



THE FUTURE IN

casting

PEIRON

PEIRON OY *in Finland*

Peiron Oy Kokemäki Foundry specializes in the production of nodular graphite cast iron, variable types of steel, and grey cast iron. Peiron Oy supplies casting components to Finnish industries as well as international companies, including manufacturers of equipment and machinery for the pulp and paper industry, the metallurgical and mining industry, concrete machinery manufacturers, and power and heating plants.

Peiron Oy's history extends to the year 1948, when Starcken Valu Oy was founded in Kokemäki, Finland, as a foundry producing grey cast iron. In 1978, a modern foundry was constructed alongside the old unit. In 1980, Kumera Oy purchased the company and work was started on converting the foundry so that it could produce steel and spheroidal graphite cast iron.

Peiron's strengths consist of its expertise in foundry technology. We understand our customers' needs in designing practical solutions together. We are committed to continuously improving our productivity, delivery times, and standard of quality, as well as environmental issues and safety at work, while always ensuring competitive prices for our customers.

KUMERA CORPORATION

Peiron is a part of the Kumera Corporation, which is a worldwide marketer of manufactured products and engineering services. The corporation consists of three major operating divisions:

1. Power Transmission Group provides a comprehensive range of products for a wide variety of applications in all the major process industries.
2. Technology Division specializes in process equipment for the metallurgical and environmental industries.
3. Foundry Division, with Peiron Oy as the leading company, produces all types of steel and iron castings, forming a link in the vertical refining chain of Kumera Corporation.

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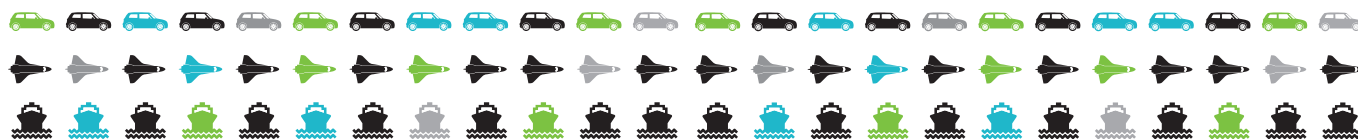


PATTERN MANUFACTURING

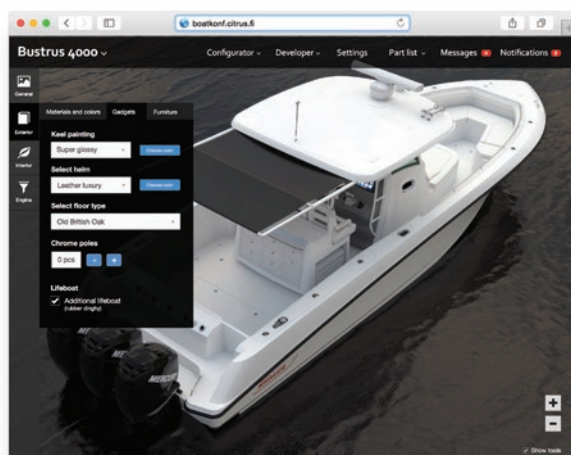
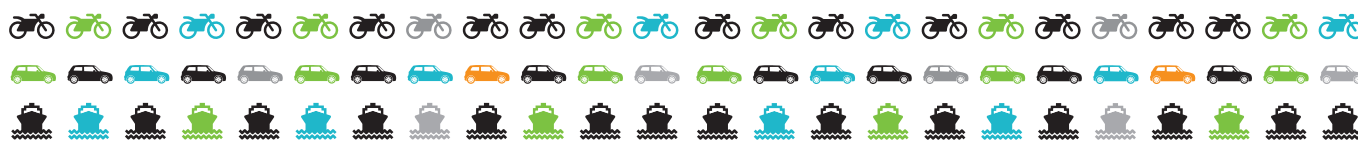
- The foundry has its own pattern manufacturing.
- A new CNC milling machine was purchased in 2015.

