

Van 300 – Coaters, Converting Equipment, and other Misc. Equipment

Central Colour and starch processing system

Control station, 11 tanks, capacities 50 - 400 m³, 6 silos, 4 x 400, 2 x 200 m³ (concrete), 2 storage chests, brand Althammer, year 2006, capacity 8.000 ltr., 25 vessels 5-25 m³, approximately 30 high power performance pumps Netzsch, mixing and dosing system, pipes, valves, slides/gates, flow meters, cooker, brand: Avebe, type HSC, year 2000, Machine-Nr. 823, control, brand: Pro-Face, Type Quick Panel, starch cooker, brand: BVG, control with operator panel, Siemens, type Simatik Panel Touch, year 2007, casein unit: 5 steel tanks (2 weighting containers (corn/potatoes), 2 batching tanks, 3 cooker "potato starch", work vessel, Big Bag- loading/unloading unit, cooling towers, heat exchanger, pipes, MSR-Technology, pumps.

Coaters

Coater "SM39" (List-No.71)

Voith/Jagenberg, year 1954-1979, 1986 (machine SM 39 was built from coater SM18 and SM21), working width 3.800 mm, speed maximum 750 m/min, including unwinder, drive/feed roller, 4 in king units, 4 x IR- surface heating, 4 x dryer section, rewinder, control cabinet, drives, motors, pipes, pumps, accessories, web guide control brand BST, type EKR 2000, web changing system brand IBS, type RCS 5000, 3 measuring frames: brand Lippke, type Vertikal.K, Serial-Nr. 845045, 3 measuring frames brand Measurex, type 2002, 5 operating panels Siemens, type Simatik HMI, control station with system control Siemens Simatic S7, 9 TFTmonitors for machine technology/QS Quality assurance, 2 network terminals, New Siemens S7 control in 2013. AC Drive.

Coater "SM23" (List -No. 72)

Jagenberg, year 1992, working width 4.000 mm, control with operator panel brand Beckhoff, unwind Jagenberg, type TAB, tambour changing system, 2 coating units Jagenberg, type Combiblade with doctor roll, year 1991, 2 ink supply units brand GAW, drying section brand Spooner (4 floatation dryer), 2 IR radiators, 9 drying cylinders, web guide control brand E+L, 2 measuring frames brand Lippke, pope roller Jagenberg, tambour changing system brand IBS, type Turnup, control stations, switch boards/control cabinets, pipes, pumps, MSR Technology, accessories.

Coater "SM22" (List Nr.73)

Jagenberg, year 1988, working width 4.000 mm, unwind Jagenberg, type TAB, tambour changing system, 2 coating units Jagenberg, type Combiblade with doctor roll year 1988, drying section brand Spooner (8 floatation dryers), 2 IR radiators, 10 drying cylinders, web guide control manufacturer E+L, 3 measuring frames Measurex, pope roller Jagenberg year 1989, tambour changing system IBS, type Turnup, control station, switch boards/control cabinets, pipes, pumps, MSR Technology, accessories.

Supercalenders

Calender "KAL30" Kleinewefers, type supercalender K140/12, year 1986, SN 21105360, working width 4.100 mm, 12 rolls unit, hot water system, brand HTT, unwind and reel.



Calender "KAL31" Kleinewefers, type supercalender K140/12, year 1986, SN 21109100, working width 4.100 mm, control station, 12 rolls unit, hot water system, brand HTT, unwind and reel, roll storage W/H 5.500 x 5.000 mm, 6 storage places, 2 support blocks, additional roller changing crane, brand Wöhr, load capacity 2 x 7,5 to., working width 5.000 mm.

Lathes

The supercalenders have two lathes, one with a finishing belt for rolls.

VDF Boehringer, CNC type, model DUS 1000, YEAR 2001, SERIAL NUMBER 2042.6530.05, Siemens control type Sinumerik MMC 100, manual turn, version 4 04 07, width 6000mm
Spare rolls for each calender.

Slitter – Winders

Slitter winder "RSM14" Jagenberg, type Vari-Roll 330-15, year 1981, Serien-Nr. 3023347, working width maximum 2.400 mm, unwind station, 3 rewinders (1 defect), control panel, accessories.

Slitter winder "RSM12" Beloit, type HTC 3, year 1988, Machine-Nr. 1005, working width 4.000 mm, one roller block, 6 winding blocks (centre drive), pre-trimming, main trimming, SPScontrol Siemens, type Simatik S7, platform system, switchboard cabinet, BDE-terminal, accessories.

