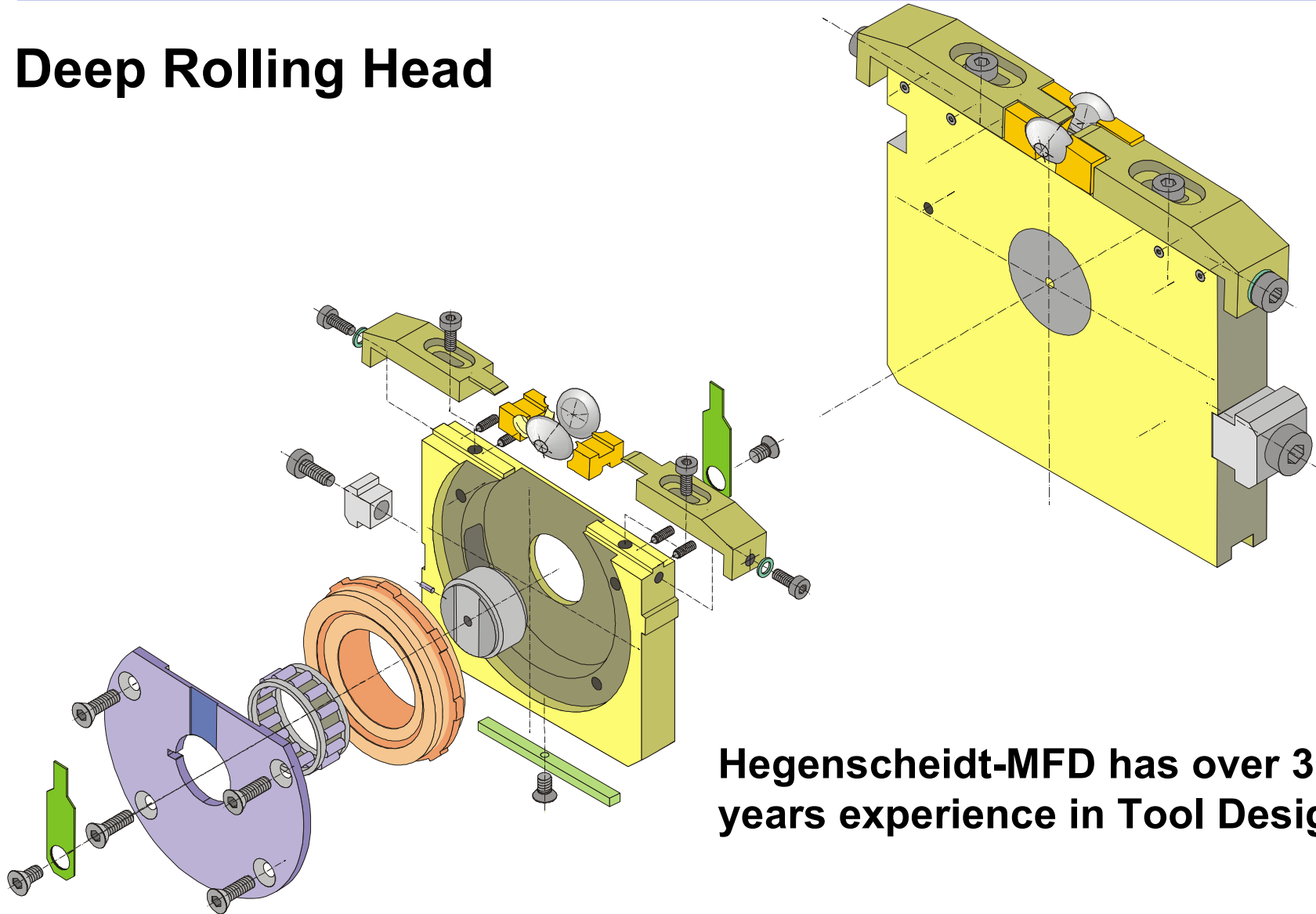
Hegenscheidt  MFD

Qualified partner for deep rolling technology and equipment



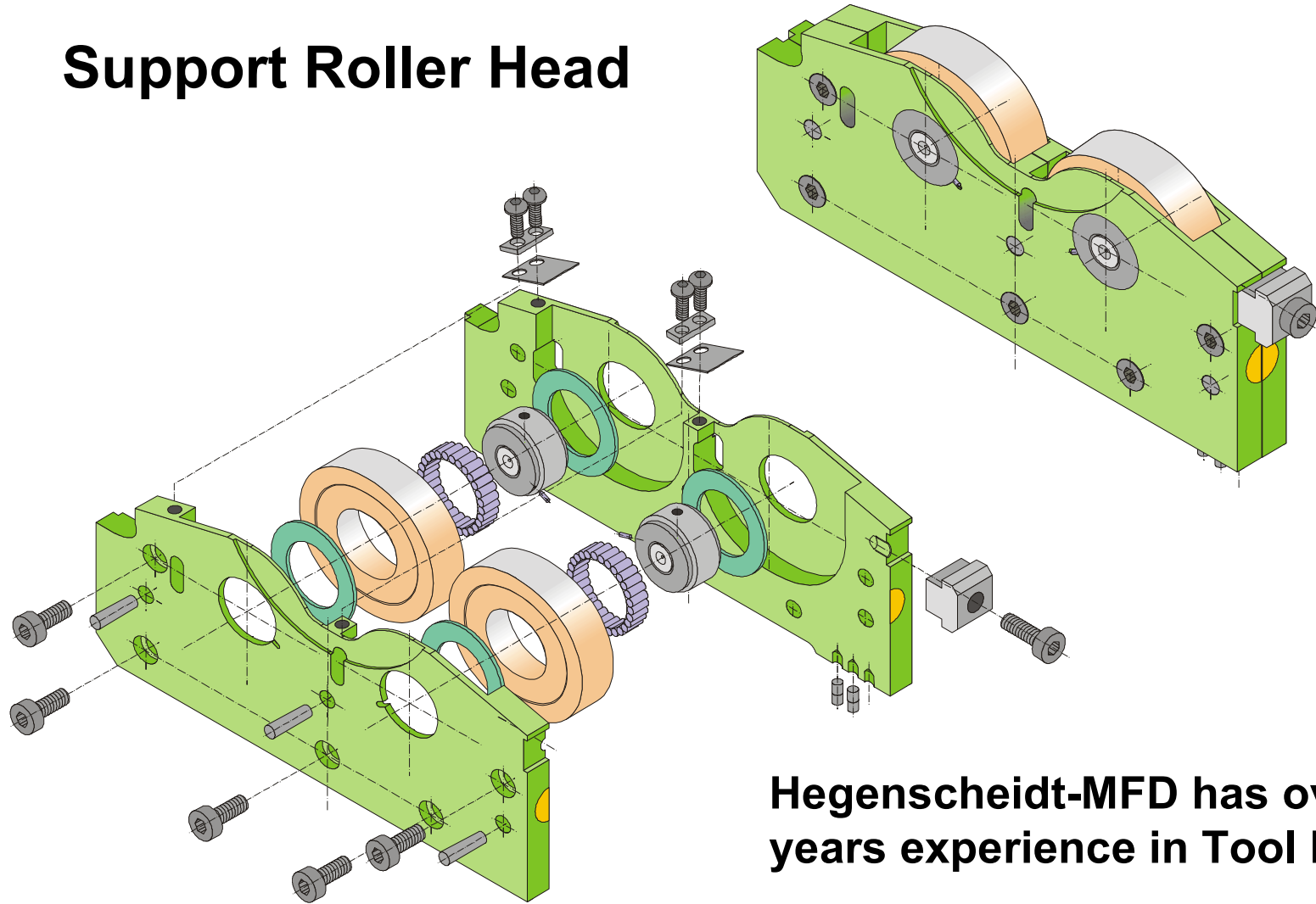
Deep Rolling Tools from

Deep Rolling Head



