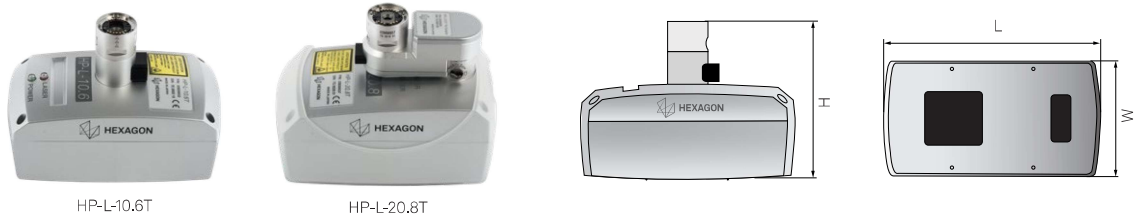


Laser scanners

HP-L-10.6T | HP-L-10.6A | HP-L-20.8T



HP-L-10.6 and HP-L-20.8T laser scanning sensors deliver maximum performance for complex surfaces and workpieces made of materials that are difficult to measure. These versatile laser scanners record precisely even at the highest speeds and are particularly well-suited to inspecting the characteristics of thin-walled components, sheet metal parts, freeform surfaces, and reverse engineering. The accuracy of the sensors is certified to the standard ISO 10360-8:2013.

Offering excellent measurement flexibility, the laser line width can be varied as needed from 24 mm to 124 mm (HP-L-10.6) and up to 220 mm (HP-L-20.8). The laser power is automatically adjusted in real time.

The HP-L-10.6T can be used on almost all Hexagon CMMs. HP-L-10.6A and HP-L-20.8T can be used on a CMM with adapters.

Warming post for HR-R Probe Changer Rack 03939507

Manual warm-up station (TKJ) G32438600 / Manual warm-up station (autojoint) G3243800

Set of 4 TKJ Angular Adapters (to be used only with HP-L-10.6T) 03969394

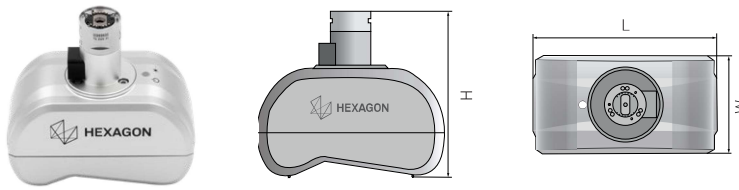
HP-L-20.8T on a CMM the following additional items should be ordered: **HP-LC-210 Controller (P/N 03939534), 1x Power unit 24 VDC with cables (03939505), 1x TKJ key (03969357), 1x HA-C-T Adapter TKJ for HP-L-20.8T (03939526) or 1x HA-C-A Adapter AJ for HP-L-20.8T (03939527), 1x Sphere (03939542)**

	HP-L-10.6T TKJ connection	HP-L-10.6A Autojoint connection	HP-L-20.8T TKJ connection
Part no.	03939500	03939501	03939535
Size L x W x H	134 x 72 x 60 (98) mm	134 x 72 x 60 (87) mm	137 x 76 x 85 mm
Weight	379 g	360 g	410 g
Standoff and depth (Z)	170 ±30 mm	170 ±30 mm	180 ±40 mm
Measuring accuracy ISO 10360-8:2013* (GLOBAL CMMs)			
PForm.Sph.D95%:Tr:ODS (MPL) Probe dispersion value	34 µm	34 µm	36 µm
PForm.Sph.1x25:Tr:ODS (MPE) Probing form error	22 µm	22 µm	25 µm
Lines per second (max.)	53 Hz	53 Hz	100 Hz
Laser line width (at mid-field)	24, 60 or 124 mm	24, 60 or 124 mm	25, 51, 63, 130 or 220 mm
Data rate (max.)	30 000 pts/sec	30 000 pts/sec	150 000 pts/sec
Ambient light of the sensor	40 000 lx	40 000 lx	40 000 lx
Laser protection class	2 ICE 60825-1:2007	2 ICE 60825-1:2007	2 ICE 60825-1:2007
Laser	Visibly red, (690 nm)	Visibly red, (690 nm)	Visibly red, (690 nm)
Operating temperature	+5 to +45°C (41 to 113°F)	+5 to +45°C (41 to 113°F)	+5 to +45°C (41 to 113°F)
Declared accuracy temperature range	+15 to +32°C (59 to 90°F)	+15 to +32°C (59 to 90°F)	+15 to +32°C (59 to 90°F)
Relative humidity	90% non-condensing	90% non-condensing	90% non-condensing
Power supply	All: DC 18 to 28 V, 170 to 200 mA, protected against polarity reversal	All: DC 18 to 28 V, 170 to 200 mA, protected against polarity reversal	All: DC 18 to 28 V, 170 to 200 mA, protected against polarity reversal
Protection against dust and water	All: IP64 (IEC 60529) except for warm-up connection	All: IP64 (IEC 60529) except for warm-up connection	All: IP64 (IEC 60529) except for warm-up connection
Storage temperature	All: -25 to +70 °C (-13 to 158° F)	All: -25 to +70 °C (-13 to 158° F)	All: -25 to +70 °C (-13 to 158° F)
Laser safety			

