HEIGHT MEASURING INSTRUMENT

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Optima



Ultima



Ultima *Plus*



Platina



Platina *Plus*

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Optima



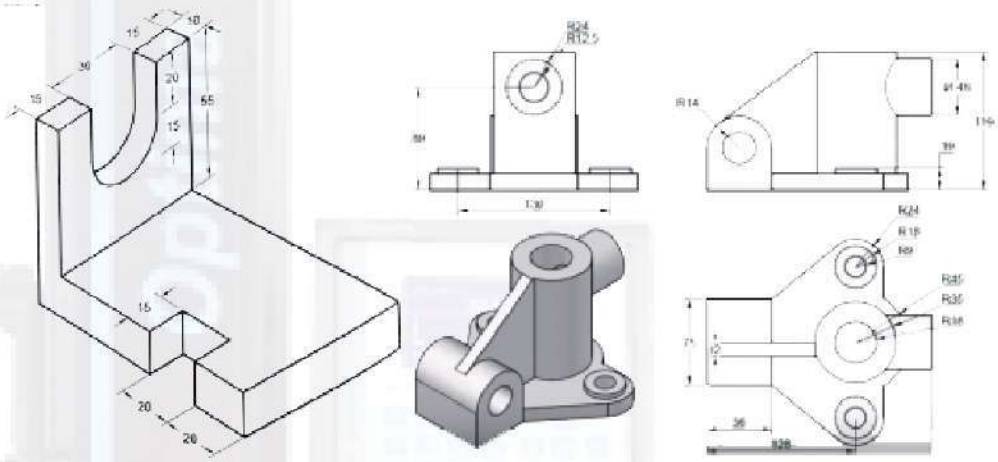
Optima H Manual M/C

Optima M Motorized M/C

- **Ergonomically designed controller with TFT Screen**
- **Soft touch Keyboard**
- **Air Bearing Operation**
- **Multiple reference points**
- **Passive temperature compensation**
- **Data storage in USB Drive**
- **Li Ion Battery**







Specifications	Optima M/ H	Optima M/ H	Optima M/ H
Measuring range	450 mm	700 mm	1000 mm
Expandable range	765 mm/830 mm	1015 mm/1080 mm	1315 mm/1380 mm
Resolution	0.01 / 0.005 / 0.001 / 0.0005 mm		
Repeatability (2σ)	On Plane ≤ 0.0015 mm On Bore ≤ 0.0030 mm		
Max. Measurement speed	600 mm/sec		
Measuring force	1.2 N ± 0.2		
Max. Permissible error *	2.5+L / 250 µm (L= Length in mm)		
Squareness **	0.0065 mm	0.010 mm	0.015 mm
Air Cushion	Standard		
Operation time (Battery)	20 Hrs		
Operation temperature	10°C to 40°C		
Weight	23 kg	27 kg	30 kg
Standard probe	Carbide Ball Ø 6 X 48 mm		

* Values valid with standard ball probe at temperature 20°C ± 0.5°C ** With electronic probe Magnascan50

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Ultima



Ultima H
Manual M/C

Ultima M
Motorized M/C

- **TFT Screen with soft touch keyboard**
- **Multiple reference points**
- **Active temperature compensation**
- **Data storage in USB Drive**
- **1000 Step memory**
- **Programming, Tolerancing and SPC**
- **Li Ion Battery**

2D





Specifications	Ultima M/ H	Ultima M/ H	Ultima M/ H
Measuring range	450 mm	700 mm	1000 mm
Expandable range	830 mm	1080 mm	1380 mm
Resolution	0.010 / 0.005 / 0.001 / 0.0005 / 0.0001 mm		
Repeatability (2σ)	On Plane ≤ 0.0010 mm On Bore ≤ 0.0020 mm		
Max. Measurement speed	1000 mm/sec		
Measuring force	1.0 N ± 0.2		
Max. Permissible error *	2 + L / 330 µm (L= Length in mm)		
Squareness **	0.005 mm	0.006 mm	0.010 mm
Air Cushion	Standard		
Operation time (Battery)	16 Hrs		
Operation temperature	10°C to 40°C		
Weight	23 kg	27 kg	30 kg
Standard probe	Ruby Ball Ø 6 X 48 mm		

