



SENSOR SOLUTIONS FOR  
**METAL STAMPING**

 **TR ELECTRONIC**  
... *Passionate* about Sensors.

# SENSOR SOLUTIONS for METAL STAMPING

Armed with the latest technology, our ruggedized products can withstand anything the metal industry can throw at them, protecting the machinery from the grit and dirt that can often slow things down. Using state of the art heat shock vibration, we offer reliable die protection. When a machine is running, we make sure precision is paramount, reducing costly downtime.

We keep ahead with the newest innovations and we have the protocol so that our products speak your language: Ethernet, Profinet, Profibus and Devicenet.

We understand your industry and how to support you throughout the process.

## LASER DISTANCE MEASUREMENT

- Time of Flight laser technology with background suppression.
- Excellent colour and surface independence.

## MATERIAL PRESENCE AND SAG

### Microsonic Ultrasonic sensor

- Industry leading Ultrasonic technology Senseable Inductive sensor.
- Simple operation and design.

## PRESS CONTROL

### Unidor

- Retrofit press with modern controls or OEM solutions
- Reduce rejected parts and down time while extending the life of the press with optimal press control

## LASER DISTANCE AND VELOCITY MEASUREMENT

- Industry leading Phase-Shift technology provides accuracy of +/- 2mm
- Highly accurate and extremely fast even in dust, steam and fog

## LED SIGNAL/MACHINE LIGHTS

- High efficient vibration proof technology with break-proof polycarbonate cover.
- IP67 environmental protection class is well suited for press applications.

## POSITIONING

- Linear Encoder - LMPI46 for shut height feedback.
- 0.001mm resolution for precision stroke control.

## STROKE-TRANSFER SYNCHRONIZATION

- CAM Rotary Encoder - CEV65M
- Up to 32 CAMs available
- Fully programmable CAMs at 24 or 5 V levels

## WIRELESS POWER AND SIGNAL TRANSMISSION

### PowerGap

- Simplify and speed up tool changes without disconnecting/connecting cables.
- Pass power and signal through barriers such as glass, plastic or fabric.

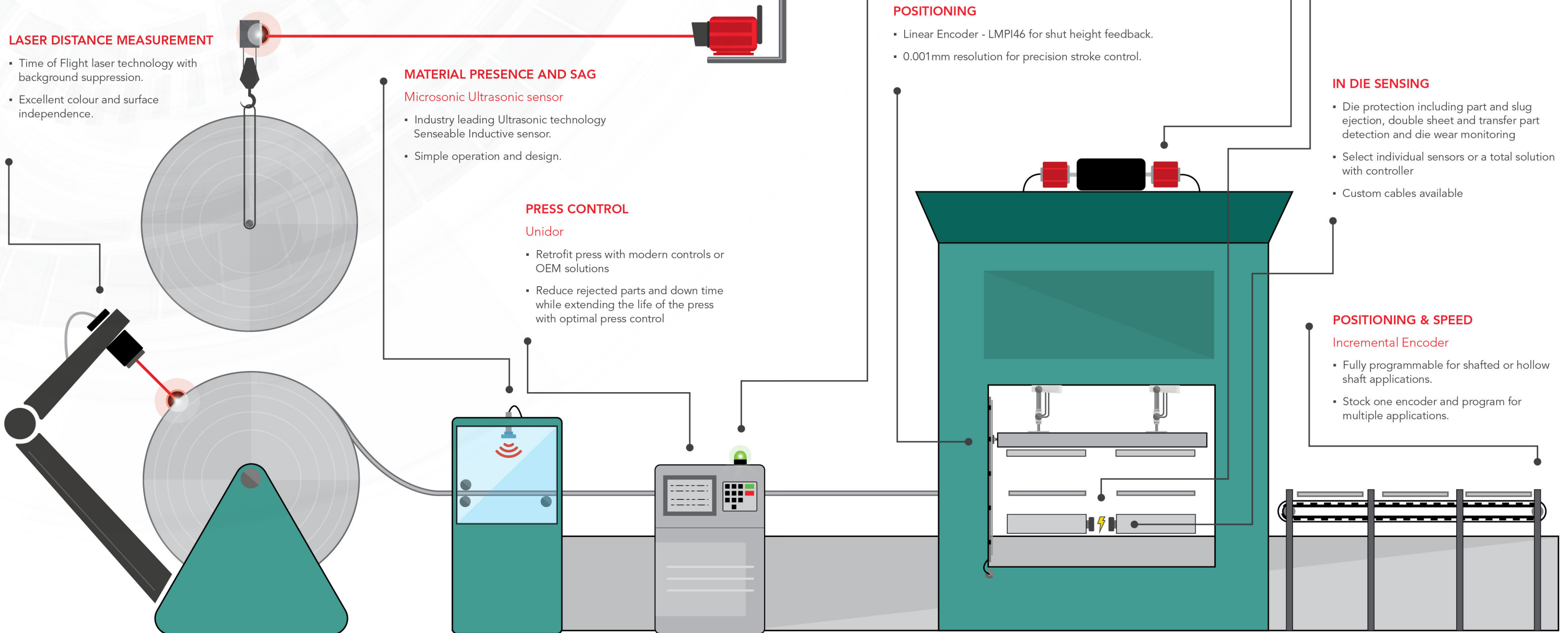
## IN DIE SENSING

- Die protection including part and slug ejection, double sheet and transfer part detection and die wear monitoring
- Select individual sensors or a total solution with controller
- Custom cables available

## POSITIONING & SPEED

### Incremental Encoder

- Fully programmable for shafted or hollow shaft applications.
- Stock one encoder and program for multiple applications.



# Why TR ELECTRONIC?

For measuring microns to kilometres, TR Electronic has the products to enhance your applications. We design products for harsh or challenging environments of any size, specialized for every industry. From heavy duty enclosures, special shock absorber modules, high temperature ratings, to SIL 3 rated, TR Electronic has the products to meet your every need.

With over 35 years of experience and global support from over 85 offices worldwide, TR Electronic can support you and your customers both on a local and on a global scale.

Our friendly customer service staff and qualified technicians can assist you any time, day or night. When you need a solution, you can rely on us. We solve problems by creating solutions with the right products at the right price, for any application... 24/7/365.



PRESS MONITORING & CONTROL



LASER DISTANCE MEASUREMENT



CABLE RETRACTORS



HEAVY DUTY SOLUTIONS



ULTRASONIC SENSORS



CABLES AND COUPLINGS

**24/7/365** Technical Support

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