Slitter winder "RSM10" Jagenberg, type Variroll 650/15-4200, year 1976, design speed 1.000 m/min, working width 4.200 mm, load capacity maximum 1.000 kg/roll, 1 roller block, 5 winding blocks, trimming, pre trimming, switch board cabinet, suction unit.

Slitter winder "RSM11" Jagenberg, type Vari-Roll 650/15-4200, year 1977, Serial-Nr. 3022668, working width 4.200 mm, control panel, 1 roller block, 6 winding blocks, knife unit with 7 slitter knives, pre trimming, accessories .

Slitter winder "RSM13" Jagenberg, type Vari-Plus 650-15/4000, year 1992, Serial-Nr. 30.24660, working width 4.000 mm, 1 roller block, 6 winding blocks with center drive, knife unit with 11 slitter knives, pre trimming, control station SPS-control Siemens, type Simatik S5, accessories, BDE-station, 1 chucks, safety light sensors/barriers.

Core cutter

Lang, year 2017 serial number 4358, core diameter 60 to 306 mm.

Cross cutters / sheeters

Cross cutter/sheeter "QS29" Jagenberg, type Synchro 400-2200, year 2000, Serial-Nr. 1010014897, working width 2.200 mm, 2 unwind stations, 5 longitudinal knives , 1 cross/traverse knife , take off belts with crap gate/reject gate, stacking station, control with operator panel, manufacturer Lauer, peripheral devices, BDE-terminals, platform system , accessories, pallet feeding system.

Cross cutter/sheeter "QS26" Bielomatic, type P 785-VGL-S-2M, year 1992, Serial-Nr. P785/113, working width 1.650 mm, 2 unwind stations Monomatic, 3 longitudinal knives, thickness sensor, web tension monitoring, brand EL, web edge guide control, brand EL, cross knife, take off conveyor with reject gate / storage 1/ storage 2, 2 lift table storages, accessories, platform system, control panel.

Cross cutter/sheeter "QS27" Bielomatic, type P 885-VGL-2M-S, year 1992, Serial-Nr. P885/120, working width 1.650 mm, 2 unwind stations Monomatic, 3 longitudinal knives, thickness sensor, web tension monitoring, brand EL, web edge guide control, brand EL, cross knife, take off conveyor with reject gate /storage 1/ storage 2, 2 lift tables storage 1/storage 2, accessories, platform system, control panel.

Sheeter QS22 Jagenberg manufacture, type Synchro AS 116 , year 1981, serialnumber 3073232. Twin layboys.

Sheeter QS23 Jagenberg manufacture, type Synchro AS 116 , year 1981, serialnumber 3073233. Twin layboys. Not complete.

Sheeters in paper dispatch

BEILOMATC TYPE P885/VGL-S, year 1989, serial number P885/77 VGL, 1650 mm width, speed max 400 m/min, three slitters, monomatik, paper transfer conveyor to wrapper.

BEILOMATC TYPE P885/VGL-S77, year 1985, serial number P885/77 VGLI, 1650 mm width, speed max 400 m/min, three slitters.

BEILOMATC TYPE P885/VGL-S, year 1997, serial number P885/77 VGL, 2200 mm width, speed max 400 m/min, three slitters, automatic pallet change.

Roll removals conveyor, make RZL Voith Sultzer, frieght elevator,two lift tables, 4 roll shuttles, length and cross use, transport distance 120 mtrs, control cabinets, camera system and PC control system.

Trim removal system

2 Product strands: rim / rolls+bales
main components are:

Product strand rim: Shredder, Untha, year 2003, 4 shredder drums, baler, brand Paal, conveyors, pipes, separators.

Product strand: rolls/bales: roll lift table, roll splitter hydraulic operation, infeed conveyor into and out of the roll splitter, high consistency pulper, brand Lamort, dump chest 80 m³, storage tank 100 m³, chest for coated trim, pumps manufacturer Netzsch.

Baling Press

Baling press: Austro Press automatic for sheeter and rewinder trims, type APK 52DH 1500, YEAR 2003, make SPS-Analagensteuerung, Siemens control type Simatik OP7, automatic wire tying.

Guillotines

Polar, type 176E, year 2003, loader/infeed system Transomat, type TRBL-1607S, year 2003, Machine-Nr. 7296002 (Packet gripper), air cushion table, feeding table, type TR 160 ER-7S, Bj. 2003, Machine-Nr. 7295102, safety light guarding, safety fence system, switch board cabinet.