* Values valid with standard ball probe at temperature 20°C ± 0.5°C

** With electronic probe Magnascan50

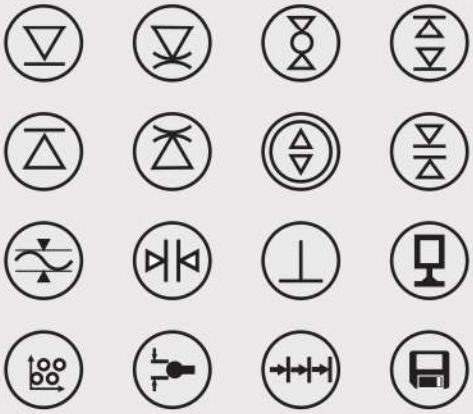
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Platina

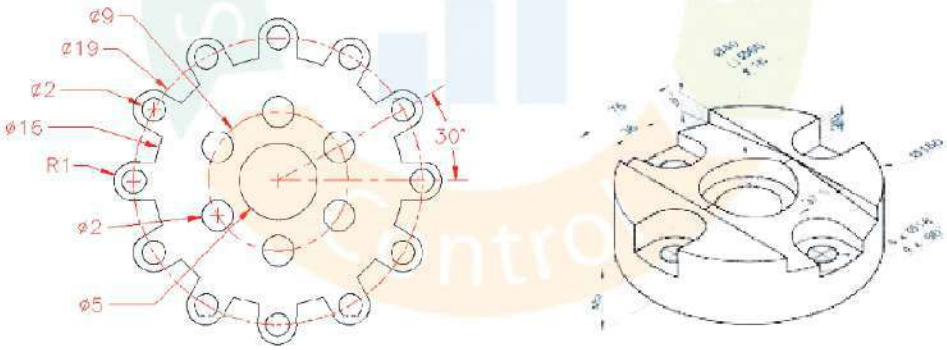


Platina
Motorized M/C





- **Motorized probe movement**
- **TFT Screen with soft touch keyboard**
- **Ideally suitable for calibration Laboratories**
- **Data storage on USB Flash Drive**
- **Direct Export to DXF**
- **Programming, Tolerancing and SPC**
- **Measurement with Long Length Probe**
- **Active Temperature Compensation**
- **Quick Manual Sqaureness measurement**
- **Li Ion Battery**



Specifications	Platina	Platina	Platina
Measuring range	450 mm	700 mm	1000 mm
Expandable range	765 mm	1015 mm	1315 mm
Resolution	0.010 / 0.005 / 0.001 / 0.0005 / 0.0001 mm		
Repeatability (2σ)	On Plane ≤ 0.0005 mm On Bore ≤ 0.0010 mm		
Max. Measurement speed	1000 mm/sec		
Measuring force	1.0 N ± 0.2		
Max. Permissible error *	1.1 + L / 1000 µm (L= Length in mm)		
Squareness **	0.005 mm	0.006 mm	0.010 mm
Air Cushion	Standard		
Operation time (Battery)	16 Hrs		
Operation temperature	10°C to 40°C		
Weight	23 kg	27 kg	30 kg
Standard probe	Ruby Ball Ø 6 X 48 mm		

* Values valid with standard ball probe at temperature 20°C ± 0.5°C ** With electronic probe Magnascan50

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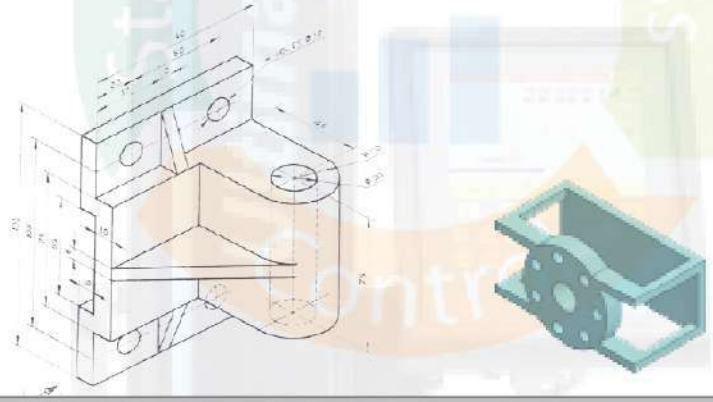
Ultima *Plus*



