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Current Pharmaceutical Chemical & Cosmetic Inventory List

Filter-dryers, Dryers, Ovens, Drying Chambers, Filters, Band Filters, Evaporators/Steam plants, Heat Exchangers, Centrifuges, Compactors, Filter Presses, Extractors

Dryers

- S1501 Centrifuge dryer, FIMA 400HC22, PHARMA development, product parts & drum 2.4602, 36L, 1800 RPM, 20-120°C, gas heating, waste-gas filter, pulsation transporter, metal filter, under construction (Other equipment: 5 Büchi evaporators, deep freezing plant MesserGriesheim)
- S1801 Dryer (vibration fluid bed dryer) Heinen WT3/40, air processing, power and control board
- S5503 Multipurpose mixer-dryer, Riniker VC-1500, STRF, 1979, 2002 recon. INOX vapour filter 1995
- S24803 Mixer-dryer Drais, 1980, 1000 Lt., 1.4571, 200°C, -1/+1 b inside, jacket 6 bar
- S36501 Dryer vacuum HCG Nieuwe Pekela, 1998, tank pressure 10.9/-1 (full vacuum), 240/-10°C, 3520 Lt.

Drying & Warming Chambers

- S2401 Heraeus T5060 drying chamber
- S24401 Chamber dryer, 2 pcs. 1995, SS, 165x1 10x75
- S21901 Warming chamber Conthermo, max. 200°C, Temp. Control, (2800*3500*1600, 2002, SS)

Filters, Band Filters

- S2501 Filter Seitz FF30/30CW, 1975, 6 bar, 30 Lt.
- S1901 Rotary drum filter Krauss Maffei, St./rubber, vacuum, 19,6 m², max. internal pressure 6 bar, drum motor 2,5 kW, 1500 1/min., agitator motor 2,5 kW, 1500 1/min.
- S3601 Catalyzer filter, 2,5m², STRF, 1993
- S26901 Band filter Pannevis FBB 02/F5RK with motor, filter area 10mx2, 1m, 14571/PP/St

Evaporators, Steam Plants

- S1601 Rotary Evaporator (5x) Büchi R-187 ELEX20 special, evaporator piston 20 Lt. borosilicate glass, product contact material PTFE, 6 kW, 400 V, appropriate for EEX de IICT4, control, PHARMA development, (Other equipment avail. FIMA centrifuge dryer 400HC22, deep freezing plant Messer Griesheim)
- S2201 Steam plant Geb. Reinartz UHD; exhaust gas changer, 1997, gas burner Weisshaupt G8/ID until 2250 kW, 2 to/h
- S2301 Steam plant LOOS DF, capacity 600 kg/h, 1995

Centrifuges, Separators

- S1501 Centrifuge dryer, FIMA 400HC22, PHARMA development, product parts & drum 2.4602, 36L, 1800 RPM, 20-120°C, gas heating, waste-gas filter, pulsation transporter, metal filter, under construction (Other equipment: 5 Büch evaporators, deep freezing plant MesserGriesheim)
- S1401 Centrifuge HZ 80/1,3 titan 0,2, April 1998, regular checked
- S3701 Top discharge centrifuge (2 pcs.), Ferrum Diameter 1000mmm –STRF, 1964/65
- S22201 Reverse filter centrifuge Henkel, incl. control, 0,42 m², d=600, 3 to, 1987, HC
- S35501 Centrifuge Ferrum DSZ-OT 1250, incl. base plate, hydraulic unit, spare parts
- S36101 Centrifuge GFT Trenntechnik V50U, SS
- S36201 Centrifuge Alfa Laval HOZY 1050, SS, 1975
- S36301 Centrifuge (2 pcs.) Krauss Maffei PZU 1000
- S36401 Centrifuge Krauss Maffei PZO 1000

Heat Exchangers

- S38301 Heat exchanger Alfa Laval SHE I-V, 1995, 30m², 6 b, 150°C, 1.4539, spiral, in 2002 reconditioned and on store



Filter presses

- S22401 Filter press with control board, 1987, SS
- S38703 Percolator (mixer/extraction plant) approx. 1970, Jakob & Gkorves TE/R, plant extraction with SS vessels, 5x172 Lt., very good working condition
- S1701 Hochdruckextraktionsanlagen (2 Stk.) für CO₂ á 1.500 ltr., Wärmetauscher, Umwälzpumpe
- S1701 High pressure extraction plant (2 pcs.) for CO₂ each 1500 Lt., heat exchanger, circulation pump

