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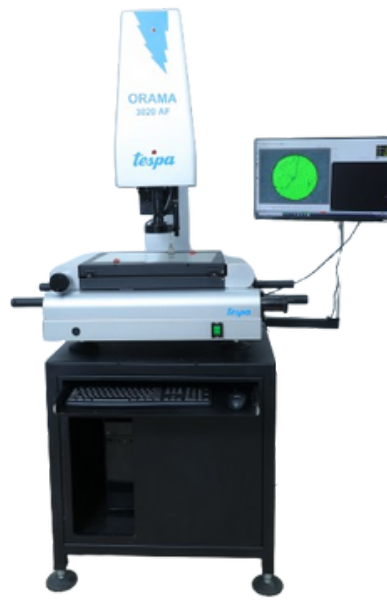
ONE STOP SHOP FOR ALL YOUR METROLOGY REQUIREMENTS

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ORAMA MANUAL

- C Type Construction
- Table Top Model
- Cross Table Design
- Supports latest Windows Operating System
- Multisensor System with Touch Trigger Probe option
- SPC facility



RENISHAW TTP TP 20

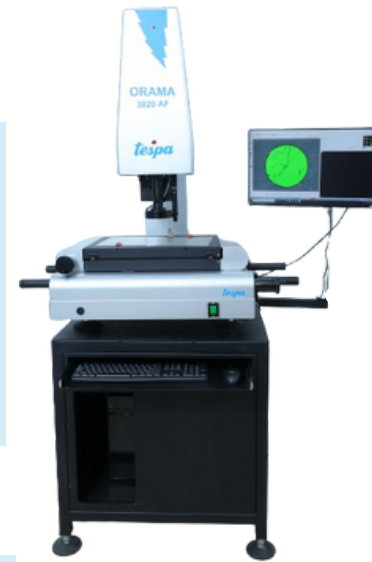
- 5 way Touch Probing
- Quick and Repeatable Magnetic Joint
- SF/MF/EF Modules available as Option

Technical Information

Machine Specification	ORAMA MANUAL 2015	ORAMA MANUAL 3020	ORAMA MANUAL 4030
Measuring Range - X Axis	200mm	300mm	400mm
Measuring Range - Y Axis	150mm	200mm	300mm
Travel Range - Z Axis	200mm	200mm	200mm
Machine Base	Aluminium	Granite	
Variants	Manual with Z Auto Focus		
Machine Construction	'C' Frame Construction with Cross Table Design		
Video System	1. Standard : 1/3" High Resolution 1.3 MP Colour CMOS, USB Camera (1280 x 1024) 2. Optimal : 1/2" High Resolution 1.4 MP Colour CCD, USB Camera (1360 x 1024)		
Imaging Optics	1. Standard : 1:6.5 x Magnification Lens 2. Optimal : 1:6.5 x Magnification Motorized Lens		
Scale Resolution	0.5 µm on Manual Machine / 0.1 µm on CNC Machine		
Lightning System	3 Rings, 4 Quad, 84 LED Whit Ring Light with Collimated Green LED Backlight as Standard		
**Accuracy(Exy)	±3+L/175 µm (Where "L" is Measuring Length in MM)		
**Accuracy(Ez)	±5+L/100 µm (Where "L" is Measuring Length in MM)		
Maximum Work Piece Weight	25kgs		

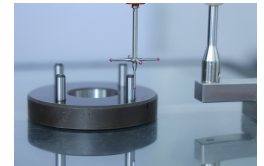
ORAMA CNC

- Servo Motor Drive System
- High Resolution Steel Scale with 0.05 Microns as Options
- High Machine Accuracy
- Multi Sensor Machine with TTP & Point / Line Laser Option
- Motorized Lens Supplied as Standard



RENISHAW TTP TP 20

- 5 way Touch Probing
- Quick and Repeatable Magnetic Joint
- SF/MF/EF Modules Available as Option
- 6 Port Automatic Module Changing Rack
- Programmable through Software



Technical Information

Machine Specification	ORAMA CNC 3020	ORAMA CNC 4030
Measuring Range - X Axis	300mm	400mm
Measuring Range - Y Axis	200mm	300mm
Travel Range - Z Axis	200mm	200mm
Machine Base	Granite	
Variants	CNC	
Machine Construction	'C' Frame construction with cross table design	
Video System	1. Standard : 1/3" High Resolution 1.3 MP Colour CMOS, GigE Camera (1280 x 1024) 2. Optimal : 1/2" High Resolution 1.4 MP Colour CCD, GigE Camera (1360 x 1024)	
Imaging Optics	1. Standard : 1:6.5 x Magnification Motorized Lens 2. Optimal : 1:6.5 x Magnification Motorized Lens	
Scale Resolution	0.5 µm on Manual Machine / 0.1 µm on CNC Machine	
Lightning System	4 Rings, 8 Quad, 84 LED Whit Ring Light with Collimated Green LED Backlight as Standard	
**Accuracy(Exy)	±2.5+L/175 µm (Where "L" is Measuring Length in MM)	
**Accuracy(Ez)	±3+L/100 µm (Where "L" is Measuring Length in MM)	
Maximum work Piece Weight	25kgs	