

QV TP Series

SERIES 364 – CNC Vision Measuring System

FEATURES

- Expanded application range by combining contact and non-contact measurement.
- Equipped with TP20 or TP200 touch probe.
- Flexible exchange of stylus configuration with MCR20 change rack.
- User-friendly QVPAK software.



Touch probe

- A 3D CNC Vision Measuring System offering accuracy in the in the 2.3 μm class (measuring 100 mm) combined with the ability of a touch-trigger probe to reach undercuts and similar features not accessible to the camera.
- The fixed bridge, moving table design is used for the ultimate in rigidity.
- A lightweight, space-saving design that offers a very high performance/cost ratio.



QV ApexTP302

SPECIFICATIONS: QV TP Elf-based

Model		QVTP ELF
Code No.		364-105
Measuring range (X : Y : Z)	One sensor	250 : 200 : 200 mm
	Both sensors	184 : 200 : 200 mm
Accuracy with optical sensor	E _{1xy}	$\pm(2.0+0.3L/100) \mu\text{m}$
	E _{1z}	$\pm(3.0+0.5L/100) \mu\text{m}$
Accuracy with touch probe E _{1xyz}		$\pm(2.4+0.3L/100) \mu\text{m}$

SPECIFICATIONS: QV TP Apex-based

Model		QVTP Apex 302	QVTP Apex 404	QVTP Apex 606
Code No.		364-111	364-131	364-151
Measuring range (X : Y : Z)	One sensor	300 : 200 : 200 mm	400 : 400 : 250 mm	600 : 650 : 250 mm
	Both sensors	234 : 200 : 200 mm	334 : 400 : 250 mm	534 : 650 : 250 mm
Accuracy with optical sensor	E _{1xy}	$\pm(1.5+0.3L/100) \mu\text{m}$		
	E _{1z}	$\pm(1.5+0.4L/100) \mu\text{m}$		
	E _{2xy}	$\pm(2.0+0.4L/100) \mu\text{m}$		
Accuracy with touch probe E _{1xyz}		$\pm(1.8+0.3L/100) \mu\text{m}$		

SPECIFICATIONS: QV TP Hyper-based

Model		Hyper QVTP 302	Hyper QVTP 404	Hyper QVTP 606
Code No.		364-114	364-134	364-154
Measuring range (X : Y : Z)	One sensor	300 : 200 : 200 mm	400 : 400 : 250 mm	600 : 650 : 250 mm
	Both sensors	234 : 200 : 200 mm	334 : 400 : 250 mm	534 : 650 : 250 mm
Accuracy with optical sensor	E _{1xy}	$\pm(0.8+0.2L/100) \mu\text{m}$		
	E _{1z}	$\pm(1.5+0.2L/100) \mu\text{m}$		
	E _{2xy}	$\pm(1.4+0.3L/100) \mu\text{m}$		
Accuracy with touch probe E _{1xyz}		$\pm(1.7+0.3L/100) \mu\text{m}$		