
www.karhuassets.fi
karhuassets@gmail.com

+358 44 7967466 /  WhatsApp

Equipment from Karhulan valimo Europe / Finland

2.10.2024
Karhu Assets Oy

Karhulan valimo, one of the most versatile Finnish foundries

Located at the Karhula industrial site next to the city of Kotka in southeastern Finland, Karhulan Valimo was founded in the 1880's. In 1902, the foundry was merged with a wood grindery, glass factory, brick factory and engineering works to form the Karhula Oy. In 1915 the Karhula Factories were sold to Ahlström Corporation.

The current Foundry was built in 1960 and in 2000 Ahlström sold the foundry to Sulzer Pumps Finland.

In 2016 Sulzer Pumps decided to close the foundry and it was sold to Karhulan Foundry Oy, which was unfortunately declared bankrupt in March 2021. Throughout its history, the foundry has been known of been able to produce highly demanding castings particularly in high alloyed steels.

In 2022 Karhu Assets Oy bought the facilities and machinery of the foundry. Most of the equipment in the fettling shop has already been sold, while most of the machinery in the moulding department and meltshop are intact and available.

All heat treatment furnaces, a total of 10 units, are in place and available for sale

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



Contents

1. Moulding shop
2. Core shop
3. Melt shop
4. Sand reclamation and handling
5. Laboratory
6. Fettling shop
7. Other equipment
8. Heat treatment furnaces

Disclaimer: All dimensions and technical information in this presentation are unbinding and subject to be verified

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



www.karhuassets.fi
karhuassets@gmail.com

+358 44 7967466 /  WhatsApp

1. Moulding shop

2.10.2024
Karhu Assets Oy

[1.1] Flaskless moulding line IMF

- Fast loop for mould sizes of min 700 x 500 x 200/200 mm and max 1000 x 1400 x 400/400 mm
- Capacity 20 moulds/h
- Sand mixer IMF T36/40, Alphaset 40 t/h
- Mould carriers 92 pcs, size 1200 x 1600 mm
- Mould turning device RB2400
- Flow coating station for alcohol based coatings
- Mould dryer, natural gas
- Automatic mould closing device MA 1400



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[1.1-1] Flaskless moulding line IMF



Sand mixer IMF T36/40, can be sold separately

02-30	IMF T36/40 For Alphaset	Sand mixer Arm length 220 cm, discharge height 265 cm	1998	Nominal capacity 40 t/h Three sands (NS + RS + Cr) 6 programs: 100 % NS 15 t/h 100 % RS 36 t/h 100 % RS 26 t/h 100 % RS 18 t/h 30 % NS + 70 % RS, 36 t/h 100 % Cr 20 t/h
-------	----------------------------	--	------	--

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[1.1-2] Flaskless moulding line IMF

- Sand cooler, fluid bed, Klein



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[1.1-3] Flaskless moulding line IMF

- Flow coating station for alcohol based coatings with manipulator



10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[1.1-4] Flaskless moulding line IMF

- Two dryers operating on natural gas



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[1.2] Sand mixer Axmann TMEG 20



01-28	Axmann TMEG 20 for Alphaset	Sand mixer Arm lengths 450 + 150 cm, discharge height 235 cm	1984	Nominal capacity 20 t/h Three sands (NS + RS + Cr) 3 programs: 100 % RS 17,5 t/h 100 % NS 15,0 t/h Blend RS/NS 17,5 t/h
-------	-----------------------------	--	------	---

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[1.3] Sand mixer Axmann TMEG 10



01-17	Axmann TMEG 10 for Alphaset	Sand mixer Arm lengths 200 + 150 cm, discharge height 225 cm	1986	Nominal capacity 10 t/h Two sands (NS + Cr) 2 programs: 100 % NS 10,8 t/h 100 % Cr 8,4 t/h
-------	-----------------------------	---	------	--

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[1.4] Sand mixer IMF T36/50SB with adjustable height

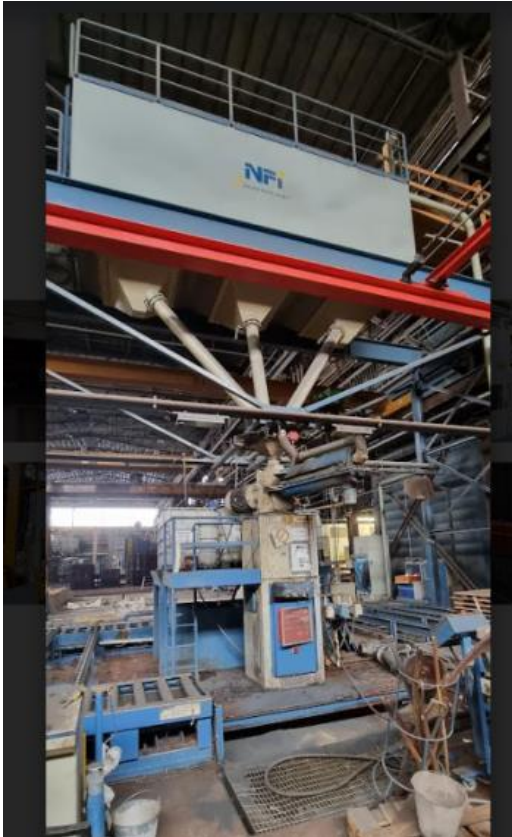


01-107	IMF mixer T36/50-SB	Sand mixer with adjustable height Arm lengths 650 + 200 cm, discharge height 250 cm (range unknown)	2012	Nominal capacity 50 t/h Three sands (NS RS + Cr) 5 programs: 100 % NS 49 t/h 100 % NS 25 t/h 100 % NS 16 t/h 100 % RS 50 t/h 100 % RS 25 t/h 100 % Cr 26 t/h
--------	---------------------	---	------	---

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[1.5] Sand mixer Axmann TME20



01-62	Axmann TME 20 for Alphaset	Sand mixer Arm length 180 cm, discharge height 250 cm	1990	Nominal capacity 20 t/h Three sands (NS + RS + Cr) 3 programs: 100 % NS 9,3 t/h 100 % RS N.A. (not in use) 100 % Cr 9,8 t/h
-------	----------------------------	--	------	--

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[1.6] Sand mixer Axmann TME 20



01-71	Axmann TME 20 for Alphaset	Sand mixer Arm length 150 cm, discharge height 190 cm	1990	Nominal capacity 20 t/h Two sands (NS + RS) 4 programs: 100 % NS 6,2 t/h 50 % NS + 50 % RS 7,0 t/h 50 % NS + 50 % RS N.A. (not in use) 100 % RS 10,0 t/h
-------	----------------------------	--	------	--

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[1.7] Sand mixer Axmann TME 5/10



