

## PROCESS DATA COLLECTION INDUSTRY 4.0

***XBrowser, XViewer, Tuning Board***



# MARPOSS



[www.marposs.com](http://www.marposs.com)

For a full list of address locations, please consult the Marposs official website

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# XBROWSER, XVIEWER, TUNING BOARD



## Process data collection - Industry 4.0

Process data in forming and stamping technology are becoming more and more important for high quality parts, e.g. for the aerospace or automotive industries. Force signals and related envelope curves can be transmitted via network, stored automatically and are available to users for immediate and subsequent analysis.

## Applications

Via the XBROWSER process data are transmitted via network and stored on a customer server in the event of process faults or in time or stroke intervals. In the XVIEWER those files can be analyzed offline in the office, be recalled, evaluated and analyzed even weeks later.

With the Tuning Board a various number of important process data can be summarized and displayed for immediate analysis on the shop floor or in the office. This overview enables direct access to the current production situation on each machine (speed, scrap etc.), the setting of the monitoring limits and the stability and productivity of the process.

## Why Process data collection?

Up to now, process data collected by the sensors is displayed on the device and then deleted. Thus, they are unavailable for assessment later in case of customer complaints, for internal analysis and improvement measures. By regularly storing the process data with date, time and product number, they can easily be found and evaluated.

## Benefits

To analyze the actual production situation the online access to each monitoring unit enables a powerful tool for the production-, quality control- and tool design department to check the machine and tool setup, load distribution, process stability and global production situation.

In case of complaints after some time, the insight into the process parameters during production is lost. With continuous process data collection, the gap between the regular SPC controls can be closed and conclusions can be drawn about the species or the origin. In metal forming operations, these sensor data can only come from the existing monitoring devices.

### XBROWSER

- all data live at a glance
- support of operators possible
- settings can be controlled and evaluated
- tour of production is no longer necessary

### XVIEWER

- stored data can be recalled
- conclusions possible in the event of production problems
- gap to SPC tests closed
- behaviour of machine and tool can be evaluated more easily

PRESS SHOP	Optimizer	PQ Factor	Sensitivity	Scrap	Productivity	Speed
SP 38 LA	Off	99 %	40	0 %	81 %	100 %
SP 28 B	Off	67 %	45	15 %	47 %	98 %
SP 28 EL	On	78 %	22	0.8 %	76 %	100 %
SP 28 A			not connected			
SP 48	On	89 %	19	5.5 %	79 %	75 %
SP 48 EL	On	92 %	12	1.7 %	72 %	101 %
SP 570	Off	99 %	26	2.1 %	88 %	92 %
SP 360	On	72 %	26	3.4 %	75 %	99 %

SP 38 LA Check Sensitivity [1,2,6]

### Tuning Board

- all relevant process data at a glance
- discover problems during production and immediately initiate improvement measures
- process monitoring settings visible to all machines
- detect and improve unstable processes