



# Safe production ... without speed limits!

FASTpress reliably monitors your fitting processes



...exclusively  
featuring

**FASTpress Suite**

[...powered by HBM Industrial Software]



Safe fitting processes...

## Top quality in your production...

Maximize the quality of fitting processes such as riveting, punching or press-fitting – using the MP85A FASTpress industrial amplifier from HBM.

MP85A FASTpress monitors your production processes in real time, directly during on-going operation. Your benefit: A consistently high quality of your products – because MP85A FASTpress identifies problems immediately as they occur.

MP85A FASTpress processes the data of up to 300 fitting cycles per minute – and ensures maximum reliability even in the fastest production lines.

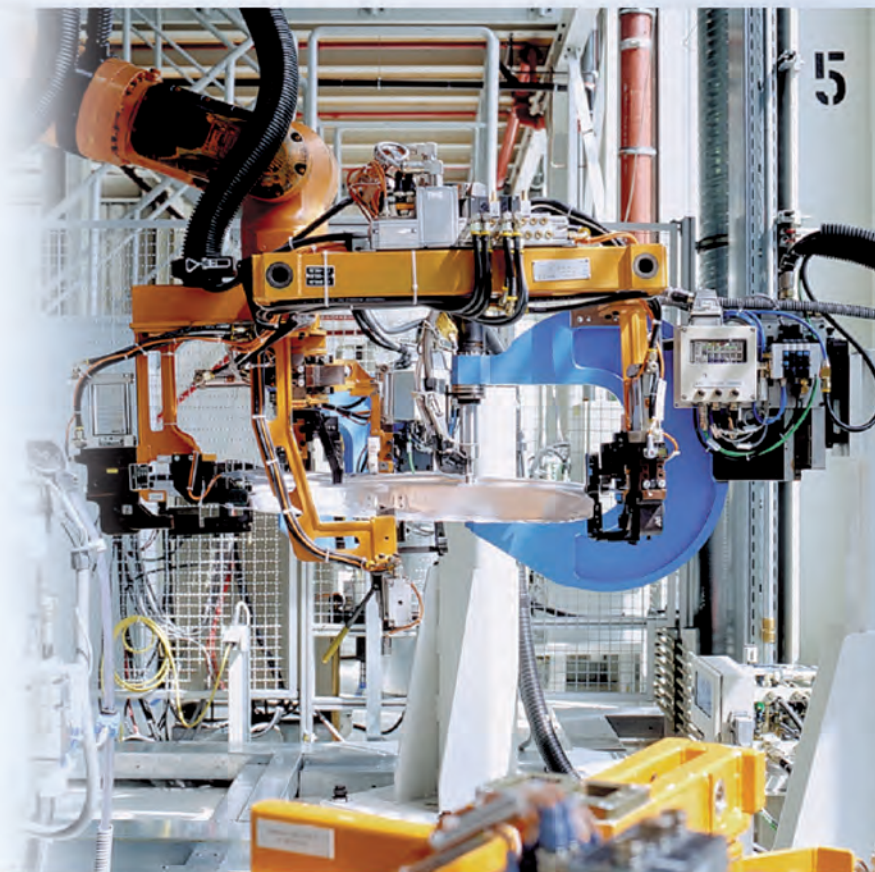
### Focus on your production...

Fully concentrate on your production! Use HBM's worldwide renowned measurement technology and benefit from the know-how and competence of the market leader.

*"Problems that are registered immediately after individual production stages enable us to take adequate corrective action. This makes the manufacturing process more accurate and increases the efficiency of our customers."*

*Dr. Carsten Bye  
Technical Applications Consulting  
and Project Planning*

*Gebr. Titgemeyer GmbH & Co. KG,  
Osnabrück, Germany*



# Stamping, rolling, deep-drawing, forging, punching, riveting, pressing...

**Metal forming:** The instant identification of problems is a top priority in sheet metal forming. Differing press forces can cause defective parts or result in discrepancies in the material properties of the finished products. HBM measurement technology ensures fast and reliable identification of problems with regard to dimensional accuracy, material properties, and material feed.

## Your benefits

- ✓ Full evaluation of the quality of your assembly connections
- ✓ Consistent documentation of your manufacturing data
- ✓ Protection of machines and tools
- ✓ Real-time production monitoring
- ✓ Predictive maintenance



Riveting



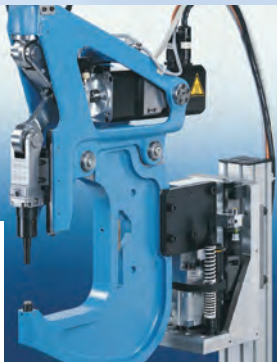
Böllhoff, Bielefeld

Punch riveting



Pressing, press-fitting

Böllhoff, Bielefeld



Clinching



Safeguard your production...

