

MarVision. Video Workshop Measuring Microscope QM 300

PRODUCT ADVANTAGES

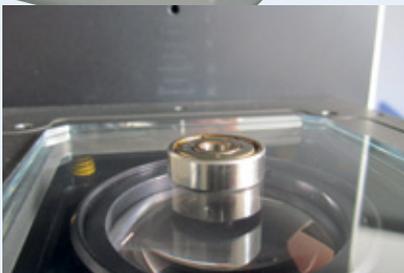
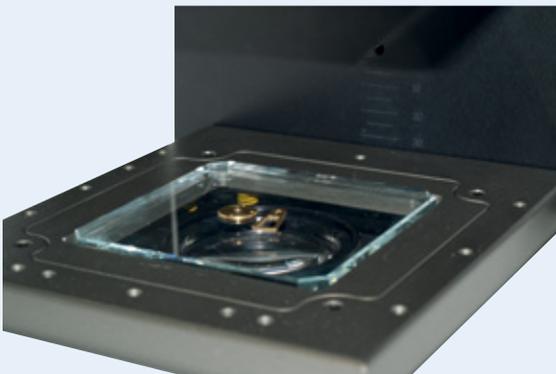


LED Ring light



Visual indicator of the height adjustment

Large supporting surface



Measure different work pieces in a matter of seconds



Height adjustment

Video Workshop Measuring Microscope MarVision QM 300 with M3-Software and Touchscreen-PC



QM 300

High resolution camera plus LED incident and transmitted light

User friendly measurement software



23" Touchscreen-PC

Illustration: Similar to illustration (depends upon the PC manufacturer)

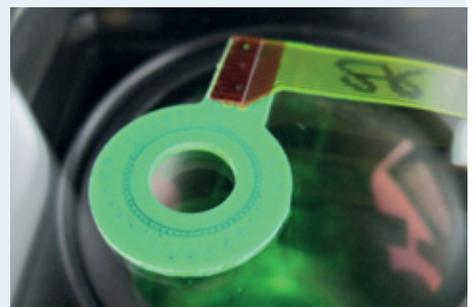
Example of Applications



Laser punched parts



Sieve



Circuit board

Technical Data

Measuring range / image field	mm	32 x 24	57 x 42	96 x 72
Height adjustment	mm		30	
Measurement error E ₂		4.0+L/50 (L in mm)	4.5+L/50 (L in mm)	7.5+L/50 (L in mm)
Camera system			5 Megapixel USB 3	
Incident light			LED ring light	
Transmitted light			LED telecentric	
Dimensions QM 300, D x W x H	mm	330 x 230 x 580	330 x 240 x 720	340 x 250 x 820
Order no.		4247800	4247801	4247802

Applications

- For measuring and / or the determination of geometric elements (points, lines, circles, distances, intersection etc.) via automatic edge detection, for example: punched and flexible parts, plastic components as well as electronic circuit boards.

See Industrial branch based solutions, from page 30 ff

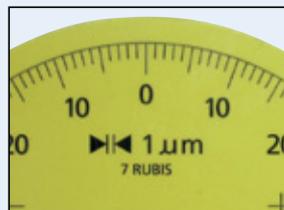
Features

- Telecentric fixed lens
- Integrated USB color camera
- LED ring light: dimmable
- LED transmitted light
- Height adjustable measuring table
- Large, high contrast backlit color LCD display
- Automatic edge detection
- Automatic measurement of all features of a component within the image field
- Depth of focus ca. 10 mm
- DXF function: compares measurement with the CAD drawing
- Measurement and evaluation functions for points, lines, circles, angles, distances and intersecting straight lines. "Magic" function is a time saving feature which automatically recognizes the geometric pattern of data points
- Simply create a measuring program with the Teach-In mode
- Easy program sequence due to on screen graphic guidance
- Lighting controls
- Operator prompts are available in several languages
- USB printer port
- USB port
- Updates can be obtained via an USB stick, thus future is secured
- Supplied with: Measuring Microscope, operating instructions in a PDF file, test certificate and a dust cover

