Straightening and Cutting-Off Machines for the Production of Straightened Rods from Reinforcing Steel

RB 53
RB 63
Our Accomplishments for your Benefit

- Processing of cold- and hot-rolled materials
- More powerful while offering even more operating convenience
- Minimized tooling times
- Tools from the RBK 51 can be used

Design Features

Efficiency
- Push and pull rollers for wire feed
- Robust rotary straightening system
- High-performance cut
- Latest power electronics

Infeed
- Separately driven infeed modules
- Pneumatic clamping pressure for opening and closing the feed modules at the control panel

Cut
- Rotary cut
- Cutting without that the wire comes to a stop
- Reduction of noise and wear due to servo drive

Cut release
- Manually adjustable release head (option)
- Length measuring device (option)

Reduced set-up times
- Convenient input of feed speed, spinner speed, cutting length in combination with length measuring device
- Convenient solution for storage of tools

Tools
- Standard tools on stock
- Stamping tools for the application of processor marks (option)
- Tungsten carbide straightening dies (option)

Straightening
- Reliable straightening system with 5 pairs of dies
- Variable spinner speed
- Spinner with feed funnel (option)
- Spinner with hyperbolic rolls (option)

Extension
- Rod stopper for catching rods
- Tiltable station, buffer station (option)
- Rodend alignment unit (option) capacity 1.5 or 3 to for rod length of 3 meters

User Interface

Cut release by manually adjustable release head
New Definition of Productivity

WAFIOS RB machines have been designed for the production of straightened and cut-off reinforcing steel rods. They provide new technical solutions for increasing your output and optimizing costs.

The standard equipment of these machines includes 4 drives. As an option, the machines can be fitted with an additional push roller pair and a straightening system with a larger spacing to use the machines also in the larger diameter range.

Further options are a wire end detection device and an extraction unit for the reduction of wear at tools and at the machine as well as various extension possibilities for increasing the machines’ efficiency.

Solutions for an alternative input of production data from external stations are available

Quality

For more than 100 years the name WAFIOS has stood for the highest in terms of quality expectations, safety standards and technical innovation in German manufacturing systems engineering.

Reliability

Strict quality controls, state-of-the-art production systems and many years of experience guarantee that your investment is in safe hands. Our global service network ensures high availability of WAFIOS machinery.

Efficiency

High production output and a long service life will save money and shorten the amortization time of your investment.
### Technical Data

<table>
<thead>
<tr>
<th></th>
<th>RB 53</th>
<th>RB 53B</th>
<th>RB 63</th>
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</thead>
<tbody>
<tr>
<td>Feed rate (m/min)</td>
<td>15 - 160</td>
<td>15 - 160</td>
<td>15 - 100</td>
</tr>
<tr>
<td>Nominal diameter, cold and hot rolled* (mm) 500 - 900 (N/mm²)</td>
<td>6.0 - 12.0</td>
<td>8.0 - 14.0</td>
<td>8.0 - 16.0</td>
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<tr>
<td>Shortest cutting lengths (mm)</td>
<td>500 - 1,600</td>
<td>500 - 1,600</td>
<td>1,000 - 1,600</td>
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<tr>
<td>- with measuring wheel (length tolerance +/-1 mm/m)</td>
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<tr>
<td>- with release head (length tolerance +/-2 mm)</td>
<td></td>
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<tr>
<td>Cuts per minute max.</td>
<td>80</td>
<td>80</td>
<td>80</td>
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<tr>
<td>Space required (l x w x h) (mm) (without straightening extension and pay-off)</td>
<td>2,850x1,300x2,450</td>
<td>2,850x1,300x2,450</td>
<td>4,000x1,600x2,400</td>
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* Scale > 0.5% on request

### RB 53

![RB 53 diagram](image_url)

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Precision Machinery for Wire and Tube

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