



511812

KEY INFORMATION CAPABILITIES I P Huse AS



Revision History			
Rev	Date	Issue purpose	Revised by
18	06.06.24	Updated certificates, and machines	MAH
17	06.06.24	Updated certificates, and machines	MAH
16	14.04.23	Updated certificates	MAH
15	21.03.23	Updated DNV Certificate valid to 2026 , removed Tacchi	MAH
14	06.03.23	Updated certificates	MAH
13	09.08.21	Updated Certificate JQS	MAH
12	23.02.21	Updated Certificate JQS	MAH
11	21.09.20	Updated Certificate JQS	MAH
10	11.08.20	Updated Certificate of registration NCE	MAH
00	06.10.16	First issue	MNL



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1. AREA/PERSONNEL/EQUIPMENT

1.1 ASSEMBLY WORKSHOP



General

Hall	Assembly
Size	≈ 1000 m ²

Capacity

Width	22 m
Length	50 m
Height	20 m
Door	12 m

Cranes

Main crane	240 ton
Beam cranes	7 x 1 ton
Lifting height – Hook	14 m
Test pit with 4x500t capacity	L6000 x W2500 x H2500

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1. AREA/PERSONNEL/EQUIPMENT

1.2 WELDING WORKSHOP



General

Hall	Welding
Size	≈ 1000 m ²

Cranes

Main crane	160 ton
Beam cranes	6 x 1 ton

Capacity

Width	22 m
Length	50 m
Height	20 m
Door	12 m

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1. AREA/PERSONNEL/EQUIPMENT

1.3 CUTTING DEPARTMENT



General

Hall	Cutting
Size	≈ 600 m ²

Our cutting department can handle both heavy plates of coarse dimensions as well as smaller plates. With a cutting capacity up to 300 mm of thickness we can manufacture a wide range of components.

Capacity

Width	16 m
Length	40 m
Height	10 m
Door	9 m





1. AREA/PERSONNEL/EQUIPMENT

1.4 SURFACE TREATMENT



Sandblasting

Hall	Surface treatment
Size	≈ 1240 m ²

The surface treatment facilities are divided into five different halls with a combined area of approximately 1240 m². This includes office space and technical rooms.

When producing equipment for the marine- and oil-business the surface treatment is of utmost importance. That is why IP Huse have invested a great amount of resources in these disciplines.

Our department performs sandblasting, washing and painting. Needless to say, the facilities are adapted to handle big components.

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1. AREA/PERSONNEL/EQUIPMENT

1.5 QUAY AND QUAY CRANE



Quay	
Regulations	ISPS ON/OFF
Length	175 m
Depth	7 m
Heigth from water level	+3.05
Max. vessel length	150 m

Quay crane capacity	
135 ton	12.5 m
65 ton	22 m
20 ton	28 m

Our location may, for some, seem to be at the very outskirts of Europe. We, however, perceive this to be the very basis of our success. Situated a short walk from the shores of the Atlantic Ocean and with a deepwater harbour on site, we have the world within our reach.

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1. AREA/PERSONNEL/EQUIPMENT

1.6 FORKLIFTS AND HYDRAULIC TRANSPORT CARRIAGES

Forklifts	
50 ton	SVE Truck
25 ton	SVE Truck



When handling and producing heavy components, the internal transportation logistics are of severe significance. Thus we have invested in several high capacity forklifts and hydraulic carriages.

50 ton IP Huse number: 9.110.145.008
25 ton IP Huse number: 9.110.145.009

Hydraulic transport carriages	
450 ton	Hydraulic transport carriage
250 ton	Hydraulic transport carriage



Our workshop enables these multiwheelers to move and maneuver inside and in between the different departments. This makes for a secure and efficient production.

450 ton IP Huse number: 9.106.045.001
250 ton IP Huse number: 9.106.045.002



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1. AREA/PERSONNEL/EQUIPMENT

1.7 PERSONNEL



Capacity	
Engineering department	10
Machine workshop	26
Assembly workshop	18
Surface treatment	6
Welding workshop	30

With a well educated engineering department and experienced workshop personell we are ready to take on every challenge.

As history reveals, IP Huse AS as a company is able to develop and adapt according to market demands and across industry disciplines. A mechanical workshop with almost 100 years of traditions. Traditions to explore and revolutionize.