Schneider Senator guillotine, model 137, number 70039, width 1370mm, MKL lift table, removals conveyor length 5 m, feed table with Vacuumatic air float system.

Schneider Senator guillotine, working width 1,150mm, control, brand MC.
Polar, type 155 MON, machine number 5621068, working width 1370mm, control, type EMCmonitor.

Re-stacking unit Schneider manufacture, year 1988, serial number 892-1557, format 400 x 100, 400 x 1470mm, ream height 30 to 120mm, air float table and control system.

Pallet Invertors

Kraft and Zipsner make, type VB 140RL, year 1991, control cabinet and safety guard.

Pallet invertor make MWN TYPE stew 200, year 1970, machine number one for large pallets.

Printers

Heidelberg Letterpress, type cylinder 54x72.

Heilberg 5 colour offset printing machine type speed master, year 1994, number 620365, control station,

Heidelberg type CPC 1.04/CP Tronic five printing units, IR dryer, all colour dampening, prints to date 58.007.946.

Pallet conveyor system

Logistic centre/ high bay storage, type with traversing racking, two elevators for loading and unloading pallets, four levels high, roller width 1200mm, transfer trolley, rotary plate strapping: make MOSCO type KZV 111, year 1995, pallet stretch wrap system, Discomat B bar code reader.

Wrapper

Reker pallet wrapper, year 2004, type EL 601, PLASTIC WRAPPING WITH HEAT CHAMBER 650KW.

Ream Wrappers

"ERM6" Wrapmatic, type GRM, Bj. 1993, Serial-Nr. 51010770193, system control Siemens, type Simatik S5, roll width maximum 1.000 mm, paper measuring maximum 1.200 x 1.600 mm, pallet transport system with storage and retrieval system, 2 product strands, palletoutward transfer station, switchboard cabinet, platform system, accessories, old control - to be renewed.

"ERM5" Wrapmatic, type GRM, reel unwinder, brand: Schneider, ream feeder, brand Schneider, year 2004, roll width max. 1.200 mm, pallet conveyor system with storage and retrieval system , pallet outward transfer system, 2 product strands, automatic ream counter Type 2083, year 2004 (retrofitted), switch boards, control cabinets, safety fence system, safety light barriers.



Manufacturer Reker, year 2004: pallet circulation system with feeding station, outward transfer station, 2 x freight elevator, 2 press stations longwise/cross, cover station, brand: FBA, 2 Foil wrapping stations, brand: Reker, shrink unit, brand: Erapa Lenzen, type EL 601, year 2004, Erdgas, Nennwärmeleistung 650 kW, centering station, automatic strapping machine, brand: Mosca, labeling robots, brand: ABB, hotmelt unit, brand: Nordson, type Pro Blue 4, control station, 3 x TFT-monitor, control cabinets, 1 balance, brand: Schenck, type Disomat B Plus, 1 Barcode reader, keyboards, - special installation; linked to logistic center and cross cutter QS 28.

Lamb Roll wrap system

Lamb roll wrap with six muti paper roll wrap storage, infeed conveyor, sorting gate, label scanner, with paper wrap, crimping station, end heating plates for gluing roll ends, roll ejector and tranfer system, year 1987, weighing unit for rolls, control cabinet and BDE -terminal.

Roll grinders/ Machine tools

Roll grinder, brand: Ravensburg, Serial number. 8922, centre height / centre width 1.100 x 8.000 mm, face plate 1.300 mm, speed 69 U/min., support, tailstock, roller block, steady rest. Telescopic drawer cabinet, width 600 mm, 7 pullouts, 1 tool cabinet, tools , accessories.

Roll grinder, manufacturer Waldrich, grinding diameter 1.000 mm, grinding length 7.000 mm, duo bed, belt grinding device; special modifications.

Workshop L+Z Dremachine, type DL250, center height/center width 270 x 800 mm, speed maximum 1.120 rpm, three jaw chucks, 250mm diameter quick change tool holder. Serial number 647-23.

Maintenance shop L&Z lathe make VDF Boehringer, type DL 250, year 1956, number 647-23, center height 270 x 800mm, speed 1.120 rpm, 3 jaw chuck.

Maintenance shop lathe make VDF Boehringer, type D250-1000, year 1956, serial number 651/2, center height/center width 270 x 800 mm, speed 1.120 rpm.

Maintenance shop L&Z WM-09, center height/center width 265 x 1000mm, speed max 1000 rpm , quick tool change, magnetic chucks.

Maintenance shop Knife grinder make Gockel, model GA3-4851, grinding length 4500mm, unit has four magnetic tables 950 x 175 mm.

