

GEAR UP INNOVATIONS

From Idea to Serial Product

KATE LLC

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Measurement and inspection services

KATE LLC Quality control department cope with inspection all geometrical and functional characteristics of product:

- Linear and angular dimensions
- Form and position tolerances
- Involute splines and gears quality control
- Roughness
- Material hardness with Rockwell, Vickers and Brinell methods including hardness depth

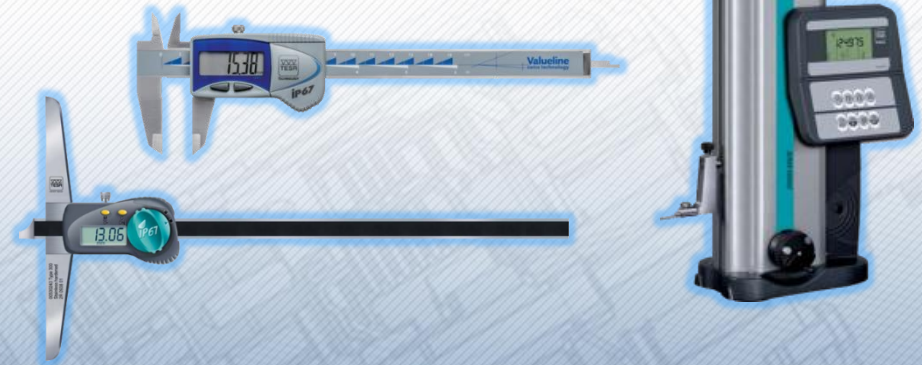
Department is equipped with modern measurement devices, calibrated and validated: TESA Technologies (Switzerland), Vogel (Germany), Mitutoyo (Japan), Hexagon Metrology (Sweden), EMCO-TEST (Austria), etc.

QC department has vast experience in inspection of a wide range of products.

Price for measurement and inspection services is formed based on work labour. This requires a drawing, model or a photo of the part with highlighted characteristics to be controlled.

Calipers

- Tesa digital calipers up to 300 mm
- Tesa digital depth calipers up to 300 mm
- Vogel groove calipers
- Tesa electronic height gage 0-700 mm



Micrometers

- Analog and digital micrometers 0-100 mm by Tesa, Mitotoyo



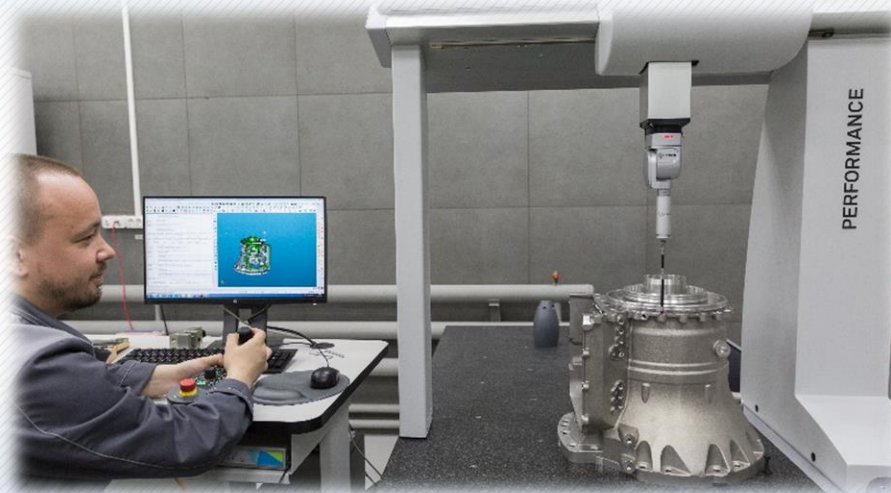
- Tesa 2-point and 3-point bore gauges



- Vogel internal micrometers

3D CMM

Inspection of complex geometry and gears is carried out with help of Hexagon Global Performance CMM equipped with scanning head.



PC-DMIS software allows to evaluate geometry of parts and generate a detailed inspection report with various visualization possibilities.