01-27	Axmann TME 5/10 for Betaset	Sand mixer Arm length 160 cm, discharge height 225 cm		Nominal capacity 5 t/h One sand (NS) 1 program: 100 % NS 4,3 t/h
-------	--------------------------------	--	--	---

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[1.8] Sand mixer Integrated Sand Systems Triton PTS2



01-44	Integrated Sand Systems Triton PTS2 for Carbofen process	Sand mixer used for core production	1993 C-350	Nominal capacity 2 t/h Two sands (NS + Cr) Two programs: 100 % NS 3,2 t/h 100 % Cr 3,0 t/h
-------	--	-------------------------------------	---------------	--

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[1.9] Sand mixer Integrated Sand Systems Triton TS2



01-45	Integrated Sand Systems Triton TS2 for Carbofen binder , working with Reisshaus& Baumberg core shooter	Sand mixer	1992 C-318	Nominal capacity 2 t/h Two sands (NS + Cr) Two programs: 100 % NS 1,7 t/h 100 % Cr 1,0 t/h
-------	--	------------	---------------	--

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[1.10] Mould dryer

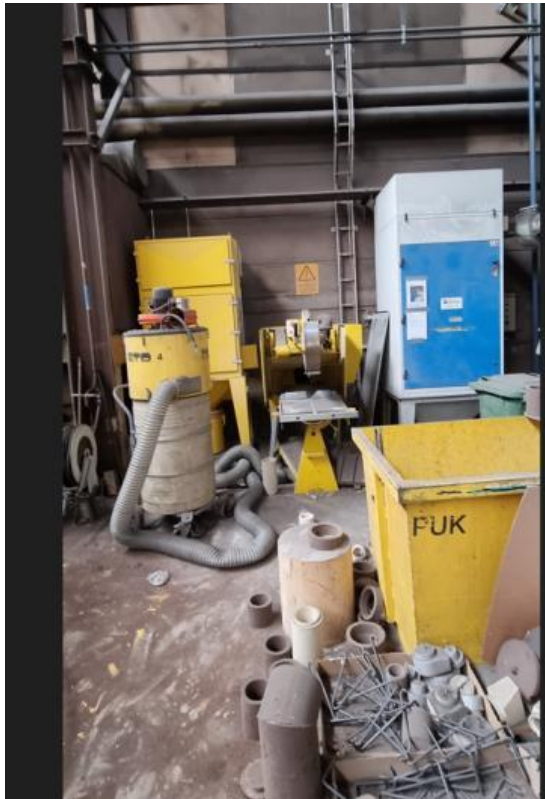
- Infrared radiators



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[1.11] Avola STS-T-50 portable brick and stone cutting machine with dust collector



Technical information Avola STS/T 50

Electrical connection	400 V, 50 Hz
Motor	5,5 kW
Table tilt	0-45°, to left
Measurements (l x w x h)	1800 x 960 x 1550 mm
Table size (l x w)	600 x 530 x 560 mm
Max diameter	550 mm

Technical information Avola CF30G dedusting plant

Electrical connection	400 V, 50 Hz
Air flow	3 000 m³/h
Dust type	Stone dust, <100 µm
Dust in air	2-5 g/m³
Dust in cleaned air	<20 mg/m³
Filter surface	30 m²
Volume	96 dB (Lwi), 84 dB (LpA)

	Avola STS-T-50 saw		2015	Used for cutting ceramic gating tubes
	Avola CF30G dedusting unit		2015	

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[1.12] Avola STS-T-50 portable brick and stone cutting machine with dust collector



Technical information Avola STS/T 50

Electrical connection	400 V, 50 Hz
Motor	5,5 kW
Table tilt	0-45°, to left
Measurements (l x w x h)	1800 x 960 x 1550 mm
Table size (l x w)	600 x 530 x 560 mm
Max diameter	550 mm

Technical information Avola CF30G dedusting plant

Electrical connection	400 V, 50 Hz
Air flow	3 000 m³/h
Dust type	Stone dust, <100 µm
Dust in air	2-5 g/m³
Dust in cleaned air	<20 mg/m³
Filter surface	30 m²
Volume	96 dB (Lwi), 84 dB (LpA)

	Avola STS-T-50 saw		2015	Used for cutting ceramic gating tubes
	Avola CF30G dedusting unit		2015	

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[1.13] Mould boxes (stored outside)

Measurements <u>Length x width x height</u>	Amount
1) 140x 140 x 19–27	29 pcs
2) 160 x 160 x 79	2 pcs
3) 160 x 140 x 15	12 pcs
4) 162 x 162 x 27	3 pcs
5) 170 x 120 x 40	48 pcs
6) 200 x 200 x 60	2 pcs
7) 210 x 210 x 30–59	9 pcs
8) 250 x 250 x 30–60–79	12 pcs
9) 300 x 200 x 29–59	13 pcs
10) 300 x 300 x 59	5 pcs

Version with reinforcement bars

1) 130 x 120 x 17	31 pcs
-------------------	--------

Alltogether 116 pcs



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[1.14] Mould boxes (stored inside)

Measurements <u>Length x width x height</u>	Amount
--	--------

104 x 75 x 19	18 pcs
108 x 77 x 29	25 pcs
100 x 100 x 27-40-55	47 pcs
105 x 105 x 27-40-55	9 pcs
120 x 90 x 28	11 pcs
120 x 120 x 27-40-55	74 pcs
140 x 140 x 27-55-70	18 pcs
160 x 160 x 27-60	20 pcs
64 x 50 x 15	74 pcs
170 x 120 x 27-60	4 pcs
200 x 200 x 27-58	16 pcs
300 x 200 x 58	2 pcs
300 x 300 x 59	5 pcs

Alltogether 323 pcs



2.10.2024

Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[1.15] Flow coating station, large, Axmann



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[1.16] Flow coating station, medium, Axmann



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[1.17] Flow coating station, medium, Axmann



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[1.18] Flow coating station, medium, Axmann



