



**Optima**



**Ultima**



**Ultima *Plus***



**Platina**










**Platina *Plus***

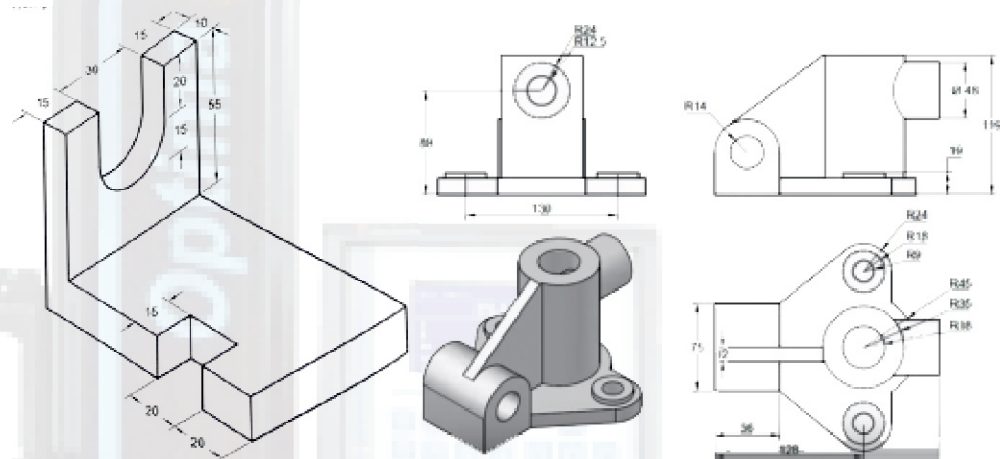


# Optima



**Optima H**      **Optima M**  
Manual M/C   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		

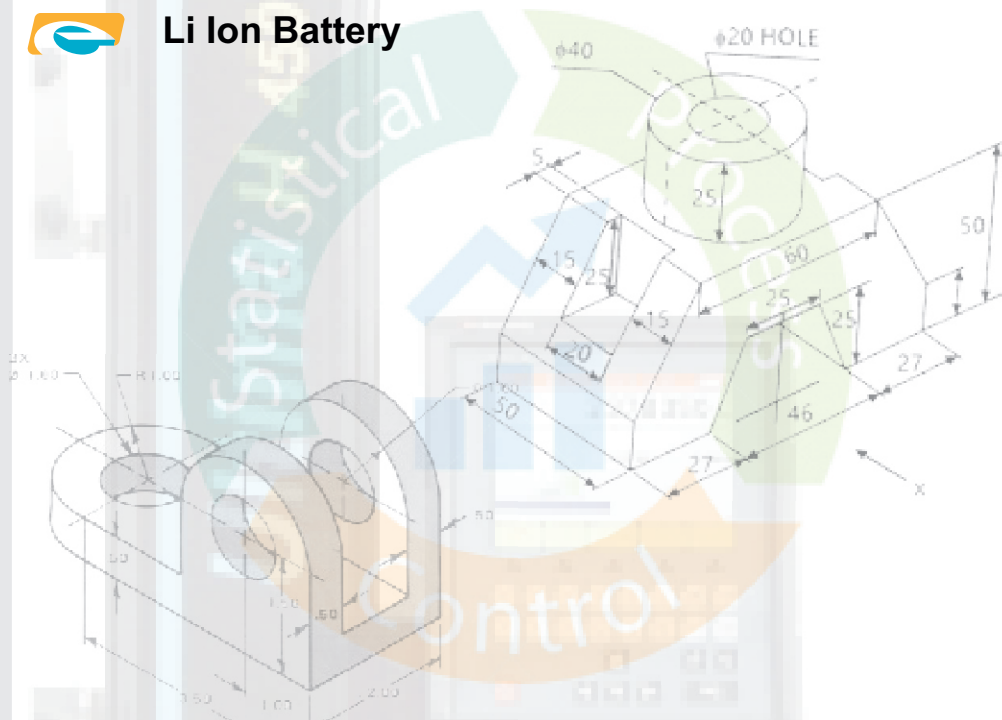
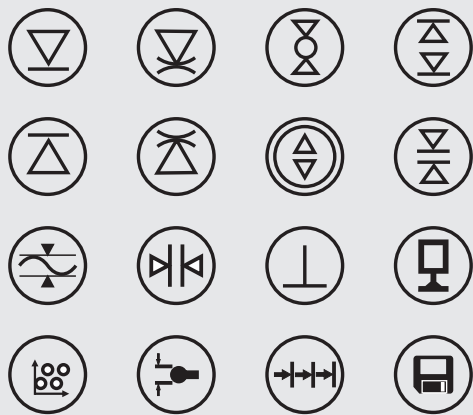
\* Values valid with standard ball probe at temperature 20°C ± 0.5°C

