

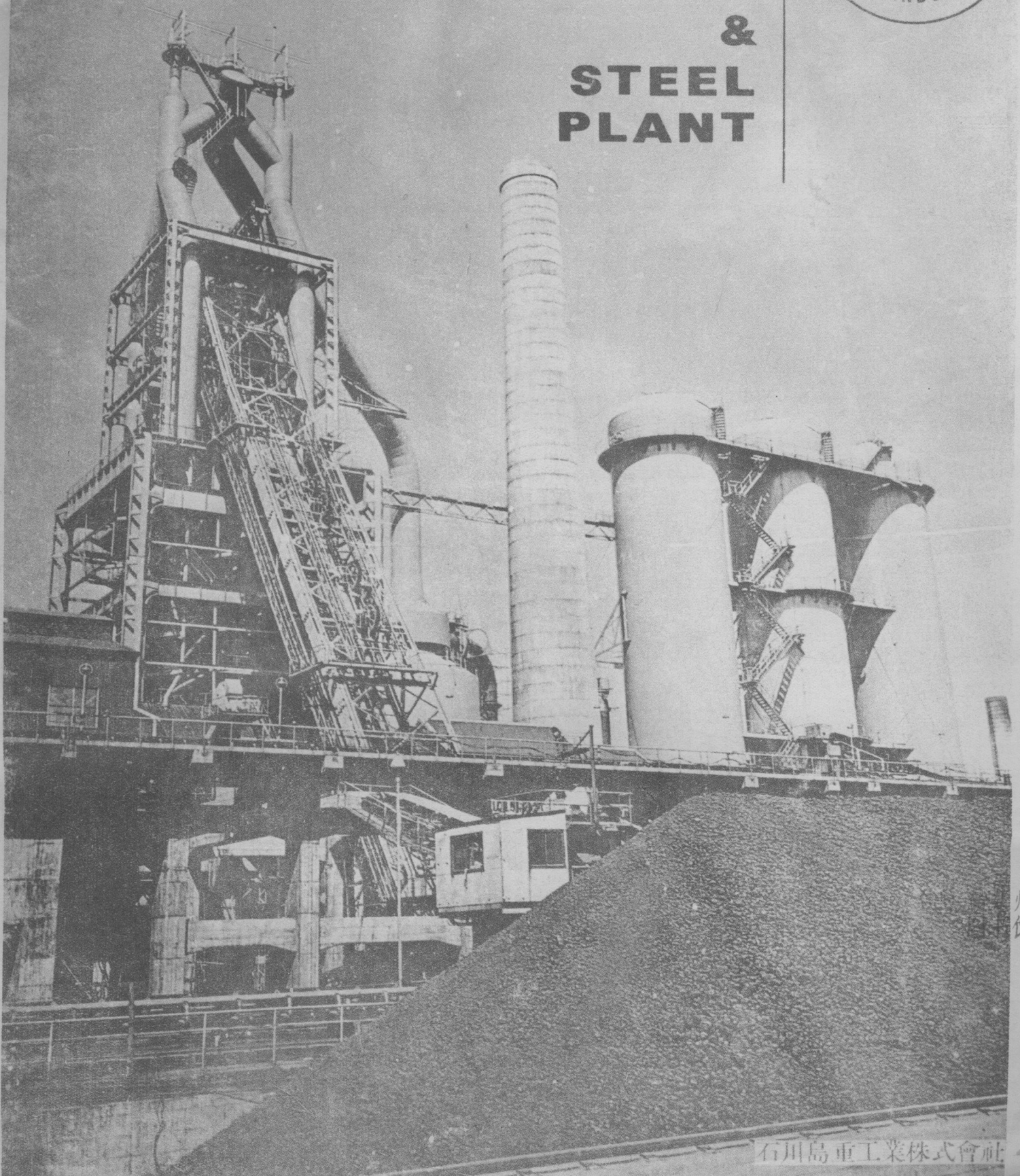
ISHIKAWAJIMA - HARIMA
EQUIPMENT FOR
IRON & STEEL
PLANT

Ishikawajima-Harima Heavy Industries Co., Ltd.

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石川島鋼鐵廠設備

Ishikawajima-Harima EQUIPMENT FOR IRON & STEEL PLANT



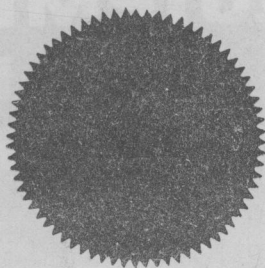
石川島重工業株式會社

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Ishikawajima-Harima Heavy Industries Co., Ltd.

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— As an Introduction: —



The Ishikawajima-Harima Heavy Industries Company has been engaged in the manufacture of equipment for the iron and steel industry since 1920, having expanded the scope of its production along with the development of Japan's industry in this line and has accumulated valuable experience in manufacturing technique through intensive studies and successful results.

The following is an enumeration of Ishikawajima-Harima products, part of which is introduced in pictures.

For Iron Manufacturing 煉鐵設備

- * Material handling and treating equipments
- * Blast furnaces
- * Air turbo blower for blast furnace
- * Auxiliary equipment for blast furnace
- * Oxygen compressors

For Steel Manufacturing 煉鋼設備

- * Mixer cars
- * Mixers
- * Converters
- * Arc furnaces
- * Auxiliary equipments for steel manufacturing plant

For Rolling and Metal Processing Equipments. 軋鋼及金屬作業過程設備

- * Rolling mills
- * Auxiliary equipments for rolling mill
- * Shears
- * Slitters and Levelers
- * Hydraulic presses

Cranes and Other Facilities for Iron and Steel Manufacturing.

鋼鐵生產用起重運輸設備及其它

- * Scrap cranes
- * Charging cranes
- * Ladle cranes
- * Teeming cranes
- * Soaking pit cranes or stripping cranes
- * Forging cranes
- * Quenching cranes
- * Cover carriages
- * Gas storage tanks.

etc.