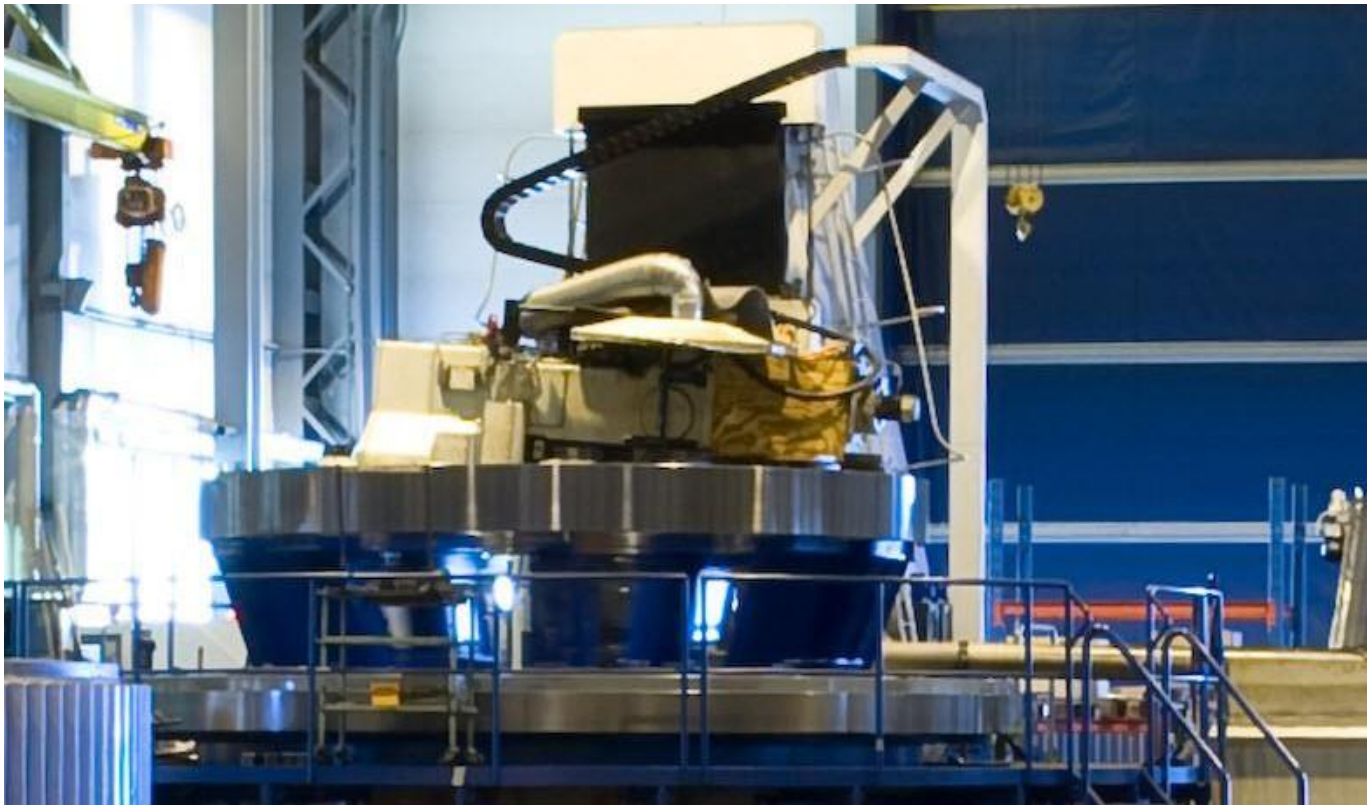
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2. ADVANCED MACHINE CENTRES

2.1 GEAR CUTTING MACHINES



General		Capacity	
Brand	SerWeMa	Max. diameter (- tool diameter)	7113 mm
Model	ZFWZ 6300	Max. height	1364 mm
Control	Siemens 840 D	Weight capacity	80 000 kg

Brand	Model	Max. diameter hobbing (-D tool)	Max. diameter single tooth (-D tool)	Max. height	Max. weight
Kolomna	3TC	5475 mm	5474 mm	960 mm	
SerWeMa	Kolomna 3TC	4000 mm	5280 mm	1200 mm	
SerWeMa	ZFWZ 3150	3280 mm	3280 mm	1005 mm	30 000 kg
SerWeMa	ZFWZ 2000	2320 mm	2320 mm	1124 mm	15 000 kg

IP Huse number: 9.235.150.003

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2. ADVANCED MACHINE CENTRES

2.2 CARNAGHI VERTICAL TURNING CENTRE



General	
Brand	Carnaghi
Model	AC 52 TM 4800
Control	Siemens 840 D

Capacity	
Table diameter	4800 mm
Max. diameter	5200 mm
Max. height	2500 mm
Max. weight	80 000 kg

IP Huse number: 9.240.150.001





2. ADVANCED MACHINE CENTRES

2.3 HANKOOK VERTICAL TURNING CENTRE



General	
Brand	Hankook
Model	VTC 50 - 65
Control	Siemens 840 D

Capacity	
Max. diameter	6500 mm
Max. height	3000 mm
Table diameter	5000 mm
Weight capacity	60 000 kg

IP Huse number: 9.240.150.003

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2. ADVANCED MACHINE CENTRES

2.4 PAMA BORING AND MILLING MACHINE



General

Brand	Pama
Model	Speedram 3000
Control	Siemens 840 D

Table capacity

Total area	3500 x 3000 mm
Loading capacity	60 000 kg
Wandering indexing table (V)	2000 mm

Working range

Column longitudinal travel (X)	15 000 mm
Headstock vertical travel (Y)	5000 mm
Axial travel of spindle ram (Z)	1400 mm
Boring spindle axial travel (W)	1200 mm
Total axial travel (W+Z)	2600 mm
Angle head	Yes

Floor plates

Loading capacity	15 000 kg/m ²
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IP Huse number: 9.230.150.005