Materials for various sectors *in the industry*

- Iron-casts for the chemical pulp, paper, and other processing industry and mechanical engineering
- Steel-casts for the offshore and marine industry
- Wear-resistant steel- and iron-casts for the mining industry and mechanical engineering
- Heat-resistant casts for thermal power stations and the processing industry
- Acid-resistant casts for valve manufacturing and the paper industry



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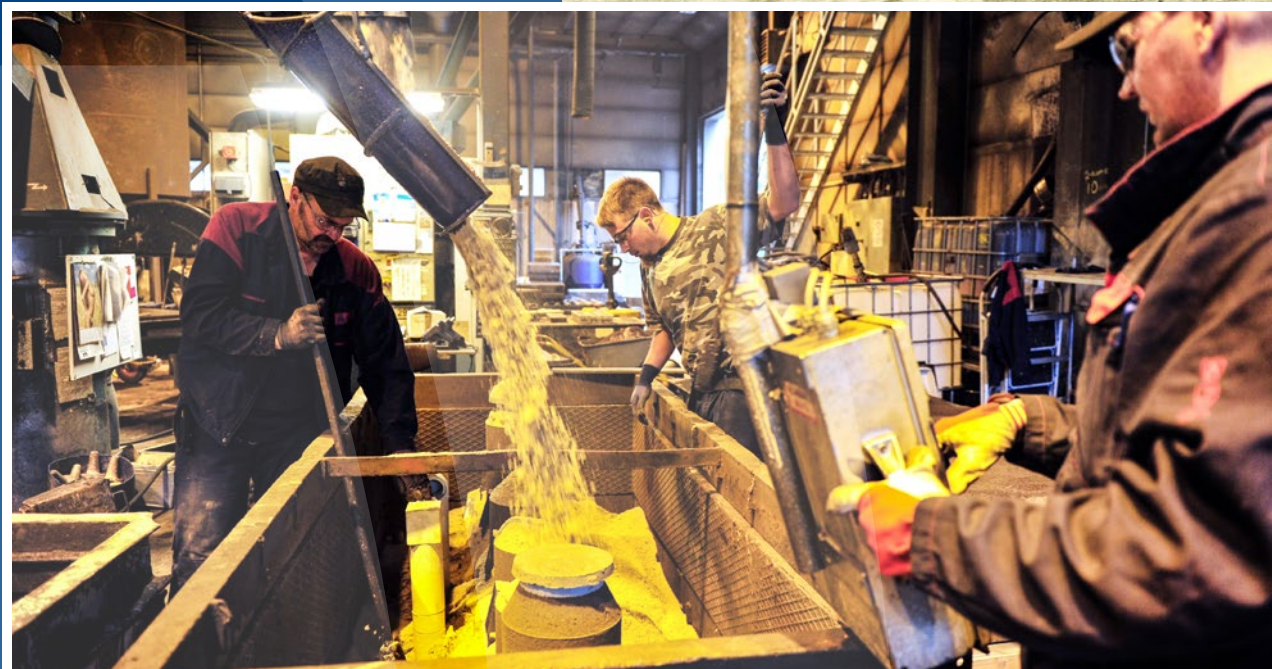
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Moulding *lines*