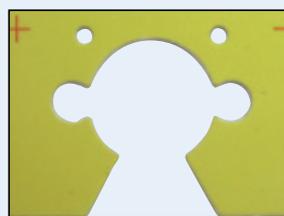
Range of Parts



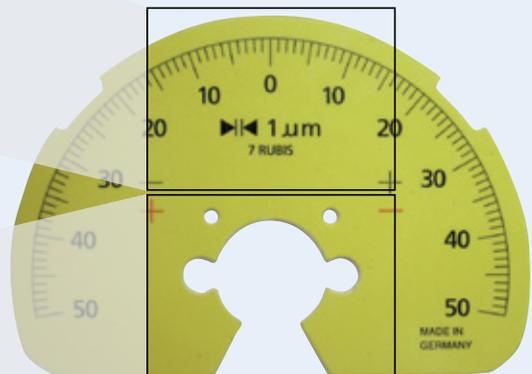
Punched parts



Scaling



Measure a section



Gears



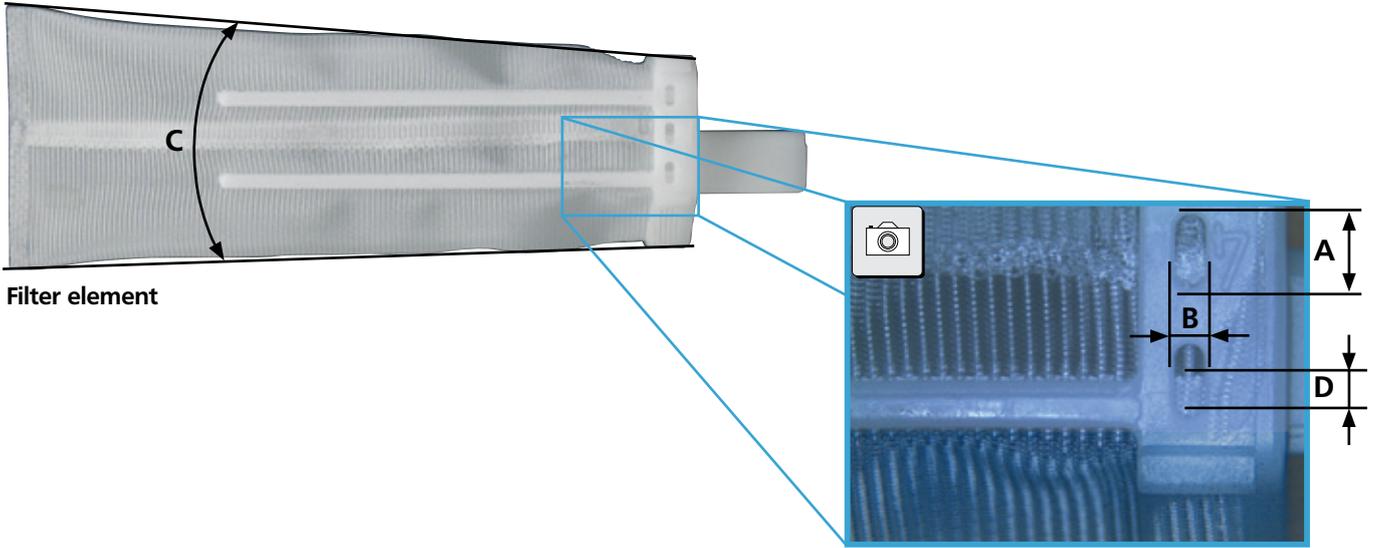
Rubber seals