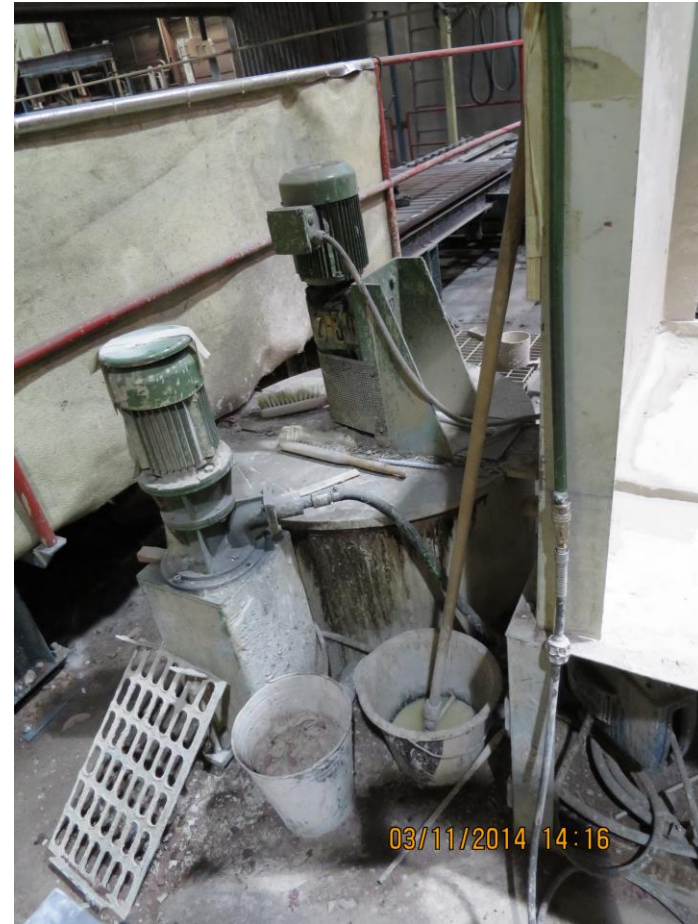
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[1.19] Flow coating station, small, Axmann FA/R



Year of production: 1992



Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



2. Core shop

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[2.1] Core shooter Reißaus & Baumberg KSA 40



2014-003	Reißaus & Baumberg Maschinenbau GmbH KSA 40	Core shooter 20-40 I	2014	Shot volume 20-40 I
----------	---	----------------------	------	---------------------

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[2.1] Core shooter Reißaus & Baumberg KSA 40



Reißaus & Baumberg
Maschinenbau
GmbH

русский - german

HOME PRODUCTS COMPANY CONTACT

HOME | CORE MAKING TECHNOLOGY | AUTOMATIC CORE SHOOTERS | KSA 40-60

KSA 40-60

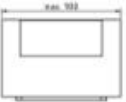
Automatic core shooters of the **KSA 40-60** series are available for shot volumes of 40, 50, 60 or 70 Liters respectively and are specifically designed for the production of large quantities of sand cores. The enclosure surrounding the automatic core shooter is available in two designs, for manual or automatic core removal.



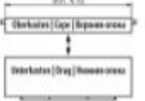
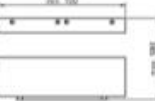
KSA 40-60

Kerngewicht | Core weight | Масса стержня: 30-90 kg

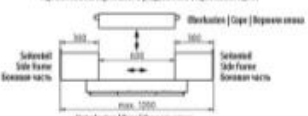
Vertikal geteilte Kernkisten | Vertically split core boxes | Разъемные вертикальные стержневые ящики

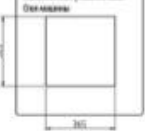
Horizontal geteilte Kernkisten | Horizontally split core boxes | Разъемные горизонтальные стержневые ящики

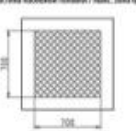
Horizontal/vertikal geteilte Kernkisten | Horizontally / vertically split core boxes | Разъемные и разъемные горизонтальные / вертикальные стержневые ящики



Aspektbereich | Outer range | Зона внешнего оребрения



Schleifplatte / max. Ausschleifbereich | Sliding head plate / max. slip-off range | Стальная скользящая головка / макс. зона сброса

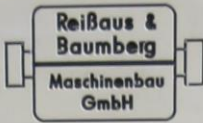


Begrenzungsplatte / max. Begrenzungsbereich | Guiding plate / max. guiding range | Пластинчатый ограничитель / макс. зона направляющей



Special features:

- Rugged and compact four-column design,
- Does not require a foundation for installation,
- Optimum core production times,
- Short setting-up times,
- Hydraulic clamping of the shooting plate,
- Mechanical or hydraulic quick-clamping system for the drag,
- Mechanical or hydraulic systems for the seating of the cope (for the horizontal split design),
- Vacuum or magnetic chucking of the core box halves,
- Optimum core box clamping for core boxes of the vertical split design through hydraulically adjustable clamping stations, and
- Standard equipment for two single items in the core box.



Reißaus & Baumberg
Maschinenbau
GmbH

Zum Monarchenhügel 23
04523 Werben

Telefon: 034296/77190
Telefax: 034296/77192

Kernschießmaschine KSA 40

Zeichnungsnummer: 101_283_01_000_000

Baujahr	2014
Gesamtmasse	11.110 kg mit Begasung
Abmessungen(BxTxH)	5265x4450x3535 mm
Maschinennennstrom	70.5 A
Zuleitung Sicherung	80 A
Betriebsspannung	400 V / 50 Hz
Steuerspannung	24 V
Leistungsbedarf	38 kW inkl. Begasung
Druckluftanschluss	G 1 1/2" (6 bar)
Maschinennummer	2014_003

CE

Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
 +358 44 7967466



[2.2] Core production cell with two Röperwerk cold box core shooters



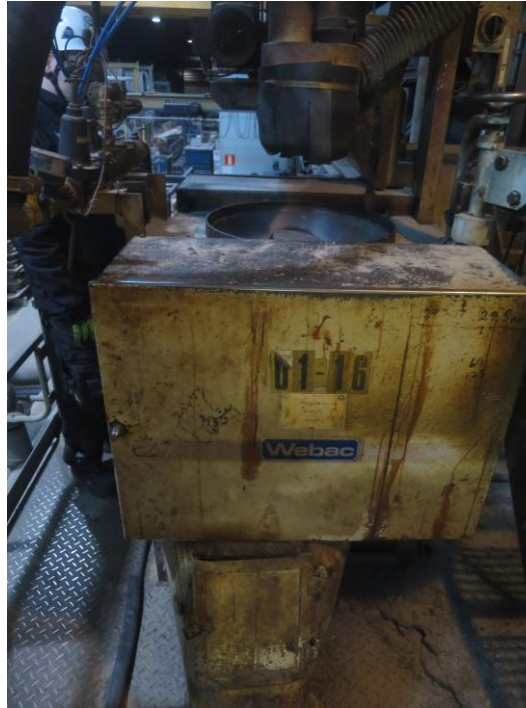
Consisting of sand mixer with weighing, Röperwerk H-5 and H-25 core shooters, two Webac gas generators, gassing equipment and auxiliary equipment

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[2.2-1] Cold box sand mixer Webac M-30-A-2 with weighing equipment

Sold as part of Röperwerk-Webac core production unit [2.2]



01-16	Webac M-30-A-2 Coldbox	Sand mixer with weighing equipment	1994	Nominal capacity 2 t/h One sand (NS) 2 programs: 100 % NS 1,8 t/h 100 % NS 0,9 t/h
-------	---------------------------	---------------------------------------	------	--