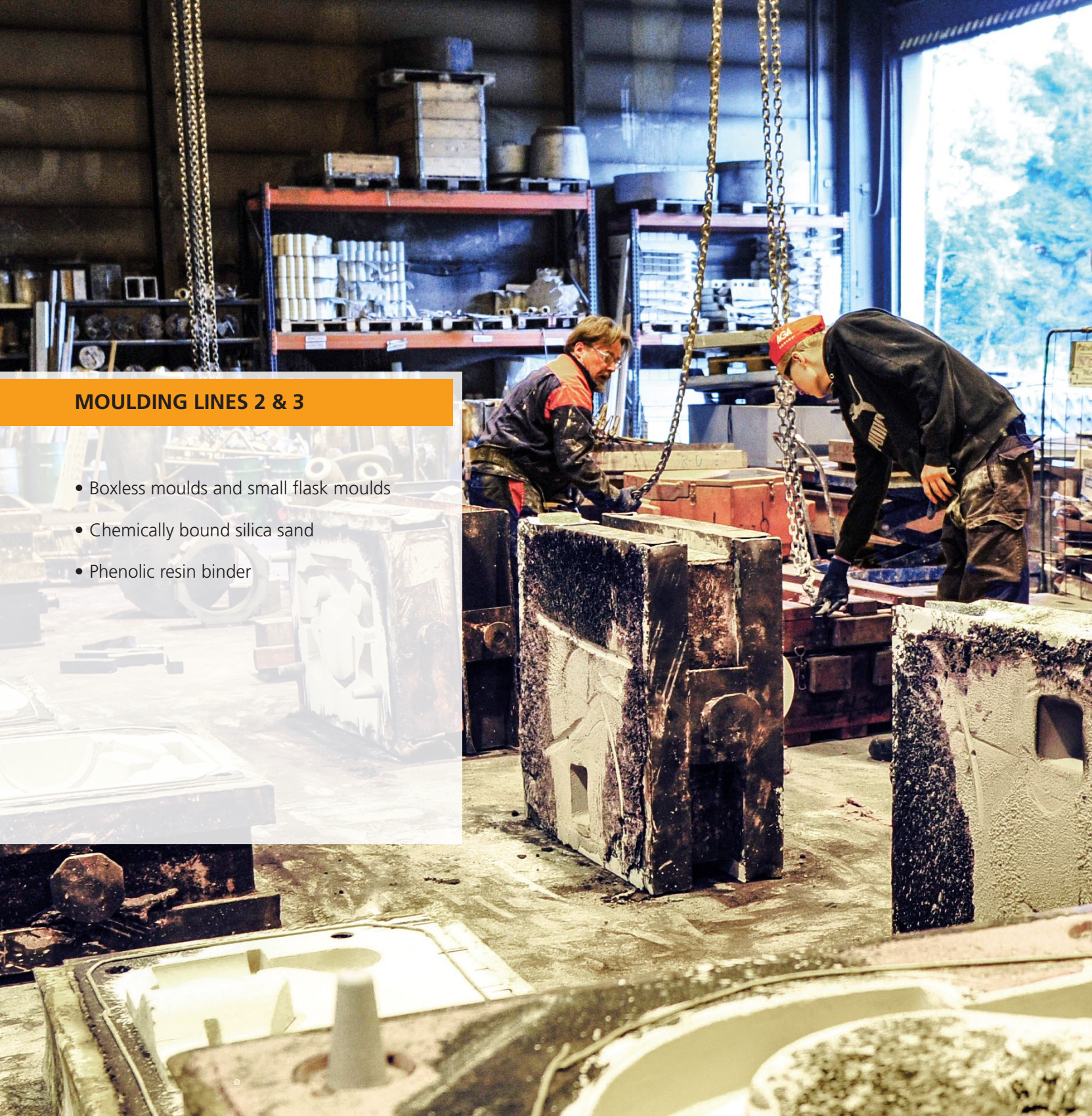
MOULDING LINE 1

- Moulding line 1 manufactures the biggest moulds at the foundry.
- The size of the patterns range from 650x650 to 3000x3000.
- Alkaline phenolic resin is used with Belgium quartz sand.



MOULDING LINES 2 & 3

- Boxless moulds and small flask moulds
- Chemically bound silica sand
- Phenolic resin binder



Finnish geothermal fluid naturally

The Finnish Naturet geothermal fluid is a heat-transfer fluid. The main raw material of nature is ethyl alcohol, i.e. ethanol. Naturet's energy production is based on the natural heat in the ground, rock and water. The heat is collected and recycled to heat property and the service water.