原材料運輸及處理設備

MATERIAL HANDLING AND TREATING EQUIPMENTS



EQUIPMENT
FOR
IRON
&
STEEL
PLANT

Ishikawajima-Harima

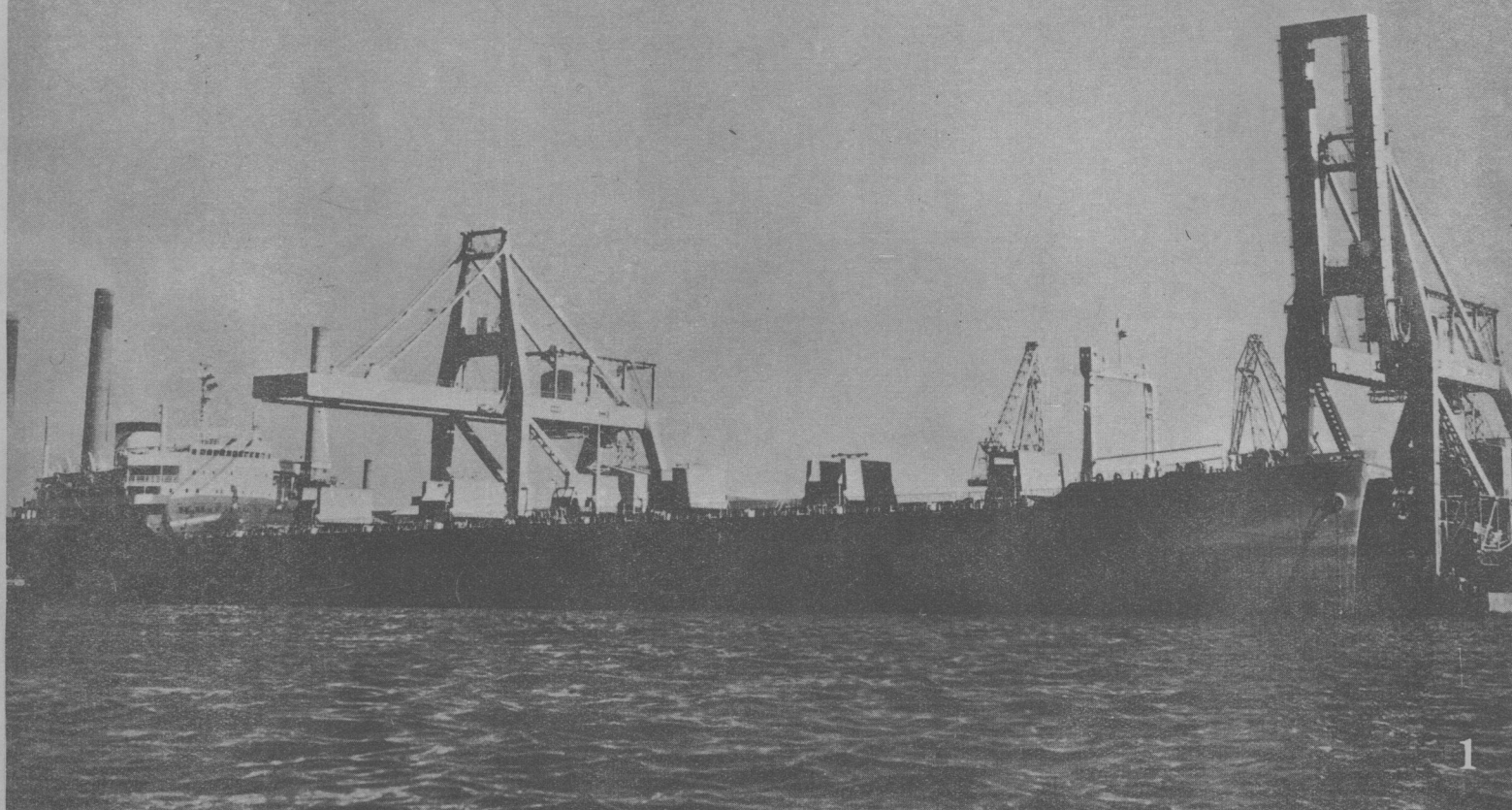
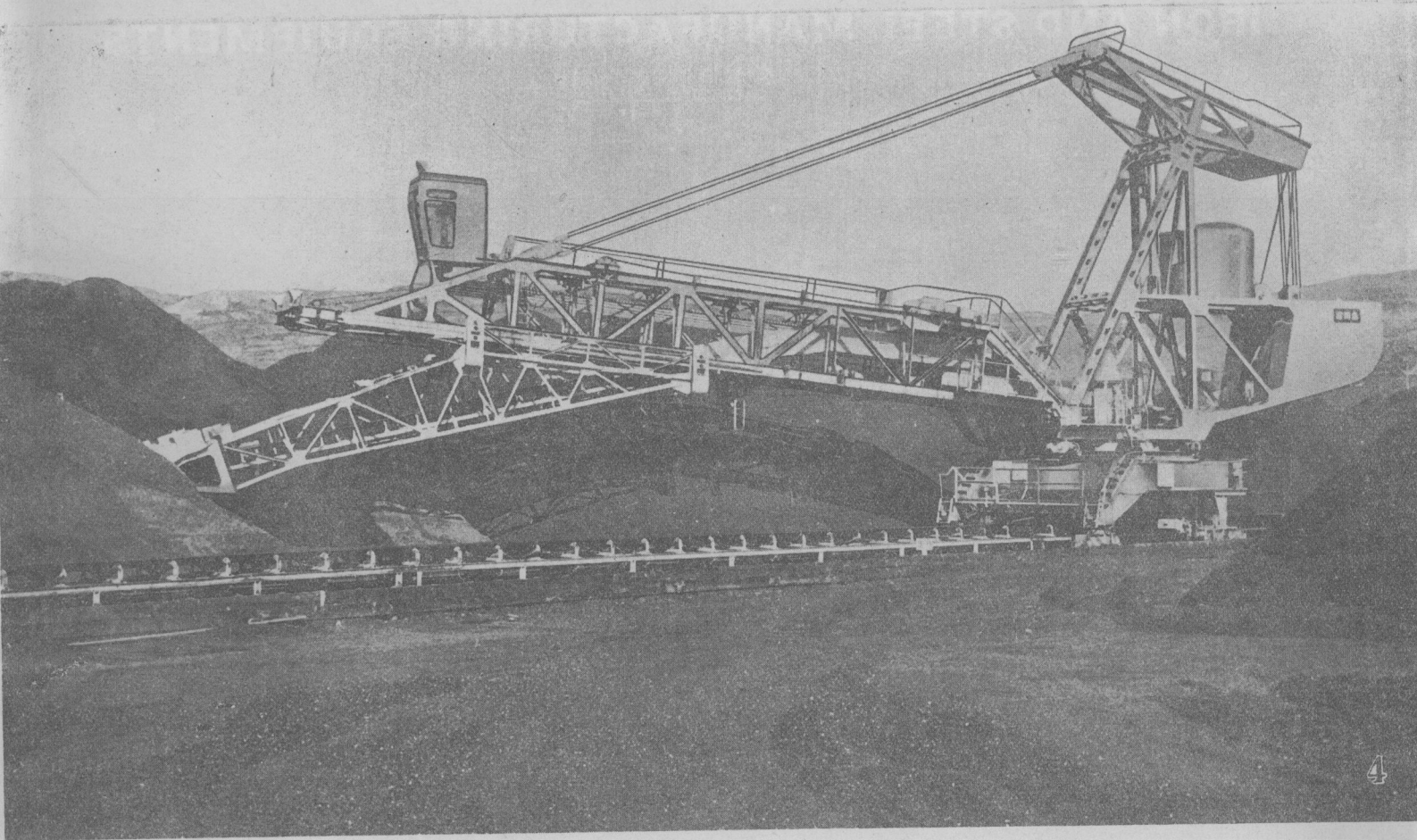


Fig. 1
Ore and Coal Unloader 卸料機 (礦砂及煤)
for Fuji Iron & Steel Co., Ltd.(1961)
Capacity: 1,000 t/h
Type: Turn-Table Mantrolly
Speed: Travelling 25 m/min.
Hoisting 100 m/min.

Fig. 4
Coal Reclaimer 集料機
 for Nippon Futoh Kaiun Co., Ltd.
 (1959)
 Capacity: 400 t/h
 Type: Gathering Type
 Radius max. 34 m
 Speed: Travelling 40 m/min.
 Rotation 40°/min

Fig. 5
Sintering Machine
焼結設備

Fig. 6
Circular Sinter Cooler 圓形燒結冷却器
 for Kobe Steel Works, Ltd. (1961)
 Type: IHI-McDowell
 Dwight-Lloyd®
 Capacity: 1,500 t/d
 Active Hearth Area: 68.5 m²



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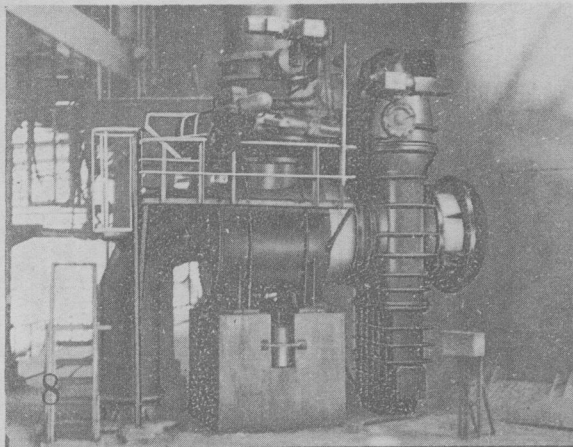
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IRON AND STEEL MANUFACTURING EQUIPMENTS

鋼鐵製造設備



Fig. 7 軸流式鼓風機
 Axial Blower (9,200kW × 1,
 8,500kW × 3)
 for Yawata Iron & Steel Co., Ltd.
 (1960)
 Type: Multi stage Axial flow
 Capacity: 2,200-3,200 Nm³/min.
 Pressure: 1.0-2.1 Kg/cm²g
 Motor: 9,200kW-3,600rpm