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[2.2-2] Röperwerk H-5 core shooter

Sold as part of Röperwerk-Webac core production unit [2.2]



02-05	Röperwerk H-5, coldbox	Core shooter	Approx 1970	
-------	---------------------------	--------------	----------------	--

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[2.2-3] Röperwerk H-25 core shooter

Sold as part of Röperwerk-Webac core production unit [2.2]



02-69	Röperwerk H-25, coldbox	Core shooter	Approx 1970	
-------	----------------------------	--------------	----------------	--

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[2.2-4] Webac-Michael Gasomat G-CB-SH-A-3, 2 pcs

Sold as part of Röperwerk-Webac core production unit [2.2]



	Webac-Michael Gasomat G-CB-SH- A-3	Amine gas generator, 2 pcs	1994	Simatic controls
--	--	-------------------------------	------	------------------

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[2.3] Amine scrubber B.G.T



Technical information Amine scrubber

Capacity	16 000 m ³ /h
Cleaning media	H ₂ SO ₄ solution 1 %
Max amine content	150 mg/m ³
Amine content in cleaned air	>0,5 mg/m ³

99-11	B.G.T	Amine scrubber	1996	
-------	-------	----------------	------	--

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



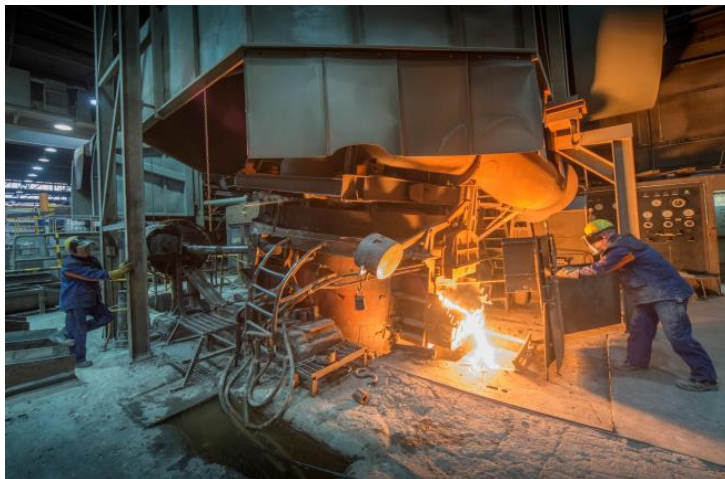
3. Melt shop

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.1] EAF furnace

- Melting furnace, 1960
- Power 3,0 MW
- Nominal capacity 8,0 t, output during production has been 6,0 - 10,0 t



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466

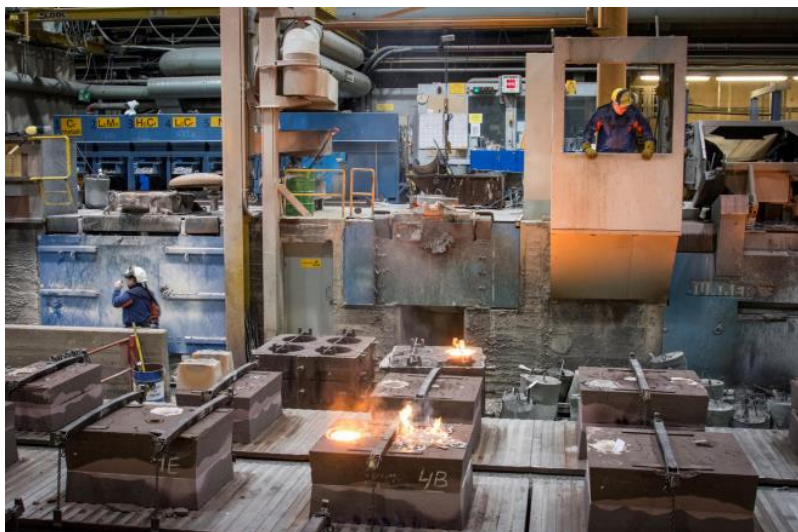


[3.2] AOD converter

- Installed 1960
- Output 8,0 t



[3.3] Induction furnace Junker 8 t



03-66	JUNKER Induction furnace 8,0 t	Melting furnace	2003	Output 8,0 t Power 3,4 MW
-------	--------------------------------	-----------------	------	------------------------------

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.4] Induction furnace Junker 1,5 t



03-65	JUNKER Induction furnace 1,5 t	Melting furnaces	1987	Output 1,5 t Power 1,6 MW
-------	--------------------------------	------------------	------	------------------------------

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.5] Induction furnace IPW 0,6 t



03-02	IPW Induction furnace 0,5 t	Melting furnace	2000	Output 0,6 t Power 600 kW
-------	-----------------------------	-----------------	------	------------------------------

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.6.1] Bottom pour ladles, summary



ID	Capacity	H _{out}	D _{out}	H _{in}	D _{in}	Inspected	Comments
[3.6.1.1] 08-46	0,8 t	N.A.	N.A.	N.A.	N.A.	2017	
[3.6.1.2] 08-47	0,8 t	N.A.	N.A.	N.A.	N.A.	2017	
[3.6.1.3] 08-11	1 t	94	75	80	58	2017	
[3.6.1.4] 08-49	1 t	95	75	80	58	2017	
[3.6.1.5] 08-25	2 t	107	85	82	62	2017	
[3.6.1.6] 08-70	2 t	109	94	83	73	2017	
[3.6.1.7] 08-71	2 t	109	94	83	73	2017	
[3.6.1.8] 08-XX	3 t	120	100	91	75	2017	
[3.6.1.9] 08-07	5 t	N.A.	N.A.	N.A.	N.A.	2017	
[3.6.1.10] 08-68	6 t	146	133	120	107	2017	
[3.6.1.11] 08-32	8 t	162	142	135	115	2017	
[3.6.1.12] 08-36	8 t	N.A.	N.A.	N.A.	N.A.	2017	
[3.6.1.13] 08-31	10 t	N.A.	N.A.	N.A.	N.A.	2017	
[3.6.1.14] 08-03	15 t	N.A.	N.A.	N.A.	N.A.	2017	

[3.6.1.1] 08-46, Bottom pour ladle 0,8 t



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.6.1.2] 08-47, Bottom pour ladle 0,8 t



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.6.1.3] 08-11, Bottom pour ladle 1 t



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.6.1.4] 08-49, Bottom pour ladle 1,0 t



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.6.1.5] 08-25, Bottom pour ladle 2.0 t



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.6.1.6] 08-70, Bottom pour ladle 2,0 t



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



WhatsApp

[3.6.1.7] 08-71, Bottom pour ladle 2,0 t



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.6.1.8] 08-XX, Bottom pour ladle 3,0 t



