

LaserSpeed has become synonymous with global leadership in length and speed measurement and has set the standard for accuracy and reliability for measurement within the steel industry. Suitable applications including continuous casters, hot and cold rolling, temper and skin pass mills, pipe, tube, bar and rod, coil and strip.

LaserSpeed[®]

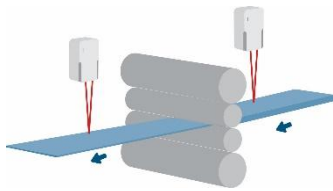
BETA LaserMike

The non-contact speed and length gauge for the metals industry

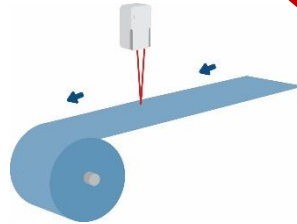
Suitable for all metals applications

World's best accuracy

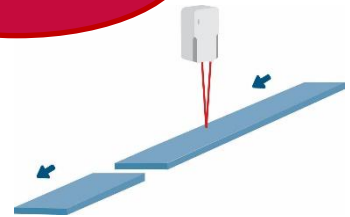
<±0.03%



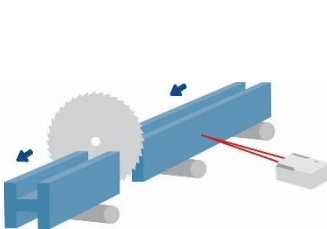
Elongation measurement



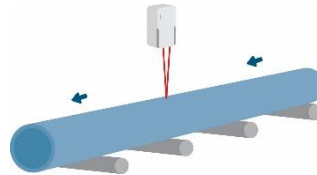
Coil length & speed measurement



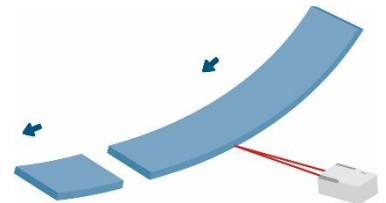
Cut-to-length control



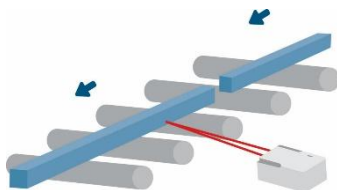
Hot section saw control



Tube length measurement



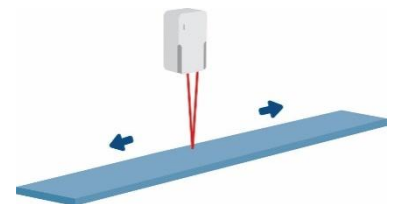
Speed & length on continuous casters



Billet or bloom length measurement



Process speed



Forward/reverse positioning

LaserSpeed solution

LaserSpeed Pro provides a non-contact method to measure process speed and length and is a direct replacement of existing contact rollers and rotary encoders to improve accuracy and reliability of in-process measurement. A wide range of product models, accessories and options are available making it suitable for all applications found within the metals industry. Rugged 'mill worthy' design ensures high accuracy and long term dependable measurement.



Most accurate gauge available today

The LaserSpeed Pro models are the most accurate gauges available on the market today delivering an accuracy of better than $\pm 0.03\%$ and repeatability of $\pm 0.02\%$ on any material irrespective of the surface properties or temperature.

Industry 4.0 connectivity

Quadrature pulse output 1 – 250 kHz max
 Quadrature pulse output 2 – 5 MHz max
 Serial RS232 – speed, length QF & Status
 Serial RS432 – speed, length QF & Status
 Ethernet UDP/TCP/IP- speed, length QF & Status
 Analogue 0-2 V – Speed or QF or Temp

Modbus TCP
 EtherNet/IP
 Profinet I/O
 ProfiBus DP
 SSI

Specification

LaserSpeed model	Stand off (mm)	Depth of field (mm)	Speed range (m/min)
LS8500-403	300	35	0.4 – 4000
LS9500-403			0... ± 4000
LS8500-406	600	50	0.8 – 8000
LS9500-406			0... ± 8000
LS9500-410	1000	100	0... ± 12000
LS9500-415	1500	200	0... ± 19000
LS9500-425	2000	200	0... ± 20000
LS9500-425	2500	200	0... ± 20000
LS9500-430	3000	200	0... ± 20000

Rugged Service Life
 3-year diode warranty



LaserSpeed Pro Gauge



E Housing



X Housing

Accuracy: $< \pm 0.03\%$ of reading
 Repeatability: $\pm 0.02\%$
 Measuring rate: LS8500: 50,000/sec
 Measuring rate: LS9500: 100,000/sec
 Protection class: IP67
 Laser class: 3B