Maintenance shop radial drill, make Mas, type VR4A, 2500rpm, rotary table 450 mm diameter.

Maintenance shop Consol milling machine, make TOS, model FA5A, year 1973, serial number S310966N, table size 2000 x 450mm, speed maximum 1400 rpm, tool holder model SK 50, high pressure machine vice, bakenbreite 160mm.

Maintenance shop/ Grooves milling machine, manufacture type Hurth LfV3, table size 350 X 800 mm, speed maximum 100 rpm, high pressure vice, chucks 160mm.



Maintenance shop demagnetization device, make Eddy Turm, model ETH 7440, serial number 0700-0900, yoke distance 300mm. Maintenance shop/sheet metal working/ring bending machine, make Vopf, type C-602-HE, serial number 9206. Maintenance shop sheet metal working/swing folding machine, make RAS, model 7425, machine number 56/30, working width 2500mm, sheet thickness 4.5 mm max, control brand RAS TYPE Multibebend. Maintenance shop/sheet metal working/electrical plate shears, make HSKS, year 1958, working width 2520mm, sheet thickness max 4mm, 3 support arms, back gauge.

Additional L+Z lathes:

L+Z lathe, brand: Heyligenstaedt, type 400 Ea 30, year 1956, number 185658-400, centre height /centre width 410 x 7.000 mm, speed maximum 1.140 U/min., face plate 800 mm, quick change tool holder system Multifix, tailstock, steady rest. 3 tool holder cassettes, rotating center, accessories.

L+Z Lathe, brand: VDF Boehringer, type V5K, number 10835, centre height / centre width 355 x 4.000 mm, speed maximum 600 U/min., 3-jaw chuck, quick change tool holder, System Multifix, tailstock, steady rest, table trolley, container with clamps, tool holder cassettes, tools.

L+Z lathe, brand: VDF Boehringer, type 21R0, number 10253598, digital display, brand: Sony, 2 axes, centre height / centre width 250 x 1.000 mm, speed maximum 2.240 U/min., 3-jaw chuck, brand Forkat, type F250, quick change tool holder, System Multifix, tailstock, steady rest.

Power supply

Generator Perkins diesel, 12 cylinders, power 600Kw in cabin.

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Power system with transformer station, medium voltage system, 25 transformer stations, 1x250, 1x 600, 19x 1600, 2 x 2000, 1 x 3800 KVA. Transformers located around the site.

Air compressors

Air Generation compressor number 5, Ingersol Rand type 21V-40AA19, year 1998, power 722 KW. Rotary make Centac type 2C1V-40AA19, year 1991, power 915KW, two compressed air tanks.

Air dryer make Sabroe. Three chain hoist.

Turbine/Boiler House

Boilers

Four boilers, Loos manufacture gas fired with Saake twin burners. Manufacturer LOOS, year 1999, steam power 30 t/hr. Feed water tank 75 mtrs. Operating pressure 13 bar.

Turbine

KKK Seimens Type AFA6G6A steam turbine, year 2002, steam consumption 90t/hr with 13 bar over/excess pressure, electrical pressure 4000KW, speed 1500 rpm,

Generator manufacture AVK type DOG 15Mw/4R, output 4870 KVA, control cabinet and switch cabinet. The generator had overhaul in 2015.