Quindos GEAR is used to control geometry of involute splines and gears manufactured according to **GOST, ISO, DIN** standards. Inspection can be made for spur and helix gears, outer and inner toothing.

Hardness measurement

- Rockwell, Super Rockwell and Brinell tester **Durajet G5**
- Vickers tester **Durascan**



Additional equipment

- Roughness testers TESA Rugosurf 90G, Rugosurf 20


All other equipment required to inspect parts of all kind:

- Gauge blocks
- Supports
- Feelers
- Clock and dial indicators
- Vice clamps, V-blocks
- Microscope



Reporting

Measurement and control results will be arranged into a report fitted to Customer requirements or on a Customer's template. Gear chart provided for gear inspection. Reporting examples:



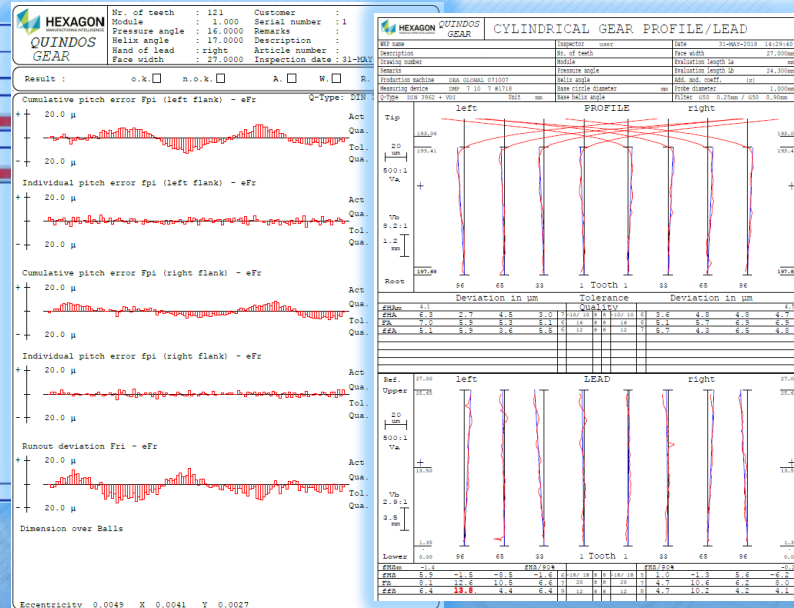
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Приложение 1. Карта замеров

№

055-20

№	Параметр	Нижний допуск	Верхний допуск	1	2	3	4	5	6	7	8	9	Коммент
4	61±0,5-0,0	60,50	61,00	60,95									
5	121±0,5-0,0	120,50	121,00	120,95									
7	100±0,5-0,0	99,50	100,00	99,95									
24	102,10±0,150-0,10	9,95	10,25	10,20	10,15								
25	107,30±0,250-0,20	107,25	107,75	107,65	107,55								
26	35±0,150-0,10	34,85	35,15	35,10	35,05								
27	5,9±0,150-0,10	5,75	6,05	5,95	5,85								
41	2,20±0,040-0,04	2,20	2,24	2,23	2,24								
44	60,08±0,100-0,10	219,74	220,20	220,15	220,10								
50	2,20±0,040-0,04	2,20	2,24	2,23	2,24								
51	16±0,120	16,00	16,12	16,10	16,11								
62	195,310±0,250-0,25	195,41	195,71	195,65	195,60								
35	910±0,5-0,0	90,00	91,00	90,95	90,90								
Описание с параметрами													
<div> <div>Примечание:</div> <div> <div>X</div> <div>Размер вне допусков</div> <div>OK</div> <div>Размер в допуске</div> <div>ND</div> <div>Размер не измерялся</div> </div> <div> <div>Да</div> <div>Деталь применяется</div> <div>Одн</div> <div>Деталь применяется с отклонением</div> <div>нет</div> <div>Деталь не применяется</div> </div> <div> <div>K</div> <div>Коррект</div> <div>MT</div> <div>Измеряемое поперечное</div> </div> </div>													



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WELCOME TO COOPERATE!

THANK YOU!

KATE LLC
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