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Document number: 511812

Revision: 18

Originator: MNL - 10.10.2016

Verified: MAH

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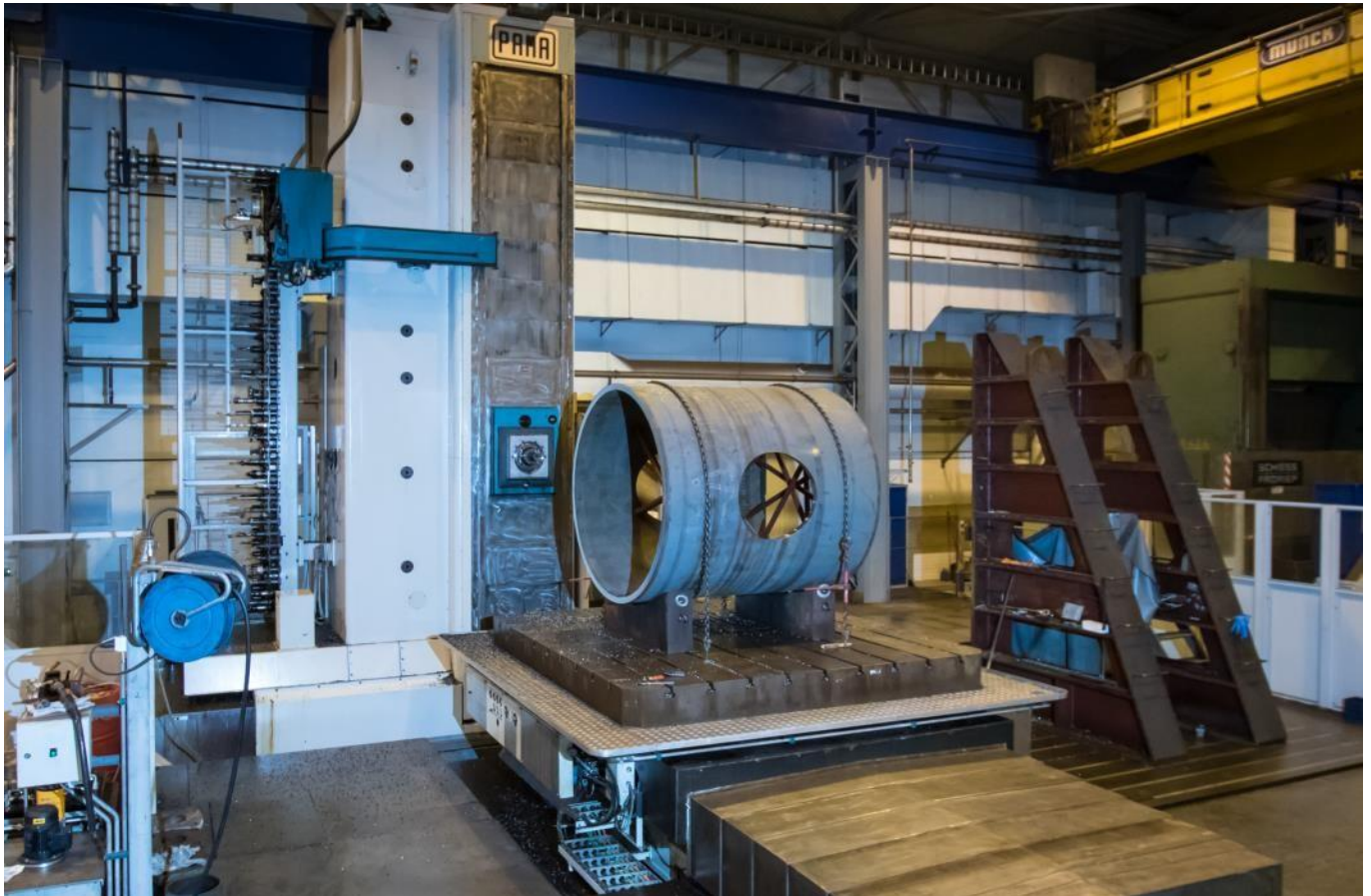
IP Huse AS
N-6296 Harøy
www.iphuse.no
iph@iphuse.no





2. ADVANCED MACHINE CENTRES

2.5 PAMA BORING AND MILLING MACHINE



General

Brand	Pama
Model	Speedram 2000
Control	Siemens 840 D

Table capacity

Total area	3000 x 3000 mm
Loading capacity	80 000 kg
Wandering indexing table (V)	1250 mm

Working range

Column longitudinal travel (X)	8000 mm
Headstock vertical travel (Y)	4500 mm
Axial travel of spindle ram (Z)	1200 mm
Boring spindle axial travel (W)	1000 mm
Total axial travel (W+Z)	2200 mm

Floor plates

Loading capacity	15 000 kg/m ²
------------------	--------------------------

IP Huse number: 9.230.150.006

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2. ADVANCED MACHINE CENTRES

2.6 ZAYER MILLING MACHINE



General	
Brand	Zayer
Model	30 KMU 13000
Control	Siemens 840 D

Capacity	
Table LxW	13 000 x 1700 mm
Travel XxYxZ	11 400 x 1250 x 2000 mm
Weight capacity	20 000 kg
Horizontal indexing table	D = 800 mm
Vertical indexing table	D = 800 mm
Angle head	0.001°
Tool magazine	100 tools