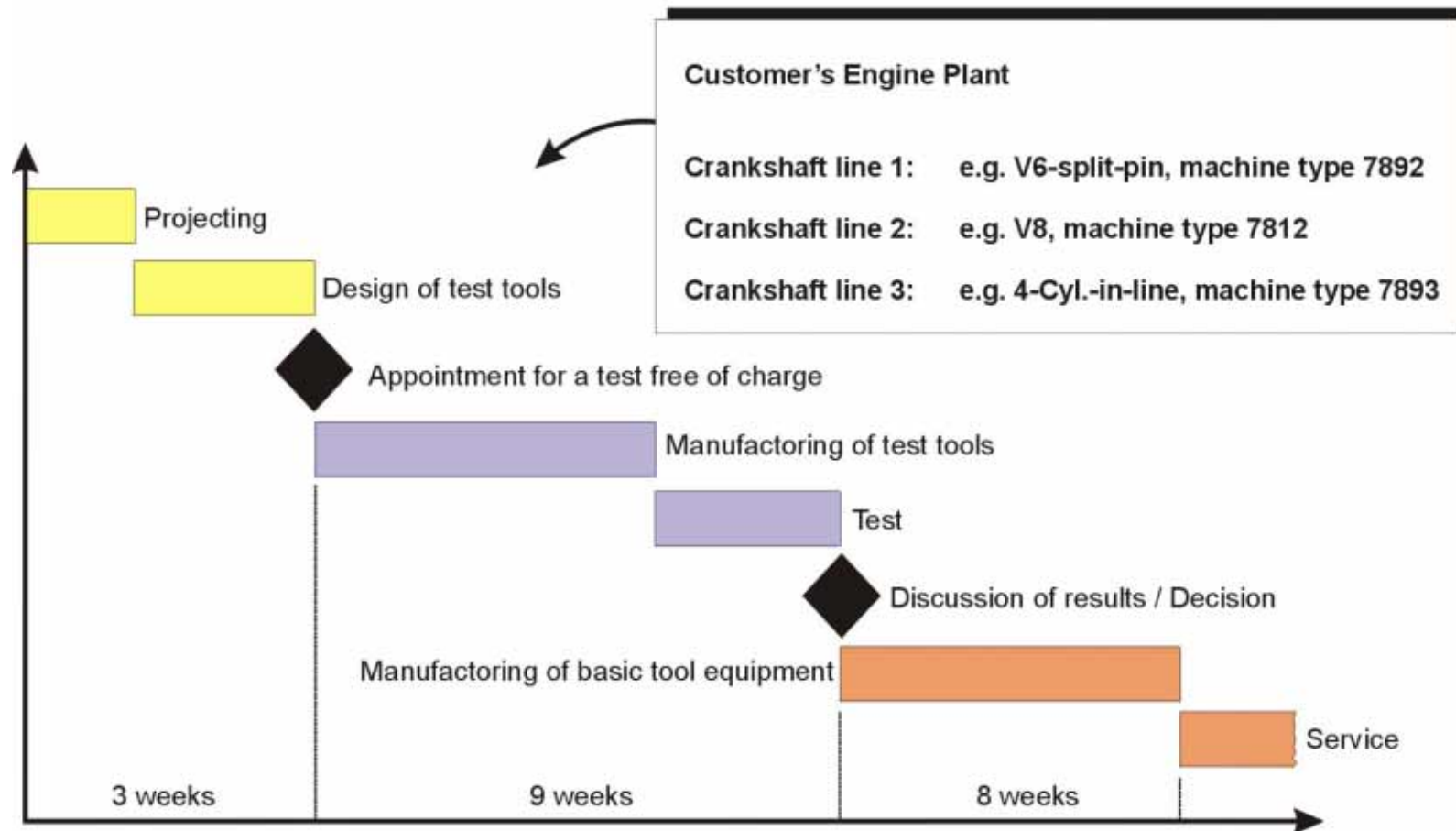
Hegenscheidt-MFD has over 30 years experience in Tool Design

Support Roller Head



Hegenscheidt-MFD has over 30 years experience in Tool Design

Concept for building up the tool business



Tooling Accessories

- Set up fixture
- Unassembly Fixture
- Complete dis-/assembly unit with tool-cleaning facility
- Tooling Storage / Lorry
- Adjusting gauges / ■ Adjusting aids
- Tool change tool.

