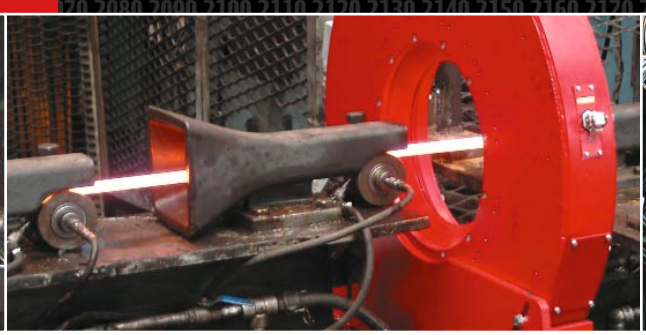
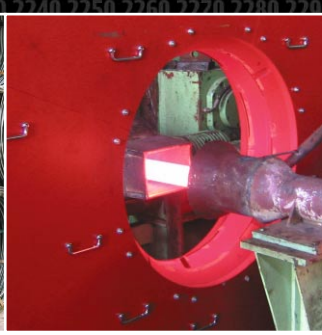
RDMS PROFILE GAUGES FOR ROD AND BAR

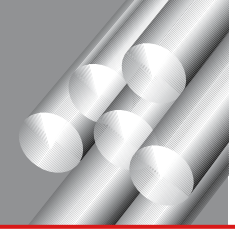
DATA SHEET OF THE VERSIONS BASIC, STANDARD, PREMIUM

TECHNICAL DETAILS



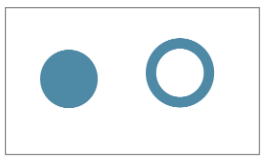


LAP LASER



BASIC.

APPLICATIONS.



Simple gauge for measurement of key dimensions

- wire rod
- round bars
- tubes

FEATURES.

- A typical RDMS BASIC system measures in one or two axes. It is equipped with the same sensors as all other RDMS systems, ensuring the same high accuracy.
- The large numerical display permanently displays diameters and roundness. All mill operators see the key dimensions at a glance – basis for shipment of spec-conforming products.

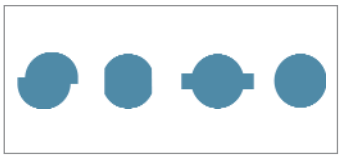
OPTIONS.

Should the requirements increase, the system can be upgraded at any time to the up-scale versions.

YES,

STANDARD.

APPLICATIONS.



Multi-axes profile measurement system with graphical display

- wire rod
- round bars
- tubes

FEATURES.

- LAP RDMS Standard is equipped with 2, 4, or 6 measuring axes and provides detailed information for the rolling line adjustment. Besides diameters and roundness, also cross-rolls, over- and underfill are detected.
- The graphical cross-section display and the line charts of the entire bar length allow assessment of the billet temperature and of push and pull conditions in the rolling line.

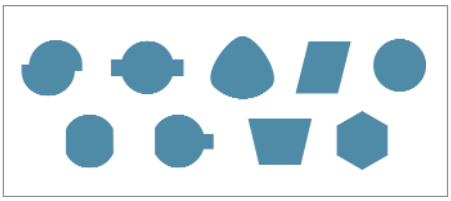
OPTIONS.

- up to 4 independent operator stations
- integration of multiple gauge heads via network
- gauge head swivelling upgrade for angle adjustment of measurement axes
- upgradeable to PREMIUM version

WE CAN

PREMIUM.

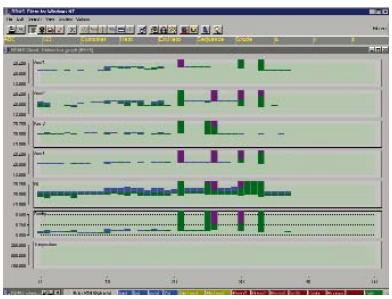
APPLICATIONS.



High-End system for 'true-shape' profile measurement and for special applications

- wire rod
- bars: round, square, flats, hexagon
- special rolling technologies like 3-roll stands
- profiles with asymmetric fill, rebar

FEATURES.



- LAP RDMS Premium systems are equipped with 3, 4, or 6 measuring axes and measure the true profile even of asymmetric shapes
- The patented 3-point measurement results in precise OD and out-of-round results of products with 3-lobed shapes as rolled frequently by 3-roll mills.
- The real-time software package in modular client/server structure provides the operators with essential information for mill stand and entry guide adjustment.
- Using multiple gauge heads along the rolling train, the material can be traced from the roughing mill through the cooling bed to the final quality inspection. Also, for todays "one-pass" mill setup, multiple gauge heads provide undelayed measurement of all finishing sizes without necessity of relo-cating a gauge head at size changes.
- The integrated database archives measurement results, product setup values and system status information over months for later retrieval and analysis.

OPTIONS.

