

Catalog No. E11000

Introduction to Precision Measuring Instrument Solutions

— Medical Device and Pharmaceutical Industries Edition -



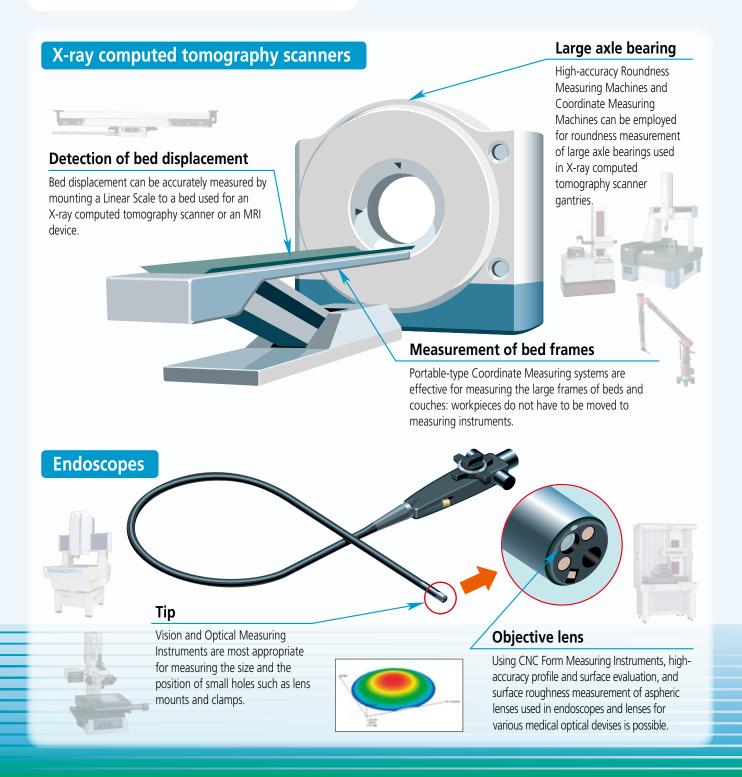






Mitutoyo's precision m production s



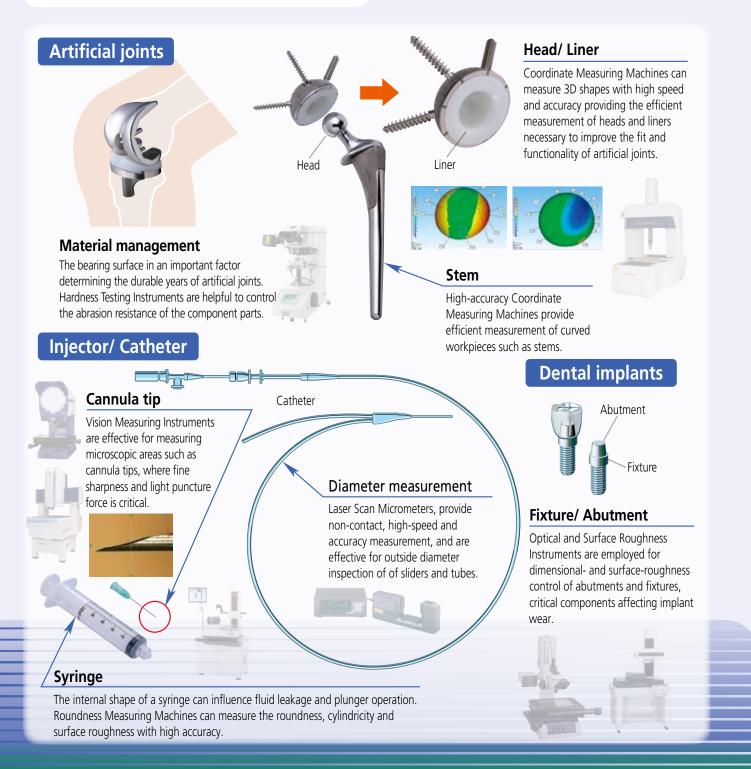


For various fields including the research, development and production of nepharmaceutical goods

Small Tools (calipers, micrometers, dial indicators, etc.) and Linear Gauges are helpful for dimension and form measurement of various work products.

