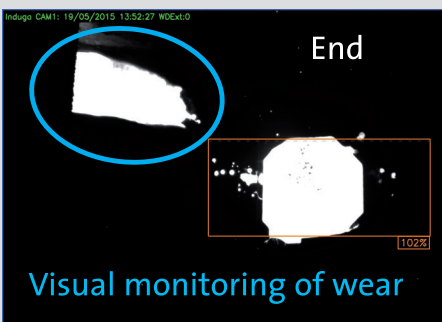
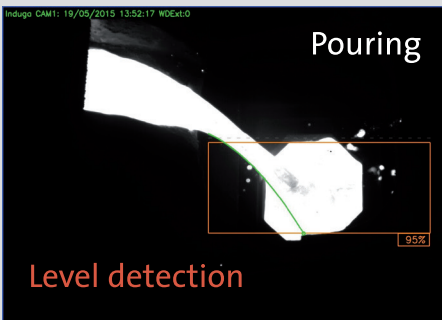
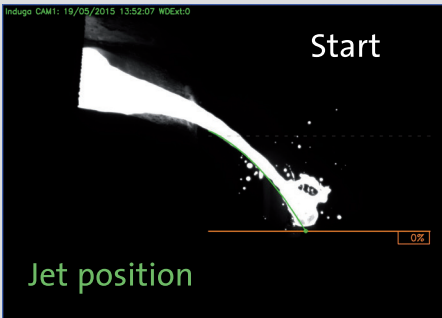


Ladle Pouring Technology

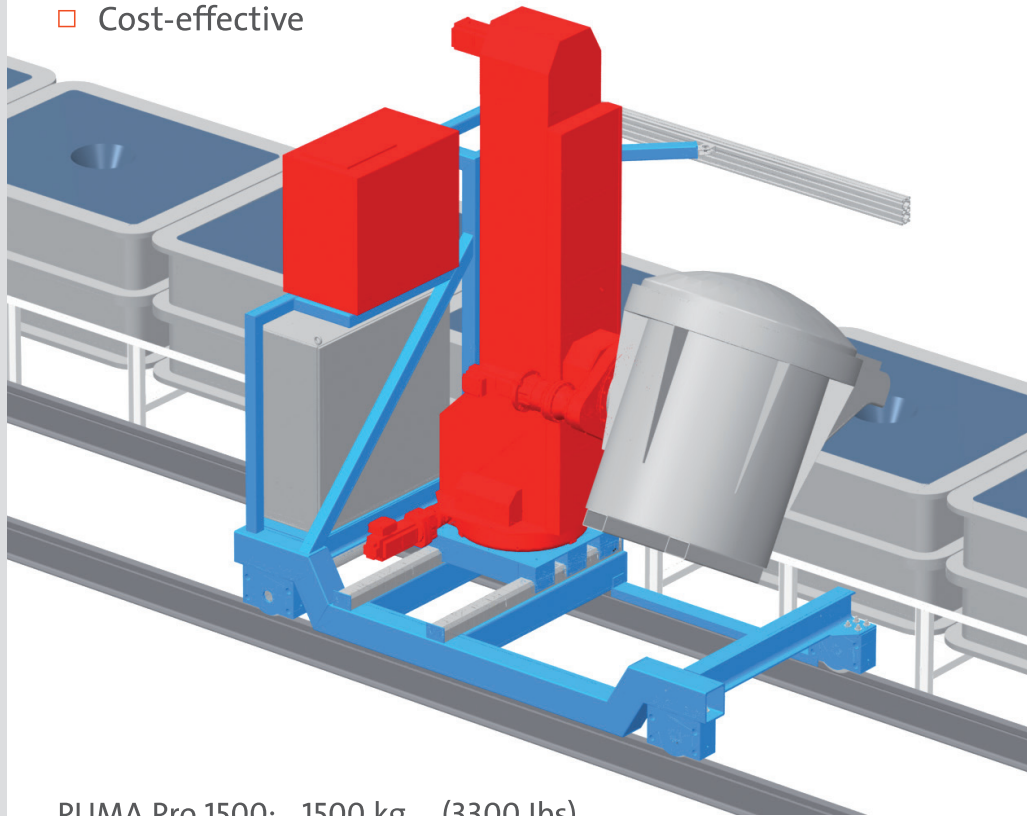


Optical process monitoring



Ladle pouring machine

- Reliable
- Precise
- Cost-effective



PUMA Pro 1500: 1500 kg (3300 lbs)
PUMA Pro 3000: 3000 kg (6600 lbs)

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



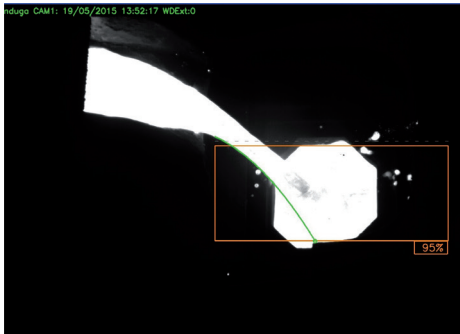
Produced by
SMB Swispour GmbH

www.induga.com

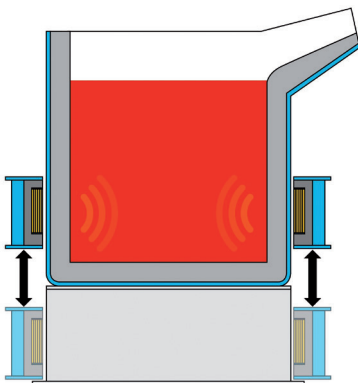


– Ladle Pouring Technology

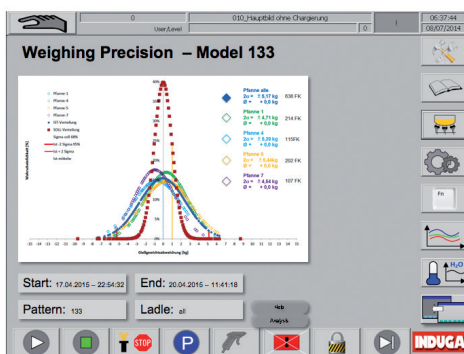
1



2



3



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 (no-bake) 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

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