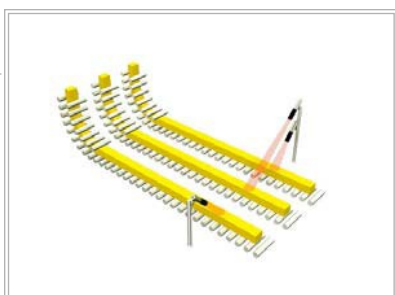


Starline H - M

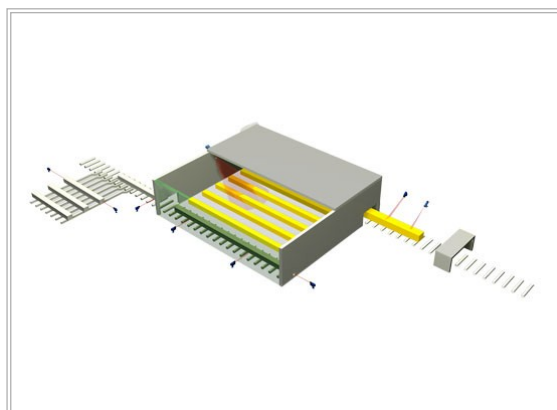
Multisensor Infrared Thermometer on Iron and Steel Plants

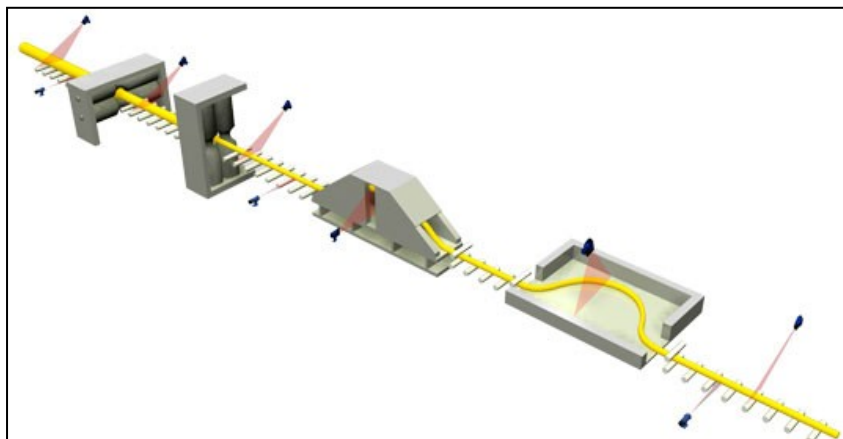


Continuous Casting
Temperature measurement

14 Sensor
Thermal Profile Measurement
Double LASER Aiming System

Mixed Charge Furnaces
Heating Furnaces
Furnace Output



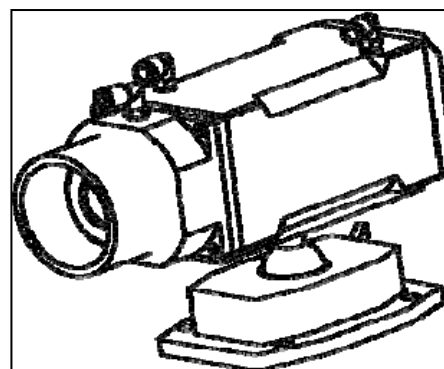


STARLINE H & M infrared thermometres are specifically designed for in line temperature measurement of bars lamination process startin from continuos casting, input and output of heating furnace, rolling mill, ending to cooling plate.

The particular uniqueness of this system is meaurment accuracy also in presence of oxidatino or water spots on the material and/or when the same is oscillating.

STARLINE infrared thermometer, installed transversally to the rolls way on the material is passing, measures its tempearure by way of a linear array of 14 sensors, thus creating a thermal profile of about 50 mm, with singol sensor target of 3.5 mm. The two LASER pointer indicates the extremities of the measurement zone, in wich the material should pass.

This innovative method doesn't have any moving part inside, because the 14 sensors are integrated on an single chip (the measurement result is like you have 14 single thermometers stacked each other. This allows to measure bar or beams of very little dimension. STARLINE internal microcontroller calculates the maximum (or averge, or minimum) value along the 14 sensors profile, giving it available on an analog output or on a digital interface to indicators, PLC or PC.



MODEL	STARLINE H	STARLINE M
MEASUREMENT RANGE	800 - 1200 ; 700 - 1400	400 - 900 ; 450 - 1100 ; 750 - 1300
WORKING WAVELENGHT	1.1 μ m	with selective ir filters 1.6 μ m
FOCAL DISTANCE	2500 mm (others on request)	
SCANNING SPEED	Max 200 Hz	
SENSOR	14-Cells Active Array	
SELECTABLE OUTPUT MEASURES	Peak, spatial average, minimum, alarms.	
PROFILE LENGHT	50 mm (Others on request)	
MATERIAL EMISSIVITY	Adjustable from 0,20 to 1,00	
SINGLE TARGET SIZE	4 mm at 2500 mm distance (others on request)	
ACCURACY	1° C	
THERMAL STABILITY OVER AMBIENT	from 0,2° C / ° C	
AIMING SYSTEM	DUAL LASER	
OPRATIONAL AMBIENT TEMPERATURE	da 0° C a + 60° C	
INTERFACES	4 - 20 mA analog and RS 485 digital	
POWER SUPPLY	From 12 to 36 V d.c or from 9 to 25 V a.c.	
ENVIROMENTAL PROTECTION	IP 65	

Specifics can be changed without notice B. FTP. 01 UK



SITEL Control