* Values include expanded measurement uncertainty according to ISO/TS 17865:2016. Measured using a manufacturer supplied sphere- and plane artefact, each certified by an independent accredited lab.

Laser scanners

HP-L-5.8T | HP-L-5.8A



HP-L-5.8T

The HP-L-5.8 laser scanning sensor makes it easy and affordable to begin creating point clouds on a CMM. The fixed-line blue laser can measure a wide range of surfaces, from very dark through to very shiny. The rugged and compact design makes it ideal for laser scanning on smaller CMMs and where accessibility is restricted.

The HP-L-5.8T is equipped with Hexagon’s kinematic joint, making it compatible with Hexagon probe heads and accessories, including automatic sensor changing racks and extensions.

Warming post for HR-R Probe Changer Rack 03939507

Manual warm-up station (TKJ) G32438600 / Manual warm-up station (autojoint) G3243800

Set of 4 TKJ Angular Adapters (to be used only with HP-L-5.8T) 03969394

	HP-L-5.8T TKJ connection	HP-L-5.8A Autojoint connection
Part no.	HP-L-5.8T-SYSTEM	HP-L-5.8A-SYSTEM
Size L x W x H	116 x 62 x 86.5 (106.5) mm	116 x 62 x 81 (101) mm
Weight	380 g	360 g
Standoff and depth (Z)	140 ± 40 mm	140 ± 40 mm
Measuring accuracy ISO 10360-8:2013* (Global CMM except Global extra)		
PForm.Sph.D95%:Tr:ODS (MPL) Probe dispersion value	34 µm	34 µm
PForm.Sph.1x25:Tr:ODS (MPE) Probing form error	22 µm	22 µm
Lines per second (max.)	40 Hz	40 Hz
Laser line width (at mid-field)	47 mm	47 mm
Data rate (max.)	36,000 pts/sec	36,000 pts/sec
Ambient light of the sensor	5 000 lx	5 000 lx
Laser protection class	2 (IEC 60825-1: 2014)	2 (IEC 60825-1: 2014)
Laser	Visible blue - 450 nm	Visible blue - 450 nm
Operating temperature	5 to 45° C (41° to 113°F)	5 to 45° C (41° to 113°F)
Declared accuracy temperature range	15 to 32° C (59° to 90°F)	15 to 32° C (59° to 90°F)
Relative humidity	90% non-condensing	90% non-condensing
Power supply	All: DC 18 to 28 V, 170 to 200 mA, protected against the polarity reversal	All: DC 18 to 28 V, 170 to 200 mA, protected against the polarity reversal
Protection against dust and water	All: IP64 (IEC 60529) (except for warm-up terminal)	All: IP64 (IEC 60529) (except for warm-up terminal)
Storage temperature	All: -25° to +70° C (-13° to +158° F)	All: -25° to +70° C (-13° to +158° F)
Laser safety		

* Values include expanded measurement uncertainty according to ISO/TS 17865:2016.

Measured using a manufacturer supplied sphere- and plane artefact, each certified by an independent accredited lab.