Ultima Plus

2D

- Manual & Motorized movement with Handwheel
- TFT Screen with soft touch keyboard
- Auto detection of Measuring Cycle
- Data storage on USB Flash Drive
- Direct Export to DXF
- Programming, Tolerancing and SPC
- Active Temperature Compensation
- Quick Manual Sqaureness measurement
- Li Ion Battery
- Measurement with Long Length Probe



Specifications	Ultima *Plus*	Ultima *Plus*	Ultima *Plus*
Measuring range	450 mm	700 mm	1000 mm
Expandable range	830 mm	1080 mm	1380 mm
Resolution	0.010 / 0.005 / 0.001 / 0.0005 / 0.0001 mm		
Repeatability (2σ)	On Plane ≤ 0.0005 mm On Bore ≤ 0.0010 mm		
Max. Measurement speed	1000 mm/sec		
Measuring force	1.0 N ± 0.2		
Max. Permissible error *	2 + L / 500 µm (L= Length in mm)		
Squareness **	0.005 mm	0.006 mm	0.010 mm
Air Cushion	Standard		
Operation time (Battery)	16 Hrs		
Operation temperature	10°C to 40°C		
Weight	23 kg	27 kg	30 kg
Standard probe	Ruby Ball Ø 6 X 48 mm		

* Values valid with standard ball probe at temperature 20°C ± 0.5°C

** With electronic probe Magnascan50

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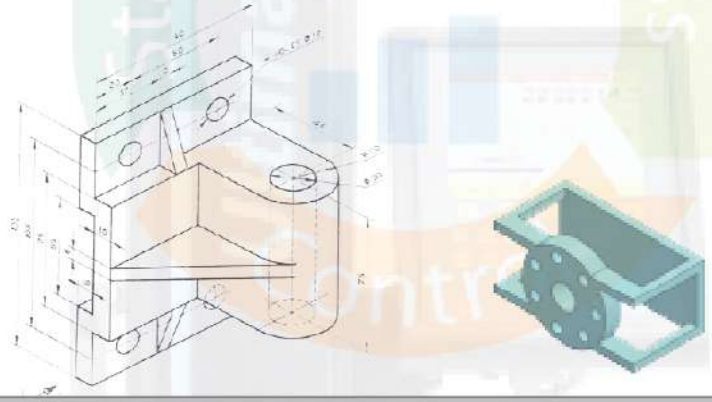
Platina *Plus*



Platina Plus

2D

- Manual & Motorized movement with Handwheel
- TFT Screen with soft touch keyboard
- Auto detection of Measuring Cycle
- Data storage on USB Flash Drive
- Direct Export to DXF
- Programming, Tolerancing and SPC
- Active Temperature Compensation
- Quick Manual Sqaureness measurement
- Li Ion Battery
- Measurement with Long Length Probe



Specifications	Platina *Plus*	Platina *Plus*	Platina *Plus*
Measuring range	450 mm	700 mm	1000 mm
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Resolution	0.010 / 0.005 / 0.001 / 0.0005 / 0.0001 mm		
Repeatability (2σ)	On Plane ≤ 0.0005 mm On Bore ≤ 0.0010 mm		
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* Values valid with standard ball probe at temperature 20°C ± 0.5°C