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



WhatsApp

[3.6.1.9] 08-07, Bottom pour ladle 5,0 t



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.6.1.10] 08-68, Bottom pour ladle 6,0 t



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.6.1.11] 08-32, Bottom pour ladle 8,0 t



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.6.1.12] 08-36, Bottom pour ladle 8,0 t



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.6.1.13] 08-31, Bottom pour ladle 10,0 t



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.6.1.14] 08-03, Bottom pour ladle 15,0 t



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.6.2] Lip pour ladles, summary



ID	Capacity	H _{out}	D _{out}	H _{in}	D _{in}	Inspected	Comments
[3.6.2-2] 08-23	2,5 t	120	118	91	93	2017	
[3.6.2-3] 08-29	2,5 t	107	110	82	88	2017	
[3.6.2-4] 08-22	3,5 t	162	N.A.	141	72	2017	Treatment
[3.6.2-5] 08-28	5,5 t	190	N.A.	170	98	2017	Treatment
[3.6.2-6] 08-20	10 t	N.A.	N.A.	N.A.	N.A.	2017	
[3.6.2-7] 08-19	12 t	170	165	140	135	2017	2 lips

[3.6.1.1] 08-23, Lip pouring ladle 2,5 t



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.6.1.2] 08-29, Lip pouring ladle 2,5 t



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.6.1.3] 08-22, Lip pouring ladle 3,5 t



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.6.1.4] 08-28, Lip pouring ladle 5,5 t



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.6.1.5] 08-20, Lip pouring ladle 10,0 t



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.6.1.6] 08-04, Lip pouring ladle 12,0 t



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



WhatsApp

[3.6.1.7] 08-19, Lip pouring ladle 12,0 t



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.7] Ladle lining models (8 pcs)



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



WhatsApp

[3.8] Ladle heating device



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.9] Ladle heating stations, 2 pcs



+358 44 7967466



WhatsApp

om

[3.10] Dosing device for alloying elements incl. scale and crane for bigbag handling



The device has been used for dosing
Cr, LCFeMn, HCFeCr, LCFeCr, Ni,
FeMo, Si, NC



[3.11] Furnace charging buckets (4 pcs) with railways and lifting balance



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.12] Stopper rods, protective bricks and nozzles



Technical information

Stopper rod		Various lengths
Protective bricks	Seeif	SR2/330 and SR3/330
Nozzles	Morgan	Graphite blend

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.13] Nozzle bricks and stopper rod straightening press



karhuassets@gmail.com

+358 44 7967466



[3.14] Manual pneumatic ladle turning devices, Atlas Copco, 2 pcs



Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.15] AOD Konverter furnace reserve vessel + lifting balance



www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.16] Iron runner



2024

Assets Oy

www.karhuassets.fi

karhuassets@gmail.com

+358 44 7967466



WhatsApp

[3.17] Slag buckets 1 t (10 pcs) and lifting beam



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[3.18] Avola brick and stone cutting machine



- Used for cutting refractory bricks and tubes in melt shop

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



4. Sand reclamation and handling

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.1] 01-29 (1) Pneumatic conveyor FAT S-300 (modified)

Producer FAT	Year of production 1986
Type S300 NFI modified	Serial number N.A:
Inlet diameter DN200	Outlet diameter DN80
Notes The conveyor is modified by NFI, not dense phase	

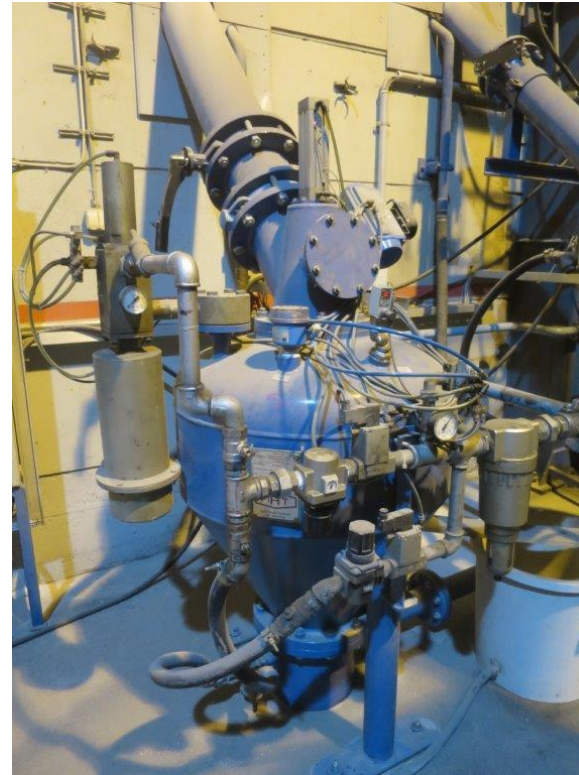


2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.2] 01-99 (2) Pneumatic conveyor FAT S-300 (modified)

Producer FAT	Year of production 1986
Type S300 NFI modified	Serial number N.A.
Inlet diameter DN200	Outlet diameter DN80
Notes The conveyor is modified by NFI, not dense phase	



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.3] 01-03 (3) Pneumatic conveyor FAT S-130

Producer FAT	Year of production 1984
Type S130	Serial number 628
Inlet diameter DN150	Outlet diameter DN65
Notes	



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.4] 01-30 (4) Pneumatic conveyor S-300 (modified)

Producer FAT	Year of production 1986
Type S300 NFI modified	Serial number N.A:
Inlet diameter N.A.	Outlet diameter DN80
Notes The conveyor is modified by NFI, not dense phase	



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.5] 01-103 (5) Pneumatic conveyor S-300 + bigbag emptying station

Producer FAT	Year of production 1990
Type S300	Serial number 1410
Inlet diameter DN150	Outlet diameter DN80
Notes Manually operated, no limit switches, no controls	



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.6] 01-72 (6) Pneumatic conveyor NFI-T-500

Producer NFI	Year of production 1998
Type T-500	Serial number
Inlet diameter DN200	Outlet diameter DN100
Notes	



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.7] 01-73 (7) Pneumatic conveyor NFI-T-500

Producer NFI	Year of production 1998
Type T-500	Serial number
Inlet diameter DN200	Outlet diameter DN100
Notes	



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.8] 01-64 (8) Pneumatic conveyor FAT S-300

Producer FAT	Year of production 1988
Type S300 NFI modified	Serial number 1030
Inlet diameter DN150	Outlet diameter DN80
Notes The conveyor is modified by NFI, not dense phase	



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.9] 01-06 (9) Pneumatic conveyor FAT S-300

Producer FAT	Year of production 1985
Type S300	Serial number 666
Inlet diameter DN150	Outlet diameter DN65
Notes	



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.10] 01-46 (10) Pneumatic conveyor Klein 550