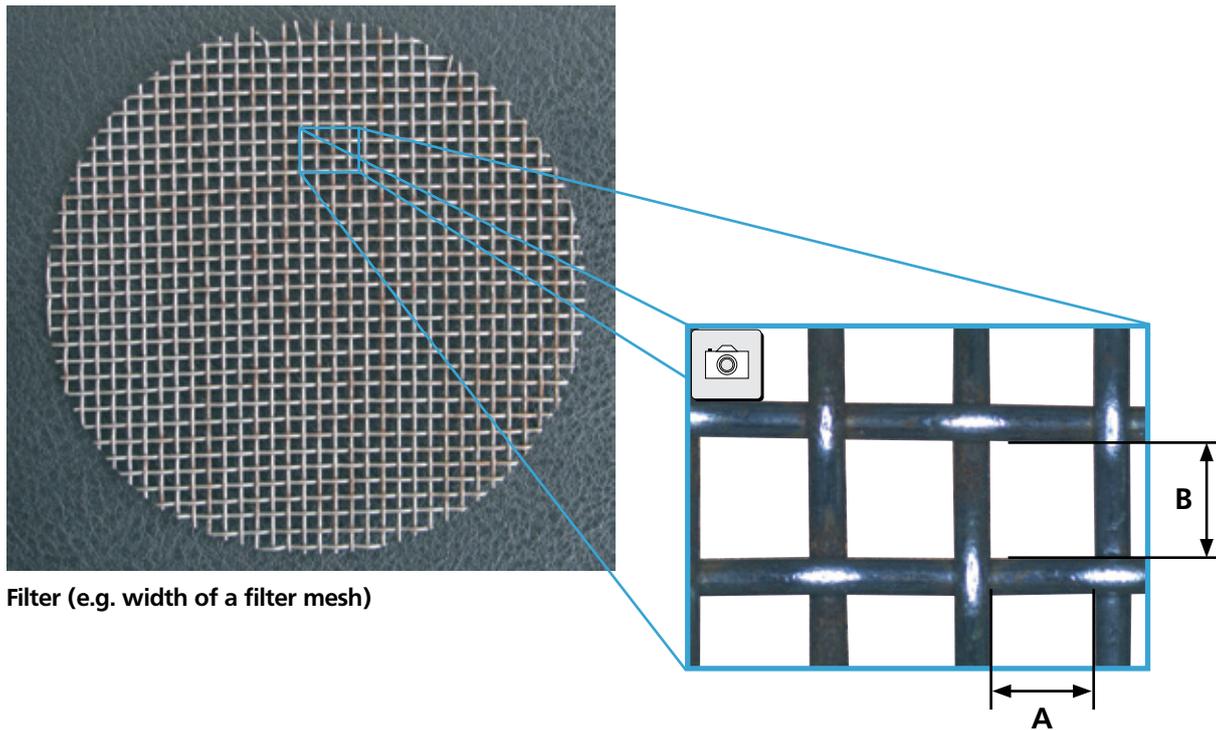
Incription



Industrial branch based solutions - Medical Technology (filters)



Filter element



Filter (e.g. width of a filter mesh)

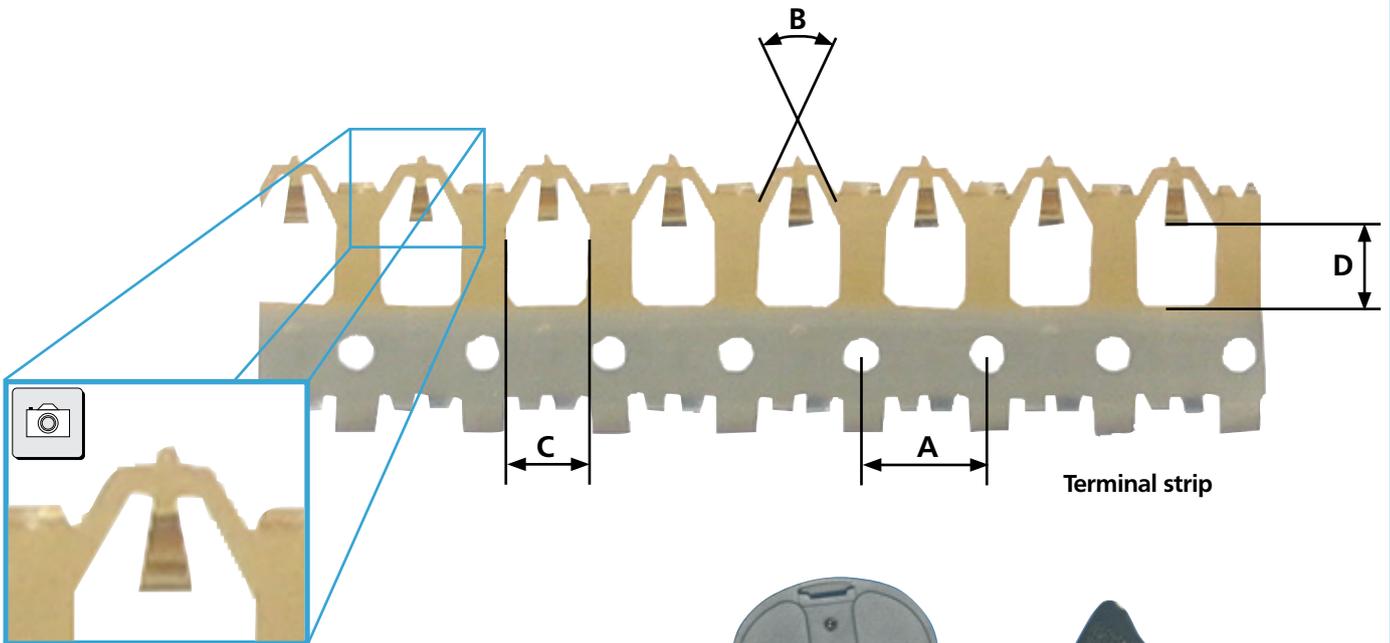
Recommended accessories:

- Ancillary lens 2.0x

- Optical inspection
- Save image

			A	B	C	D
SM 150	●					
SM 151	●	●				
SM 160	●					
SM 161	●	●				
MM 200	●		●	●		
MM 220	●		●	●	●	●
MM 320	●	●	●	●	●	●
QM 300	●	●	●	●	●	●

Industrial branch based solutions - Medical Technology



Terminal strip



Artificial knee joint



Cannulae / Needles



Test tubes



Implant screws

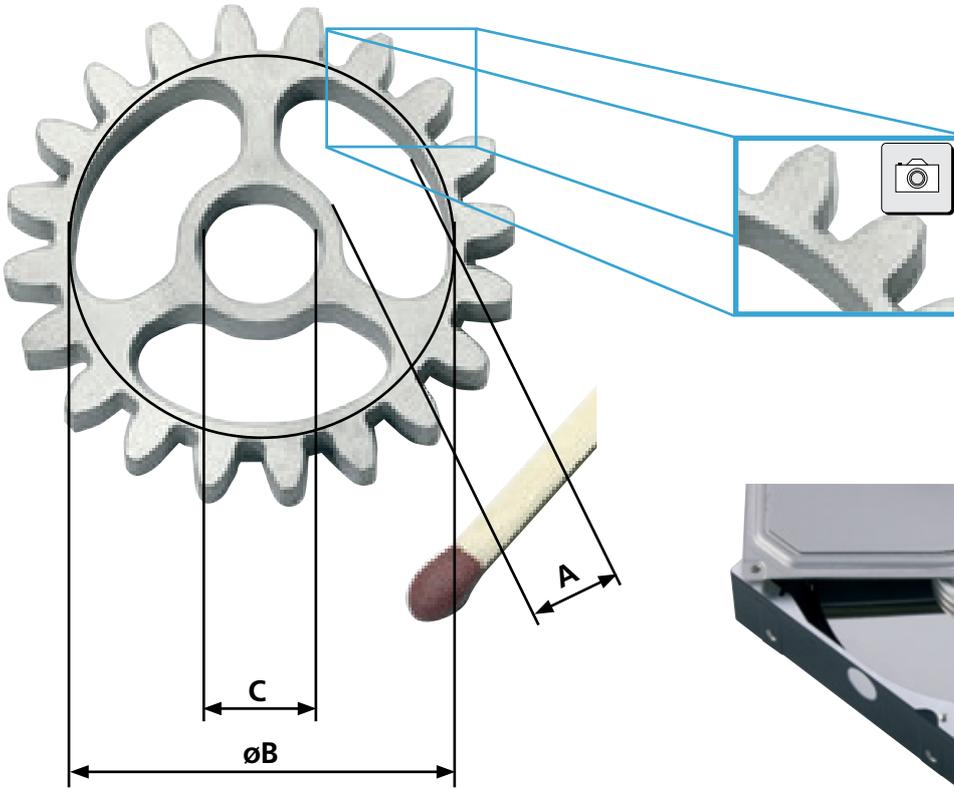
Recommended accessories:

- Telecentric LED transmitted light
- Prisma

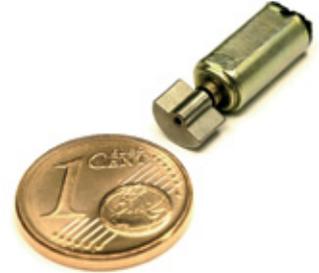
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SM 151	●	●				
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MM 200	●				●	●
MM 220	●		●	●	●	●
MM 320	●	●	●	●	●	●
QM 300	●	●	●	●	●	●