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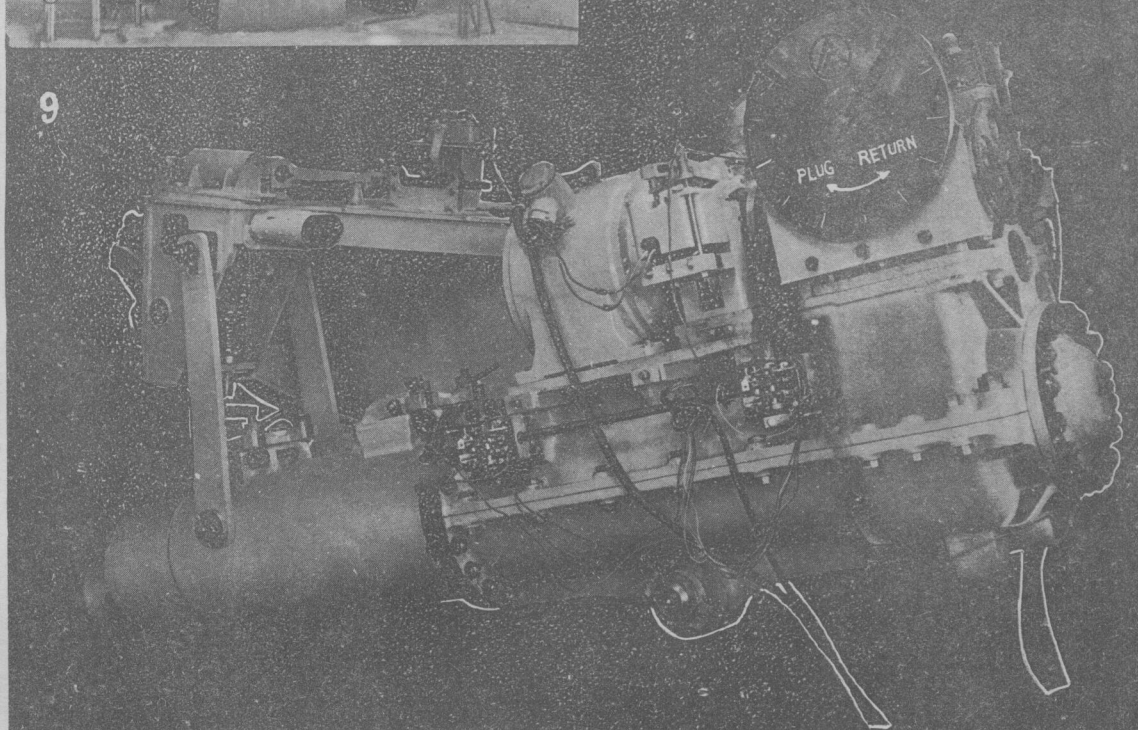


Fig. 8 熱風爐
Pressure Burner for Hot Stove
for Yawata Iron & Steel Co., Ltd.
(1962)

Gas Capacity: 60,000 Nm³/h
Gas Pressure: 200 mm Aq.
Turbo Fan Capacity:
75kW × 1,200rpm.

Fig. 9 電動泥炮
Electric Mud Gun
for Usinas Siderurgicas De Minas
Gerais S. A. (1961)

Capacity: 0.2 m³
Operation: Remote Push-Button
Control

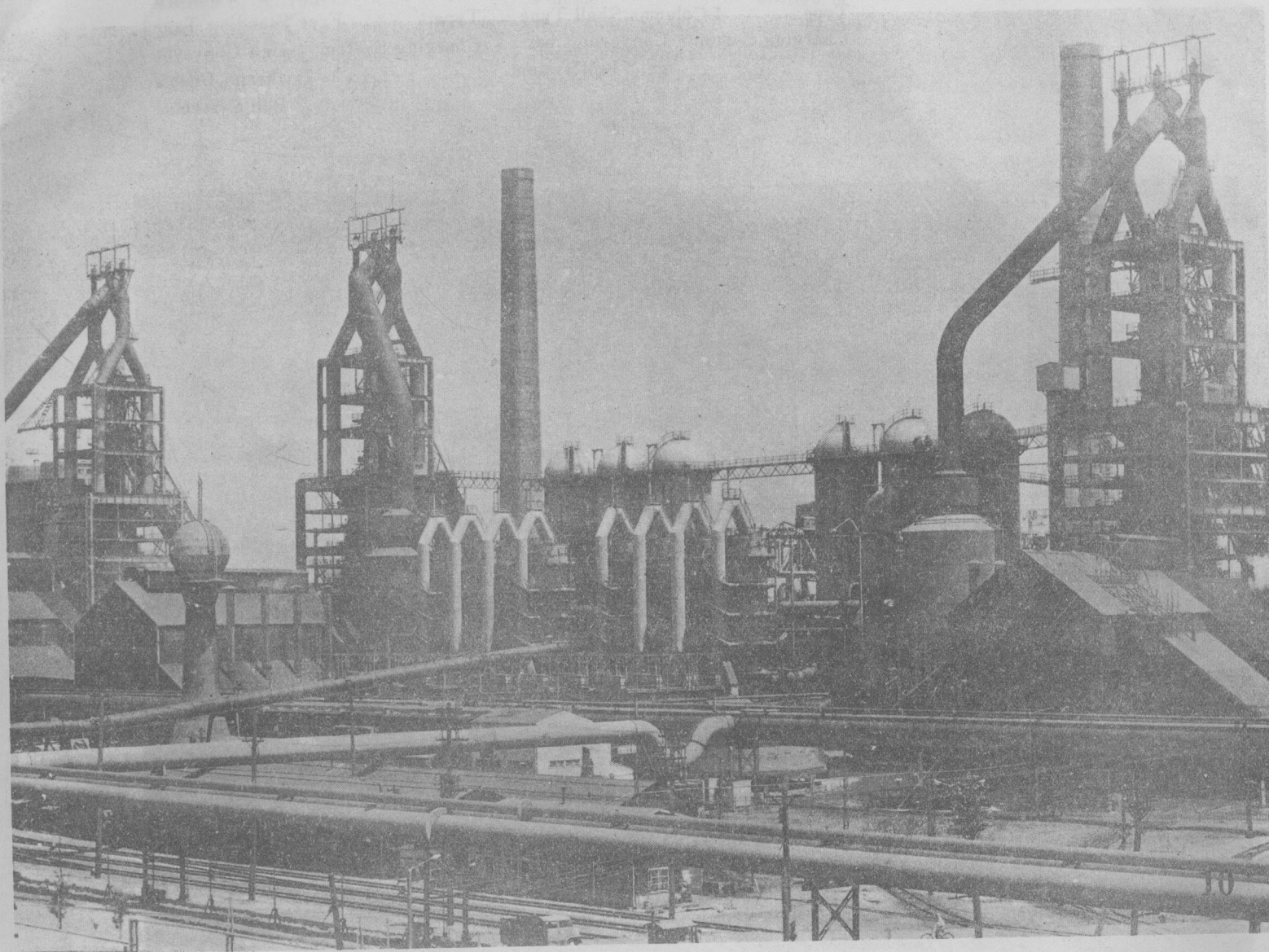


Fig. 10

Blast Furnace 高 爐

for Yawata Iron & Steel Co., Ltd.
(1962)

Capacity: 2,000 t/d

Type: 4-Columns Shell Type

Carging System: Inclined Skip
Double Bell
System

Fig. 11 高壓爐頂高爐
High-Top Pressure Blast Furnace
 for Fuji Iron & Steel Co., Ltd.(1963)
 Capacity: 1,200 t/d
 Type: 4-Columns Shell Type
 Charging System: Conveyor Charge, 3-Bell System