Mill voltage: 30,000 - 10,000 - 2000 - 230

Laboratory Equipment

- Oven, Hercules, Type K1150/2, Temperature max. 1.100 °C, Potentiometer.
- Rotary evaporator, Büchi, Type Rotavapor RE 111/471
- Druckbehälter Fabr. Ika, Typ M 20
- Oven, Heraeus, Typ RT 360, Serien-Nr. 24585
- Laboratory mill Specac, Timer, manufacturer. Specac, Type Specamill
- Centrifuge
- Titration automat, Mettler Toledo, Type DL 50 Graphics, accessories, shear table, Notebook, Manufacturer Toshiba, dosing unit.
- Magnetic stirrer, Ika Type Magret, stand.
- FT-NIR-Spectrometer, Bruker, Type MPA, Serien-Nr. 122000, processing unit PC, TFTmonitor, printer, equipment trolley, dryer block, Tecne, type Dri-Block DB3.
- Flow meter, Endress & Hauser, Type Liquiline MCM 42, magnetic stirrer, Ika, type Magret.
- screening unit, Retsch, type ST1WS1, Serial-Nr. 10179005, vacuum pump.
- Moisture tester, Mettler Toledo, type HR 73.
- Thermostat, Hake, type B3-DC1, Laboratory mixer, Brookfield, type DV-I + Viscometer, electric. balance Sartorius, PH-meter, WTW, type PH 526.
- PH-measuring instrument, WTW, type PH 537, conductometers, WTW, Type LF 191.
- Analytical scale balance, Sartorius, type Analytic, ventilated box, Heraeus, Type UT 6120, power 2,4 kW, mixer .
- Gas chromatograph, Perkin Elmer, type Clarus 500, Serial-Nr. 22902, wetspectrometer, type Clarus 560, 82-times sampler, PC Lenovo, TFT-monitor, keyboard mouse.
- FTIR-spectrometer, Thermo, type Nikolet 380, Serial Nr. AGJ0600341, processing unit PC r. Fujitsu Siemens, Intel Core i5.
- UV-VIS-Spectrometer, Perkin Elmer, Type Lambda 25, processing unit, PC Lenovo Intel Core i5, TFT-monitor, printer Epson, Type B510DN.
- Zeiss Microscope.
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- Analytics Laboratory one Microscope Zeiss manufacture type Stemi SV 8, Lichtquelle, Fabr. Schott, Typ KL 1500 Elektronik, Stativ.
- Laboratory calender: Kleinewefers, year 1993, working width 400 mm.

Laboratory /Wet Laboratory

- Core cutter type TM 250, year 1986, machine number 2428, length measuring system, support suction system.
- Stereo microscope make Leica, type DMLB, CCD- camera, type DFC425, light source, PC Fujitsu Siemens, intel core i5, 22 inch TFT monitor and keyboard with mouse.
- Stereomicroscope make Leica type MZ6, light source Schott, TYPE kl1500 electronic
- Rheometer make Bohlin, type CVO, with accessories, evaluation unit, PC is a HP intel core i5 with a 17-inch monitor.
- Laboratory stirrer, make Ika, model RE 162/P, speed 2.5 to 400 rpm with tripod and speed control type RE162P Controller type RE 162.
- UV-VIS Spectrometer: make Perkins Elmer model Lambda2.
- Viscometer make Brookfield, PC Tube monitor, digital display with accessories.
- Swing and vibrating plate Ika Model HS250.
- Penetration-Dynamics-Analyser, Emtec, model PDA.co2, serial number 0025, measuring frequency 1Mhz/2Mhz, MCU Module, PC Fujitsu Siemens, 17 inch TFT monitor Dell manufacture with key board and mouse.
- Thermostat: make Julabo, type 5B/UC, programmable rheometer Brookfield type DV-111.
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- Moisture analyser: make Kern, type MRS120-3, weighing range max 120 g, scale mark 0,01g.
- Laboratory stirrer: make Zipperer, type R100SD, serial number 370038, 300 w with tripod, incineration balance make Barnd Sauter.
- Front sash with heating plate: make Gernhart, type H43, palte size 300 x 500, magnetic stirrer brand IKA, type Magret, with tripod, laboratory stirrer Ika type RE 162 with tripod.
- Pallet truck Little Mule, yellow in colour and load 2500 kg.
- Aox-analysis system make: Haberkorn & Braun, type M2000C.
- Hercules oven: type RO 4/25, temperature max 1100 deg C, vacuum pump, working tables and lighting.
- Laboratory calender: make Meteor, type Standard E.
- Analytical balance: make Sartorius, weighing 0.02 to 620 g, scale mark 0.001g, tripod, thermometer, heater.
- Laboratory coater: make Heraeus/Jagenberg, year 1987, working width 380mm, table system.
- Workshop crane: make Stahl type L 500K, year 2002, load max 500 kgs.
- Laboratory stirrer: Ika type RE 162, speed 10 to 1600 rpm, tripod, speed control type RE 162/P, analogue, electronic balance: make Sartorius.
- Zeiss stereomicroscope with tripod, light source: make Schott type KL1500.
- Mikrotem high performance, make Leica model number RM2155.
- Analytical balance Sartorius, type 2006 MP weight range 170g.
- Colour kitchen stirrer: make Kotthoff, type MS2OAAT10 with tripod.
- Colour kitchen laboratory stirrer Ika, type RE162, speed 10-1600 rpm, tripod, speed control, type RE162, PH meter WTW, type PH537, digital balance Sartorius.
- Colour stirrer Ekato, serial number 64-08/39149, mobile tripod, rpm display, max speed 1400 rpm.
- Colour kitchen stirrer make Ika, type RW 47, with tripod and digital balance Sartorius.
- Wet laboratory stirrer Ika, type RE166, speed 50-6000 rpm, speed control type RE166, tripod, Stativ, incineration balance make Sartorius, incineration balance Sauter, book press 250 x 250 mm table system.