Producer Klein	Year of production 1973
Type 550, NFI modified	Serial number 6715/1
Inlet diameter DN200	Outlet diameter DN100
Notes The conveyor is modified by NFI, not dense phase	



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.11] 01-36 (11) Pneumatic conveyor NFI DF200/85

Producer NFI	Year of production 1986
Type DF200/85 (500 l)	Serial number 4312
Inlet diameter N.A.	Outlet diameter N.A.
Notes	



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.12] 01-35 (12) Pneumatic conveyor NFI 200/100

Producer NFI	Year of production 1996
Type DF 200/100 (500 l)	Serial number 4310
Inlet diameter N.A.	Outlet diameter N.A.
Notes	



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.13] 01-34 (13) Pneumatic conveyor NFI DF200/100

Producer NFI	Year of production 1996
Type DF-200/100	Serial number 4311
Inlet diameter DN200	Outlet diameter DN100
Notes	



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.14] 01-14 (14) Pneumatic conveyor Klein

Producer Klein	Year of production 1973
Type N.A.	Serial number 6715/2
Inlet diameter DN200	Outlet diameter DN80
Notes	



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.15] 01-15 (15) Pneumatic conveyor Klein

Producer Klein	Year of production 1973
Type N.A.	Serial number N.A.
Inlet diameter DN200	Outlet diameter DN80
Notes	



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.16] 01-18 (16) Pneumatic conveyor Klein

Producer Klein	Year of production 1973
Type N.A.	Serial number 6715/3
Inlet diameter DN200	Outlet diameter DN80
Notes	



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.17] 01-37 (17) Pneumatic conveyor Klein 550

Producer Klein	Year of production 1973
Type 550	Serial number 6715/1
Inlet diameter DN150	Outlet diameter DN80
Notes	



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.18] 01-101 (19) Pneumatic conveyor Klein SP-HL100

Producer Klein	Year of production 2008
Type SP-HL100	Serial number 80204489
Inlet diameter N.A.	Outlet diameter DN80
Notes	



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.19] (20) Pneumatic conveyor NFI

Producer NFI	Year of production N.A:
Type N.A:	Serial number N.A.
Inlet diameter N.A.	Outlet diameter DN50
Notes Small sender for filterdust	



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.20] (21) Pneumatic conveyor FAT S-150

Producer FAT	Year of production 1985
Type S150 NFI modified	Serial number 664
Inlet diameter DN200	Outlet diameter DN80
Notes The conveyor is modified by NFI, not dense phase	



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.21] (26) Pneumatic conveyor FAT S-150

Producer FAT	Year of production 1988
Type S150	Serial number 966
Inlet diameter DN200	Outlet diameter DN80
Notes	



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.22] (27) Pneumatic conveyor NFI

Producer NFI	Year of production N.A:
Type N.A.	Serial number N.A.
Inlet diameter N.A.	Outlet diameter DN100
Notes	



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.23](28) Pneumatic conveyor NFI

Producer NFI	Year of production N.A:
Type N.A.	Serial number N.A.
Inlet diameter N.A.	Outlet diameter DN100
Notes	



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.24] 01-01 (29) Pneumatic conveyor FAT Lindqvist&Mattson

Producer Lindqvist&Mattson Ab	Year of production 1971
Type VIRVEL-V	Serial number 6207
Inlet diameter N.A:	Outlet diameter N.A.
Notes Conveyor for filterdust	



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.25] 01-61 (30) Pneumatic conveyor NFI-T-500

Producer NFI	Year of production 1997
Type T-500	Serial number 1202
Inlet diameter N.A.	Outlet diameter N.A.
Notes	



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.26] 01-60 (31) Pneumatic conveyor NFI-T-500

Producer NFI	Year of production 1997
Type T-500	Serial number 1201
Inlet diameter N.A:	Outlet diameter N.A.
Notes	



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.27] Air classifier

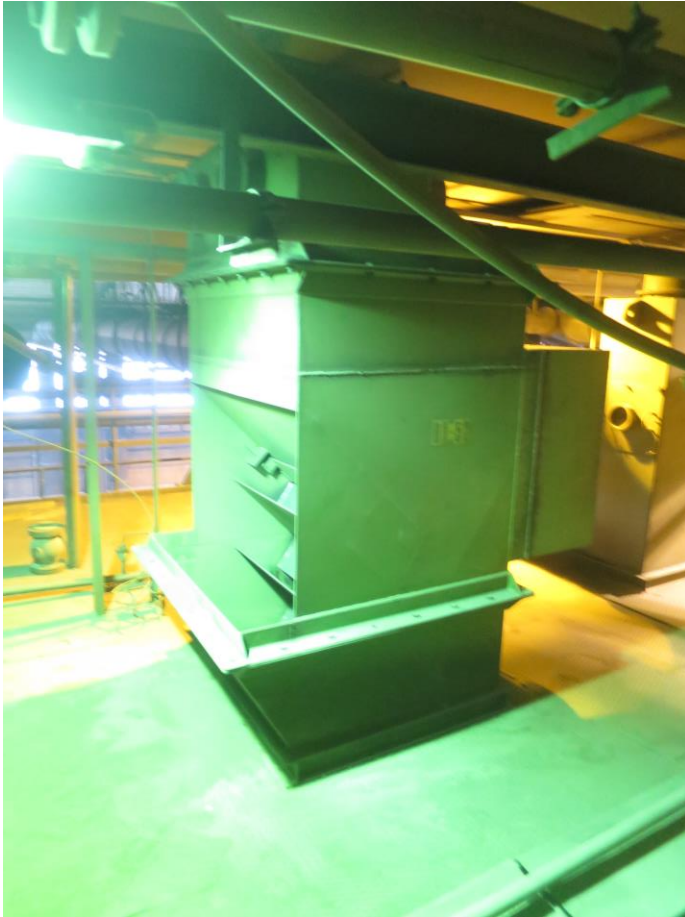


- Capacity unknown

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.28] Air classifier



- Capacity unknown

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.29] Static sand cooler, 2 towers à 5 modules each

- Module height 270 mm, width 1130 mm



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.30] Shake-out station 1

- Including cabin, shake-out table and crusher
- Manufacturer: Neuhoff
- Capacity: TBC



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.31] Shake-out station 2

- Including cabin, shake-out table and crusher
- Manufacturer: TBC
- Capacity: TBC



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.32] Shake-out station 3

- Including cabin, shake-out table and crusher
- Manufacturer: TBC
- Capacity: TBC



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[4.33] Manipulator for shake out station



- Electro-hydraulic operation

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



5. Laboratory

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[5.1] ARL spectrometer

- ARL 4460 from 1996
- Including documentation, all auxiliary equipment and spare parts on site