Industrial branch based solutions - Precision Engineering



Micro gears



Vibrating motor for a mobile phone



Hard disk drive



Wristwatch housing



A microdrive casing

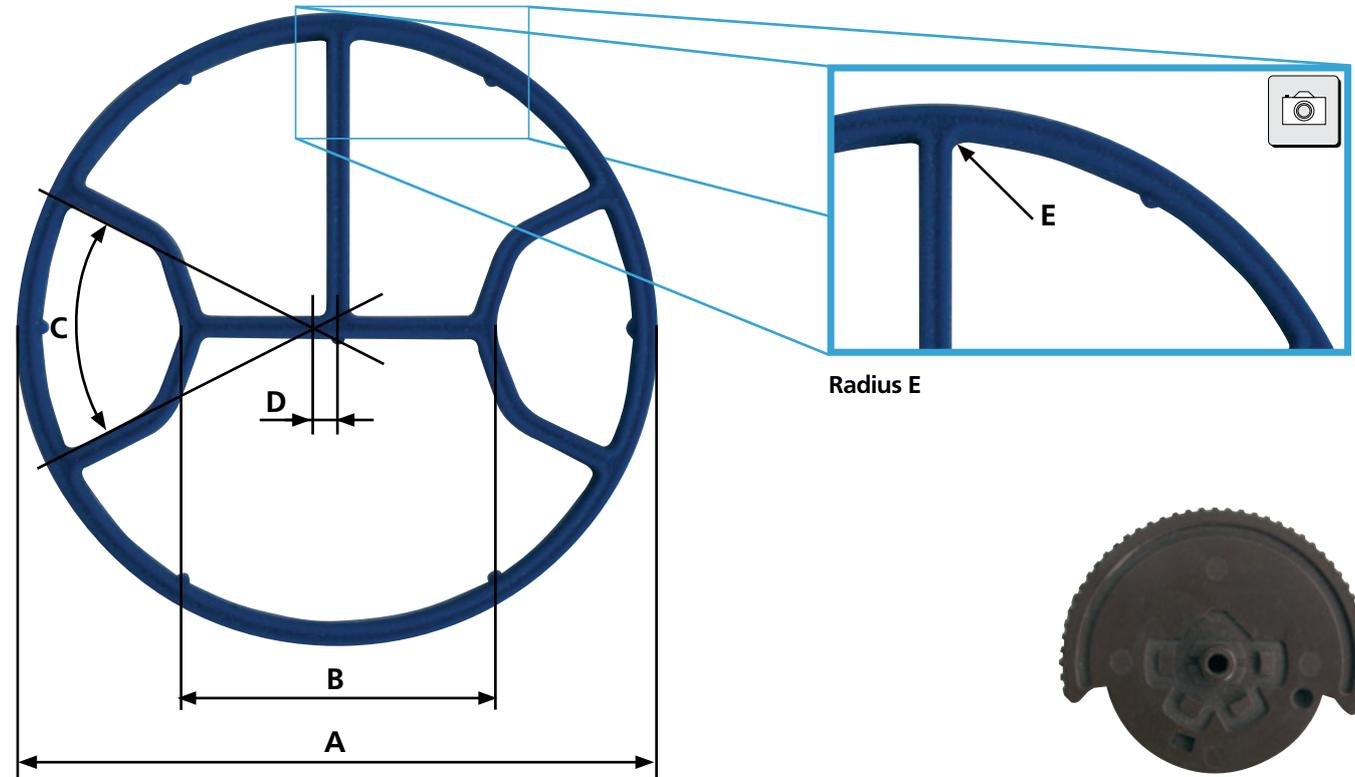
Recommended accessories:

- Ancillary lens 2.0x

- Optical inspection
- Save image

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SM 151	●	●			
SM 160	●				
SM 161	●	●			
MM 200	●				●
MM 220	●		●	●	●
MM 320	●	●	●	●	●
QM 300	●	●	●	●	●

