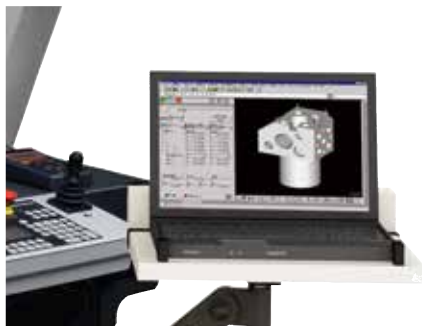




XYZAX mju NEX

 Dedicated catalog is available.

Compact CNC coordinate measuring machine which realizes energy saving with stable measuring accuracy



Laptop PC Model
(Optional only with Calypso)



XYZAX mju NEX 5/8/4-C6
Monitor arm specification for the domestic market of Japan*
*The standard specification for markets outside of Japan is the computer rack-type

The monitor arm specification integrated into a desktop computer (standard model for the domestic market of Japan) further saves space

Compact Design (Eliminated 40% of footprint)

*Comparison with our existing machines

The most compact footprint in its class. It enables to select an installation space easily.

Hybrid Guideway Technology Energy Saving Performance: 75% less air consumption

*Comparison with our existing machines

High rigidity linear guideways on X-, Y (right)- and Z-axes and a reliable air bearing on Y (left)-axis employ hybrid guideway technology. Moreover, it achieves one-fourth of air consumption compared with our existing machines. It enables to start with only electricity using a compact air compressor (option).

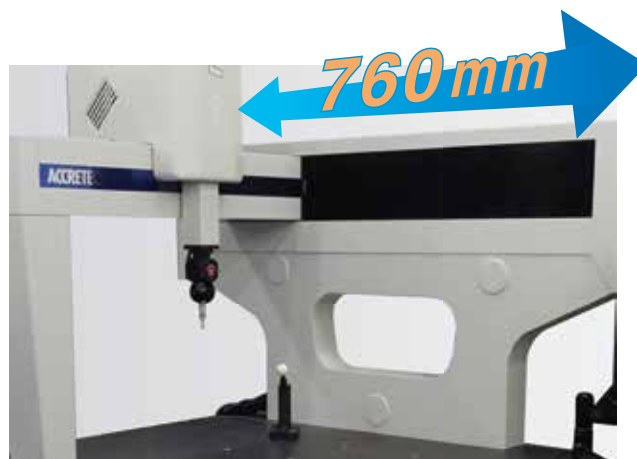
Eliminate 73% of power consumption Eliminate 73% of CO₂ emission from power consumption

*Comparison with our existing machines

Reduction of power consumption contributes to cut running costs. This environmentally-friendly machine also reduces the CO₂ emission resulting from power consumption.

A new line-up of 5/8/4 size with Y-axis measuring range of 760 mm

A new size with Y-axis measuring range of 760 mm is offered to enable measurement of larger workpieces.



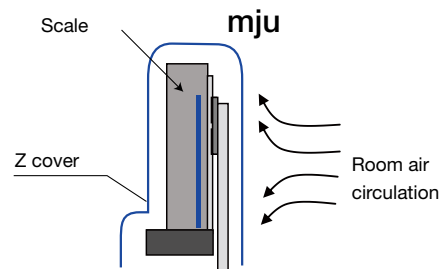
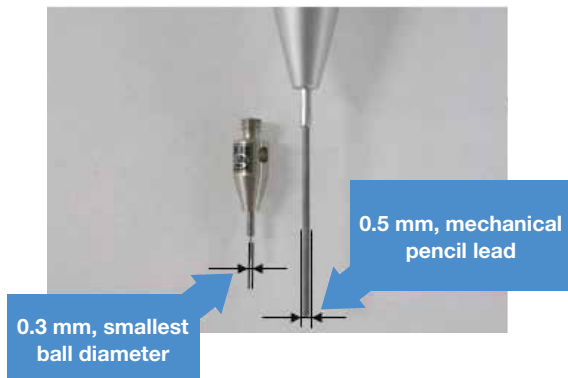
Environment Resistant Design

Bellows are equipped against dust on X-and Y-axes as standard. An air bearing prevents dust from Y-axis (left).
Z-axis scale is mounted on Z-axis column inside of Z-cover for steady air condition.
Temperature compensation is implemented as standard.