Fig. 12
Blast Furnace 高 爐
 for Osaka Steel Mfg. Co., Ltd.(1960)
 Capacity: 300 t/d
 Type: Free Standing Type
 Charging System: Belt Conveyor charge, Double Bell System

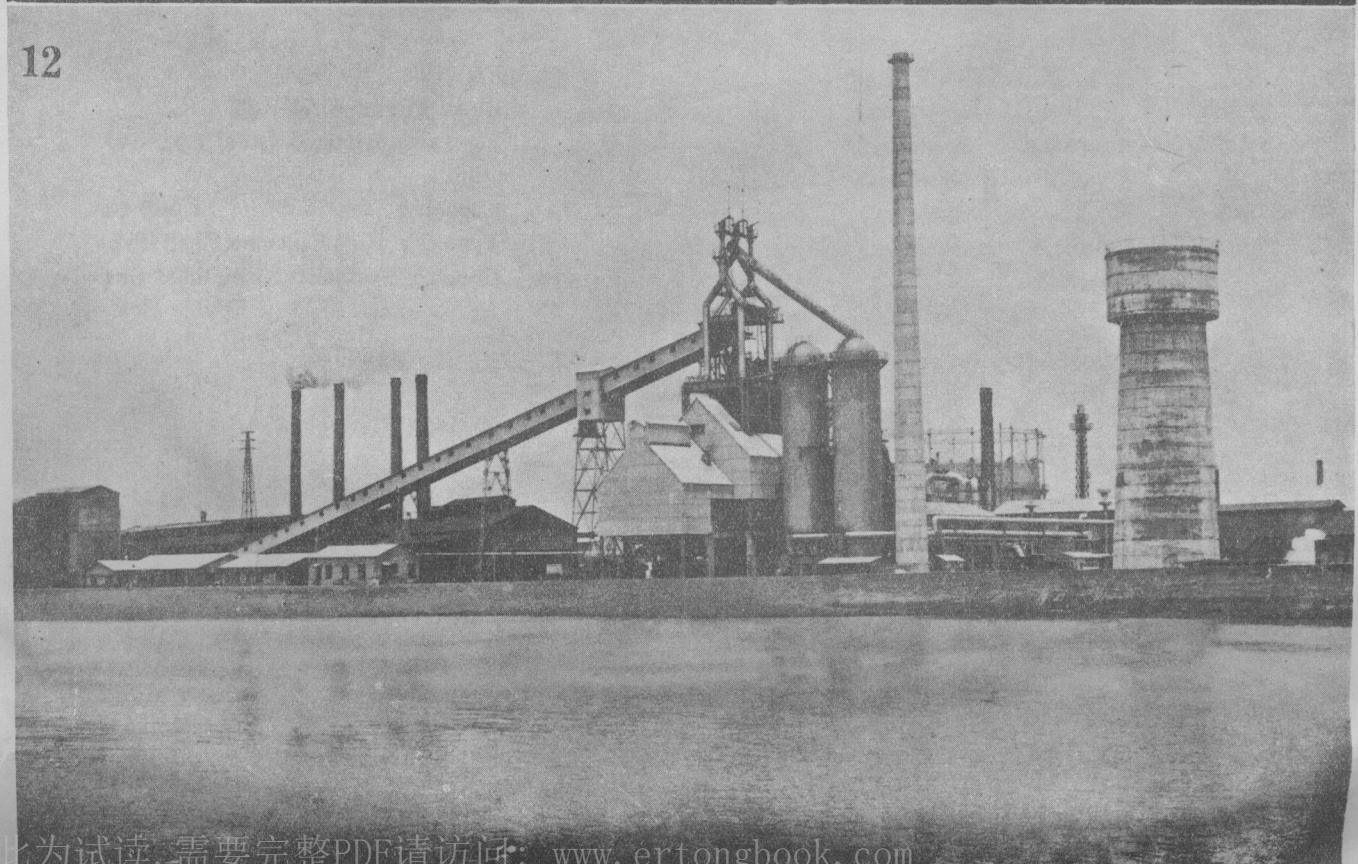
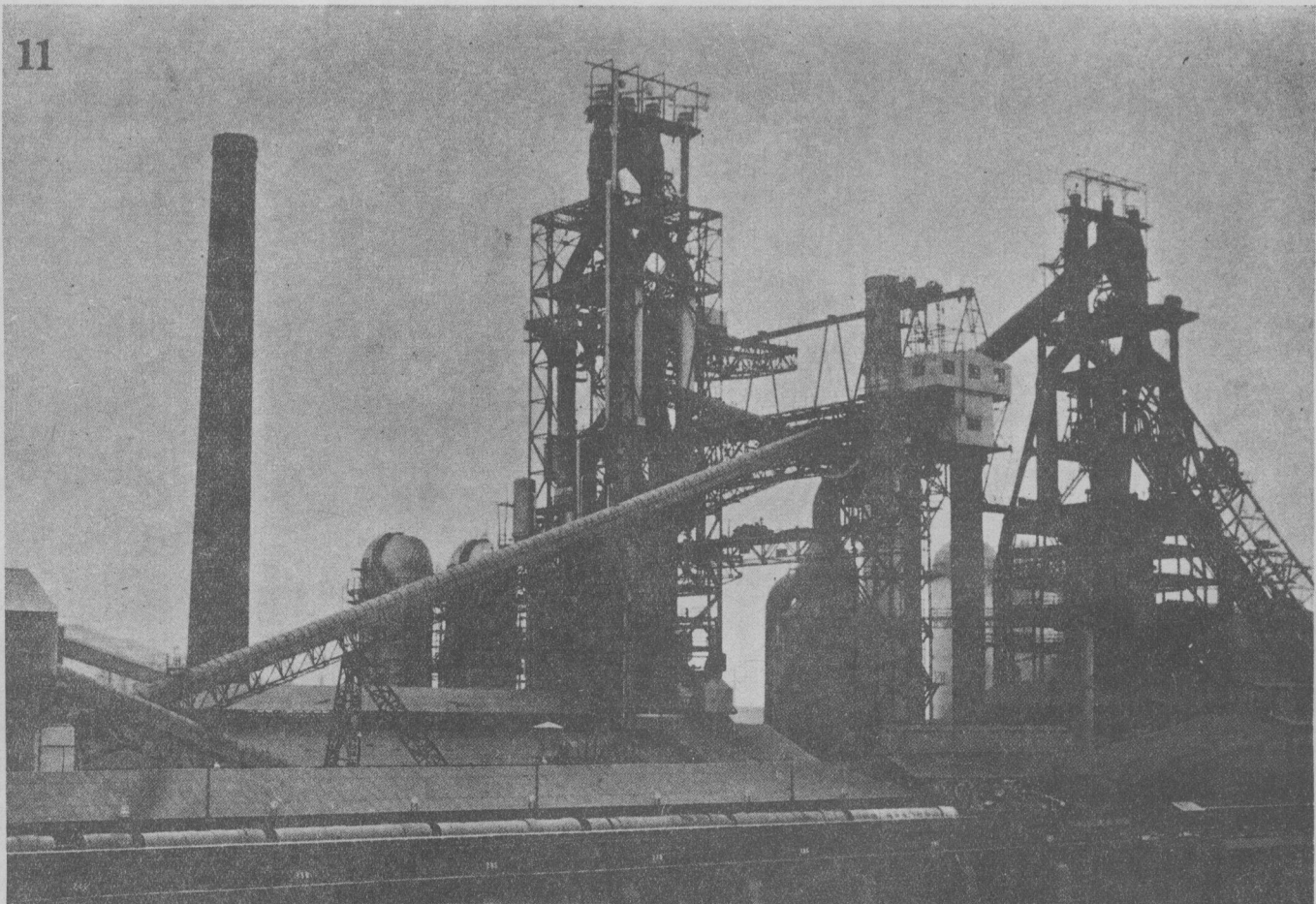


Fig. 13 高 爐

Blast Furnace

for Usinas Siderurgicas De Minas
Gerais S. A.(1961)