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MATERIALS

Material	Standard	W. No.	Equals	Strength
GRAY CAST IRON				
EN-GJL-250	EN-1561	0.6025	GRS250, GG25, SIS0125, FGL 250, Sc25	-
EN-GJL-300	EN-1561	0.6030	GRS300, GG30, SIS0130	-
SPHEROIDAL GRAPHITE CAST IRON				
EN-GJS-400-18	EN-1563	0.7043	SIS0717-15	<30mm
EN-GJS-500-7	EN-1563	0.7050	GRP500; GGG50, SIS0727-02, FGS 500-7, VC 50	<30mm
EN-GJS-600-3	EN-1563	0.7060	GRP600, GGG60, SIS0732-03	<30mm
EN-GJS-700-2	EN-1563	0.7070	GRP700, GGG70, SIS0737-01	<30mm
EN-GJS-800-2	EN-1563	0.7080	GRP800, GGG80	<30mm
EN-GJS-500-14	EN-1565	5.3109	Ferritic Ductile HiSi iron	<30mm
EN-GJS-600-10	EN-1566	5.3110	Ferritic Ductile HiSi iron	<30mm
EN-GJS-1000-5	EN 1564	-	ADI	-
EN-GJS-1200-2	EN 1564	-	ADI	-
SIMO SPHEROIDAL GRAPHITE CAST IRON				
EN-GJS-SiMo30-7	EN 16124	5.3112	-	-
EN-GJS-SiMo40-10	EN 16124	5.3115	-	-
MANGANESE STEEL				
G-X120Mn13-06	SFS 394	-	SS2183	-
STEELS EN 10293				
GS240	EN 10293	1.0446	GS-52, GS-45, SS1305	t<100
G17Mn5	EN 10293	1.1131	SFS 365, GS-17M5, G16Mn5	t<50
G20Mn5 +N	EN 10293	1.6220	GS-20Mn5	t<30
G20Mn5 +QT	EN 10293	1.6220	GS-20Mn5	t<100
G24Mn6 +QT1	EN 10293	1.1118	-	t<50
G24Mn6 +QT2	EN 10293	1.1118	-	t<100
G17CrMo5-5 +QT	EN 10293	1.7357	SFS369, SIS2223	t<100
G17CrMo9-10 +QT	EN 10293	1.7379	~SFS370, SIS2224	t<150
G26CrMo4 +QT1	EN 10293	1.7221	SFS367, SIS2225	t<100
G34CrMo4 +QT1	EN 10293	1.7230	SFS368,	t<100
G42CrMo4 +QT1	EN 10293	1.7231	~A 372 (F (55,65,70))	t<100
G35CrNiMo6-6 +N	EN 10293	1.6579	-	T<150
GX4CrNi13-4 +QT	EN 10293	1.4317	G-X6CrNi13 4, SFS386	t<300
GX4CrNiMo16-5-1 +QT	EN10293	1.4405	-	t<300
PRESSURE EQUIPMENT STEEL EN 10213-2 Steels used at room temperature and elevated temperatures				
GP240GH +N	EN10213-2	1.0619	~SFS356, ~GS-45	t<100
G17Mn5 +QT	EN10213-3	1.1131	SFS 365, GS-17M5, G16Mn5	t<50
G20Mn5 +N	EN10213-3	1.1131	~SFS 365, GS-17M5, G16Mn5	t<30
PRESSURE EQUIPMENT STEEL EN 10213-4 Austenitic and austenitic-ferrite steels				
GX5CrNi19-10 +AT	EN10213-4	1.4308	~SFS387, ~SS2333	t<150
GX5CrNiNb19-11 +AT	EN10213-4	1.4552	~A 351 CF8C, ~SCS 21 (Japan)	t<150
GX5CrNiMo19-11-2 +AT	EN10213-4	1.4408	~SFS 388, ~SS2343	t<150
HEAT RESISTANT STEELS SFS-EN 10295				
GX40CrSi28	EN 10295	1.4776	~A 297 HC, ~HC, SCH 2 (Japan)	-
GX25CrNiSi18-9	EN 10295	1.4825	~A 297 HF, ~A 608 HF-30, ~A 743 CF-20	-
GX40CrNiSi25-12	EN 10295	1.4837	~A 297 HH	-
GX40CrNiSi25-20	EN 10295	1.4848	~SFS 393, ~A 297 HK, ~A 351 HK30, ~A 608 HK-30	-
GX40NiCrSi35-26	EN 10295	1.4857	~A 297 HP, ~ZG 45Ni35Cr26 (China)	-
WEAR RESISTANT ALLOYS EN 12513				
GX300CrMo27 1	EN 12513	0.9650	EN-GJN-HV600(XCr23)	-
GX300CrMo15 3	EN 12513	0.9635	EN-GJN-HV600(XCr14)	-
GX300CrNiSi9 5 2	EN 12513	0.9630	EN-GJN-HV600,Ni-hard4,S50457-00, A 532- 1D	-
GX330NiCr 4	EN 12513	0.9625	EN-GJN-HV550, Ni-hard2	-