\*\* With electronic probe Magnascan50

# Ultima



-  **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**



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

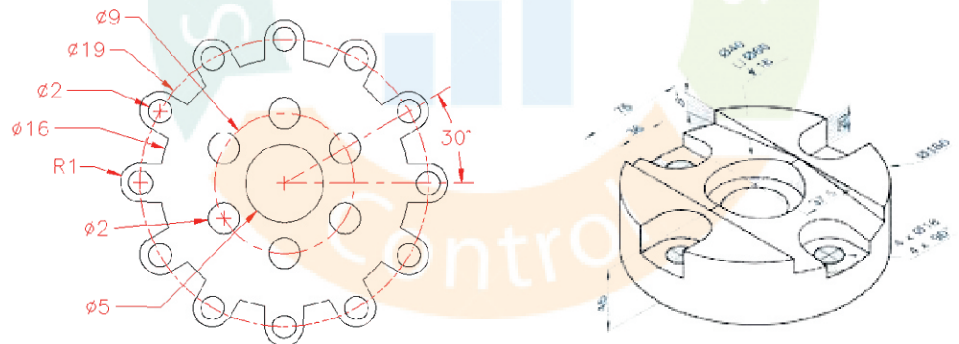
# Platina



**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 Squareness 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		

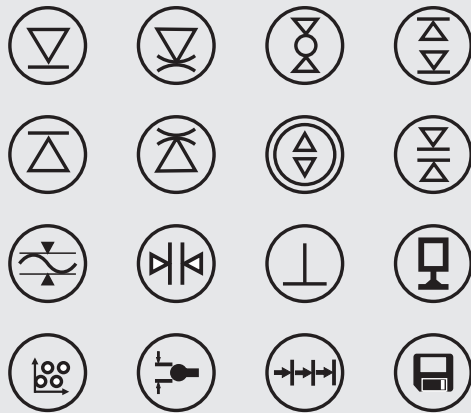
\* Values valid with standard ball probe at temperature 20°C ± 0.5°C











\*\* With electronic probe Magnascan50

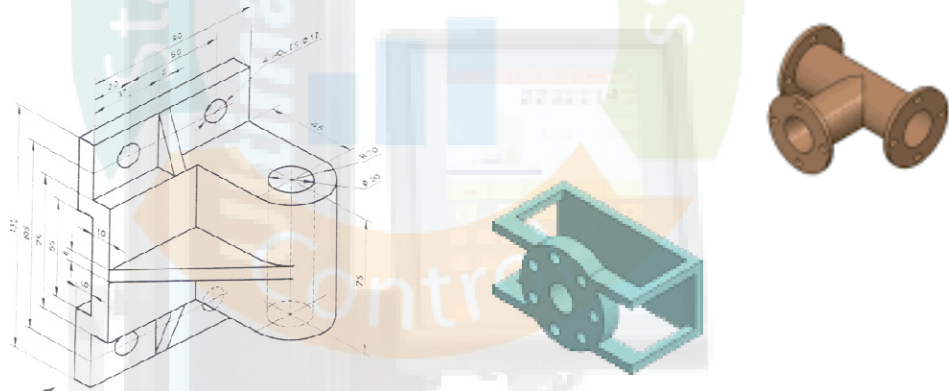
# Ultima Plus



Ultima Plus



-  **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 Squareness 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		