# Monitor, analyze and visualize in

Use MP85A FASTpress, the amplifier for monitoring fitting processes for acquiring up to two measured quantities, e.g. force and displacement or time, consistently by means of a tolerance band, envelope curve or using up to nine tolerance windows that can be defined as required. Industrial fieldbus technology and digital inputs and outputs enable you to easily and optimally integrate FASTpress process monitoring into your automation system.



Force



Displacement



Torque, angle of rotation



Pressure

**TEDS**  
by HBM™

**Immediately ready for use ... Connect your transducers in a few seconds**  
MP85A FASTpress is the first industrial amplifier ever that automatically recognizes TEDS sensors. Connect the transducers ... and monitoring of your production can be started.



**Data transfer through Fast Ethernet: All production data is immediately available**

Monitor your production at all times. The Fast Ethernet interface enables the MP85A FASTpress to be directly connected to any computer. You'll always know the current status of your production. Additionally, PROFIBUS or CANopen interfaces are available for connection to automation environments.

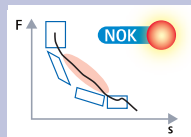
# real time

## Many evaluation criteria and analysis options for your production processes

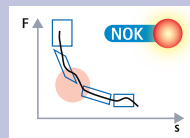
Identify even minor problems in your production immediately. The FASTpress Suite software offers a vast range of possibilities for evaluating and analyzing your production processes, for example:

- Up to nine tolerance windows per parameter set – with relative or absolute references of the tolerance windows
- Mathematical computation of the tolerance band or envelope curve
- Real-time or post-process analysis
- Curve history including trend identification
- Flexible visualization of curves and results
- Visualization of stored processes.

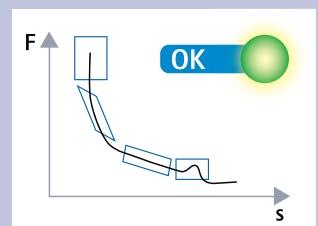
*Example for press-fitting of valve rods on cylinder heads*



*Reject: fit too tight*



*Reject: particles*



## Your data at a glance... Benefit from many options for visualization

MP85A FASTpress gives you the choice of where and how to visualize your production data... on your PDA, on external monitors or on your production PC.



## Well documented... Your production data is safe

MP85A FASTpress enables you to backup your production data on MMC/SD memory card. Save tens of thousands of curves and results. Up to 1000 measurement programs can be stored. Benefit from consistent documentation of your process data, even if MP85A FASTpress is used as a stand-alone unit without a PC.



# Professional tools for even more security

## User-friendly, powerful: HBM software for industrial applications

Specially developed for use in process control: the powerful "HBM Industrial Software"

supplies you with valuable professional tools for your production tasks.

HBM's software not only supports you with a complete set of essential standard functions but also allows individual customizing of the software, thanks to its modular structure, to meet your production line requirements.

### FASTpress Suite

[...powered by HBM Industrial Software]

#### PACKAGES

PME Assistant

Add on modules for  
PME Assistant

Professional  
visualization

Programming tools

All PME modules

MP85A FASTpress, MP85A-S EASYswitch

#### FUNCTIONS

- Numerous functions for setting up and monitoring production processes
- Data storage
- Visualization
- Report printout
- Diagnostic tool

**EASYsetup**  
User administration and profile storage in PME Assistant

**EASYmonitor**  
Applications for visualization and storage of process data on operator terminals and industrial PCs under Windows, CE, Mobile (touch-capable) (created with MP85A toolkit)

**MP85A Toolkit**  
Programming library for creating your own applications and integration of process controls into existing software interfaces using Microsoft®.NET technology

**EASYteach**  
- Comfortable process evaluation for process control  
- Statistics for downstream processing  
- Generation of optimized evaluation criteria for MP85A  
- Report builder and file export

**INDUSTRYmonitor**  
Application for comprehensive process monitoring and visualization under Windows XP, Vista, 7. Automatic generation of envelope curve tolerance windows. Data backup and report printing (touch-capable) (created with MP85A toolkit)

**MP85A Runtime**  
Single software license for unlimited use of a toolkit application under .NET

### FASTpress Suite ... – powered by HBM Industrial Software

The star in the HBM Industrial Software range: "FASTpress Suite", ideal in combination with the MP85A FASTpress industrial amplifier and MP85A-S EASYswitch.

FASTpress Suite is a complete software package for your process control.

#### Visualization, evaluation, further processing:

FASTpress Suite offers you exactly the performance that you require for your process control.