Capacity: 700 t/d

Type: 4-Columns Shell Type

Charging System: Inclined Skip
Double Bell

Fig. 14

Dry Seal Gas Holder 干封煤氣罐
for Nisshin Steel Works, Ltd.(1962)

Volume: 20,000 m³

Max. Diameter: 25,600 mm

Height of Drum: 45,000 mm

Angle Number: 16

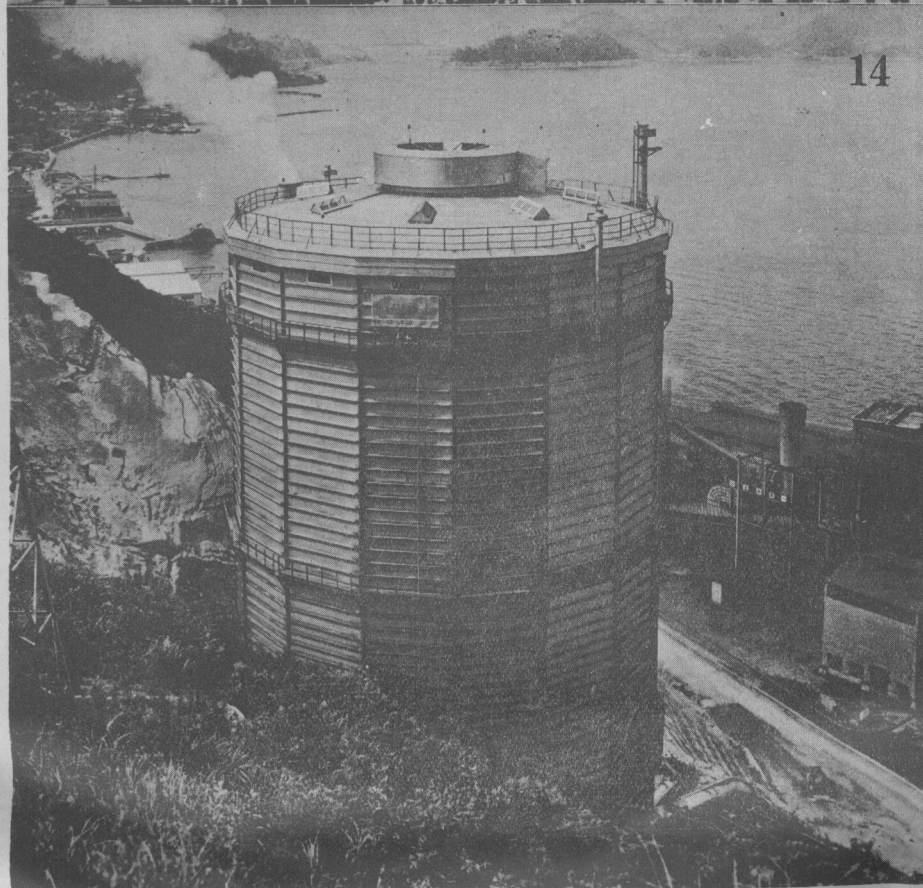
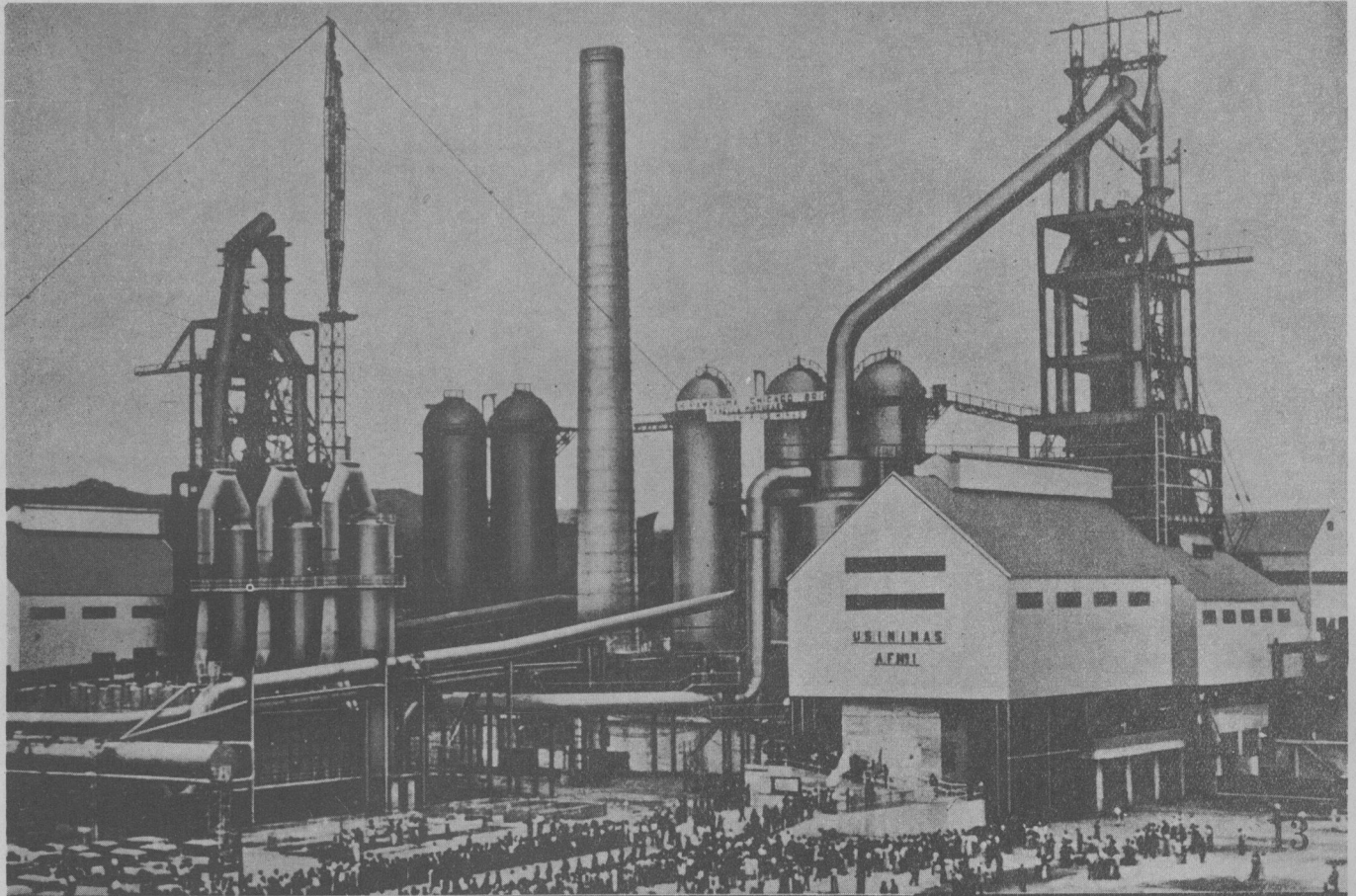


Fig. 15

Casting Machine 澆鑄機

for Kawasaki Steel Corp.(1952)

Capacity. 65 t/h (by one set)

Length: 43 m (each line)