IP Huse number: 9.230.142.003

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2. ADVANCED MACHINE CENTRES

2.7 MAG G&L 1600 MC

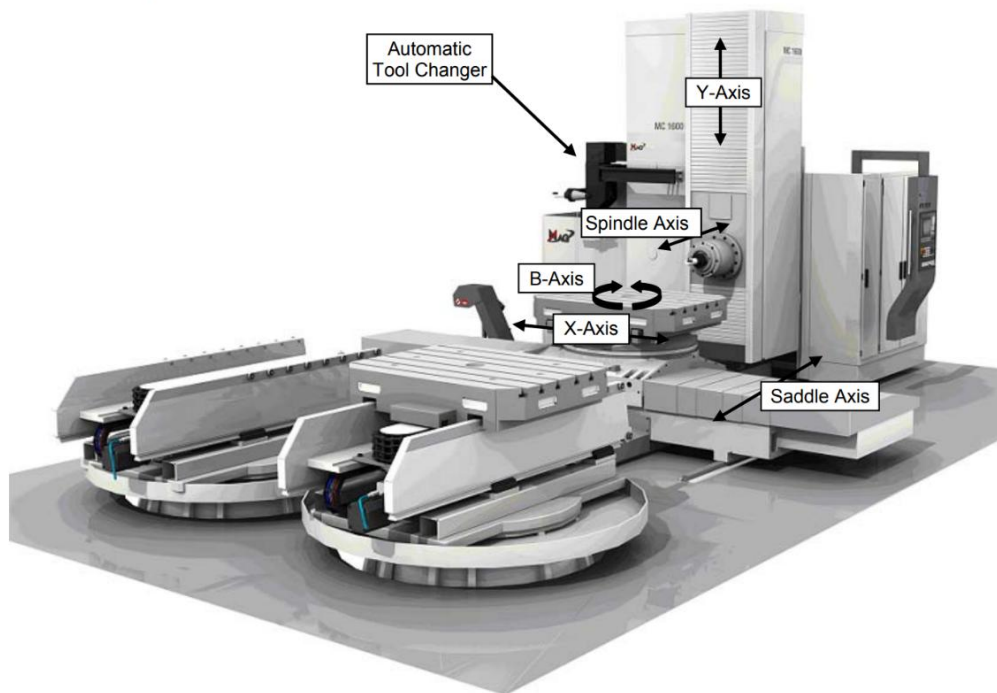


FIGURE 1.20 - 3
Illustration of MC1600

General	
Brand	MAG
Model	1600 MC
Control	Siemens 840 D

Capacity	
Table LxW	2 pcs 2500x1600
Travel X	2000
Travel Y	TBA
Travel Z	1250
Travel spindle W	TBA
Weight capacity	TBA
Vertical table	1300
Angle head	Yes
Tool magazine	Yes

IP Huse number: 9.230.143.002

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2. ADVANCED MACHINE CENTRES

2.8 CNC TURNING/DRILLING/MILLING CENTRE



General	
Brand	Millturn
Model	WFL M120 / 5000
Control	Siemens 840 D

IP Huse owns two of these Millturn machines:
WFL M120 / 5000 and WFL M120 / 3000.

Capacity	
Maximum swing over bed	1160 mm
Distance between centers	5000 mm
Weight capacity between centers	8000 kg
Tool magazine	108 + 3
Effect main spindle	90 kW
Effect milling spindle	55 kW
Travel X	920 mm
Travel Y	650 mm
Travel Z	5330 mm

IP Huse number: 9.210.144.010

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2. ADVANCED MACHINE CENTRES

2.9 MULTITASKING MILLING-TURNING MACHINE



General

Brand	Soraluce
Model	FMT-4000
CNC control	Siemens 840 D SL

Precise milling and turning of large and complex components. The Soraluce FMT centre makes it possible to have both unit and serial productions.

Capacity

Table LxWxH	4500x1240x730 mm
Max weight	8000 kg
Spindle power	43 kW
Spindle speed range	4000 rpm
Tool magazine	40/60/80/100/120
Turning table diameter	1600 mm
Travel X	4000 mm
Travel Y	1600 mm
Travel Z	1300 mm