### PME Assistant

For simple setup and reliable monitoring of production systems

#### Add-on modules

With extra tools for automatic optimization of your evaluation criteria, for statistical process control and for simplified user administration.

#### Programming tool

The solution for system integrators – with a programming tool for individual customization of the operating and control software.

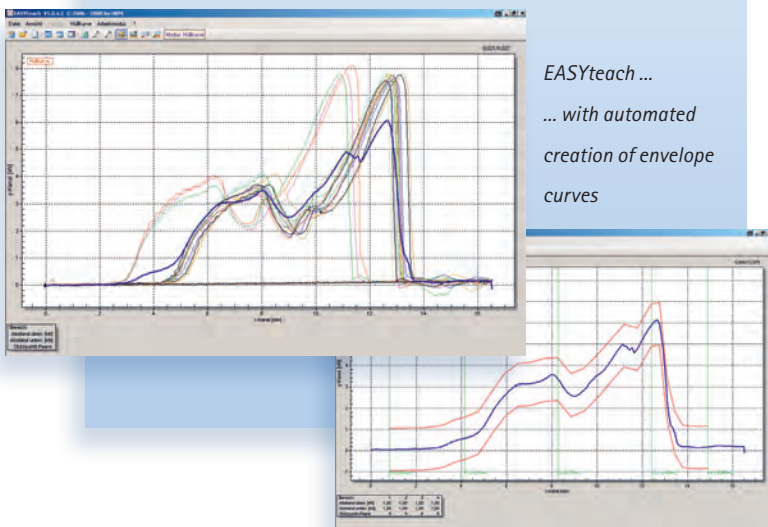


Process optimization with EASYteach

### EASYteach... Rapid process analysis

With EASYteach, you can analyze and optimize your production process in just a few seconds. Your advantage: The production processes are perfectly tailored to the relevant task.

- \_\_\_ Process analysis of up to 10,000 processes
- \_\_\_ Automatic generation of envelope curves and tolerance windows
- \_\_\_ Report builder and file export



EASYteach ...  
... with automated  
creation of envelope  
curves



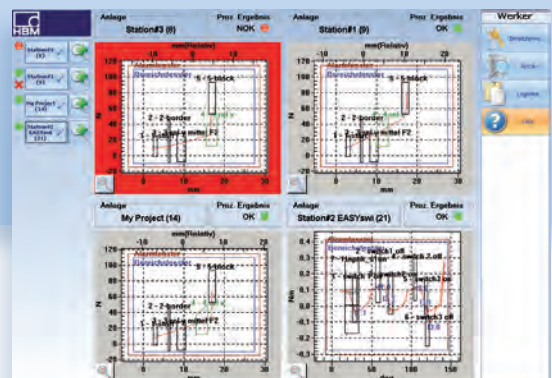
Process control and visualization directly on the machine control

### INDUSTRYmonitor... the production software

From works employee to service technician to administrator - the INDUSTRYmonitor software serves to process data acquisition, visualization and data storage, supporting your production employees in diverse areas.

#### Benefit from:

- \_\_\_ Process monitoring and process data storage
- \_\_\_ Simple touch operation
- \_\_\_ Transparent display
- \_\_\_ Up to 3 individually controllable user levels
- \_\_\_ I-P.M. quality data connection
- \_\_\_ Additional functions through plug-ins



INDUSTRYmonitor with 4 MP85A



Process control on mobile operating units

### Always in the picture about your production

You want to access the actual key data of your production line at any time? Regardless of where you are: HBM Industrial Software is also available for mobile end units such as handheld computers.

# Switch to the fast lane now...

## with MP85A FASTpress



- Immediately ready for use: Connect your TEDS transducers in a few seconds
- Many evaluation criteria and analysis options for your production processes
- Well documented: Stand-alone backup of your production data on memory card
- All data at a glance: Many options for visualization – for pocket PC and PDA, too
- Data transport through Fast Ethernet: Access your production data directly from your PC

... rely on HBM's superior technology – and benefit from the vast range of services offered by the market leader. Our measurement professionals provide you with maintenance and support in over 60 countries worldwide.

### At your service 24/7...

- Worldwide service and support
- Phone hotline for personal contact
- Application engineering

Subscribe to our free newsletter  
"The World of Process Monitoring" ...  
Application reports, events, free downloads, etc.

Keep up to date by email!

[www.hbm.com/fastpress](http://www.hbm.com/fastpress)



#### Planning with HBM

We provide you with the suitable ePLAN-macros.



#### HBM Test and Measurement

www.hbm.com                      Tel. +49 6151 803-0  
Email: [info@hbm.com](mailto:info@hbm.com)                      Fax +49 6151 803-9100

measure and predict with confidence