Smallest Stylus Ball Diameter: Φ 0.3 mm

Stylus with smallest ball diameter is appropriate for measurements of small workpieces and extra small holes.

*For conditions at the time of use, see the note for the specifications table on the next page.



Deliverable through common door frame

Compact design makes it possible to deliver through a common door. As it is not necessary to break the wall for delivery, no extra cost is required.

Item	Type of transportation	Standard transport dimension	Minimum transport dimension	Separated transport dimension
mju NEX 5/5/4 size	Depth (mm)	1090	1000	1090
	Width (mm)	1080	1033	1080
	Height (mm)	2112	2096	1570
mju NEX 5/8/4 size	Depth (mm)	1410	1320	1410
	Width (mm)	1080	1033	1080
	Height (mm)	2112	2096	1595

Probe System



Automatic touch trigger probe corresponding to Max. 300 mm extension.
Horizontal rotation angle: $\pm 180^\circ$
Vertical rotation angle: 0 to $+105^\circ$
Indexing steps: 7.5° /step
<For TP200B>
Stylus length: Max. 100 mm with GF Stylus
Extension bar: Max. 200 mm



Automatic touch trigger probe utilizes power of Coordinate Measuring Machine (TP20 Built-in)
Horizontal/vertical rotation angle: 15° steps

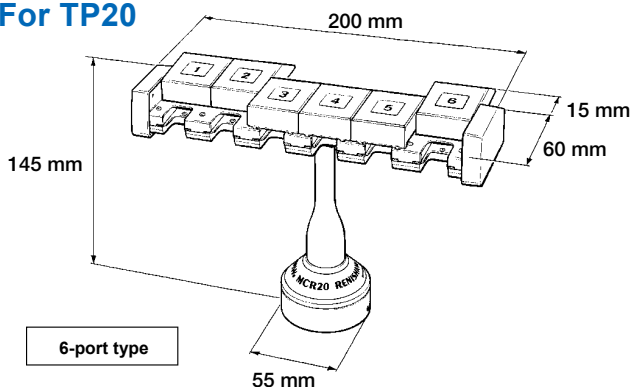


Horizontal rotation angle: 15° /step
Vertical rotation angle: Fixed at optional angle
Extension bar: Max. 200 mm
<For TP200B>
Horizontal rotation angle: 15° /step
Vertical rotation angle: Fixed at optional angle
(Maximum permissible error of length measurement: E_0 , MPE (μm) $2.2 + L/250$)

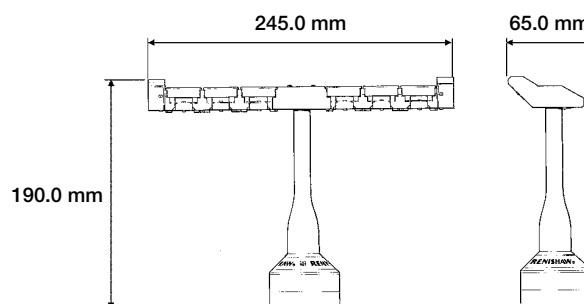
SCR200/MCR20 module change rack (Option)

Module change rack enables automated changing of TP20/TP200B stylus modules and improves measuring efficiency. MCR is designed to store up to six TP20 probe modules for automatic changing under measurement program control and to protect them from dust.