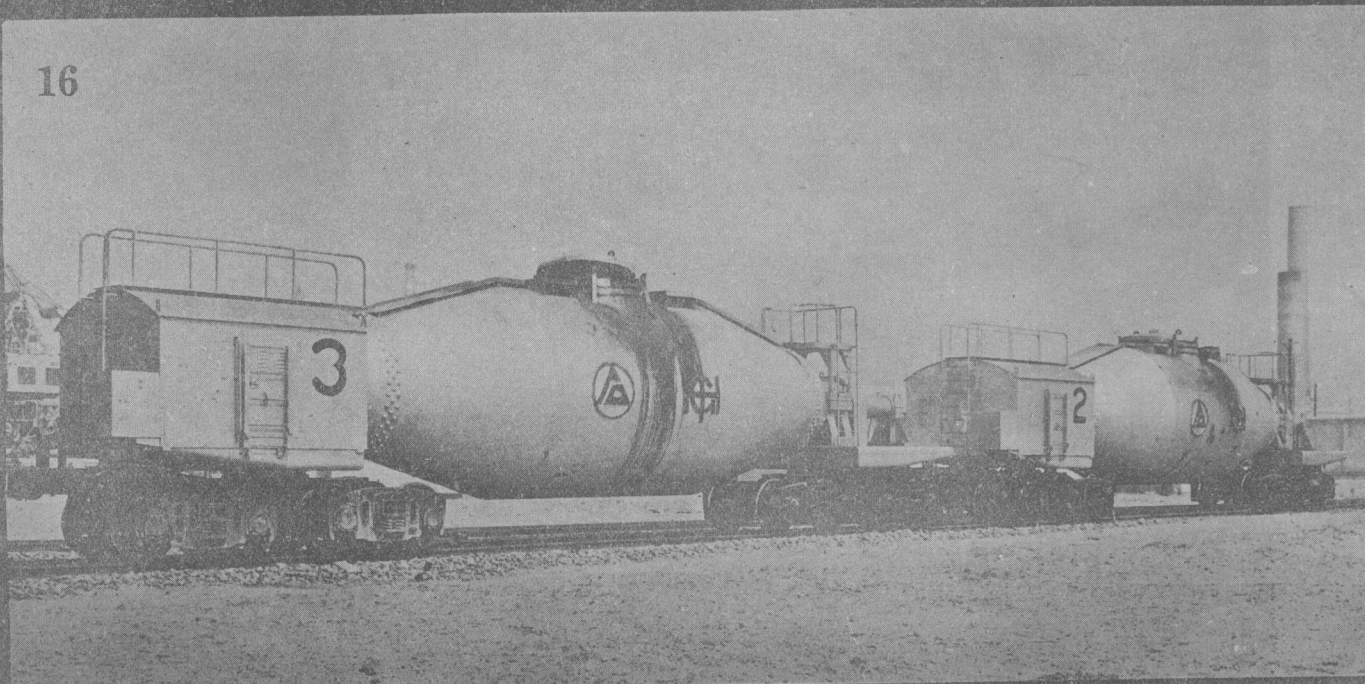
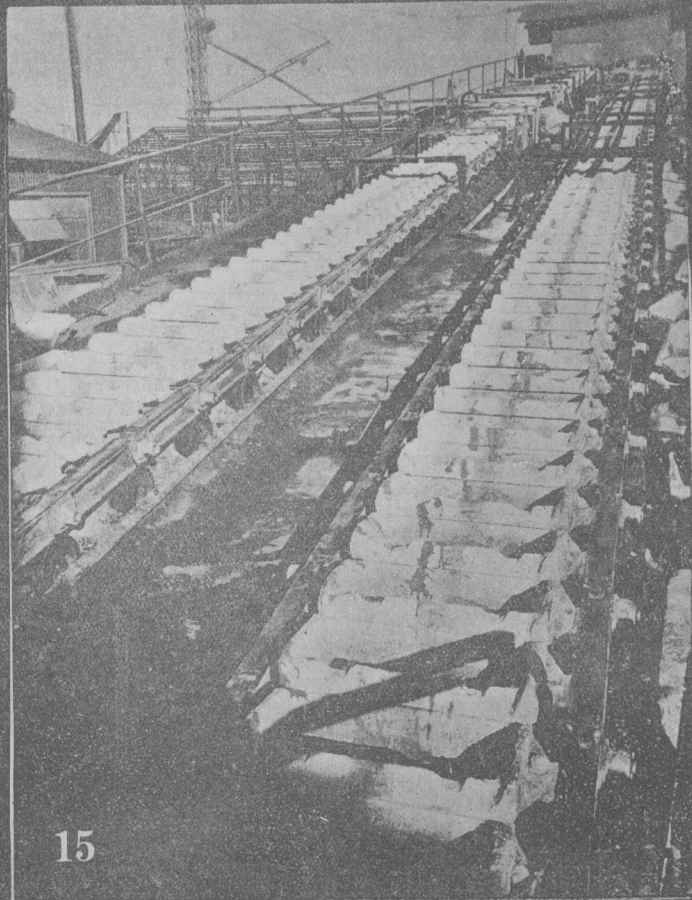
Fig. 16

Mixer Car 混鐵爐車

for Sumitomo Metal Industries, Ltd.
(1961)

Capacity: 130 t

Type: All Welded Shell
Self-Supporting Structure



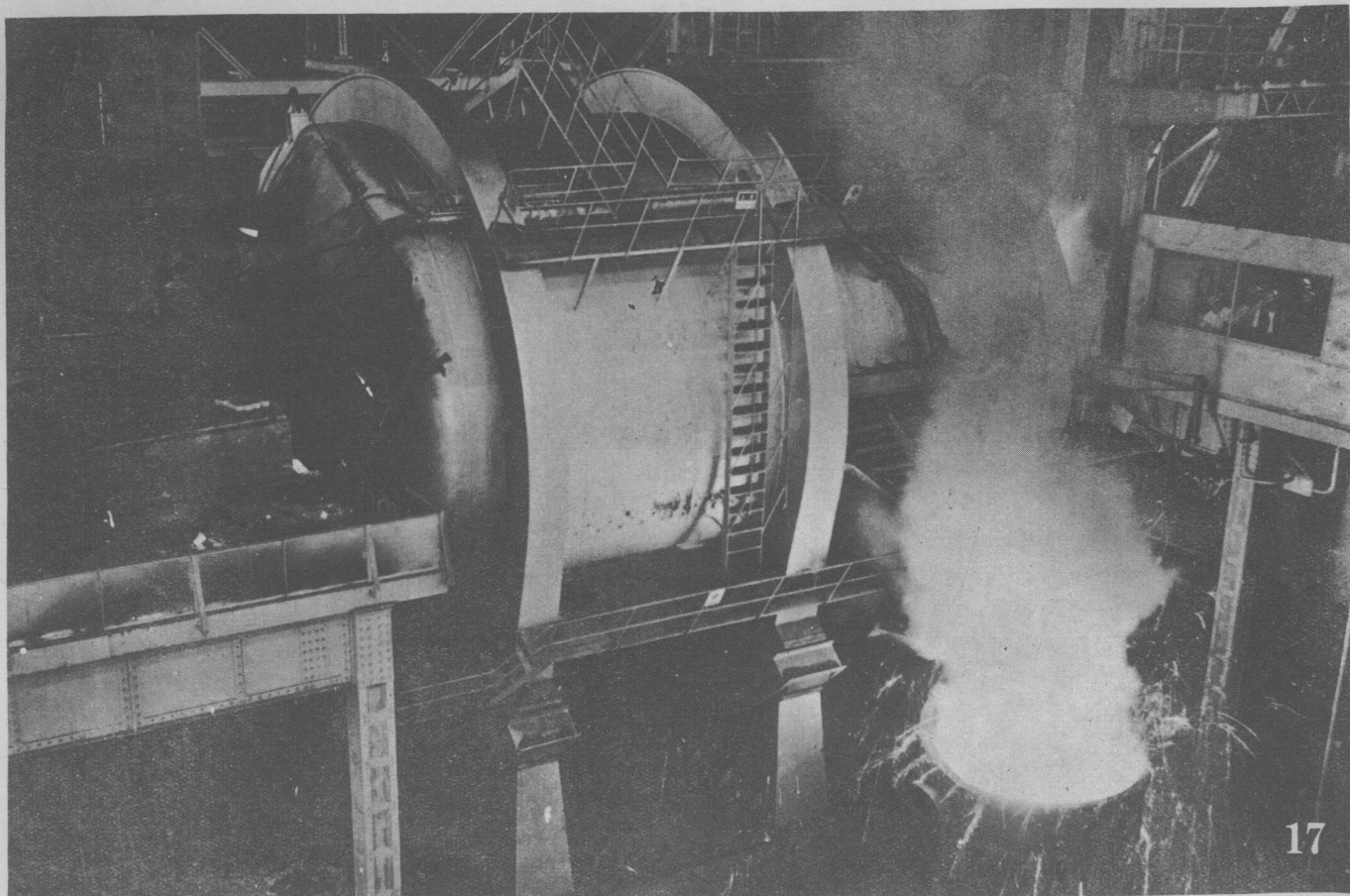


Fig. 17
Mixer 混鐵爐
 for Fuji Iron & Steel Co., Ltd. (1961)
 Capacity: 1,300 t
 Roller Support Segment Gear Drive