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[5.2] LECO TC500 N-analyzer

- LECO TC500 N-analyzer from 2004
- Including documentation, scale, all auxiliary equipment and spare parts on site



Specifications	
Range	
Oxygen	0.5 ppm - 0.2%
Nitrogen	0.5 ppm - 3.0%
Precision	
Oxygen	0.25 ppm or 0.5% RSD, whichever is greater
Nitrogen	0.25 ppm or 0.5% RSD, whichever is greater
Readability	0.1 ppm
Calibration	Standards, Multi-point, Manual, or Gas Dose
Analysis Time	
Oxygen	80 seconds (including outgas, purge, and analysis delay)
Nitrogen	95 seconds (including outgas, purge, and analysis delay)
Sample Size	1 gram nominal
Detectors	
Oxygen	Non Dispersive Infrared Absorption
Nitrogen	Thermal Conductivity
Reagents	
Anhydrous Magnesium Perchlorate (MgClO ₄)	
Sodium Hydroxide on an inert base	
Copper Oxide, Copper Turnings	
Gasses Required	
Carrier	Helium (99.99% pure) @ 20 psi (1.379 bars) ± 10% or Argon*
Pneumatic	Compressed Air (oil, water free) @ 40 psi (2.76 bars) ± 10%
Gas Dose	Carbon Dioxide (99.99% pure) @ 20 psi (1.379 bars) ± 10%
Gas Dose	Nitrogen (99.99% pure) @ 20 psi (1.359 bars) ± 10%
* Specifications may change with Argon as a carrier gas.	
Introduction	TC500C 1-25



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[5.3] Laboratory rammer, +GF+



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[5.4] Laboratory furnaces, 2 pcs



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[5.5] Sample grinding and polishing discs

- One with two discs
- One with one disc



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[5.6] Press for making grinding samples



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[5.7] Laboratory microscope



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



6. Fettling shop

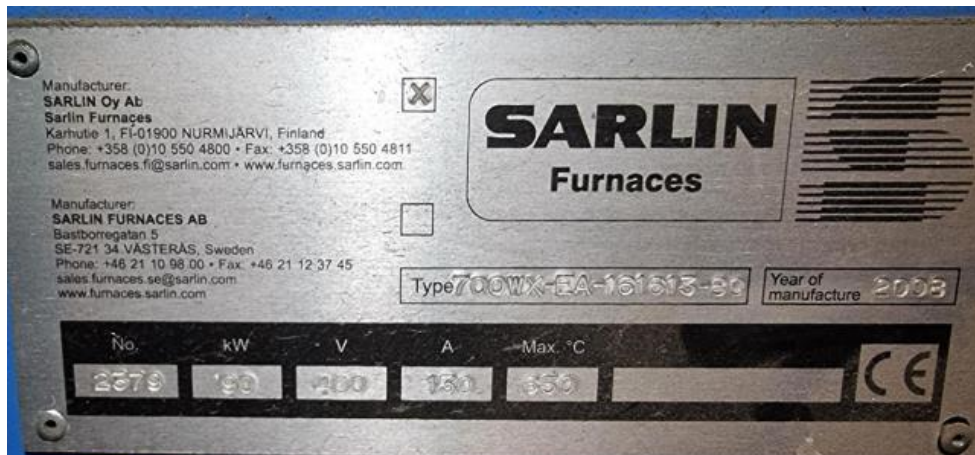
2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[6.1] Sarlin heat treating furnace 650 °C



- Electric heating, 90 kW



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[6.2] Sarlin heat treatment furnace 750 °C



- Electric heating, 90 kW
- 1992



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[6.3] Shot blasting machine, Tilghman WTB70

- Tumbling machine with bucket for loading
- 2 turbines, 45 kW each
- Height 9 m, width 13 m, depth 17 m. Loading width 3,5 m. The loader requires a pit of 1,0 x 3,5 x 3,0 m)



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[6.4] Shot blasting machine, +GF+, large

- A huge shot blasting machine equipped with vibrating through, magnetic separator and possibility to do free blasting in the cabinet

7. Other equipment

2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



[7.2] Various cranes from 0,5 to 10,0 tons



2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



8. Heat treatment furnaces

Furnace

ID Number (number of Sulzer)	Furnace Name	Fuel	Max power (kW)	Operating temperature (°C)	Measure I (Work Zone)			Maximum load gross/net (ton)	¹⁾ TUS (situation in Nov. 2017)		Sales price, not include VAT (€)	Term of delivery
					High (m)	Width (m)	Depth (m)		Temperature (°C)	Result		
1 (95-67)	Big 1-furnace	Gas	720	1100 - 1150	3,35/(1,88)	4,45/(2,08)	5,25/(3,83)	30/22	1100 – 1150	NO	10 000,00	EXW Kotka Finland
2 (05-05)	Padelttherm Big 3-furnace	Gas	2520	1050 - 1150 580 - 620	3,15/(1,88)	5,0/(2,08)	5,55/(3,83)	20/12	1050 – 1150 580 – 620	OK OK	100 000,00	
3 (95-72)	Small 1-furnace	Gas	360	1100 - 1200	1,05/(0,8)	2,5/(1,7)	1,8/(1,32)	3/2	1100 – 1150	NO	6 000,00	
4 (95-63)	Small 2-furnace	Gas	360	1100 - 1150	1,2/(0,8)	2,5/(1,7)	1,8/(1,32)	3/2	1100 – 1150	OK	6 000,00	
5 (95-73)	Small 3-furnace	Gas	360	1100 - 1200	1,7/(0,8)	2,15/(1,7)	2,0/(1,32)	3/2	1100 – 1150	OK	6 000,00	
6 (05-02)	Small 4-furnace	Gas	240	1100 - 1200	1,0/(0,9)	1,5/(1,2)	1,9/(1,25)	3/2	1100 – 1150	OK	6 000,00	
7 (95-01)	²⁾ Big electric	Electric	300	1050 -1150 580 - 620	1,8/(1,36)	2,15/(1,6)	1,95/(1,25)	3/2	1050 – 1150 580 – 620	OK NO	10 000,00	
8 (05-06)	Sarlin-furnace	Electric	90	350 - 650	1,2/(1,03)	1,5/(1,3)	1,7/(1,5)	3/2	580 – 620	OK	10 000,00	
9 (95-09)	Small electric furnace	Electric	90	350 - 700	1,1/(0,85)	1,8/(1,6)	2,0/(0,85)	3/2	580 – 620	NO	10 000,00	
10 (94-87)	material testing furnace	Electric	16	1100	0,4	0,4	0,7	50 kg		NO	1 000,00	
11 (95-08)	material testing furnace	Electric	9	700	0,3	0,4	0,8	50kg		NO	1 000,00	

¹⁾ **Temperature Uniformity Survey requirements** temperature tolerance 1050 – 1150 °C ± 14 °C / stress-relieving 580 – 620 °C ± 8 °C. The temperatures within each furnace shall be surveyed within one year prior to use of the furnace for heat treatment.

