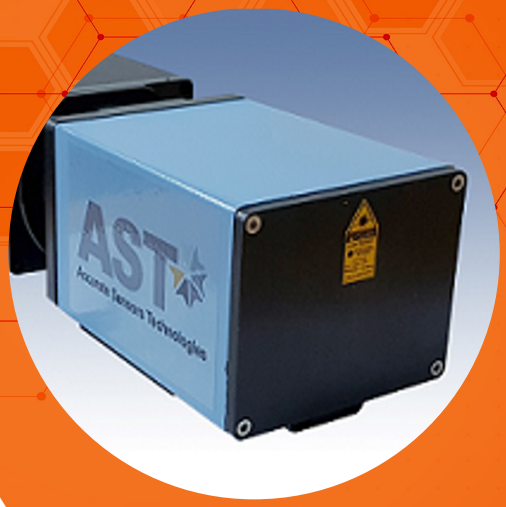
CASTOOL™
TOOLING SYSTEMS

REMOTE
OPTICAL PYROMETERS



PURPOSE

► To measure and control temperature to achieve maximum productivity

FUNCTION

An effective remote optical pyrometer focused on the press exit is absolutely essential in order to approach isothermal extrusion and maximum productivity

The press exit is one location where close temperature measurement and control is virtually essential. That is at the exit of the press. Maximum productivity depends on optimum ram speed which can only be achieved with isothermal extrusion.

This requires continual and accurate measurement of exit temperature in order to adjust the ram speed accordingly keeping the exit temperature just below the critical point of surface deterioration.

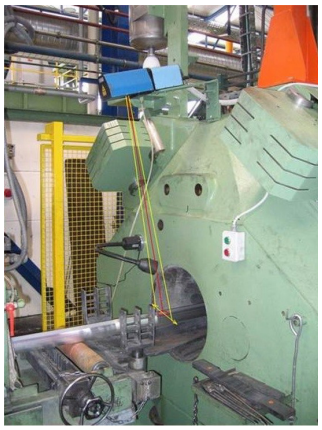
Another location where temperature measurement and control is necessary for maximum productivity is at the billet furnace exit, or just before billet loading.

This benefits the extruder by ensuring that extrusion begins at optimal temperature for maximum press speed. It prevents a billet that is too hot or too cold from entering the press.

Every reasonable effort should be made to ensure that the billet enters the press at the correct temperature.

Measuring and controlling temperature is the single most important function of any extruder. Light metal extrusion, good or bad, is impossible without temperature control. An excellent remote optical pyrometer does not ensure maximum productivity, but maximum productivity is impossible without one.

PS3000 SCANNING SYSTEM

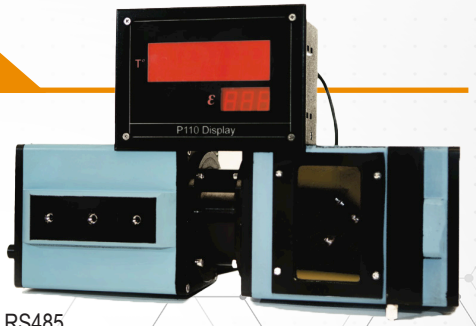


- Plug & Play, simple to install
- Fully automatic tracking
- Manual option of camera aiming
- Allows for continuous reliable temperature measurement
- Tracking of individual profile temperatures in multi-cavity die

FEATURES

- Selection of scanning modes:
  - hottest point
  - smooth point
  - program point (pendulum mode)
  - continuous scanning (pendulum)
- Adjustable scanning range up to ±25 °C
- Adjustable scanning step from 0.1 - 5 °C
- Adjustable scanning time
- Minimal working distance 1 meter
- Maximal working distance target size dependence
- Metal processing application for profile, billet, strip and bar

P110 DISPLAY UNIT



- Single channel display
- Displays temperature and emissivity
- Large digits can be seen from a distance
- Weight~0.5Kg

FERFORMANCE

- Response time : 51m Sec
- Data input : RS422, RS232, RS485
- Optional - AS3000 application selector
- Operating temperature 0 - 45 °C
- Operating humidity 10-90% (non-condense)

CASTOOL™
TOOLING SYSTEMS

BENEFITS OF THE CASTOOL REMOTE OPTICAL PYROMETERS

► The ability to measure and control temperature to achieve maximum productivity

► Continual and accurate measurement to keep the exit temperature just below critical point of suface deterioration

► Essential in order to approach isothermal extrusion

With Remote Optical Pyrometers, Castool again sets a new standard of excellence in the extrusion industry.

