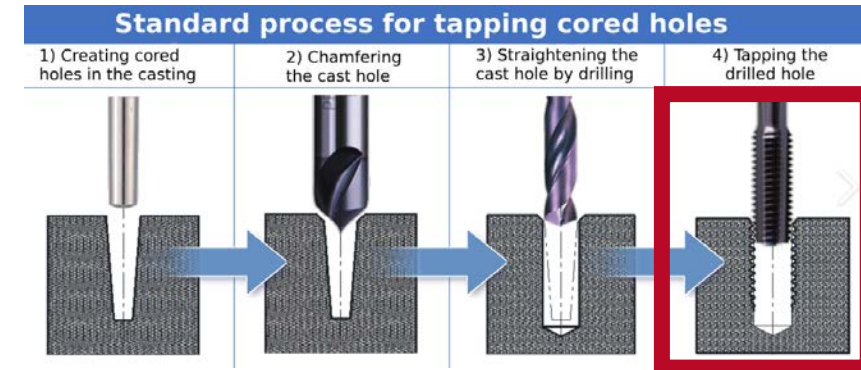


# Screw tap measurement with Marameter 852 & 853



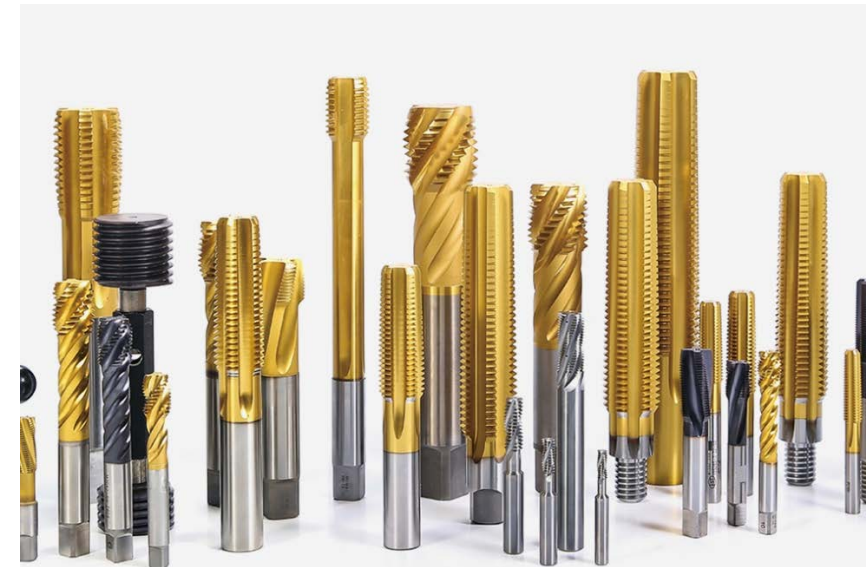
# Screw tap application by Mahr Marameter 852 & 853

Industry	Tools	Application	Thread pitch diameter
workpiece	Screw tap	Product	Marameter 852 & 853
Country	China	Usability	Internal
Department*	Production & QC	Contact Mahr	Leo Pu



## 3 major reasons why Mahr was selected

1. Mahr long-term reputation in the measurement industry and the recognition of the Mahr brand by customers. And Customers have already used Mahr products.
2. Mahr has measurement solutions that cover all the needs of customers.
3. Fast measurement speed and simple operation.



# Metrology Task / Challenge of the customer

## Task :

- Screw taps pitch diameter measurement.

## Challenge:

- Traditional measuring tools are unable to measure the pitch diameter of taps with odd-numbered jaws.
- Traditional measuring tools cannot meet the measurement efficiency requirements of customers: 5,000 > pcs/day. (20 sec. / pcs)
- Thread shapes of various :
  - metric 60°
  - UNC/UNF thread 60°
  - Whitworth thread 55°



# Solution from Mahr Marameter

- Portable design Marameter 852 & 853 snap gages
  - Screw tap with 4 jaws
    - Marameter 852 (4510000) + thread anvils +1003
  - Screw tap with 3 jaws
    - Marameter 853 (4511000) + 853qk3 (4511024) + thread anvils +1003
  - Screw tap with 5 jaws
    - Marameter 853 (4511000) + 853qk5 (4511026) + thread anvils +1003
  - Screw tap with 7 jaws
    - Marameter 853 (4511000) + 853qk5 (4511028) + thread anvils +1003
- A total of 60+ units sold to the customer.



## Key features customers care about:

- Easy to operate: set zero then measure
- Snap gage for screw taps with 3,5,7 jaws
- For pitch diameters on taps in conjunction with interchangeable anvils. A full range of thread anvil are available.
- Portable design can be used anywhere
- Stable repeatability
- High accuracy comparator 1003. Data output possible (2000Wi)



# F.A.B for Marameter 852& 853 products

Mahr Marameter 852& 853 Series		
Features	Advantages	Benefits
Portable handheld device	<ul style="list-style-type: none"> <li>• Small &amp; light</li> <li>• It can be measured on the production line to obtain measurement results quickly</li> </ul>	<ul style="list-style-type: none"> <li>• Easy to use</li> <li>• Can be used anywhere in the factory</li> </ul>
Anvil spindle can easily be fine adjusted	Support yoke 3,5 & 7 flutes of taps – Marameter 853 Support even flutes of taps – Marameter 852	There is no need to customize special measuring tools, which saves costs
<ul style="list-style-type: none"> <li>• Constant measuring force</li> <li>• Built-in stable spring</li> </ul>	<ul style="list-style-type: none"> <li>• The spring can rebound quickly without the need to rotate the thimble</li> <li>• Stable measure force and contact speed</li> <li>• Higher measure frequency</li> </ul>	<ul style="list-style-type: none"> <li>• Eliminating user influence , measurement results are more reliable</li> <li>• 3+ times faster than micrometer</li> </ul>
Made of hardened stainless steel	<ul style="list-style-type: none"> <li>• Repeatability could up to 1µm</li> <li>• Better utilization of the tolerance zone</li> </ul>	<ul style="list-style-type: none"> <li>• Stable measurement results</li> <li>• Fewer customer complaints</li> <li>• Better GRR performance</li> </ul>
Universal mounting hole Dia. 8H7	<ul style="list-style-type: none"> <li>• indicator can be flexibly replaced</li> <li>• Compatible with high-precision wireless transmission comparators</li> </ul>	Digital transformation barrier-free



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