R0.2	Rm	A %	Z %	KV J	°C	HB	C	Si	S	P	Mn	Ni	Cr	Mo
-	250	-	-	-	-	-	-	-	-	-	-	-	-	-
-	300	-	-	-	-	-	-	-	-	-	-	-	-	-
250	400	18	-	-	-	130-175	3.5-3.6	2.2-2.4	-	-	max0.2	-	-	-
320	500	7	-	-	-	170-230	3.5-3.6	2.1-2.4	-	-	max0.4	-	-	-
370	600	3	-	-	-	190-270	3.5-3.6	2.1-2.3	-	-	max0.7	-	-	-
420	700	2	-	-	-	225-305	3.5-3.6	2.1-2.3	-	-	max0.7	-	-	-
480	800	2	-	-	-	245-335	3.5-3.6	2.1-2.3	-	-	max0.7	-	-	-
400	500	14	-	-	-	-	-	3.8	-	-	max0.5	-	-	-
470	600	10	-	-	-	-	-	4.3	-	-	max0.5	-	-	-
700	1000	5	-	-	-	-	-	-	-	-	-	-	-	-
850	1200	2	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	2.8-3.2	-	-	-	-	-	0.6-0.8
400	510	6	-	-	-	190-240	-	3.8-4.2	-	-	-	-	-	0.8-1.1
-	-	-	-	-	-	220	1.05-1.35	1	-	0.07	11-14	-	-	-
240	450-600	22	-	31	RT	-	0.23	0.6	0.025	0.03	1.2	-	-	-
240	450-600	24	-	27/70	-40°C/ RT	-	0.15-0.2	0.6	0.02	0.02	1.0-1.6	-	-	-
300	480-620	20	-	27/50	-30°C/ RT	-	0.17-0.23	0.6	0.02	0.02	1.0-1.6	0.8	-	-
300	500-650	22	-	27/60	-40°C/ RT	-	0.17-0.23	0.6	0.02	0.02	1.0-1.6	0.8	-	-
550	700-800	12	-	27	-20	-	0.2-0.25	0.6	0.015	0.02	1.5-1.8	-	-	-
500	650-800	15	-	27	-30	-	0.2-0.25	0.6	0.015	0.02	1.5-1.8	-	-	-
315	490-690	20	-	27	RT	-	0.15-0.2	0.6	0.02	0.025	0.5-1.0	-	1.0-1.5	0.45-0.6
400	590-740	18	-	40	RT	-	0.15-0.2	0.6	0.02	0.025	0.5-1.0	-	2.0-2.5	0.9-1.2
450	600-700	16	-	40	RT	-	0.22-0.29	0.6	0.02	0.025	0.5-0.8	-	0.8-1.2	0.15-0.3
540	700-850	12	-	35	RT	-	0.3-0.37	0.6	0.02	0.025	0.5-0.8	-	0.8-1.2	0.15-0.3
600	800-950	12	-	31	RT	-	0.38-0.45	0.6	0.02	0.025	0.5-0.8	-	0.8-1.2	0.15-0.3
550	800-950	12	-	31	RT	-	0.32-0.38	0.6	0.02	0.025	0.6-1.0	1.4-1.7	1.4-1.7	0.15-0.35
550	760-960	15	-	50	RT	-	0.06	1	0.025	0.035	1	3.5-5.0	12-13.5	0.7
540	760-960	15	-	60	RT	-	0.06	0.8	0.025	0.035	1	4.0-6.0	15-17	0.7-1.5
240	420-600	22	-	27	RT	-	0.18-0.23	0.6	0.02	0.03	0.5-1.2	0.4	0.3	0.12
240	450-600	24	-	27	-40	-	0.15-0.2	0.6	0.02	0.02	1.0-1.6	0.4	0.3	0.12
300	480-620	20	-	27	-40	-	0.17-0.23	0.6	0.02	0.02	1.0-1.6	0.8	0.3	0.12
200	440-640	30	-	60	RT	-	0.07	1.5	0.03	0.04	1.5	8.0-11	18-20	-
200	440-640	25	-	40	RT	-	0.07	1.5	0.03	0.04	1.5	9.0-12	18-20	-
210	440-640	30	-	60	RT	-	0.07	1.5	0.03	0.04	1.5	9.0-12	18-20	2.0-2.5
-	-	-	-	-	-	-	0.3-0.5	1.0-2.5	0.03	0.04	1	1	27-30	-
230	450	15	-	-	-	-	0.15-0.35	0.5-2.5	0.03	0.04	2	8.0-10	17-19	0.5
220	450	6	-	-	-	-	0.3-0.5	1.0-2.5	0.03	0.04	2	11.0-14	24-27	0.5
220	450	8	-	-	-	-	0.3-0.5	1.0-2.5	0.03	0.04	2	19-22	24-27	0.5
220	440	6	-	-	-	-	0.3-0.5	1.0-2.5	0.03	0.04	2	33-36	24-27	0.5
-	-	-	-	-	-	39-62	2.4-3.2	1	0.08	0.08	0.5-1.5	2	23-28	3
-	-	-	-	-	-	39-62	1.8-2.4	1	0.08	0.08	0.5-1.5	2	14-18	3
-	-	-	-	-	-	45-62	2.5-3.5	1.5-2.5	0.08	0.08	0.3-0.8	4.5-6.5	8.0-10	0.5
-	-	-	-	-	-	-	3.0-3.6	0.8	0.1	0.1	0.8	3-5.5	1.5-3	0.5