IP Huse number: 9.220.143.004

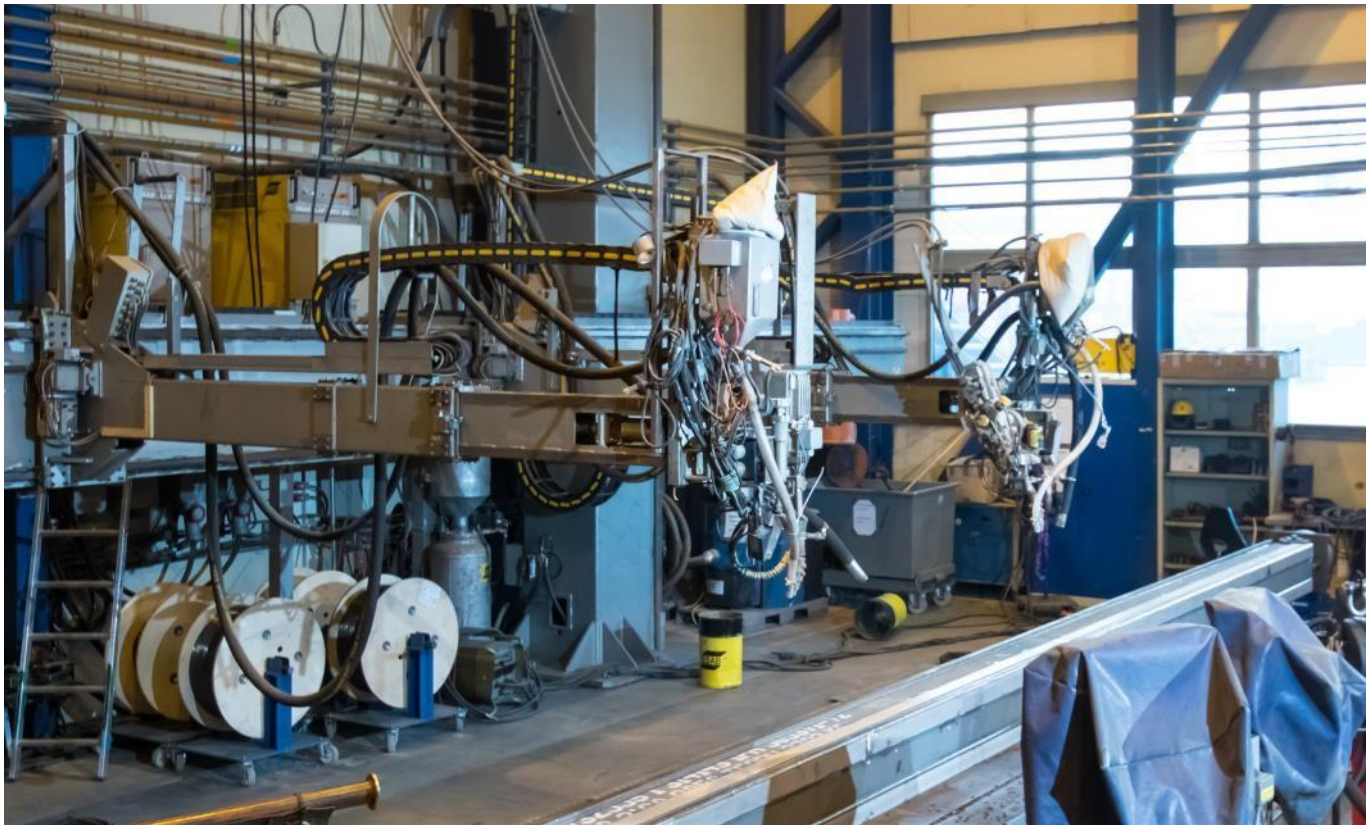
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3. WELDING

3.1 ESAB CAB 600 WELDING PORTAL



General

Brand	Esab
Model	CAB 600
Control	PEK

Capacity

Max. diameter	7000 mm
Max. length between nossels	12 000 mm
Max. load	160 ton (crane capacity)

Process

Twin sub arc welding on both nossels simultaneously.

IP Huse number: 9.260.160.002

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3. WELDING

3.2 ESAB CAB 460 WELDING CRANE



General

Brand	Esab
Model	CAB 460
Control	PEK

Robot capacity

Max. diameter (on table)	7000 mm
Boom height	6000 mm
Boom extension	3000 mm

Table capacity

Weight capacity [0° tilt]	120 000 kg
Weight capacity [90° tilt]	30 000 kg
Table diameter	6500 mm
Max. tilt angle	90°

IP Huse number: 9.260.160.003

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3. WELDING

3.3 PEMA 35 000 ROBOTIC WELDING STATION



General

Brand	Pemamek
Model	35 000 FAS
Control	DX100

Robot

Handling robot	Motoman MH50-20
Axis	6
Max. load	20 kg
Max. reach	3106 mm
Repeatability	± 0.15 mm

Table capacity

Max. loading capacity	35 000 kg
Max. workpiece diameter	6000 mm
Axels	3
Travel X	1500 mm
Travel Y	1800 mm
Travel Z	3000 mm
Max. offcet from table surface	700 mm (at 35 000 kg)
Max. tilting angle	± 25°