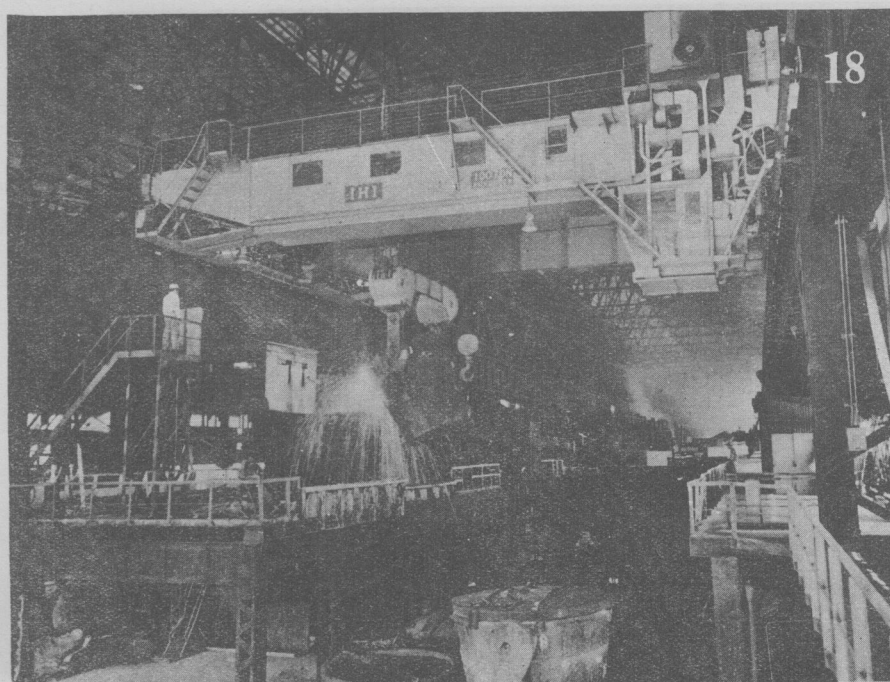


Fig. 18
Ladle Crane 注包起重機
 for Yawata Iron & Steel Co., Ltd. (1962)
 Capacity: Main. 100 t
 Aux. 20 t
 Speed: Travelling 60 m/min
 Hoisting main. 5 m/min
 aux. 7 m/min

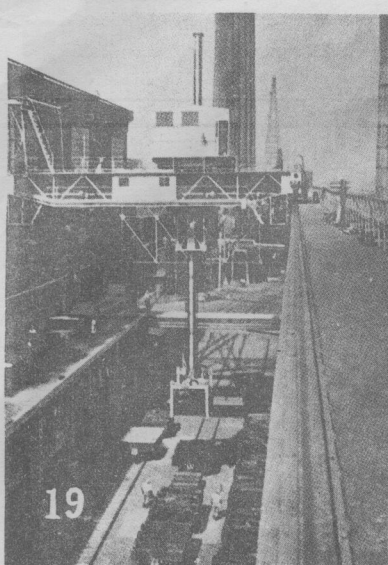


Fig. 19

Scrap Crane 廢料起重機

for Japan Steel & Tube Corp.(1954)

Capacity: 15 t

Speed:	Box hoisting	12 m/min
	Magnet hoisting	20 m/min
	Travelling	100 m/min
	Traversing	50 m/min

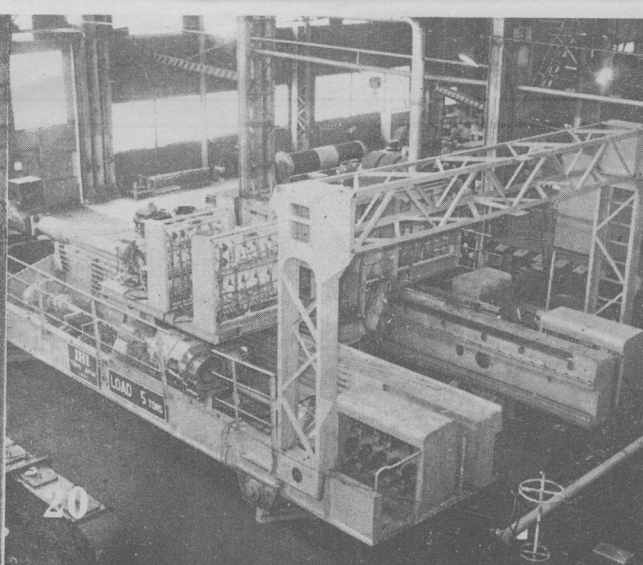


Fig. 20

Floor Charger 裝料機

for TaTa Iron & Steel Co., Ltd.,

India(1961)

Capacity:	5 t
Speed:	Travelling 90m/min
Span:	7.5m

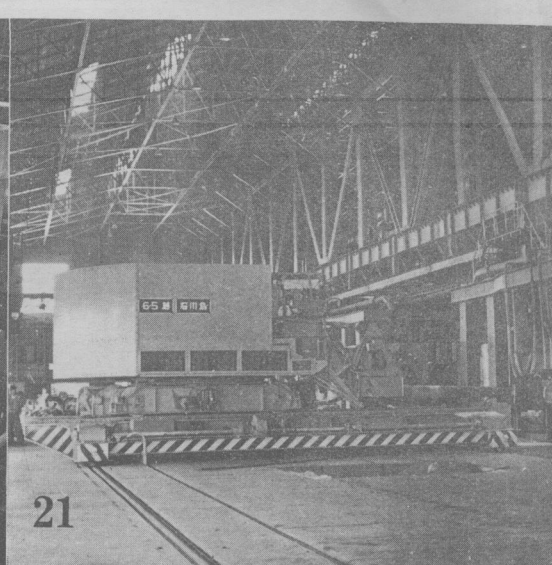


Fig. 21

Charging Crane 裝料起重機

for Japan Steel & Tube Corp.(1961)

Capacity: 6.5 t

Type:	Low floor Slewing Type
Span:	8.5 m
Speed:	Travelling 120 m/min
	Traversing 90 m/min
	Ram Rotation 15rpm.

