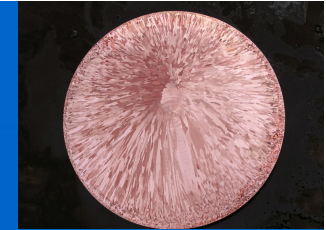


# FOR SALE

Nov 2010



USED METAL WORKING EQUIPMENT

## ■ HORIZONTAL CONTINUOUS CASTING LINE FOR COPPER BILLETS

- Consisting of
- **INDUGA 2.2 -IR -CU - 1600KW MELTER COMPLETE 5.3T/HR**
- **DEMAG TECHNICA CASTER 3 TO 4 T/HR 110-145 MM/MIN**
- SINGLE STRAND AT 250 - 300 MM DIA .LENGTH 300-800
- AUTO HANDLING
- YEAR OF MANUFACTURE 1995 INSTALLED WITH FULL DOCS



## ■ INDUCTION CHANNEL FURNACES FOR COPPER 2 OFF

- TYPE PIK 4000. MODERNISED 2006. CON POWER 600 kva
- RATED 1800KG/HR COPPER, 2400 KG/HR BRASS. 260-195 kwh/t
- STILL INSTALLED IN EUROPE AVAILABLE NOW EXCLUSIVELY THROUGH

## ■ **CONTACT MCMILLAN CONROY MACHINERY INT LTD**

■ **SALES@MCMILLANCONROY.CO.UK**

■ **TEL NO 00 44 1922 725 444 ENGLAND**

■ *NEW INSTRUCTION see page 2 for full details*



# Technical specification on Continuous casting line for copper billets (300mm dia ) DHP.

## · **MELTING FURNACE**

Manufacturer: INDUGA Industrieöfen und Giesserei -A

Type: 2-2-IR-Cu-6.0/1600 kW

Year of manufacture: 1995

- mechanical system
- electrical system
- supplementary equipment
- water re-cooling system
- automatic heat-maintaining system
- metal leakage and short-circuit control system
- condensers battery / power system
- temperature measurement and adjustment system
- temperature measuring device
- charging system



# Technical specification on Continuous casting line for copper billets (300mm dia ) DHP.

## Casting equipment

Manufacturer: DEMAG TECHNICA GmbH

Type: HC 250 EIMCPNEL

Year of manufacture: 1995

The equipment consists of the following main components:

- holding furnace with inductor
- furnace cover with a burner
- cooler
- strand temperature measuring system
- cooling water distribution
- secondary cooling with water box and roller supports
- roller supports
- withdrawing machine with control system MCP "COMPUTOCAST"
- disk saw
- roller conveyor
- outlet table
- hydraulic systems
- electrical control



# Technical specification on Continuous casting line for copper billets (300mm dia ) DHP

## Operating data

### Melting equipment (manufacturer's data)

- total capacity ca. 10,0 t
- usable melt weight 6.0 t
- melt temperature 1200 °C
- melting rate at 1200 °C ca. 5,3 t/h
- power consumption for melting at 1200 °C ca. 280 - 300 kW
- power consumption for heat maintaining ca. 120 kW
- power consumption of auxiliary drives ca. 10 kW
- cooling water consumption ( $T = 25\text{ °C}$ , 5 - 6 bar) ca. 10,0 m<sup>3</sup>/h

### Technical data Melting equipment

- furnace connected power 1850 kVA
- furnace rated power 1600 kW (2 x 800 kW)
- rated voltage 900 V
- power factor 0.95
- mains supply voltage 3-phase 10 kV, 50 Hz
- auxiliary drives supply voltage 3-phase 380 V, 50 Hz
- control voltage 220 V AC, 50

### Casting equipment

- usable capacity 8 t Cu
- melt weight 6 t Cu
- number of strands 1
- strand diameter max. 300 mm
- cutting length 300 - 800 mm
- casting speed (for Ø250) ca. 110 - 145 mm/min
- casting capacity (for Ø250) 3000 - 4000 kg/h



# Technical specification on Continuous casting line for copper billets (300mm dia ) DHP

- **Technical Data Casting equipment**
- · furnace connected power 380 kVA
- · furnace rated power 250 kW
- · mains supply voltage 3-phase 400 V\_/50 Hz
- · measuring device voltage 1-phase 230 V\_/50 Hz
- · control voltage 24 V=



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# ADDITIONAL INDUCTION CHANNEL FURNACES FOR COPPER/ COPPER ALLOYS

· Type PIK 4000 2 OFF · The furnaces were modernised in 2006.

## **Main components of each furnace:**

- furnace body with suspended inductor
- supporting structure with mounting/tilting frame and two hydraulic cylinders
- self-driven charge feeding device
- hood for waste gas extraction
- main supply electrical equipment and supply of auxiliary and control devices
- electrical cabinet and control/measurement desk

## **Technical data**

- melted materials: copper and copper alloys
- usable capacity: 4000 kg
- rated melting speed
  - copper (1200 °C): 1800 kg/h – brass (1050 °C): 2400 kg/h
- energy consumption for melting
  - copper (1200 °C): 260 kWh/t – brass (1050 °C): 195 kWh/t
- furnace supply voltage: 3 x 500 V
- auxiliary circuits supply voltage: 3 x 380 V
- rated frequency: 50 Hz
- connected power: 600 kVA
- furnace effective power: 500 Kva



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