■For TP20



■For TP200B



Specifications

Model			XYZAX mju NEX		
			5/5/4	5/8/4	
Measuring range	X-axis	(mm)	510		
	Y-axis	(mm)	460		
	Z-axis	(mm)	410		
Length measuring method			Linear scale system		
Minimum unit			(μm) 0.01		
Measurement accuracy*1	TP200B	Maximum permissible error of length measurement E0, MPE E150, MPE	(μm) 2.2 + L/250 2.7 + L/250		
		Maximum permissible of the repeatability range R0, MPL	(μm) 1.4		
		Maximum permissible single-stylus form error PFTU, MPE	(μm) 2.5		
	TP20	Maximum permissible error of length measurement E0, MPE E150, MPE	(μm) 2.7 + L/250 3.2 + L/250		
		Maximum permissible of the repeatability range R0, MPL	(μm) 1.8		
		Maximum permissible single-stylus form error PFTU, MPE	(μm) 2.7		
	RTP20	Maximum permissible error of length measurement E0, MPE E150, MPE	(μm) 2.7 + L/250		
		Maximum permissible of the repeatability range R0, MPL	(μm) 2.0		
		Maximum permissible single-stylus form error PFTU, MPE	(μm) 3.3		
Guide system of each axis			Linear guide with air bearings		
Table	Material		Gabbro		
	Effective width (X)		(mm) 700		
	Effective depth (Y)		(mm) 900 1150		
	Height from floor		(mm) 725		
	Flatness		Class JIS 1		
	Fixing screw for object to be measured		M10 internal screw		
Workpiece	Max. height		(mm) 520		
	Max. mass		(kg) 200		
Drive speed	Max. acceleration/deceleration		(mm/sec²) 1732		
	Variable speed range	(mm/sec)	Auto measurement mode 0.01 to 433 (Stepless control)		
		(mm/sec)	Joystick and manual mode (Automatic measurement) 0 to 120 (Stepless control)		
	Measuring speed		(mm/sec) Joystick and manual mode (Automatic measurement) 0 to 5		
Accuracy guarantee environmental temperature conditions	Environment temperature		(°C) 18 to 22		
	Temperature changes	(°C/hour)	1.0		
		(°C/day)	2.0		
	Temperature gradient		(°C/m) 1.0		
Air supply	Supply pressure / Working pressure		(MPa) 0.40 to 0.69 / 0.30		
	Consumption		(NL/min) 10		
Power supply	Voltage		(V/%) AC100 ±10 (grounding required)		
	Power consumption		(W) 801		
External dimensions and mass	External dimensions	Width	Monitor arm specification	(mm) 1145 1110	
			1745 (including data processing unit)		
		Depth	Computer rack specification (mm) 1080		
			1805 (including data processing unit)		
			Monitor arm specification	(mm) 1256 1536	
			1745 (including data processing unit) 2000 (including data processing unit)		
		Computer rack specification	(mm) 1256 1536		
		2020 (including data processing unit) 2300 (including data processing unit)			
		Height		(mm) 2170	
		Body mass		(kg) 660 (including data processing unit) 920 (including data processing unit)	
Minimum ceiling height		(mm) 2320			
Machine height at transport*2		(mm) 2112			

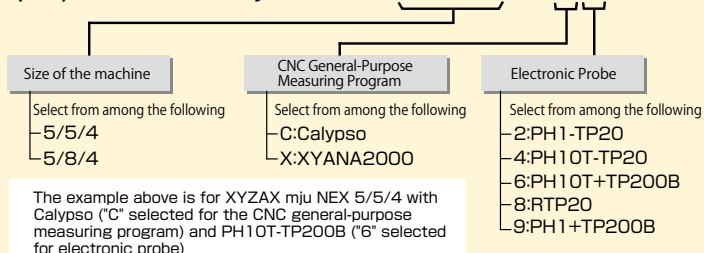
*1 The testing and evaluation methods for E0, MPE, E150, MPE and R0, MPL conform to JIS B 7440-2: 2013 (ISO 10360-2: 2009). Test and evaluation methods for PFTU, MPE are based on JIS B7440-5: 2013 (ISO 10360-5: 2010).
 •TP20, RTP20...LF module and the standard stylus
 •TP200B...SF Module and Standard stylus
 Standard stylus specification: Tip is $\phi 4$ mm, L20 mm, Renishaw made custom-order stylus

*2 Be sure to check the height of passageways, and, in particular, the height of doors and other openings to be used when the machine is delivered. The height of openings needs to be specified each machine height at transport plus about 200 mm to allow for the dollies used to move the machines.

Note: The following conditions are recommended when using a stylus of $\phi 0.3$ mm.
 •Combination of TP20/RTP20 and LF module and the stylus should be at least 20 mm in length (including the extension).