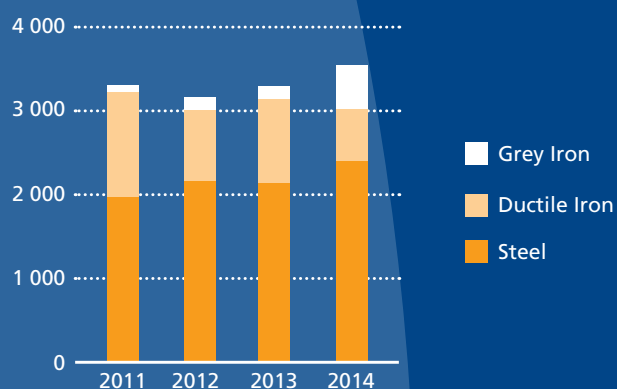
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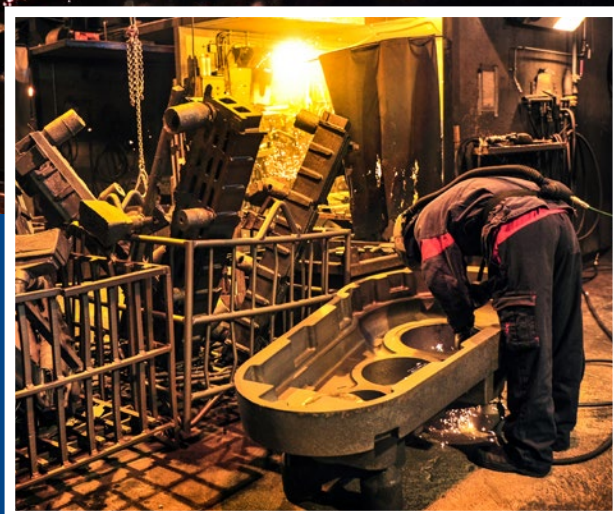
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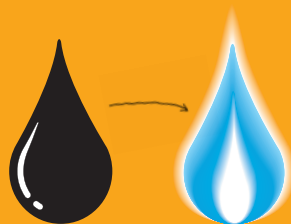


