

## Aluminium remelting plant IA2541, used



**manufacturer :**  
Sonstige

**Product number:**  
IA2541

## Description

### Aluminium remelting plant

|                 |  |
|-----------------|--|
| Input materials | Aluminium scrap, schredder scraps, lacquered |
| Capacity        | Approx. 120 t/Tag                            |
| Final product   | 8 - 12 kg ingots                             |
| Comments        |  |

### Charging machine

|              |                                  |
|--------------|----------------------------------|
| Manufacturer | GHI - GUINEA HERMANOS INGENIEROS |
|--------------|----------------------------------|

### Charging machine

|                     |  |
|---------------------|--|
| Type                | vibration chute moveable by rails, liftable by hydraulic scissor |
| Year of Manufacture | 2008   |
| Capacity chute      | 7500 kg  |
| Lifting height      | 3500 mm  |
| Table size          | 80 A, 400 V, 3-Phasen, 50 Hz                                     |

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### Melting Furnaces

|                     |  |
|---------------------|--|
| Manufacturer        | GHI - GUINEA HERMANOS INGENIEROS             |
| Type                | Shaft furnace TFA 5, fixed                   |
| Year of Manufacture | 2008   |
| Capacity chute      | 25 t   |
| Melting rate        | 5 ton/h                                      |
| Heating             | Propan                                       |
| Burner              | North American                               |
| Type                | With flame detecor                           |
| Burner capacity     | 2.800.000 kcal                               |
| Number              | 4  |
| Input material      | Aluminium scrap, Schredder scraps, lacquered |
| Burner fan          | 30 kW  |

## Melting Furnaces

|                                  |  |
|----------------------------------|--|
| Max. temperature in furnace room | 1100 °C  |
| Dimensions (LxBxH)               | 5000 x 6200 x 7200   |
| Electrical connection            | 30 KW, (60 A), Burner fan 22 kW (44 A) hydraulic group (total with furnace TFA-5 und RAN-R-25-B), 400 V, 3Ph, 50 Hz. |

## Melting furnace with metal pump LOTUS and vertical vibrations conveyor for swarfs

|                                |   |
|--------------------------------|---|
| Manufacturer                   | TECHNI-THERM                                    |
| Type                           | Heard furnace, hydraulically tiltable           |
| Year of Manufacture            | 2010  |
| Furnace dimensions             | 24 t  |
| Outside                        |   |
| Width                          | 6700 mm   |
| Length                         | 4700 mm   |
| Inside                         |   |
| Width                          | 3600 mm   |
| Length                         | 3500 mm   |
| Furnace height                 | 4400 mm   |
| Bath height                    | 800/900 mm                                      |
| Furnace door                   | 3000 x 632 mm                                   |
| Installed power                | 2500 kW   |
| Heating                        | Propan gas, max. 290 Nm <sup>3</sup> /h, Oxygen |
| Input materials                | Scrap and swarfs                                |
| Furnace door dimension (L x H) | 4700 x 1200 mm                                  |
| Charging opening top           | 900 800 mm                                      |
| Metal pumps                    | LOTUS, Type TT 35 SO, 11 kW                     |

### Holding/casting furnaces

Manufacturer GHI - GUINEA HERMANOS INGENIEROS

Type Hydraulisch kipbarer Herdofen

Year of Manufacture 2008

Capacity 25 t

#### Furnace bath

##### Width

Bath height 950 mm

Bath length 3400 mm

#### Furnace outer dimensions

Width 8600 mm

Length 6500 mm

Height 7800 mm

Installed power 2.500.000 kcal/h

Heating 2500 kW

#### Heating

Type North-American Mfg. Co Allumage

#### Burner power

Number 2

Burner air fan 18,5 kW, 3000 U/min

Input material Liquid metal

Furnace door dimension (L x H) 4700 x 1200 mm

### Ingot casting line

Manufacturer System Fuss

Type Casting wheel

Year of Manufacture 2008

| Ingot casting line                |                                     |
|-----------------------------------|-------------------------------------|
| Ingot weight                      | 8 - 12 kg                           |
| Casting rate / h                  | ca. 5 t/h                           |
| Heating moulds                    | Burner                              |
| Type of cooling moulds            | Water / air                         |
| Atotomatic ingot stacking machine | yes                                 |
| Line dimensions                   |                                     |
| Length casting belt               | 19425 mm                            |
| Cooling line                      | 10080 mm                            |
| Total length with stacking        | 42070 mm                            |
| Cooling water                     | Cooling tower, internal circulation |

| Waste gas filter plant                  |                                  |
|---|----------------------------------|
| Manufacturer                            | SEMECA                           |
| Year                                    | 2008                             |
| Waste gas amount melting furnaces 1 + 2 | 60.000 Nm <sup>3</sup> /h        |
| Waste gas amount after after-burner     | 15.000 m <sup>3</sup> /h         |
| Waste gas amount furnace hoods          | 10 a´ 15.000 m <sup>3</sup> /h   |
| Waste gas amount holding furnaces       | 5 a´ 8.000 m <sup>3</sup> /h     |
| Waste gas amount Furnace hoods          | 20 a´25.000 m <sup>3</sup> /h    |
| Total Waste gas amount                  | 115 a´ 120.000 m <sup>3</sup> /h |
| Capacity data                           |                                  |
| Total dust                              |                                  |
| Law                                     | 40 mg/Nm <sup>3</sup>            |
| Gurantee SEMECA                         | 20 mg/Nm <sup>3</sup>            |
| Dioxin                                  |                                  |
| Law                                     | 0,1 ng/Nm <sup>3</sup>           |

|                               |                        |
|-------------------------------|------------------------|
| <b>Waste gas filter plant</b> |                        |
| Gurantee SEMECA               | 0.1 ng/Nm <sup>3</sup> |
| HCl                           |                        |
| Law                           | 50 mg/Nm <sup>3</sup>  |
| Gurantee SEMECA               | 50 mg/Nm <sup>3</sup>  |
| Delivery time                 | immediately            |
| Price                         | on request             |