Set up fixture



Unassembly Fixture



Deep Rolling Tools from

Hegenscheidt  MFD

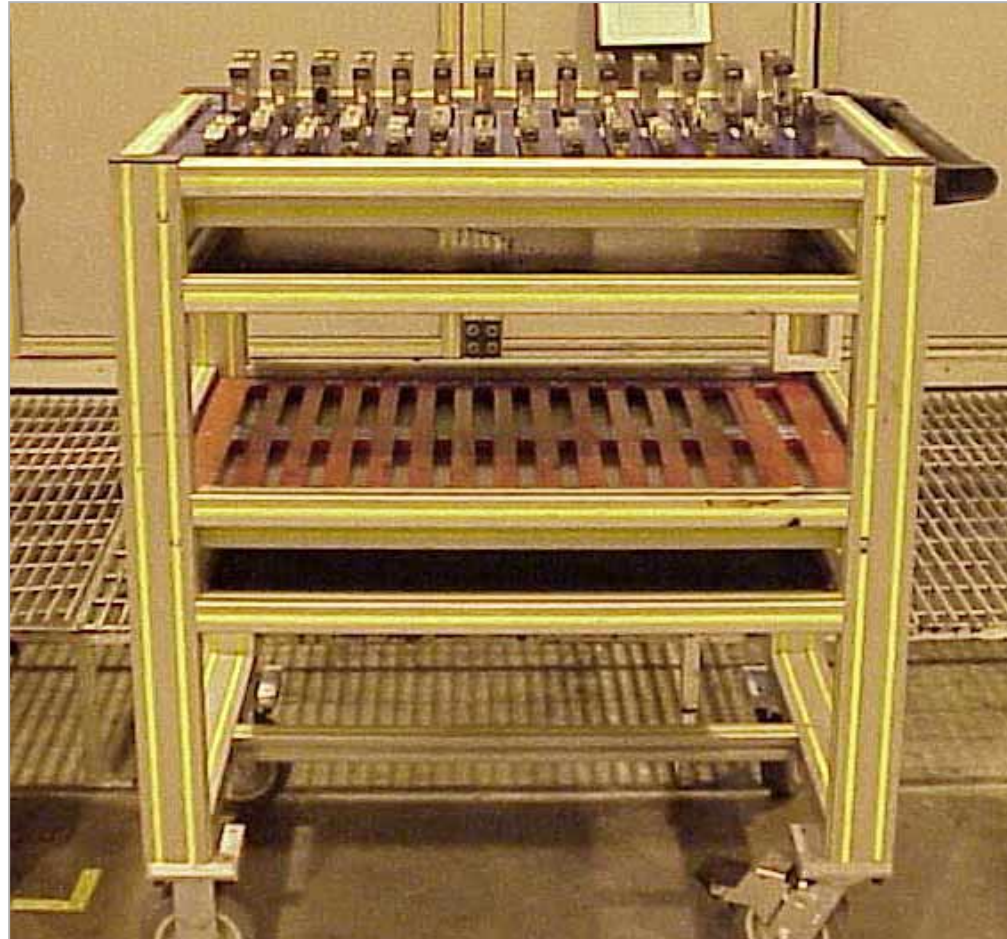
**Complete disassembly/
assembly unit with tool
cleaning facility**



Deep Rolling Tools from

Hegenscheidt  **MFD**

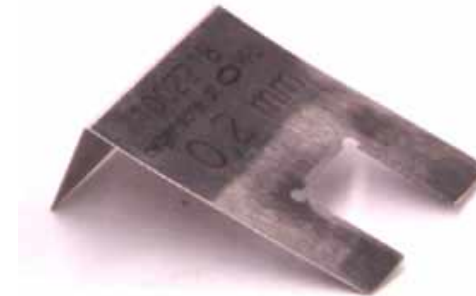
Tooling storage lorry



Adjusting gauges



Adjusting Aids



Tool change tool