Industrial branch based solutions - Plastics



Gasket / Seal



Adjusting / locating disk

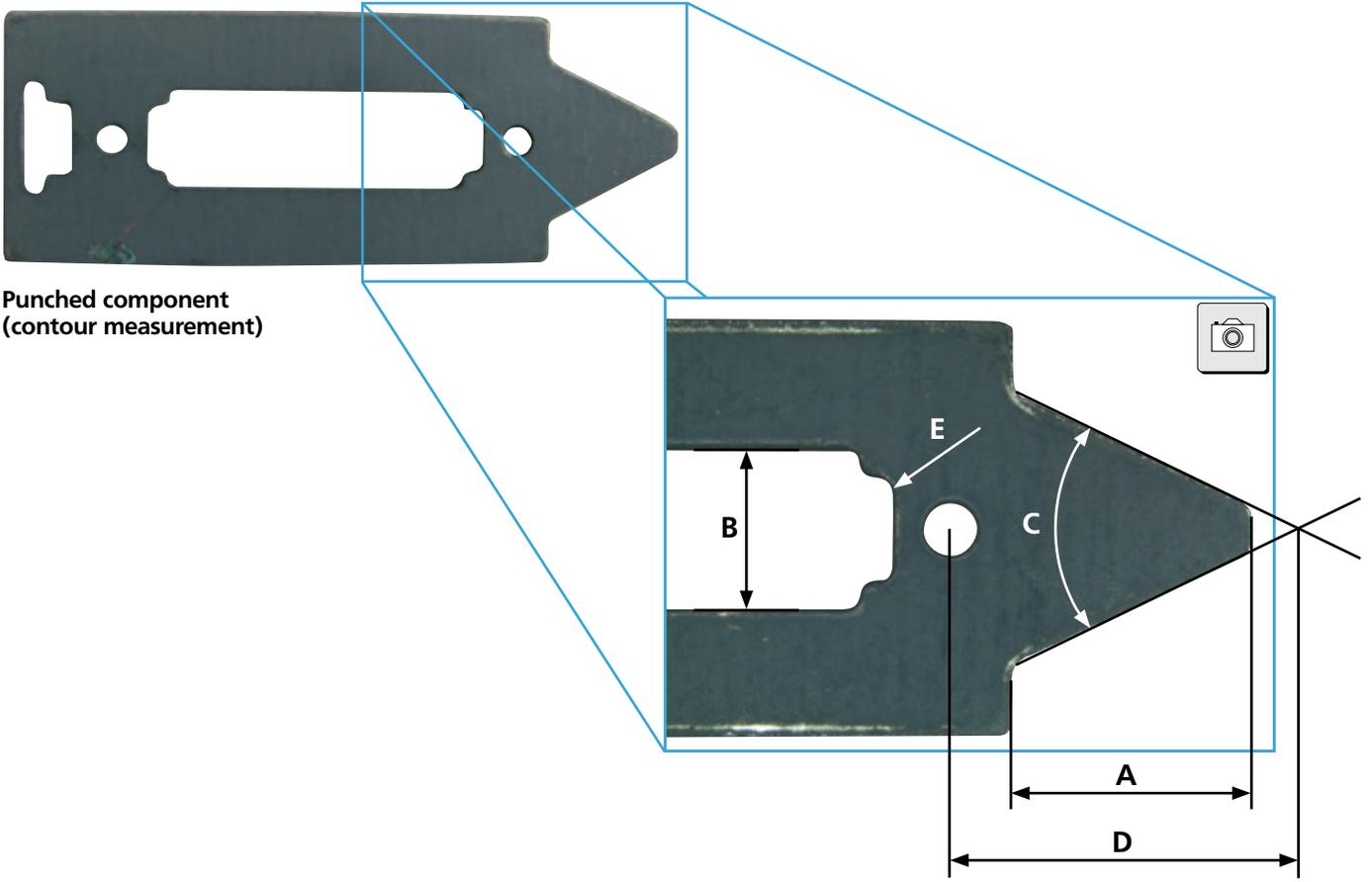


Catheter cap

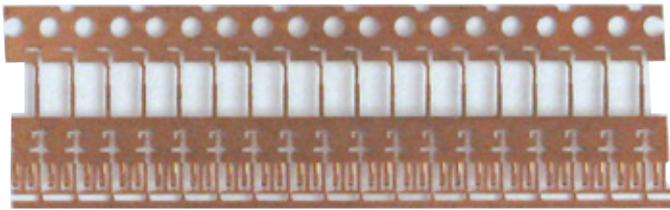
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SM 160	●						
SM 161	●	●					
MM 200	●		●	●			
MM 220	●		●	●	●	●	●
MM 320	●	●	●	●	●	●	●
QM 300	●	●	●	●	●	●	●

- Optical inspection
- Save image

Industrial branch based solutions - Engineering (punched parts)



Punched component (contour measurement)