Results may vary depending on individual press characteristics and setup.

QEC ALUMINUM EXTRUDERS COUNCIL MEMBER

ISO 9001:2015 CERTIFICATION TM QUALITY
ISO 45001:2018 CERTIFICATION TM SAFETY
ISO 14001:2015 CERTIFICATION TM ENVIRONMENT

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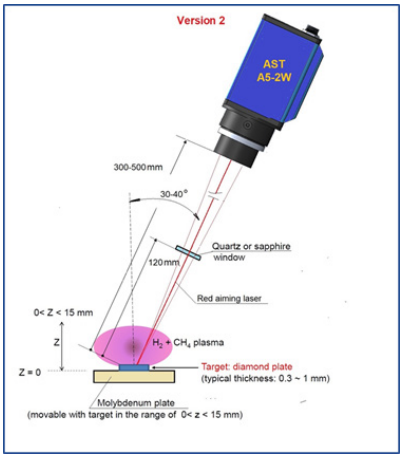
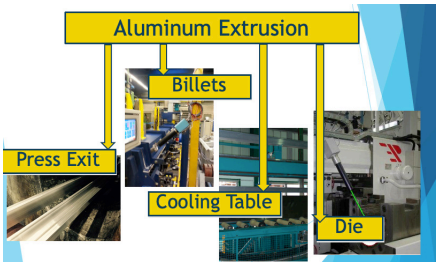
AST A4 SCANNER



- Simple to use ; no calibrations required
- High accuracy; 1% in real site conditions
- Capable of measuring targets with variable emissivity
- Measures through smoke, dust, water vapor, etc.
- Rugged design
- Full range of accessories
- Wide range of built-in functions

PERFORMANCE

- Temperature range : 350 °C - 850 °C
- Rugged design
- Selection of scanning modes:
  - hottest point
  - smooth point
  - program point (pendulum mode)
  - continuous scanning (pendulum)
- Adjustable scanning range up to ± 10 °C
- Adjustable scanning step from 0.1 - 5 °C
- Adjustable scanning time
- Minimal working distance 1 meter
- Maximal working distance target size dependence



INFRARED THERMOMETER

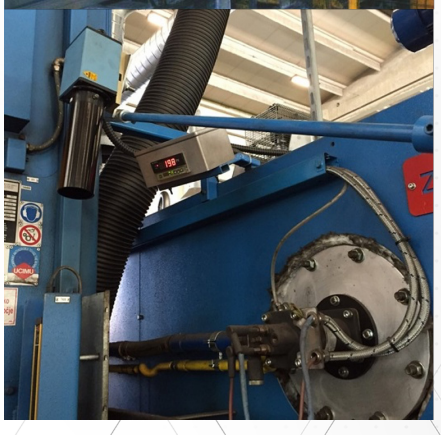
AC3000 - for aluminum extrusion, hot rolling, continuous casting, forging

- Simple to use; no calibrations required
- High accuracy; 1% in real site conditions
- Capable of meansuring targets with variable emissivity
- Measures through smoke, dust, water vapor, etc.
- Rugged design
- Full range of accessories
- Wide range of built-in functions

PERFORMANCE

- Temperature range: 200-600 °C (390 °F-1110 °F)
- Emissivity range : 0.1 - 1.0
- Response time : 0.1 -10 sec.
- Default value : 0.5 sec.
- Accuracy and repeatability : ± 1%

AST Accurate Sensors Technologies



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CASTOOL MAKES EXTRUSION BETTER