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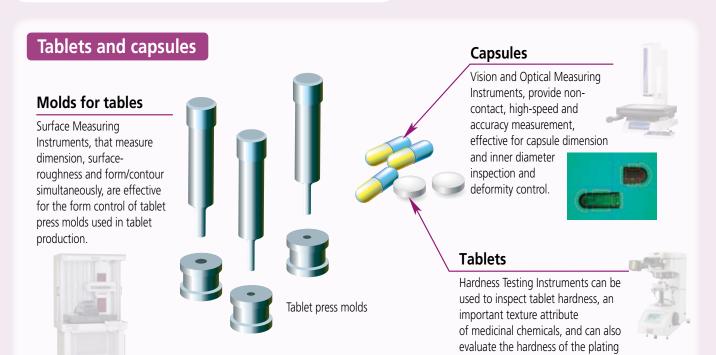


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kpieces such as materials, component parts and finished

e development and ical goods









Soft material object

layers of tablet press molds.

The Litematic is very appropriate for measuring deformable workpieces.

Measurement of thickness is accomplished with low measuring force, and minute impact on the base.





Mouths of containers/ bottles

Optical and Form Measuring Instruments are effective for the measurement of screws thread form, bottle diameters and container openings, where control of air-tight seals is critical. Surface Roughness instruments can be used to inspect openings where surface roughness can affect the sealed state.





Precision Measuring Instruments Supporting Medical Devices and Pharmaceutical Industries

The followings are application examples for Mitutoyo's precision measuring instruments.

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		Application	Mitutoyo's Precision Measuring Instruments Coordinate Vision Measuring Form Measuring Optical Measuring Songer Systems Testing Scales Small Tools								
			Measuring Instruments	Instruments	Instruments	Measuring Instruments	Sensor Systems	Instruments	Scales	Small Tools	
Field	d of Application							H	<u></u> _		
S	X-ray computed tomography scanner	Measurement of gantries's large bearings	•							•	
Diagnostic devices		Measurement of bed frame dimensions	•							•	
nostic		Bed positioning control							•		
Diag		Dimensional measurement of component parts	•		•			•		•	
	X-Ray diagnostic equipment	Dimensional measurement of component parts			•					•	
	Proton beam medical treatment equipment	Form and dimensional measurement of boluses and collimaters	•							a	
	Injection syringes	Form measurement of syringes	•							()	
		Form measurement of plunger parts		•						a	
		Dimensional and angle measurement of injection needle tips		•	•	•	•			a	
		Hardness measurement of cannulas		•				a			
	Suture needles	Dimensional and angle measurement of needle tips		•	•		•			a	
	Artificial hip and knee joints	Dimensional and form measurement of heads and liners	•	•	•			(a)		(a)	
	Artificial bones	Dimensional and form measurement of fixation and connection plate parts for heads and liners	•	•						()	
	Dental implants	Measurement of fixtures and abutments						(a)		()	
Medical Treatment Devices	Catheters	Outside diameter measurement					•			•	
nent D		Elasticity measurement						•			
Treatn	Stents	Dimensional and hardness measurement of parts				•		•		a	
edical	Contact lenses	Form and thickness measurement			•		•			•	
Σ	Dental instruments	Measurement of dental unit frames	•							•	
		Dimensional measurement of hand pieces	•							a	
		Dimensional measurement of drills		•						a	
		Hardness measurement of metallic materials						(a)			
	Electric and magnetic therapy apparatuses	Dimensional measurement of component parts								(a)	
	Hearing aids	Dimensional measurement of component parts								(a)	
	Pacemakers	Dimensional measurement of component parts								a	
	Steel equipments	Dimensional and hardness measurement of parts	•					•		()	
	Blood drawing, fluid and blood transfusion instruments	Dimensional and form measurement of joints								()	
	Tablets	Dimensional measurement								•	
ıtical		Hardness measurement of tablets						(a)			
Pharmaceutical		Dimensional measurement								•	
Phar	Antiphlogistic analgetic for external use	Thickness and surface roughness measurement					•			•	
	Containers and ampules	Dimensional measurement								•	
Metal molds	Metal molds for tablet press	Dimensional, form and hardness measurement	•		•	•	•	()		•	
Meta	Molds for various plastic products	Dimensional, form and hardness measurement	•	•	•		•	(a)		()	

Remarks:

Scales: Linear Scales

Names of the pecision measuring instruments presented in this leaflet are classified into the products mentioned above.

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Coordinate Measuring Machines

Vision Measuring Systems

Form Measurement

Optical Measuring

Sensor Systems

Test Equipment and Seismometers

Digital Scale and DRO Systems

Small Tool Instruments and Data Management

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