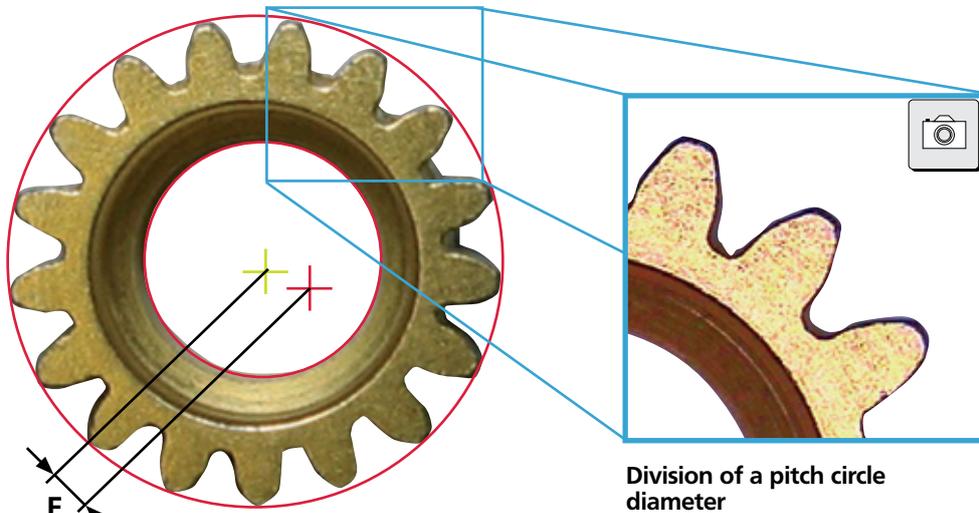
Recommended accessories:

- Stop bar 90°
- Ancillary lens 0.5x
- Ancillary lens 2.0x

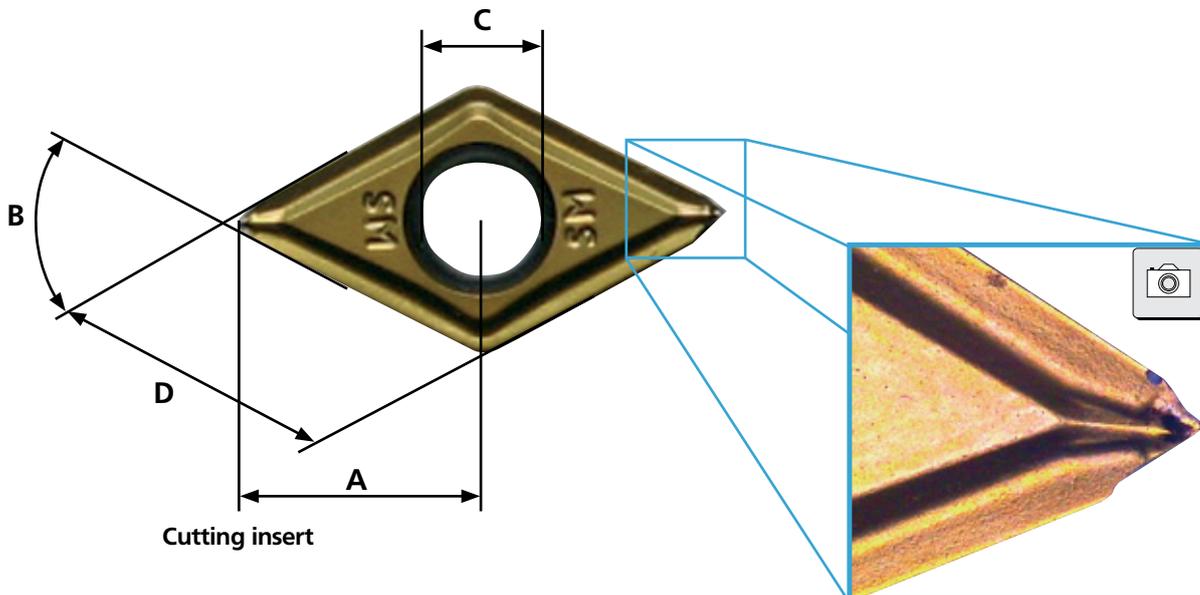
- Optical inspection
- Save image

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SM 160	●						
SM 161	●	●					
MM 200	●		●	●			
MM 220	●		●	●	●	●	●
MM 320	●	●	●	●	●	●	●
QM 300	●	●	●	●	●	●	●

Industrial branch based solutions - Engineering



Gear wheel (wristwatch housing)



