# **INDUGA**

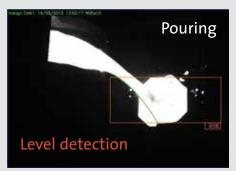


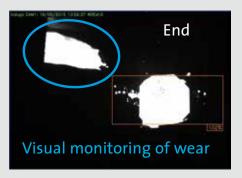
## **Ladle Pouring Technology**



### **Optical process monitoring**

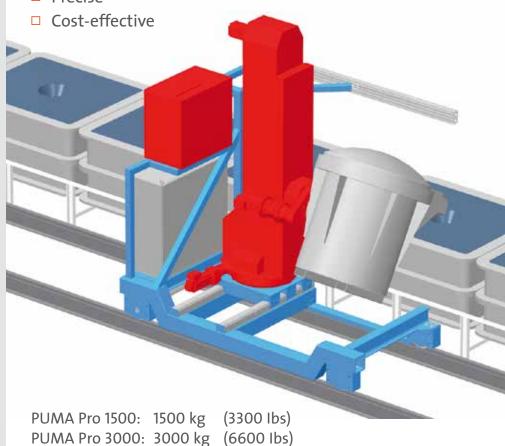






### Ladle pouring machine

- □ Reliable
- Precise



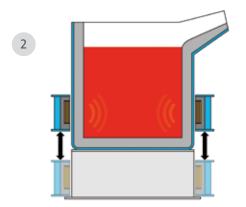
Ladle pouring machines, retrofits of existing pouring machines, service and spare parts for iron and non ferrous foundries

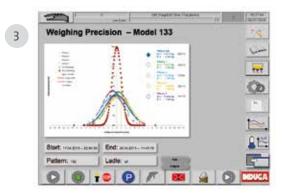




### Ladle Pouring Technology







Based on the understanding of metal by OTTO JUNKER and INDUGA, INDUGA offer ladle pouring machines, retrofits, service and spare parts to high-quality foundries. Ladle pouring machines are successfully used in flask, flask less and chemical bounded (nobake) moulding lines. With the help of ladle pouring machines it is possible to pour iron, steel, high-grade steel, non-ferrous metal and aluminum alloys in an efficient and process-controlled way.

INDUGA ladle pouring machines set new standards in the following fields:

- □ Reliable and accurate pouring process automation (1)
- Accurate, high speed melt level detection
- □ Visual monitoring of wear parts and optical conditions
- □ Jet position monitoring and control
- Precise pouring weight measurement
- □ Ladle induction heating system compatible (2)
- □ Easy integration of quality assurance processes (3)
- □ Data logging for each pouring operation
- Complete production process evaluation and analysis productivity – pouring weight precision – pouring time precision
- □ Full documentation of pouring cycles and process productivity

Our modern pouring technology offers the following advantages for your foundry:

- minimum amount of metal by integration of a highly precise weighing system
- reduction of scrap by controlling the entire pouring process (1)
- maximum productivity and flexibility low operation costs due to minimum equipment standstill and very low energy consumption
- □ Quick alloy change with each ladle
- minimum temperature drop by using only one ladle for metal transportation and pouring
- low-cost integration of metal treatment

#### **INDUGA** designs and supplies

- □ Channel-type induction furnaces for melting, holding and casting
- Coreless induction furnaces for special applications
- □ Coating pots for steel strip and pieces
- □ Low-pressure casting machines
- Plasma systems
- Ladle pouring technology

#### Individual solutions are our speciality!

### INDUGA GmbH & Co. KG

Jägerhausstr. 2

DE-52152 Simmerath, Germany Telephone +49 2473 6017 10 Telefax +49 2473 6017 77

E-Mail info@induga.de www.induga.com