

# CARBstrato / CARBapex Series

## Specifications

|                     |  |
|---------------------|--|
| Range X-axis        | 4000 - 8000 mm                                   |
| Range Y axis        | 1400 - 1600 mm                                   |
| Range Z axis        | 2000 - 2600 mm                                   |
| Digital step Scales | 0,1 µm<br>High accuracy linear encoder           |
| Guide system        | X-axis : linear guide ; YZ-axis : air bearing    |
| Max. drive speed    | 866 mm/sec (CARBstrato)<br>519 mm/sec (CARBapex) |
| Max. acceleration   | 0,2G (CARBstrato)<br>0,1G (CARBapex)             |

## Accuracy is specified for the following environmental conditions for the CMM\*:

|                      |              |             |
|----------------------|--------------|-------------|
| Temperature range    |              | 16°C - 26°C |
| Temperature change   | per hour     | 1.0 K       |
|                      | per 24 hours | 5.0 K       |
| Temperature gradient | Vertical     | 1.0 K/m     |
|                      | Horizontal   | 1.0 K/m     |

\*When using temperature compensation system



CARBstrato / CARBapex Series brochure on request

## Safety System

For this type series, Mitutoyo offers a customized safety system. Depending on the local situation in your facility, Mitutoyo will propose a tailor-made solution meeting the requirements of the machinery directive.

## Foundation

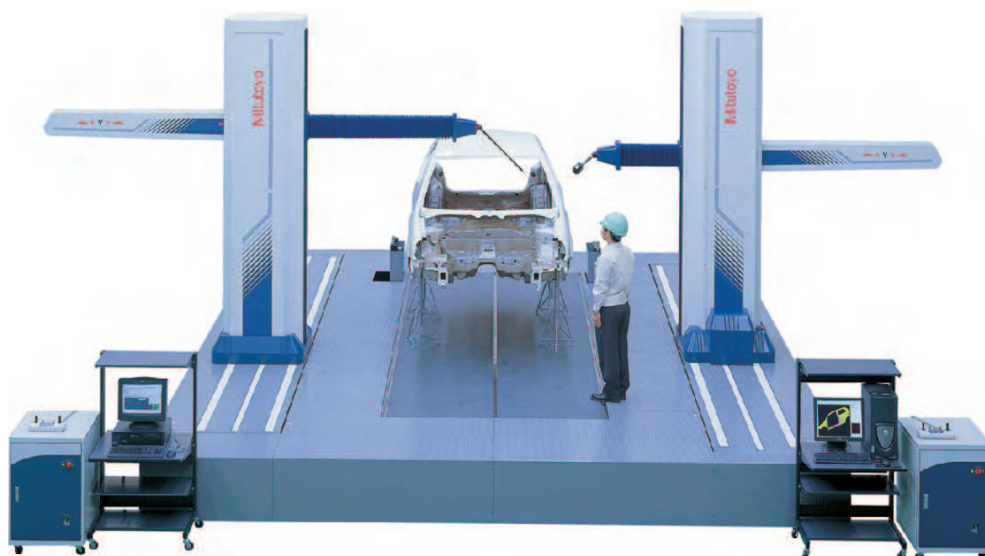
This type series always requires a special foundation. Please contact your local Mitutoyo partner for further details.

## Series 360 - Car Body Measuring System

A large, horizontal-type arm CNC CMM for measuring car bodies or similar components. Single/dual-head types are available ; the dual-head type measures by controlling two heads simultaneously, one from each side.

**MAIN FEATURES CARBstrato** : large, high precision, dual-head type.

**MAIN FEATURES CARBapex** : large, single-head type, affordable.



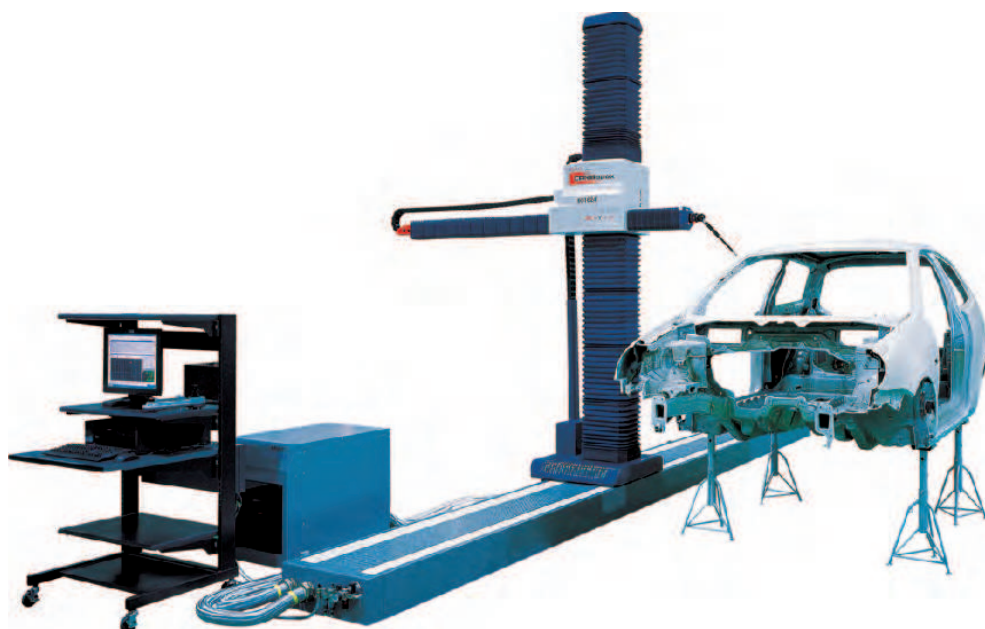
CARBstrato

## Metric

| No.     | Range    |
|---------|----------|
| 160-127 | 0-300 mm |

| No.        | Accuracy <sup>(1)</sup> E <sub>0,MPE</sub> |
|------------|--|
| CARBstrato | (18+20L/1000)µm                            |
| CARBapex   | (25+28L/1000)µm                            |

<sup>(1)</sup> The machine is equipped with a temperature compensation system, the effect of which is included in the accuracy specification according to ISO 10360-2 (2010) methods when using the SP25M probe system module SM25-1, with a ø 4x50 mm stylus.  
L= measured length (mm).



CARBapex