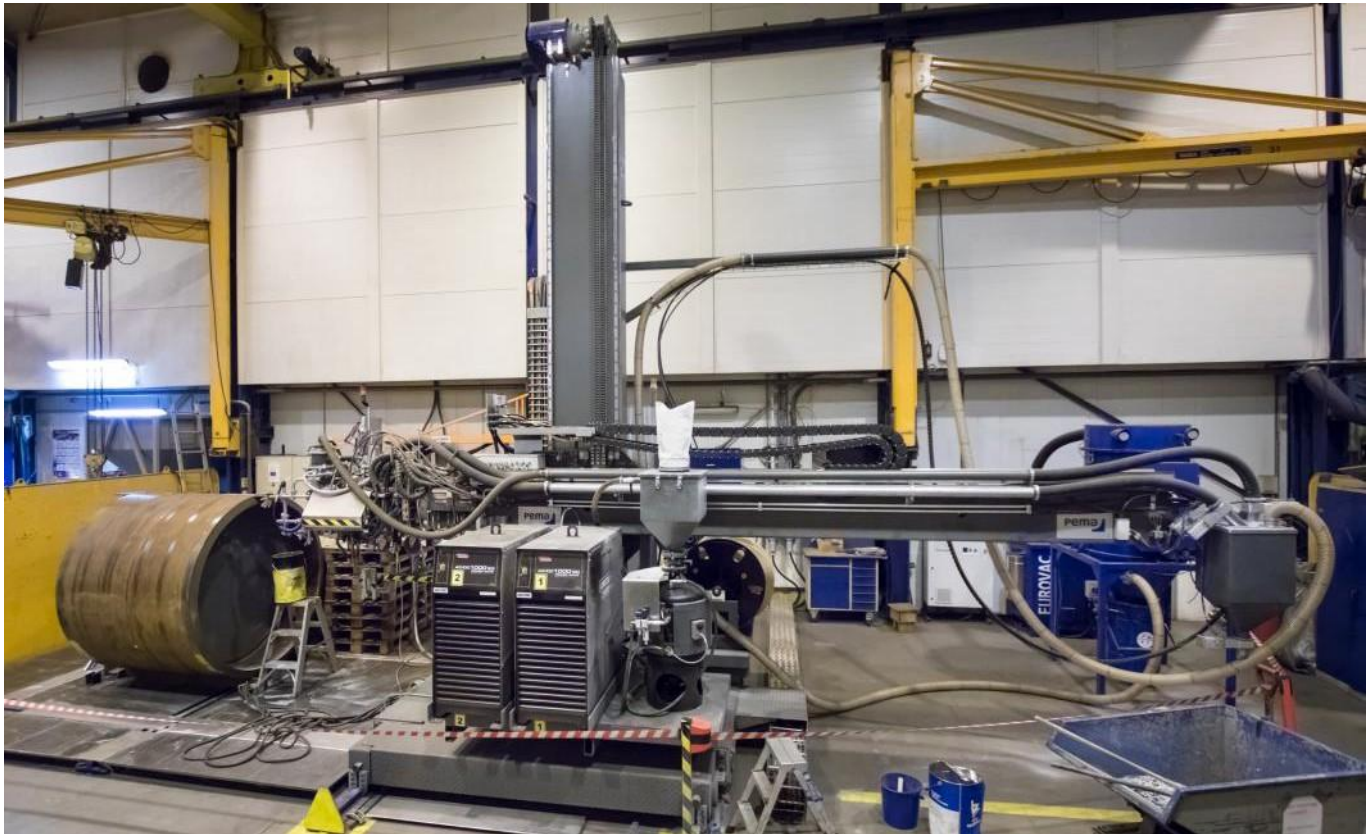
IP Huse number: 9.260.160.040

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3. WELDING

3.4 PEMAMEK AUTOMATIC C&B STATION



General	
Brand	Pemamek
Model	Automatic C&B 4x4 station
Control	Pema advanced HMI

Capacity	
Min. diameter	900 mm - outside
	1350 mm - longitudinal inside welding
Max. diameter	3700 mm
Min. length	900 mm
Max. length	3000 mm
Min. plate thickness in sections	40 mm **
Max. plate thickness in sections	80 mm **
Max. weight	15 000 kg

IP Huse number: 9.260.132.007

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3. WELDING

3.5 YASKAWA WELDING ROBOT

General

Brand	Yaskawa
Model	MH 50 II
Control	XRC and DX100

Robot capacity

Railing length	13 000 mm
Axis	9

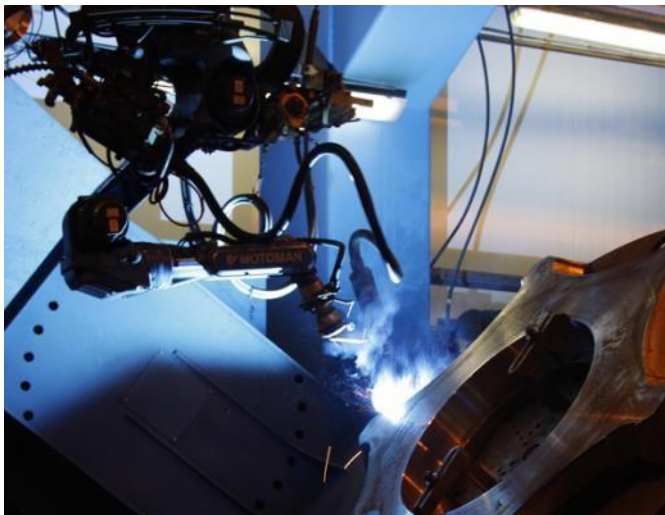


Table capacity

Weight capacity	7500 kg
Axis	2



IP Huse number: 9.260.131.001

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4. CUTTING

4.1 MESSER OMNIMAT L 6000



General	
Brand	Messer
Model	Omnimat L
Control	Global controller

Capacity	
Max. width	4500 mm
Max. length	12 000 mm
Max. thickness	300 mm

This is a CNC plate cutter with a steady and precise design, constructed for thermal cutting methods (oxygen) with tree torch bevel cutting head.