- Wet lab stirrer Hage manufacture, tripod, drying unit, two drying chambers make Frank, thermostat make Haketype B/N3.
- Wet lab PFI beater make Hamjern, type Marc V1, serial number 586, year 1988, operator panel Siemens type Coros OP5.
- Wet lab digital balance Sartorius, 2 analog pipettes make Eppendorf.
- Wet laboratory mixer, measuring freeness, model PTI/Frank, serial number 12190.
- Wet sheet former: make Hage, 2 dryers, heating thermostat/cooling thermostat, screen with control.

Fire department

- Fire fighting manufacturer MAN type ME 220B, LF16/12, diesel, 162Kw, engine 6871 cm3, mileage 20,177 km, vehicle number WHAM34ZZZ2YO64223, double cab, model type Metz FGL with hose reel.
- Turntable ladder lorry: year 1988, Mercedes Benz, type 1422.DLK 23-12, serial number 151496300, mileage 18,855 km, superstructure make Metz with six shutter doors.
- Rescue vehicle: year 1981, Daimler Benz, type 409, petrol, 66 kw, engine 2277 cm3, mileage 96687 km, serial number 30901510396459, superstructure make Binz type RTW 1981, commission number 200506.
- Fire fighting vehicle/pump, year 1976, Daimler Benz, type LPKF608, diesel 85 kw, engine 3758 cm3, mileage 15020 km, serial number 31408314247482, superstructure make Gebr Bachert, type LFS 14530 serial number 846/76.
- One axle trailer with double doors.
- One axle trailer with fire extinguishing cannon: make Total.
- One axle trailer: make Munz.
- High presser washer Karcher type HD 5/15C with hose reel.
- Tools and trolleys
- Work benches.
- Emergency power unit make Eisenmann type SA1.
- 10 off grid trolleys make Kaiser and Kraft, each can load 500 kg with scaffolding or wood, cables etc. oil disposal pump for hazardous waste make Erlo model GP20/1EX, hazardous material tank.
- Erlo hoses cart , four submersible pumps, safety belts, tripod with steel cable reel, extinguishers, CO2, foam, powder, metal fire, fat fire.
- Filling unit for extinguishers: make Vulkan type UP 07-3, year 1990.
- Stairway truck.
- Breathing air cylinders, instruments and mouth pieces.
- Crew vehicle year 1994, Volkswagen model T4 bus with windows, 8 seats, diesel 57 kw engine, 2370cm3, mileage 86259, number WV2ZZZ70ZSH015112.
- Five fire extinguishing cannons: make Comet/Minimax.
- Dryer cabinet for hoses: make Ziegler type ST7/2, serial number 1604.
- Suction pump: make Zeigler model SP 8/8, year 1968,serial number 87788, capacity 800 ltrs/min, delivery up to 80 meters, eight 210 kg, fixed on pallet.
- Crane scale make PCE type CS 5000 HD, load max 5000 kg.
- Two double ladders: make Zarges 1 x 6 steps and 1 x 10 steps.



Laboratory (waste water)

- Analyzer, manufacturer Lange, Type LT 200
- Oven, Heraeus, Type M 110
- Thermostat, Lange, Type LT 200 (new)
- VIS Spectral photometer, Lange, Type DR 3900,
- Sample fridge, Gorenje / Laboratory fridge, WTW
- Laboratory mixer, Ika, Type Ultra Turax T25.
- Zeiss microscope.
- Analytical scale balance, Sartorius, type BP 210 S, weighing range max. 210 g.

Mill Effluent plant

Rake in water intake. Two Archimedes screws for water intake from the river.

Settler

Two centrifuges, one in use and one in reserve, manufacturer KHD HUMBLDT WEDAG AG.

Sludge fed to a fluid bed boiler with gas burner. Input consistency approximately 40% sludge incinerated with secondary combustion chamber, waste heat boiler, flue gas cleaner, ash silos and conveyors to truck for disposal of ash.

Burnt sludge transferred outside the building by a screw conveyor. Mill final effluent to river 14 ppm

Two external vertical stainless-steel tanks for coating chemical. Location allows filling by road tankers.

Fork trucks and reel handling

Drawbar tractor: multi mover year 2016 rated 3500 kgs. Pallet truck.

Full details of trucks on request.