Basic System Configuration

(Example) XYZAX mju NEX 5/5/4 - C6



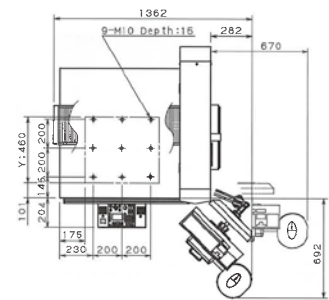
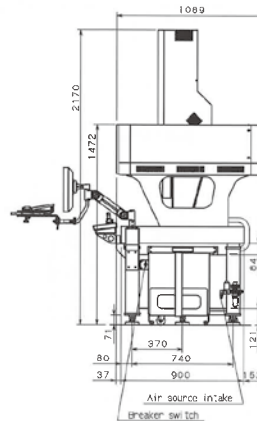
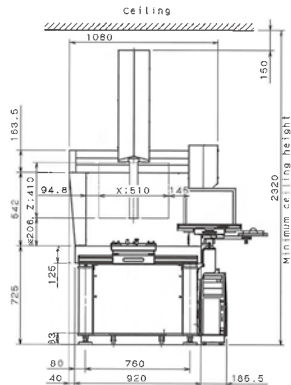
■ Option

- A4 ink jet printer
- Compact wagon for printer
- Notebook PC
- Stand for notebook PC integrated model with anti-vibration rubber, monitor arm, table for PC
- System rack
- MCR20 module change rack
- Modules
- Extensions
- Stylus
- Optional software

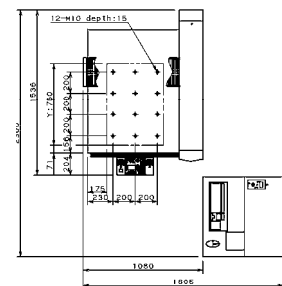
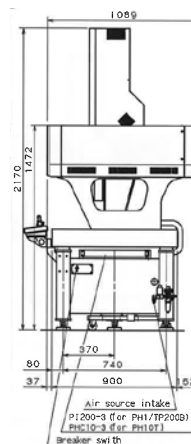
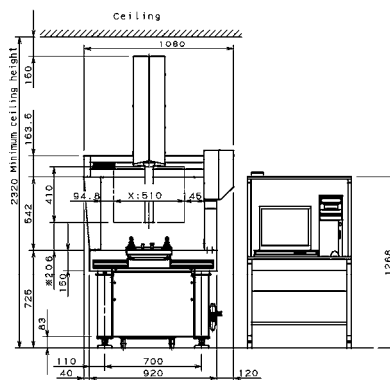
External View and Dimensions mju NEX

mju NEX 5/5/4

Monitor arm specification

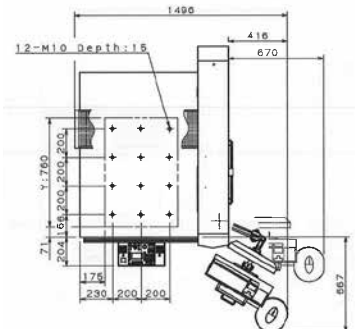
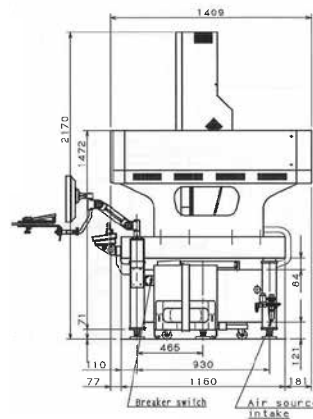
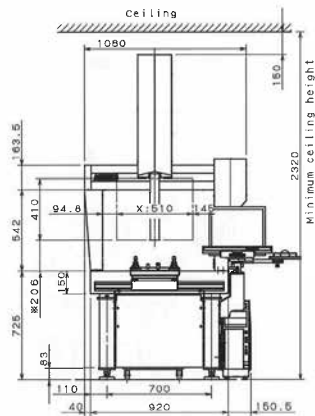


Computer rack specification



mju NEX 5/8/4

Monitor arm specification



Computer rack specification