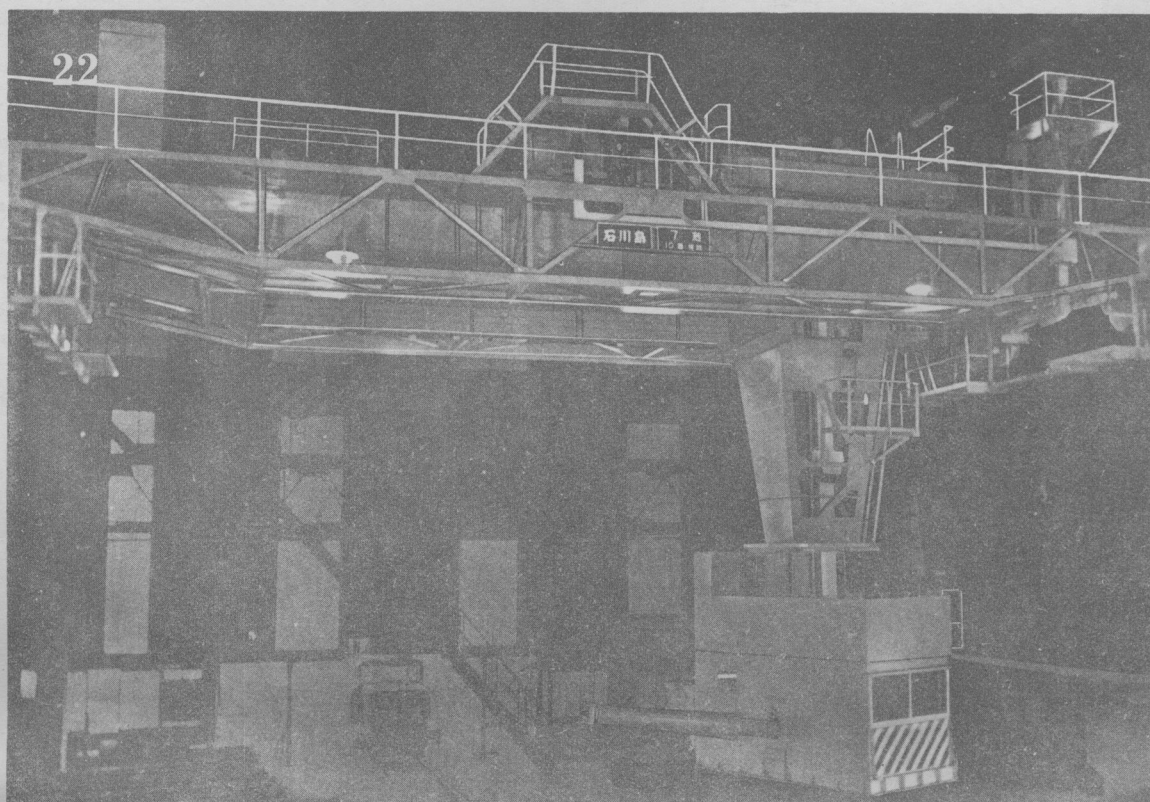
Fig. 22

Charging Crane 裝料起重機

for Amagasaki Iron & Steel Mfg,
Co.(1960)

Capacity: 7 t

	with 10t Auxiliary Trolley
Speed:	Travelling 90 m/min
	Hoisting main 4 m/min
	Aux. 12 m/min
	Rotation 4 rpm.



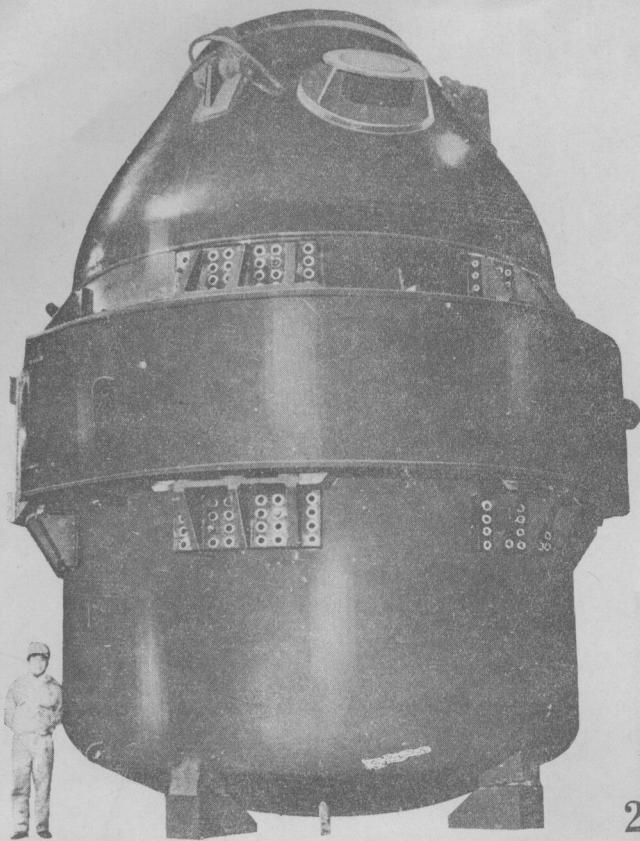


Fig. 23
LD Converter LD 吹氧轉爐
for Fuji Iron & Steel Co., Ltd.(1960)
Capacity: Ordinary 60 t
Max. 77 t
Type: Eccentric Construction
Trunnionring Type



Fig. 24
LD Converter LD 吹氧轉爐
for Fuji Iron & Steel Co., Ltd.(1961)
Capacity: Ordinary 70 t
Max. 100 t
Type: Symmetrical Construction
Trunnionring Type

Fig. 25
Turbo Compressor 透平壓縮機
for Kawasaki Steel Corp.(1960)
Type: Double suction six stages
Capacity: 28,000 Nm³/h
Max. 35,300 Nm³/h
Pressure: 4.9 kg/cm²G
Motor: 3,100 kW 3,000 rpm.

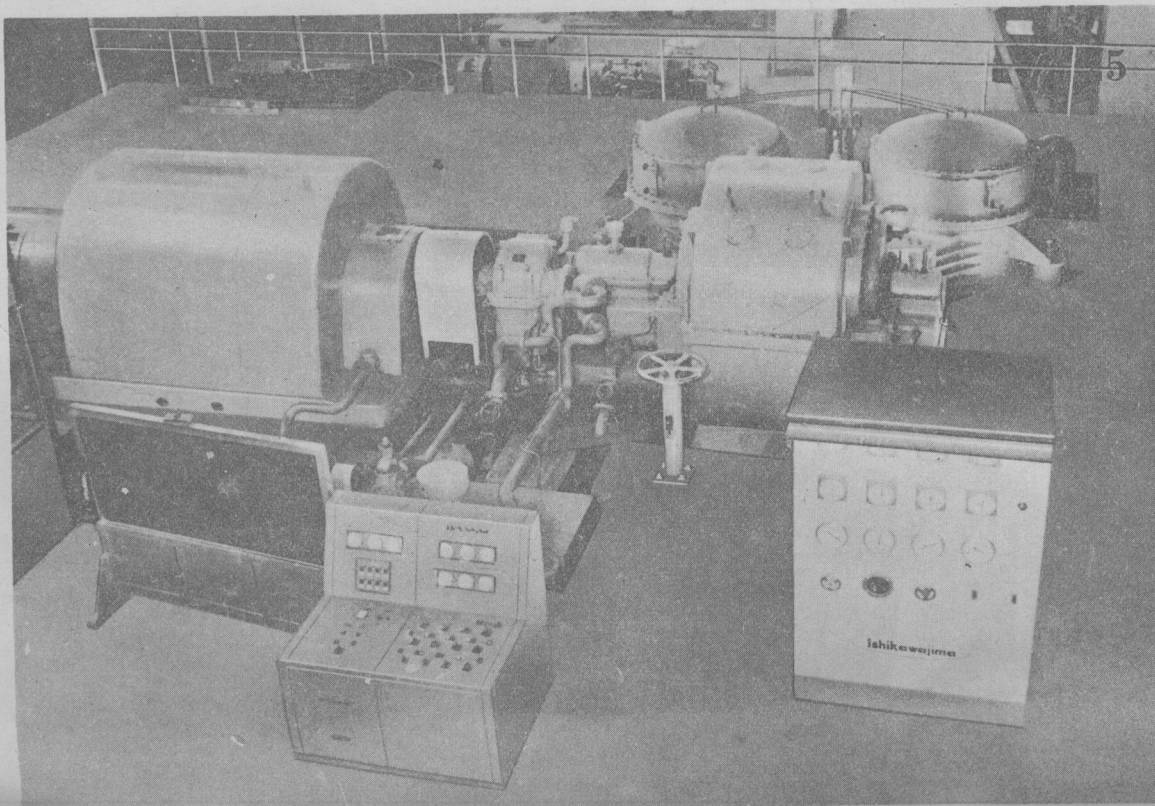


Fig. 26

Electric Arc Melting Furnace
for Tokushu Seiko Co., Ltd.

爐頂裝料式電弧煉鋼爐

Capacity: 25 t

容量 25 噸

Type: Top Charge Heroult Type

