



# External Cylindrical Machining of the Premium Class

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THREAD ROLLING ATTACHMENTS	DESCRIPTION	FUNCTION	FIELDS OF APPLICATION	OPERATIONAL AREA	YOUR BENEFITS
	<ul style="list-style-type: none"> <li>Tangentially working, chip-free shaping technology</li> <li>Stationary tool for rotating workpieces</li> <li>Working range Ø 1.6 - 56 mm</li> <li>Modular design</li> <li>Adapters for all common machines available</li> </ul>	<ul style="list-style-type: none"> <li>The thread rolling attachment is mounted on the machine by means of the adapter.</li> <li>It moves at a constant feed rate onto the rotating workpiece.</li> <li>The turning of the thread rolls is offset as they come into contact with the workpiece and it shapes the thread.</li> </ul>	<ul style="list-style-type: none"> <li>Threads behind a collar</li> <li>Threads close up to a collar</li> <li>Very short threads</li> <li>Threads with very short run-outs</li> <li>Threads where the end of the workpiece is not free</li> </ul>	<ul style="list-style-type: none"> <li>Cylindrical and conical threads</li> <li>Left-hand and right-hand threads</li> <li>Fine-pitch and regular-pitch threads</li> <li>Rolling of slots and profiles</li> <li>Knurling and smoothing</li> </ul>	<ul style="list-style-type: none"> <li>Large working area realised through the different adjustment options</li> <li>Long working-life thanks to the large rolls and the remarkable rigidity of the tool body</li> <li>Extremely low maintenance</li> </ul>
	<ul style="list-style-type: none"> <li>Auto-opening, axially working, chip-free shaping technology</li> <li>Rolling threads in one working step</li> <li>Working range Ø 2.5 - 75mm</li> <li>Adapters for all common machines available</li> <li>Modular design</li> </ul>	<ul style="list-style-type: none"> <li>The closed rolling head moves at constant feed rate on the exactly returned workpiece.</li> <li>The head's opening mechanism will be activated when the feeding stops at the thread end.</li> <li>The rolling head returns at rapid traverse and is closed again.</li> </ul>	<ul style="list-style-type: none"> <li>Machining of long threads</li> <li>Stationary rolling head for rotating workpieces</li> <li>Rotating rolling head for stagnant workpieces</li> </ul>	<ul style="list-style-type: none"> <li>Cylindrical and conical threads</li> <li>Left-hand and right-hand threads</li> <li>Fine-pitch and regular-pitch threads</li> <li>Tube, trapezoidal and special threads</li> <li>Rolling of slots and profiles</li> <li>Knurling and smoothing</li> </ul>	<ul style="list-style-type: none"> <li>Large working areas realised through modular design</li> <li>Auto-opening for touch-free retraction</li> <li>Compact design for restricted assembly dimensions</li> </ul>
	<ul style="list-style-type: none"> <li>Auto-opening, axially working, chip-removing technology</li> <li>Cutting threads in a single working step</li> <li>Working range Ø 1.6 - 175mm</li> <li>Stationary or rotating build</li> <li>Modular design</li> </ul>	<ul style="list-style-type: none"> <li>The stationary cutting head is connected to the tool carrier by a shaft.</li> <li>The tool moves axially with precision pitch accuracy onto the workpiece, where the thread is cut in a single working step.</li> </ul>	<ul style="list-style-type: none"> <li>Threads close to a collar</li> <li>Machining of long threads</li> <li>Difficult cutting jobs and large diameter areas</li> <li>Parallel profiles by the plunge-cut process</li> </ul>	<ul style="list-style-type: none"> <li>Cylindrical and conical threads</li> <li>Left-hand and right-hand threads</li> <li>Fine-pitch and regular-pitch threads</li> <li>Tube, trapezoidal and special threads</li> </ul>	<ul style="list-style-type: none"> <li>Economical machining thanks to chasers that can be reground</li> <li>Time-saving operation thanks to single cuts</li> <li>Short downtimes thanks to exchangeable chaser holders</li> </ul>
	<ul style="list-style-type: none"> <li>Reducing diameters quickly and precisely</li> <li>Reducing diameters by up to 6 mm in a single pass</li> <li>Working range Ø 2 - 30 mm</li> <li>Central diameter adjustment</li> <li>Stationary or rotating design</li> </ul>	<ul style="list-style-type: none"> <li>The multi-cutter turning head (MSD) is connected to the tool carrier by a shank.</li> <li>The head moves axially onto the workpiece with feed rates of 0.2 - 0.8 mm/rev. and reduces the diameter.</li> <li>The head (MSD) opens by means of an internal or external triggering and feed stop.</li> </ul>	<ul style="list-style-type: none"> <li>The original material can be round, square or hexagonal and pulled or rolled</li> <li>Stationary design for the use on turning machines</li> <li>Rotating design for the use on rotary tables, special and transfer machines</li> </ul>	<ul style="list-style-type: none"> <li>Reducing diameters to an exact measure</li> <li>Used for preturning before thread rolling</li> <li>Workpieces with a large workpiece-length-ratio</li> </ul>	<ul style="list-style-type: none"> <li>Tremendous cutting performance thanks to 3 to 4 times faster advance rate</li> <li>Easy handling by the centralised diameter adjustment</li> <li>Very high turning accuracies of 0.02 mm over the diameter can be realised</li> </ul>
	<ul style="list-style-type: none"> <li>Axially</li> <li>Axially offset</li> <li>Radially</li> <li>Radially relocated</li> <li>Angle-adjustable</li> <li>Alternatively with internal or external coolant supply</li> </ul>	<p>WAGNER® driven tools facilitate the complete machining on one machine and the accomplishing of the activity values of all customary in trade machines and cutting tools in practice.</p>	<ul style="list-style-type: none"> <li>For drilling, milling and thread cutting</li> <li>ER DIN 6499 collet chuck</li> <li>DIN 6358 milling spindle</li> <li>DIN 1835 Weldon</li> <li>Thread tap</li> </ul>	<p>Turrets made by:</p> <ul style="list-style-type: none"> <li>SAUTER</li> <li>DUPLOMATIC</li> <li>INDEX</li> <li>CITIZEN-BOLEY</li> <li>EMCO</li> <li>BARUFALDI</li> <li>OKUMA</li> </ul>	<ul style="list-style-type: none"> <li>High dimensional accuracy when machining fits</li> <li>Low operating noise</li> <li>For highest surface qualities</li> <li>Long service life of tool head</li> <li>High cutting capacity</li> </ul>

# Expertise Covering a Wide Range of Cylindrical Machining Processes

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## Various Production Examples

With WAGNER<sup>®</sup> precision tools various workpieces for different branches can be machined:

- Automotive industry
- Electrical engineering
- Automation
- Food industry
- Machine building
- Heating construction
- Fittings
- Pipe and tube industry

## The Company

WAGNER<sup>®</sup> Werkzeugsysteme Müller GmbH specialises in the production of precision tools for use in the efficient production of external threads and special production stages such as beading, crimping, knurling or rolling-in.

It is part of the Müller group with a subsidiary company located in Switzerland and its own turning shop. The continuous development work undertaken by our engineers ensures that our technology always counts amongst the world leaders. Swabian precision has been used in the development of all of our products in order to meet the growing needs of the market.



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