** With electronic probe Magnascan50

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Accesories

Probes for all models

1. Ruby Ball probe
Ø 1mm X 48mm Concentric
HEMR - BC - 0148

2. Ruby Ball probe
Ø 1.5mm X 48mm Concentric
HEMR - BC - 1548

3. Ruby Ball probe
Ø 2mm X 48mm Eccentric
HEMR - BE - 0248

4. Ruby Ball probe
Ø 2mm X 48mm Concentric
HEMR - BC - 0248

5. Ruby Ball probe
Ø 3mm X 48mm Concentric
HEMR - BC - 0348

6. Ruby Ball probe
Ø 3mm X 48mm Eccentric
HEMR - BE - 0348

7. Ruby Ball probe
Ø 3mm X 72mm Eccentric
HEMR - BE - 0372

8. Ruby Ball probe
Ø 3mm X 100mm Eccentric
HEMR - BE - 03A0

9. Ruby Ball probe
Ø 3mm X 100mm Concentric
HEMR - BC - 03A0

10. Ruby Ball probe
Ø 5mm X 48mm Eccentric
HEMR - BE - 0548

11. Ruby Ball probe
Ø 6mm X 48mm Eccentric
HEMR - BE - 0648

12. Carbide Ball probe
Ø 4mm X 48mm Eccentric
HEMC - BE - 0448

13. Carbide Ball probe
Ø 4mm X 72mm Eccentric
HEMR - BE - 0472

14. Carbide Ball probe
Ø 4mm X 72mm Concentric
HEMC - BC - 0472

15. Carbide Ball probe
Ø 4mm X 100mm Eccentric
HEMC - BE - 04A0

16. Carbide ball probe
Ø 6mm X 48mm Eccentric
HEMC - BE - 0648

17. Carbide ball probe
Ø 10mm X 48mm Concentric
HEMC - BC - 1048

18. Carbide ball probe
Ø 10mm X 100mm Concentric
HEMC - BC - 10A0

19. Disc probe
Ø 10mm X 48mm
HEMA - DC - 1048

20. Disc probe
Ø 20mm X 48mm
HEMA - DC - 2048

21. Carbide pin probe for groove and thread Ø 1mm X 48mm
HEMC - GT - 0148

22. Carbide Pin probe for groove and thread Ø 1.5mm X 48mm
HEMC - GT - 1548

23. Carbide Pin probe for groove and thread Ø 2mm X 48mm
HEMC - GT - 0248

24. Depth probe 78mm with replaceable insert
HEMA - DP - 0078



Accessory Box A
HEMA - 0A - 0000
Contains
3, 12, 17, 20, 23, 24



Accessory Box B
HEMA - 0B - 0000
Contains
1, 3, 11, 12, 14, 17, 18, 19, 20, 23, 24



Accessory Box C
HEMA - 0C - 0000
Contains
1, 2, 3, 6, 10, 11, 12, 14, 15, 17, 18,19, 20, 21, 22, 23, 24

Special Probes for Ultima & Platina

1. Long Length Disc Probe
Ø 20mm X 200mm
HEMA - DC - 2020

2. Long Length Disc Probe
Ø 20mm X 225mm
HEMA - DC - 2022

3. Long Length Ball Probe
Ø 6mm X 225mm
HEMC - BE - 0622

4. Long Length Ball Probe
Ø 6mm X 300mm
HEMC - BE - 0630

5. Long Length Ball Probe
Carbon Fibre Ø 6mm X 300mm
HEML - BE - 0630

Universal Probe set Box HEMA-UN-0000 consist of

1. Probe Holder

2. Probe with Ø 1mm

3. Probe with Ø 2mm

4. Probe with Ø 3mm

5. Taper Probe

6. Probe Extension Length - 20mm

7. Pin for groove / blind bores measurement

8. Cylindrical pin for depth measuremet

Accesories



Magnascan50
(For Squareness measurement)
HEMA - MG - 0050



Setting Master
HEMA - CA - 0020 (Height - 40mm)
HEMA - CA - 0021 (Height - 250mm)



Demonstration Job
HEMA-CA-0030



Magnascan Holder
HEMA - MG - 0000

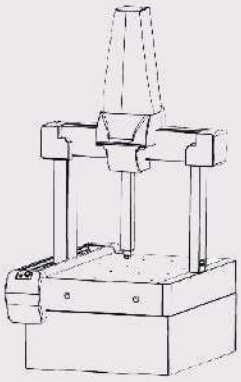


Bluetooth Module
HEMA-CA-0050

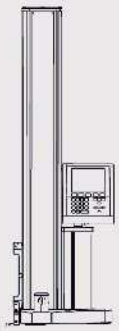


Thermal Printer
HEMA-CA-0040

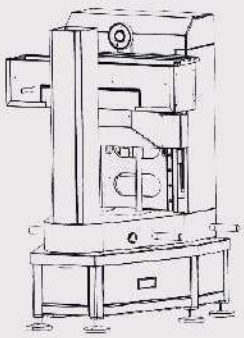
Our Product Range



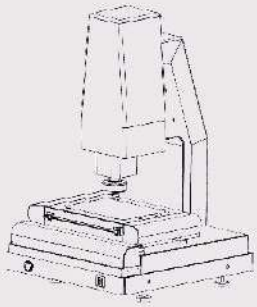
Co ordinate Measuring Machine



Digital Height Gauge



Horizontal Vision Measuring Machine



Vision Measuring Machine

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