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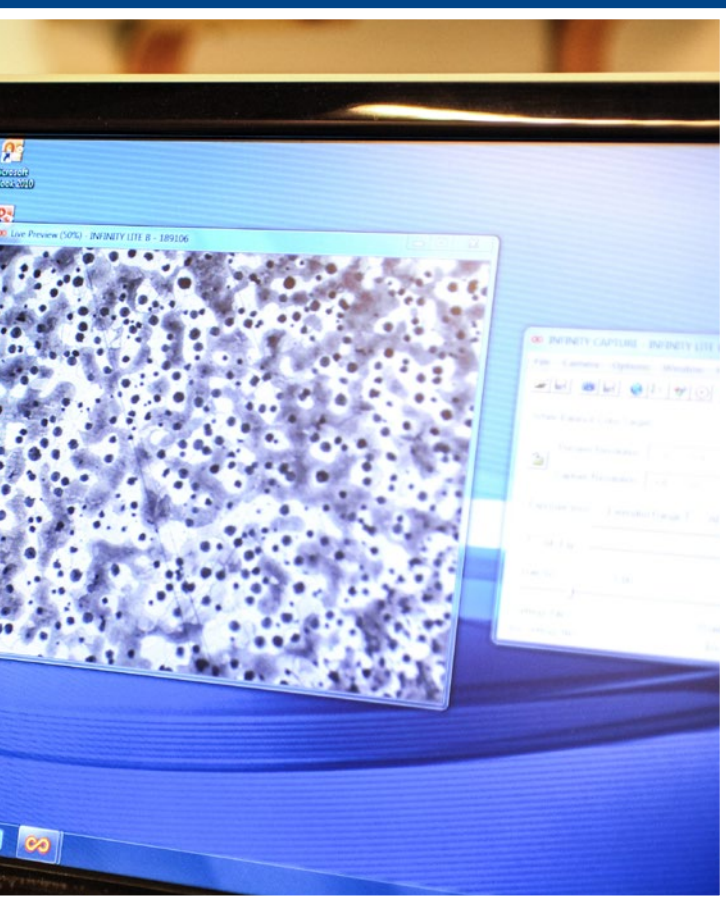
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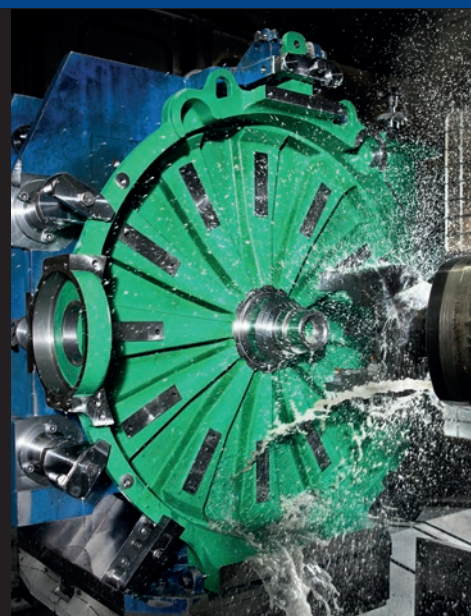


flexibility



reliability

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Kumera Corporation

Kumera Corporation is a worldwide manufacturer of industrial machinery and engineering services. The corporation consists of four major operating divisions:

Power Transmission Group provides a comprehensive range of industrial and marine gearboxes for all major process industries. Kumera has more than 50 years of experience as manufacturer of mechanical power transmissions. There are more than 200.000 Kumera gear units in operation world-wide.

Technology Division specializes in state-of-the-art engineering and heavy process equipment for metallurgical and environmental industries. Kumera has successfully performed several modernization projects for metals industry and is a leading manufacturer of industrial steam dryers for copper and nickel smelters and lignite.

Foundry Division with **Peiron Oy** as the leading company produces all types of steel and iron castings, forming a link in the vertical refining chain of Kumera Corporation.

Marine Division produces propulsion gearboxes and propellers including control systems for any seafaring vessels.

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