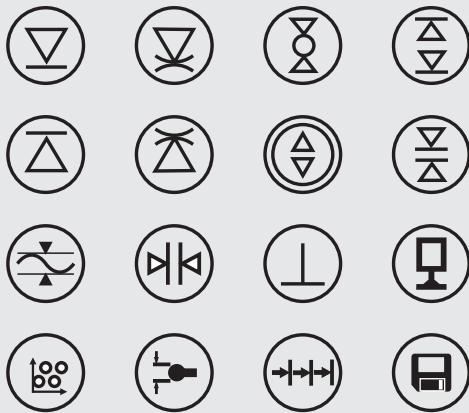
\* Values valid with standard ball probe at temperature 20°C ± 0.5°C











\*\* With electronic probe Magnscan50

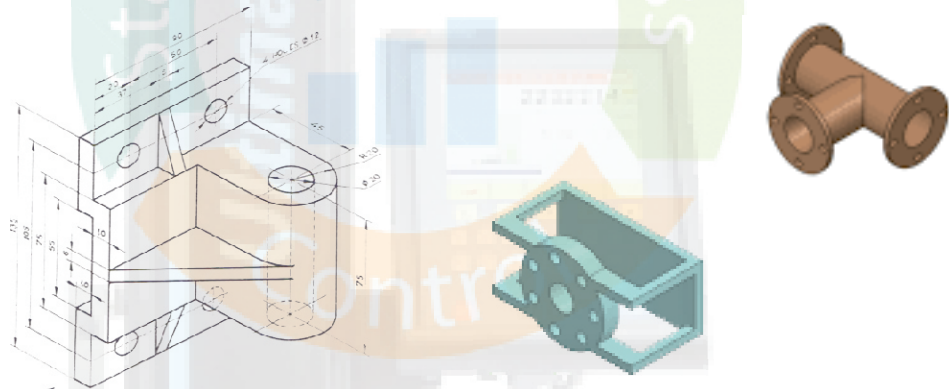
# Platina Plus



Platina Plus



-  **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 Squareness measurement**
-  **Li Ion Battery**
-  **Measurement with Long Length Probe**



Specifications	Platina Plus	Platina Plus	Platina 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 *	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

# Accessories

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**



\* Note - These are common accessories for all Height Gauge models

# Accessories

Accessory Box A

**HEMA - 0A - 0000**

Contains  
3, 7, 11, 14, 17, 18



Accessory Box B

**HEMA - 0B - 0000**

Contains  
1,3,6,7,8,11,12,13,14,17,18,19



Accessory Box C

**HEMA - 0C - 0000**

Contains = 1 - 19



## Special Probes for Ultima & Platina

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



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



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



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



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



**Universal Probe set Box**  
**HEMA-UN-0000**

Probe Holder



Taper Probe



Probe with Ø 1mm



Probe Extension  
Length - 20mm



Probe with Ø 2mm



Pin for groove / blind bores  
measurement



Probe with Ø 3mm



Cylindrical pin for depth  
measuremet





# Accessories



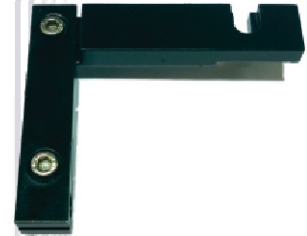
Magnascan50 - Suitable all models.  
(For Squareness measurement)  
**HEMA - MG - 0050**