Cutting insert

Blanking die

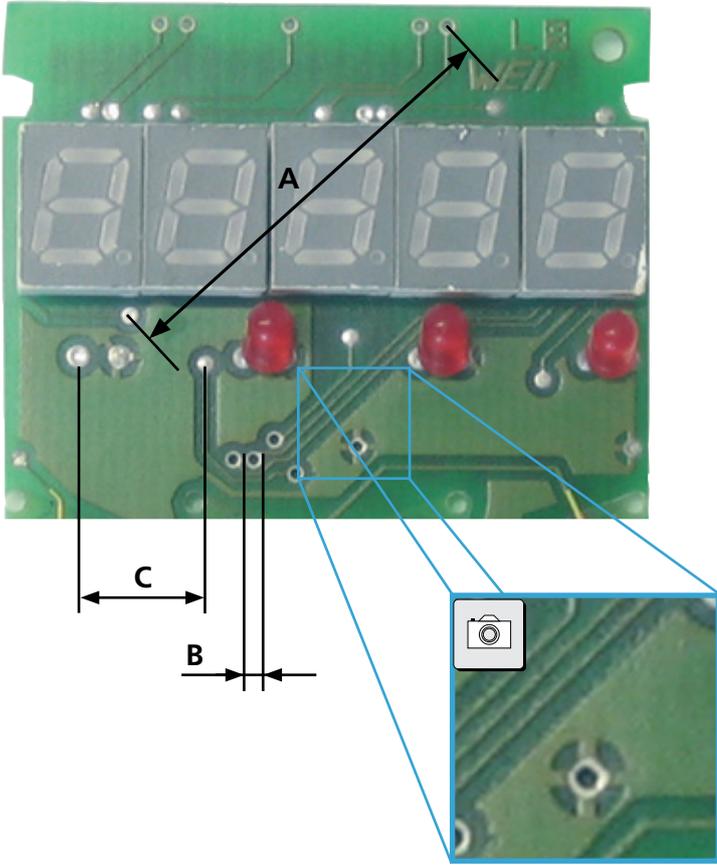
Recommended accessories:

- Telecentric LED transmitted light
- Precision Vise

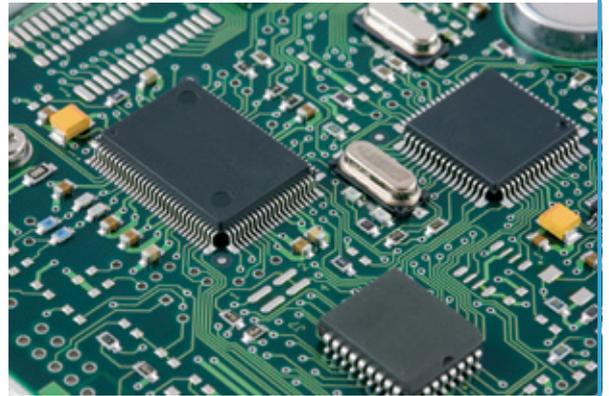
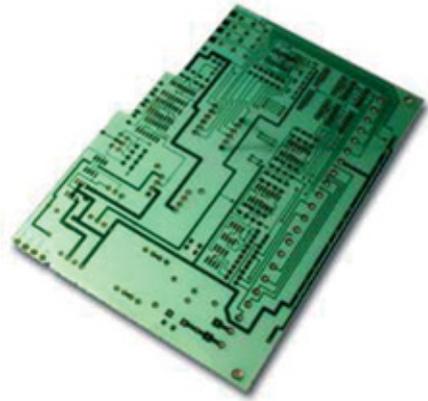
- Optical inspection
- Save image

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SM 151	●	●					
SM 160	●						
SM 161	●	●					
MM 200	●				●		
MM 220	●		●	●	●	●	●
MM 320	●	●	●	●	●	●	●
QM 300	●	●	●	●	●	●	●

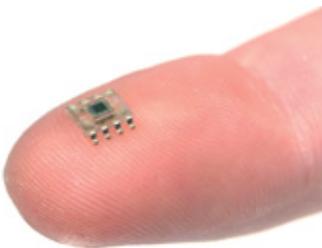
Industrial branch based solutions - Electronics Industry



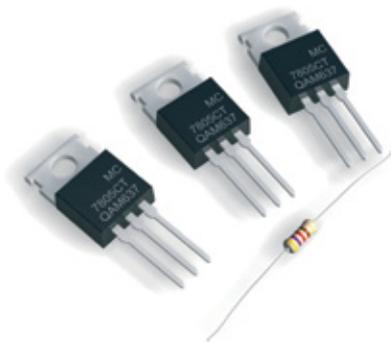
Width of a soldering line



Circuit boards



Micro chip



Resistors



Capacitors

Recommended accessories:

- Ancillary lens 0.5x
- Ancillary lens 2.0x

- Optical inspection
- Save image

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SM 150	●				
SM 151	●	●			
SM 160	●				
SM 161	●	●			
MM 200	●			●	
MM 220	●		●	●	●
MM 320	●	●	●	●	●
QM 300	●	●	●	●	●