IP Huse number: 9.255.133.005/002

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4. CUTTING

4.2 MESSER OMNIMAT L 6000, PLASMA



General	
Brand	Messer
Model	Omnimat L 6000
Control	Messer Global Control

This machine is used for plasma cutting and marking of steel plates with a high efficiency and accuracy owing to numerical control when cutting.

Capacity	
Max. width	5000 mm
Max. length	9500 mm
Max. thickness	50 mm

For this purpose, this machine has been designed and manufactured placing emphasis on high speed, high accuracy, high reliability, high workability and others required for every NC cutting system.

IP Huse number: 9.255.133.006

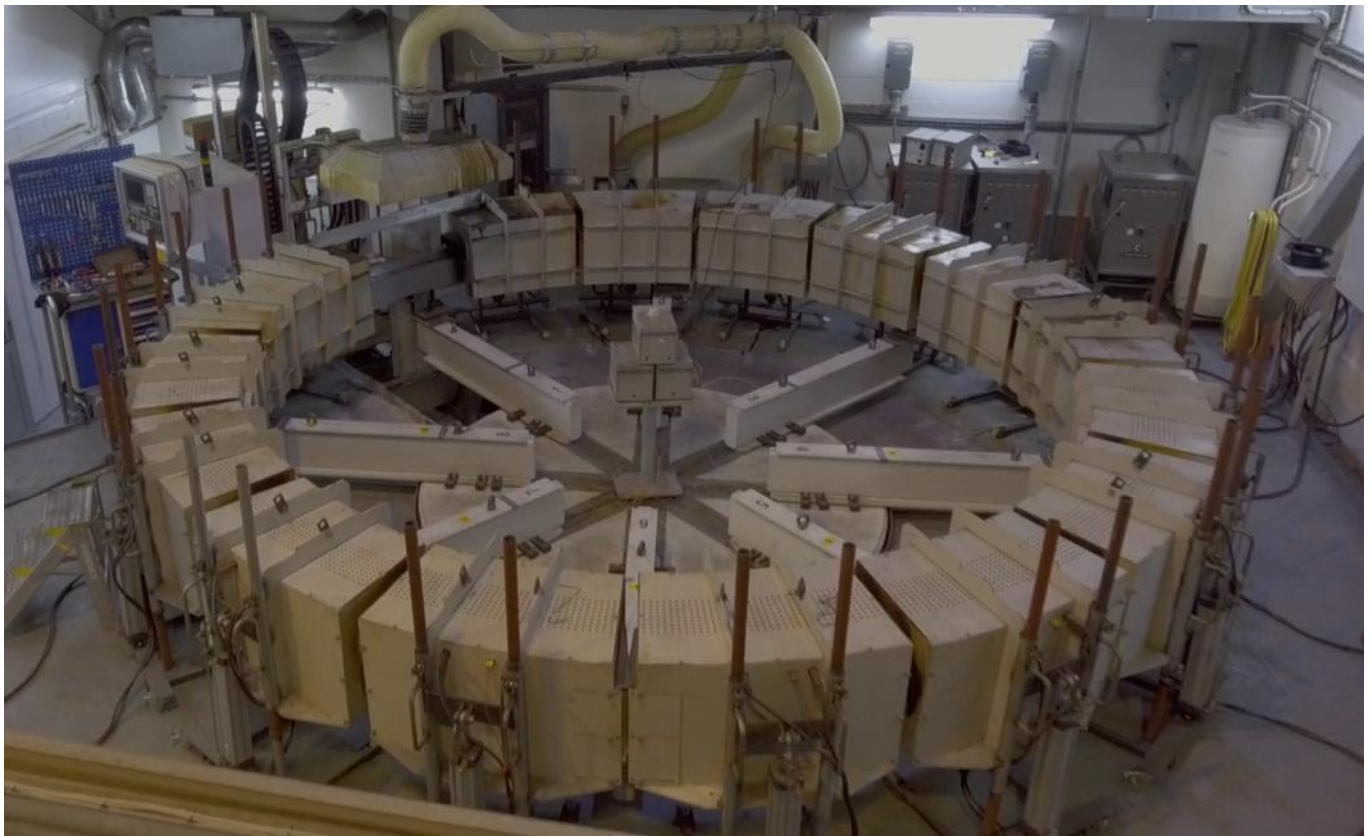
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5. HARDENING / TEMPERING

5.1 INDUCTION HARDENING MACHINE FOR GEAR WHEELS



General	
Brand	EFD Induction
Model	1-1075
Control	Siemens 840 D

Capacity	
Max. diameter	6500 mm
Hardening temperature	950 °C
Max. hardening depth	7 mm

We can offer treatment of a wide range of gear wheel modules, as our induction coils are custom made for every different tooth profile.

IP Huse number: 9.235.148.010

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5. HARDENING / TEMPERING

5.2 INDUCTION HARDENING MACHINE FOR PINIONS



General

Brand	EFD Induction
Model	1-0640
Control	Siemens 840 D

We can offer treatment of a wide range of gear wheel modules, as our induction coils are custom made for every different tooth profile.

Capacity

Max. diameter	900 mm
Hardening temperature	950 °C
Max. hardening depth	7 mm

This machine enables the process of tempering and hardening at the same time, as this machine is a dual table hardener.