²⁾ The furnace has a nitrogen atmosphere

Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



Inquiries and additional information

Ismo Paasi

karhuassets@gmail.com

www.karhuassets.fi

+358 44 7967466 /  WhatsApp

The equipment is located in Kotka, 48600 Finland

And

Sold EXW Kotka in the condition that they are in.

The flight time from Europe to Helsinki, Finland, is approximately 2 hours, and from Helsinki to Kotka by car via the motorway is about 120 km/1 hour.

Welcome to visit us in person to see the foundry machinery!

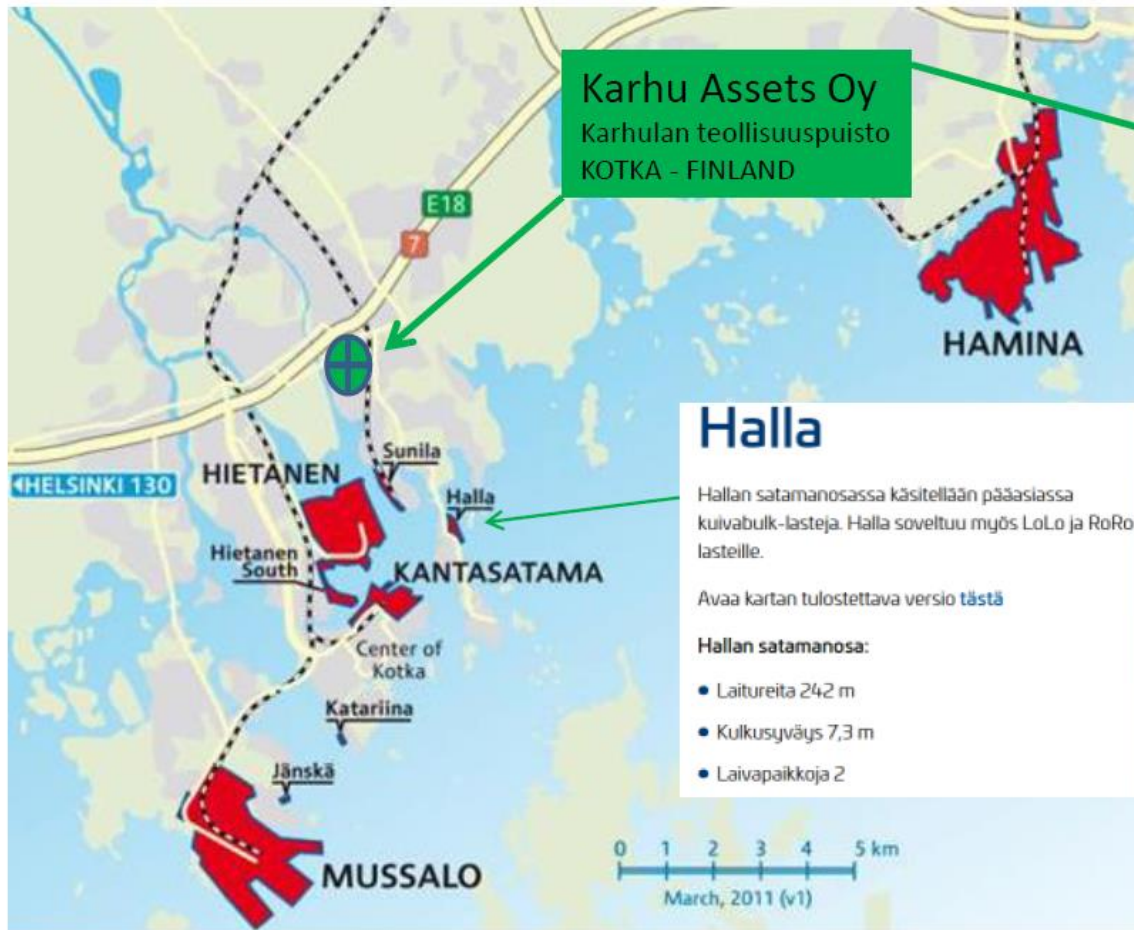
2.10.2024
Karhu Assets Oy
www.karhuassets.fi
karhuassets@gmail.com
+358 44 7967466



Location and access



- Ports: Hamina-Kotka ports nearby. As an added value, the Port of Halla is approx. 4 km away
- Railway: The Sunila railway from Kouvola to Kotka runs next to Karhu-Assets' fence
- Motorway: E18 / 7 approx. 1 km to the road
- Helsinki Airport approx. 120 km / 1,5 h



Karhu Assets Oy



Disclaimer

This Memorandum does not purport to be all-inclusive or to contain all of the information that a prospective purchaser may desire in deciding whether to acquire the Object of Sale (as defined below) or any part thereof from the Estate. This Memorandum is supplied to selected prospective purchasers solely for their use in considering their interest in purchasing the Object of Sale. Except where otherwise indicated, this Memorandum speaks as of the date hereof. Neither the delivery of this Memorandum nor the purchase of the Object of Sale or any part thereof from the Estate shall, under any circumstances, create any implication that there has been no change in the Object of Sale since the date hereof.

No representation or warranty, express or implied, is or will be made by the Estate in relation to the accuracy or completeness of the information presented in this Memorandum or any other written or verbal information made available to any prospective investor or its advisors in connection with any further investigation of the Object of Sale, and no responsibility or liability is or will be accepted by the Estate in relation to it. The Estate expressly disclaims and excludes any and all liability which may be based on this Memorandum or any other written or verbal information made available and any errors therein or omissions therefrom. In particular, no representation or warranty is given as to the achievement or reasonableness of future projections, management targets, prospects or returns, if any, regarding the Object of Sale. Each recipient of this Memorandum is required to make such independent investigation and verification as it deems necessary and must assume full responsibility for any decisions it may take to acquire the Object of Sale or any part thereof.

In furnishing this Memorandum, the Estate does not undertake any obligation to provide the recipient with access to any additional information. The Estate shall not have any obligation to consider or to accept any offer, whether it represents the highest price. This Memorandum does not constitute a binding offer or invitation for the purchase of the Object of Sale and does not constitute any form of legally binding obligation, commitment or recommendation on the part of the Estate.

Neither this Memorandum nor any other written or verbal information made available to any prospective purchaser or its advisors will constitute or form the basis of any contract, and contractual obligations on the part of the Estate will require the negotiation and execution of separate definitive legal documentation concluded by the Estate.

The Estate reserves all rights to terminate negotiations with any party in respect of the purchase of the Object of Sale or any transaction in relation thereto at any time prior to the signing of any legally binding final agreement for the sale of the Object of Sale.