

USE ON CASTING FLOOR OR TUNDISH CAR

GOOD FLEXIBILITY

IMPROVED OPERATOR SAFETY

TECHNICAL CHARACTERISTICS

The re-engineered ladle Shroud Manipulator enables the user to maintain an airtight seal between ladle and shroud. The Manipulator has been designed using all the experience and feedback of its tried-and-tested predecessor. Equipment is manufactured using standardised modules, resulting in high reliability and low maintenance of equipment. Safe handling of shrouds using a joystick.

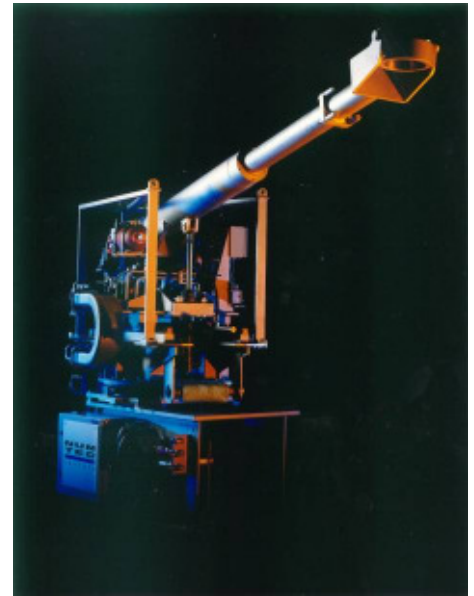
ECONOMICAL AND TECHNICAL BENEFITS

Low overall costs, electro-hydraulic operation. Shroud Manipulator equipment minimises damage to shroud and slide gate and prevents reoxidation, resulting in a favourable return on your investment.

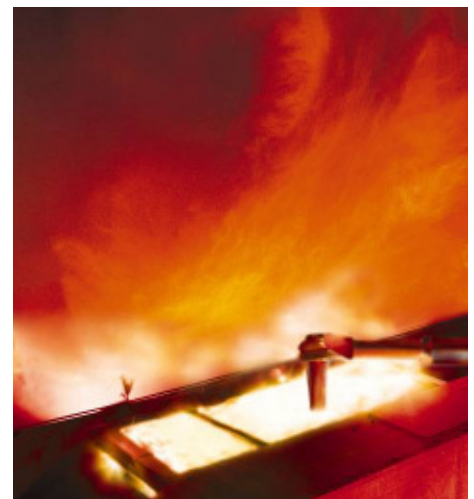
TECHNICAL DESIGN

The equipment consists of a base frame, an electrically-driven swivel column, hydraulically-driven jib arm with take-up fork and piping for the inert gas (argon). The manipulator follows the ladle turret movement, thus maintaining the press-onforce to the slide gate nozzle.

Control systems - standard Siemens S7 PLC.



Shroud Manipulator

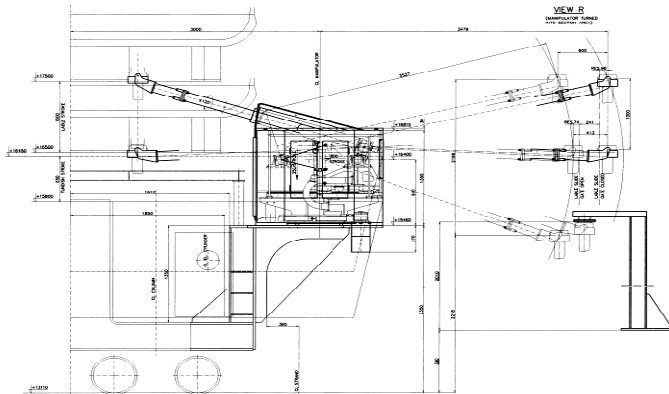


SM in action

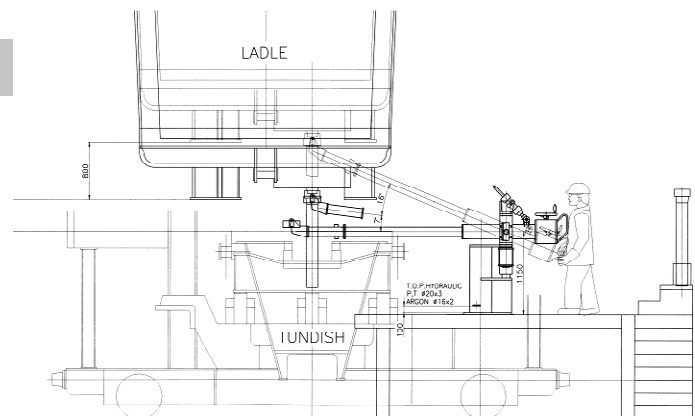
TECHNICAL DATA

Usual applications	Continuous casting plants
Location	Casting platform or tundish car
MACHINE DATA	
Length of jib arm	2,000 – 4,500 mm
Press on force (adjustable)	Up to 10 kN
Vertical stroke	Approx. 1,500 mm
Horizontal stroke	600 mm
Turning of manipulator	Approx. 130 °C
ELECTRICAL	
Mains supply	3 x 400 V, 50 Hz (other voltages possible)
Power consumption	Approx. 5 kVA
Control voltage	24 VDC
HYDRAULIC	
Medium	Mineral oil or water glycol
Pressure	Min. 180 bar
Consumption (flow rate)	Max. 30 l/min

MACHINE TYPES



Semi-Automatic Shroud Manipulator



Manual Shroud Manipulator