IP Huse number: 9.235.148.001

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5. HARDENING / TEMPERING

5.3 IPSEN OVEN

General

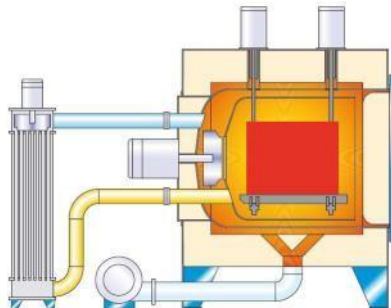
Brand	Ipsen
Model	VDR(N)-514-E
Control	PLC and Nitro-Prof 4

Capacity

Temperature range	150 - 750 °C
Load dimensions (WxLxH)	610 x 910 x 610 mm
Weight capacity	800 kg

Treatments

Post-oxidation
Nitrating
Nitrocarburizing
Tempering
Annealing



IP Huse number: 9.235.148.011

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6. SURFACE TREATMENT

6.1 BLASTMAN

General

Brand	Blastman
Model	B20C
Control	Manual and Teach-in

Capacity (sandblasting of a cubical object)

Length	9500 mm
Width	7000 mm
Height	6000 mm

The sandblasting capacity vary from object to object according to the workpiece geometry.

Measurements listed above are the boundary values that allows the sandblaster to maneuver around the cubical object.

Railings

Length	15 000 mm
Width	10 000 mm

Blastman B20C has an additional control cabin, which moves longitudinally with the robot. The cabin can be independently turned and moved vertically and across the blast room to cover every part of it. From the air-conditioned, dust- and sound-proof cabin, the operator has clear sight of the workpiece when programming the robot in teaching mode or when blast cleaning individual workpieces by manual control.



IP Huse number: 9.125.182.040

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MANAGEMENT SYSTEM CERTIFICATE

Certificate no.:
95995-2011-AQ-NOR-NA

Initial certification date:
19 April 2011

Valid:
20 April 2023 – 19 April 2026

This is to certify that the management system of

IP Huse AS

Industrivegen 11, 6296 Harøy, Norway

has been found to conform to the Management System standards:

ISO 9001:2015/ ISO 3834-2:2021

This certificate is valid for the following scope:

Sales, design and manufacturing of winches, handling equipment and mechanical products for floating wind, offshore, marine, hydropower and other industry.

Place and date:
Høvik, 16 March 2023

For the issuing office:
DNV - Business Assurance
Veritasveien 1, 1363 Høvik, Norway



Jøran Laukholm
Management Representative

Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid.

ACCREDITED UNIT: DNV Business Assurance Norway AS, Veritasveien 1, 1363 Høvik, Norway - TEL: +47 67 57 99 00. www.dnv.no/assurance

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WELDING WORKSHOP APPROVAL CERTIFICATE

Certificate No:
WWA00001UM
Revision No:
1

This is to certify:

That

IP Huse AS
Industrivegen 11
6487 Harøy, Norway

is approved for
Welding

in accordance with

DNV rules for classification – Ships
DNV class programme DNV-CP-0352 – Approval of manufacturers – Manufacture of welded products -
Welding workshop

has been approved for the following range of applications

Hull Equipment
Machinery Components
Lifting Appliances

and the following particulars

Welding supervisor:

Marius Ionut Patrascu

Deputy welding supervisor:

Rune Finnoy

Issued at **Hamburg** on **2022-10-13**

This Certificate is valid until **2025-04-15**.

DNV local station: **Mid-North Norway CMC**

Approval Engineer: **Gordon Stieb**



for DNV

Digitally Signed By: Wildhagen, Christian
Location: DNV Hamburg, Germany
Signing Date: 13.10.2022, on behalf of

Thorsten Lohmann
Head of Section

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Form code: WELD 201

Revision: 2021-03

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MANAGEMENT SYSTEM CERTIFICATE

Certificate no.:
C624083

Initial certification date:
15 February 2024

Valid:
15 February 2024 – 14 February 2027

This is to certify that the management system of

IP Huse AS

Industrivegen 11, 6296 Harøy, Norway

has been found to conform to the Environmental Management System standard:

ISO 14001:2015

This certificate is valid for the following scope:

Sales, design and manufacturing of winches, handling equipment and mechanical products for floating wind, offshore, marine, hydropower and other industry.

Place and date:
Høvik, 15 February 2024



For the issuing office:
DNV - Business Assurance
Veritasveien 1, 1363 Høvik, Norway

Jøran Laukholm
Management Representative

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MANAGEMENT SYSTEM CERTIFICATE

Certificate no.:
C624084

Initial certification date:
15 February 2024

Valid:
15 February 2024 – 14 February 2027

This is to certify that the management system of

IP Huse AS

Industrivegen 11, 6296 Harøy, Norway

has been found to conform to the Occupational Health and Safety Management System standard:

ISO 45001:2018

This certificate is valid for the following scope:

Sales, design and manufacturing of winches, handling equipment and mechanical products for floating wind, offshore, marine, hydropower and other industry.

Place and date:
Høvik, 15 February 2024



For the issuing office:
DNV - Business Assurance
Veritasveien 1, 1363 Høvik, Norway

Jøran Laukholm
Management Representative

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