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



Bluetooth Module  
**HEMA-CA-0050**



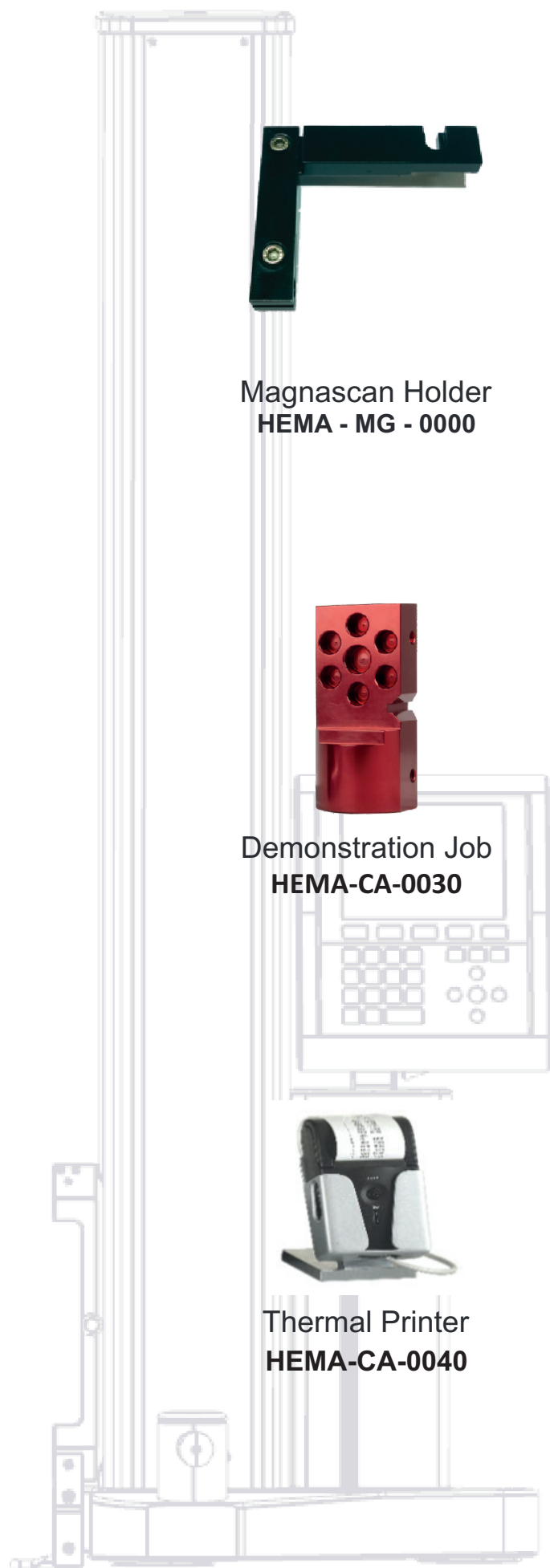
Magnascan Holder  
**HEMA - MG - 0000**



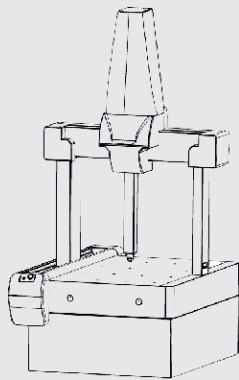
Demonstration Job  
**HEMA-CA-0030**



Thermal Printer  
**HEMA-CA-0040**



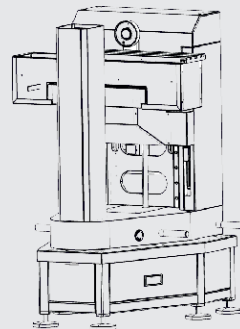
## ***Our Product Range***



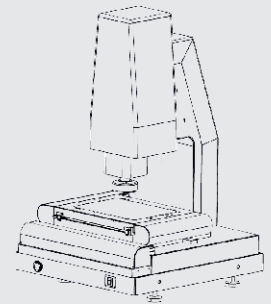
***Co ordinate Measuring  
Machine***



***Digital Height  
Gauge***



***Horizontal Vision  
Measuring Machine***



***Vision Measuring  
Machine***

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 **electronica**  
**mechatronic systems**

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