Water & Waste Water Plants

- S36901 Softening of water plant, 1997/1998, max. 110m³/h (80m³/h normally) with 2 ion exchange vessels, 2 pipe line manifold, regeneration station, control board, manufactured by Hager + Elsäser with saline solution vessel and flush vessel manufactured by Schoß Holte Stukenbrock
- S24301 Waste water treatment plant – complete micro filtration plant in cross-flow-process, Filtration plant continuous, (micro filtration) process of filtration for all kind of solid filtration (waste water treatment until microbial filtration 0,2µ, 1991

Mills, Granulators, Sieves

Mills

- S39202 Air jet Mill Macinazione SA, MC200CX, 1989
- S3902 Impact mill (laboratory equipment) Hosokawa/Alpine TPU/TPO-granulates, granulates 3-4mm, flow rate 1kg/h, quality 99,0-99,9% < 500µm, 2000, product contact parts V2A or V4A, not product parts steel
- S37002 Hammer Mill Condux CHM23/20-N3, 14571, 1997, accessoires, documentation

Sieves

- S38902 High-speed sieve Glatt Binzen TR160ST, 1989
- S39002 Vibration sieve machine (classified sieve) Kremkau, VAS special construction, 1990

Granulators

- S35103 Mixer granulator Lödige MGT250, V2A.-E 1.4541, polished 240, 1986, 250L, IP54 magnet disperse, humidifier, smooth working, dustless process, easily cleaning, rest outlet
- S40709 Fluid bed granulator HÜTTLIN-HKC-20TJ, 1993, 4 nozzles bottom-up spray, laboratory equipment 3-5 kg, 4 kg, tablets/pellets to coating, dynamic filter, monoblock, turbojet spoiler, microclima nozzles
- S30602 Granulator Frewitt MGI-628, with different mesh bottom, 1991

Mixers, Kneaders, Homogenisers, Cream Processing Plants

Mixer

- S40603 Double planetary agitator HERBST HR-S 1000DP, 2005, CIP, 1000 Lt., 2 agitators, mixer, 1 striper, 3 nozzle heads, control board, 5 mobile Bowls, documentation
- S41003 Stalactites processing plant (pace suppositories) ERWEKA, 1988, SFD filler, BST sealing machine, complete. With elect. Temperature control, SS, dosage, bulk agitator, 4000-5000 supp/h, for suspension and emulsion or for combinations, spare parts
- S40803 Screw- or blade dryer/mixer E.f.C.I., 2001, unused, 1600 Lt., SS, 200°C, -1/3 bis -1/6 bar
- S38703 Percolator (mixer/extraction plant) approx. 1970, Jakob & Gkorves TE/R, plant extraction with SS vessels, 5x172 Lt., very good working condition
- S41103 Gravity mixer/vessel mixer without mixing tools DRAIS Tau 500, 1975, SS, 500 Lt., motor, documentation
- S4303 Mixer 5000 Lt., incl. speed control (new), steel
- S4703 Planetary mixer Spangenberg VM 550, 500 Lt., 1969, mix vessel: diameter 1000 mm, height 700 mm, with press Gehalin, 1977, 250 bar, 2 x agitator, striper
- S4903 Mixer DRAIS 2000 Lt., 11 kW, works without vibrations has rubber suspension, motor new, (Ex-version)
- S5003 Mixer Hermann Waldner, SS 1.4435, 50 Lt., 1993, 80°C, jacketed, 1.4404 jacket with 14 Lt., 90°C, jacket 2,5 bar, many accessories
- S5503 Multipurpose mixer-dryer Riniker VC-1500, STRF, 1979, in 2002 revised, INOX vapourfilter, 1995
- S9709 Laboratory dissolver vacuum, small, including, pneumatic vacuum pump