- up to 6 independent operator stations
- integration of multiple gauge head via network
- connectable to external customer SQL data bases
- gauge head swivelling upgrade for angle adjustment of measurement axes

LAP LASER

Sensors, Guidelights, Projectors
Systems & Solutions

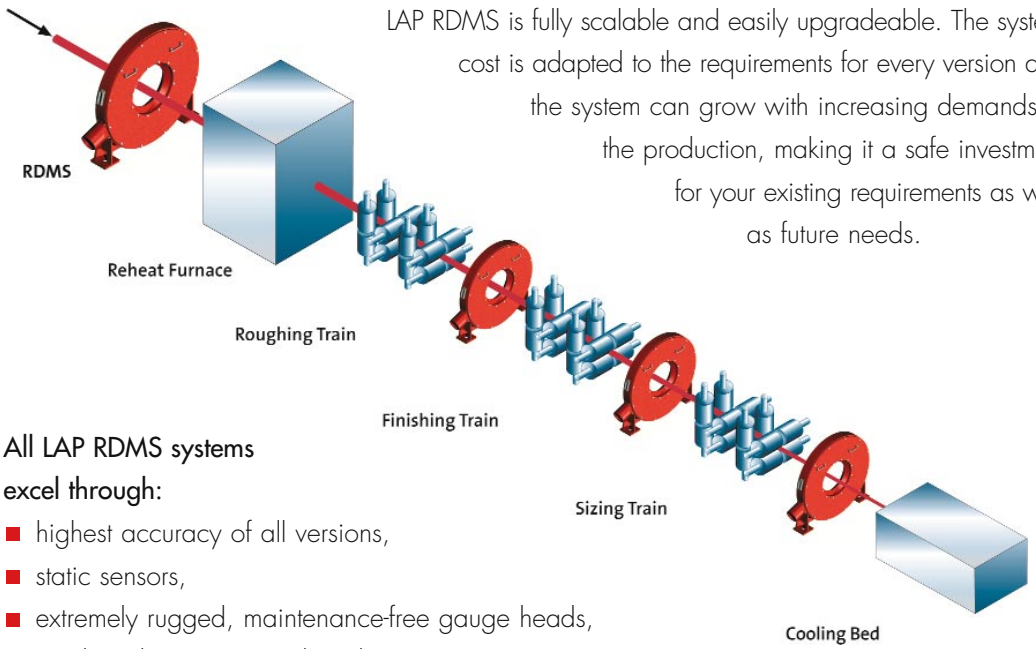
SCALABLE PROFILE MEASUREMENT SYSTEM.

THE RDMS SYSTEM.

LAP RDMS is the first system worldwide to measure the true cross section of wire rod, bar and tubes with static sensors. Using innovative ideas, LAP raises the bar in measurement technology.
The requirements are always different: The measurement of complete profiles is not necessarily required in all places. Especially for intermediate and feeder sizes, the measurement of one or two diameters is often sufficient. To optimize the finishing rolling with today's complex requirements, complete profile measurement and undelayed on-line display of the results is imperative.

LAP RDMS adapts to these varying requirements:

- from measurement of key dimensions to complete profile measurement
- from digital readout to multifunctional data acquisition and monitoring software
- from single sensors to networked multi-gauge head systems



RDMS – Useful locations in a mill

LAP RDMS is fully scalable and easily upgradeable. The system cost is adapted to the requirements for every version and the system can grow with increasing demands of the production, making it a safe investment for your existing requirements as well as future needs.

All LAP RDMS systems excel through:

- highest accuracy of all versions,
- static sensors,
- extremely rugged, maintenance-free gauge heads,
- combined air purge and cooling,
- interference-proof signal transmission,
- easy installation and operation,
- high reliability.

WE CAN

TECHNICAL DETAILS.

	BASIC	STANDARD	PREMIUM
Messbare Profilvarianten			
Number of axes	1, 2, (4)	2, 4, (6)	3, 4, 6
Scan field		0-90 oder 0-180 mm	
Measuring rate	Display rate: 2 /s	50 /s	400 /s
Visualization	Numerical display	Desktop PC	IPC in control cabinet
Data concentrator	-	Software	Hardware
Number of possible clients	-	4	10
Air supply unit	Blower and suction filter (components)	Blower and suction filter (components)	Blower and suction filter (pre-assembled)
Asymmetric profile identification	-	-	X
Data base	-	0	X
Alarm report	-	X	X
Uninterruptible power supply	-	0	X
Inputs for temperature and speed	-	0	X
Temperature monitoring	-	0	X
Options:			
KOCKS – 3-roll-reducing/sizing technology	-	-	X
SWING – angular adjustable measuring position	-	0	X
REBAR – Ribbed steel	-	-	X
FFT / Histogram	-	-	X
Upgradable / Scalable	X	X	X

X Serial
0 Optional

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