- S5203 Mixer Drais T2000FMI, year 1989, 6 bar
- S22803 Mixer/kneader Haagen Rinau Brema SB100, 1971, 100 Lt., SS, heated
- S24803 Mixer/Dryer, Drais, approx. 1980, 1000 Lt., 1.4571, 200°C, -1/+1 b internal, jacket 6 bar
- S29203 Planetary mixer Drais FH165 vacuum (max. 0,2 bar), approx. 100Lt., SS, double jacket, heated with water, 1966
- S29303 Mixer/kneader H&R UNIMIX with 2 SS vessels, 150/200Lt., 1970, in good working condition
- S29603 Mixer EKATO column mixer G72, mobile, motor min. 350 max. 1750 RPM
- S30003 Cream mixer Herbst Saphir 100, jacketed with agitator, heated electric, 1984, approx. 70 Lt., 380/220V, in good working condition
- S30703 Mixer (horizontal) GARDNER KEK 200 Lt, 1990, product contact parts 316 S12, SS
- S35103 Mixer granulator Lödige MGT250, V2A.-E 1.4541, polished 240, 1986, 250L, IP54 magnet disperse, humidifier, smooth working, dustless process, easily cleaning, rest outlet

Kneader

- S5403 Kneader/extruder (double screw-type extruder) ZDS-K83 Werner & Pfleiderer, 1973, 2 control boards, 75 KW, 300 RPM, vacuum pump
- S22803 Kneader/mixer Haagen Rinau Brema SB100, 1971; 100 Lt., SS, heated
- S29303 Kneader/mixer H&R UNIMIX with 2 SS vessels, 150/200Lt., 1970, condition good

Stirrer & Pressure Vessels, Receivers, Tanks, Reactors, Pumps

Stirrer Vessels

- S6104 Pressure vessel Waldner, 1.4404, 1440 L, +6/-1, -60/+200, Ø 1600x2200mm, 2000
- S24704 Reactor system Waldner 200 Lt., 1998, 2 reactors each 100 Lt., line is recipe controlled with CIP/SIP programmes, documentation, for bulk solutions, unused
- S7404 Vessel 600 L, conical, STRF, with agitator, 2001, not heated
- S25504 Pressure vessel Büchi (laboratory autoclave) BEP 3, agitator, approx. 2001, internal pressure 60 bar/250°C, 3 Lt., 1.4571, jacketed 12 bar/250°C, 0,6 Lt., 1.4301 magnetic coupling
- S25604 Pressure vessel for liquid, agitator, safety vented, manometer, in- and outlet, 100 Lt., mobile, approx. 2000
- S25804 Charging and dosing vessel system with weighing sensor, bizerba dose control, 2 pressure vessel, approx. 2000, 150 Lt. and 300 Lt. (Pos. 25904)
- S29504 Pressure vessel Seitz, 1984, V2A, jacketed, 145 Lt., 3 bar, 133°C, mobile
- S35704 Vessel with propeller (agitator), 300 Lt., approx. 1985, SS, product contact parts V2A
- S35804 Vessel with bottom agitator Fritz Müllen, 300 Lt., approx. 1985, product contact parts V2A
- S35904 Reaction vessel E. Bauer GmbH with agitator
- S36004 Pressure vessel, 200 Lt., appr. 1985, product contact parts V2A, mobile
- S40603 Double planetary agitator HERBST HR-S 1000DP, 2005, CIP, 1000 Lt., 2 agitators, mixer, 1 striper, 3 nozzle heads, control board, 5 mobile bowls, documentation

Reactors

S9804, S9904 Reactor system: 2 pcs. Büchi glass reactor systems, unused, 2002, no contact with chemicals, completely clean, with other equipment as whole system or as add parts for both systems:

working	pressure	Temperature
reactor jacket	- 1/10 bar	-60/+200°C
System	- 1/+0,3 bar	-50/+200°C
Glass spiral	- 1/+3 bar	-50/+200°C

- S26704 Reactor system Büchi CR60, approx. 2000, vacuum -1/+0,5 bar, -60/200°C, product parts StEM/Glass, incl. 2 aggregate for temperature and load pressure, 68 Lt.
- S1601 Rotary evaporator (5x) Büchi R-187 ELEX20 special, evaporator piston 20 Lt. borosilicate glass, product contact material PTFE, 6 kW, 400 V, appropriate for EEX de IICT4, control, PHARMA development, (Other equipment avail.: FIMA centrifuge dryer 400HC22, deep freezing plant Messer Griesheim)

Receivers

- S22504 Receiver 4 m³ horizontal, -1/6 bar, approx. 3,5 to, 1998, StEM
- S25204 Receiver St/Em, approx., 4 m³, -1/6 bar. Horizontal, 1997
- S35604 Vessel (3 pcs), 1985, 500 Lt., vertical pedestal, bottom outlet, product contact parts V2A



Agitators / Stirrers

S7804 Agitator Knödler HF12/HF22 (10 pcs.), 0,75-1,5 kW, 1400rpm, 20 Nm, adjustable 0-560 until 0-800 rpm, agitator

Tanks, Silos

S7204 Vessel SS L: 2,6 x B 1,0 x H 1,8 m, weight 560 kg
S37504 Steel plate silo, approx. 83 m³, vertical, on support braces
S37604 Steel plate silo, approx. 20m³, vertical pedestal

Pumps

S6304 Slide vane rotary vacuum pump Leybold VarovaS630F, 1993, 630m³/h, end press. <3*10⁻²
S7604 Peristaltic pump (19 pcs.), 600 rpm/min., control
S7704 Centrifugal pump (3 pcs.) Hygia Block 1-20A, 1,2 6m³/h 20 m, 1,1 kW
S23104 Pump for cream MAAG Alinox, gear pump positive displacement, 1980, 1,5 kW
S23204 Pump for cream, paste (positive displacement pump) NDA 75, 1971
S27204 Barrel emptying pump Netzsch, 1990, 250 Lt., horizontal, screw, chemical
S27304 Barrel emptying pump Netzsch NT60A, 1990 (2 pcs.), 200 Lt., in good working condition, chemical
S28304 Barrel emptying pump Netzsch FE600, 1981, 200 Lt., 380/220V, 2,2 kW, formats for round and quadrate barrels, sterilizer for pipes, very good working condition
S29704 Pump Netzsch NL604 for viscous utilities (cream, fats, etc.), 1981, SS

Miscellaneous

S29416 Melting jacket for 200 Lt. Vaseline barrels, pre heating (2 pcs.)

Freeze Dryers, Autoclaves

S8105 Lyophiliser (freeze dryer) SHM 1720, 10m², SS, as good as new, 2003/4

Washers, Bottle Blowers, Sterilisers

Washers, Bottle Blowers, Sterilisers

S8607 Vials-Washer B&S FAW1020, SS, fully automatic, for 100 ml Vials , 2003/4
S8507 Blow out machine Gillowly 31-020, 1980, 15 lines
S8707 Sterilisation tunnel B & S DHT3670, SS, fully automatic, as good as new, 2003/4

Laboratory equipment

Centrifuges

S37909 Evaporator centrifuge (laboratory) UNIVAPO 150-H220, 2000, heated, rotor for 144 Eppendorf-reactors

Mixers, Granulators, Mills, Sieves

S40709 Fluid bed granulator HÜTTLIN-HKC-20TJ, 1993, 4 nozzles bottom-up spray, laboratory equipment 3-5 kg, 4 kg, tablets/pellets to coating, dynamic filter, monoblock, turbojet spoiler, microclima nozzles with Other
S9709 Vacuum laboratory dissolver, small, new, including, pneumatic vacuum pump, laboratory
S39202 Air jet mill Macinazione SA, MC200CX, 1989
S3902 Impact mill (laboratory equipment) Hosokawa/Alpine TPU/TPO-granulates, granulates 3-4mm, flow rate 1kg/h, quality 99,0-99,9% < 500µm, 2000, product contact parts V2A or V4A, not product parts steel
S38902 High-speed sieve Glatt Binzen TR160ST, 1989
S39002 Vibration sieve machine (classified sieve) Kremkau, VAS special construction, 1990

Autoclaves

S25504 Büchi pressure vessel BEP 3 with agitator, appr. 2001, internal 60 bar/250°C, 3 Lt., 1.4571, jacketed 12 bar/250°C, 0,6 Lt., 1.4301 magnetic coupling



Drying Chambers

- S26009 Drying chamber Heraeus laboratory T12, approx. 2000, 250°C, volume approx. B 50x H 60 x T 40 cm
- S26109 Drying chamber Gallenkamp laboratory oven 300 plus series, 2000, 300°C, B 50 x H 60 x T 40 cm

Miscellaneous

- S38816 High speed compact dust box Anke filter system (pcs.), 1994, K-line, unused
- S38009 Sequencer, DNA-analysis system 377-96C, ABI prism., 2000, many glass plates, PC-control, laboratory
- S26209 Chromatograph with Chromato-integrator, Meck-Hitachi Pump L7100
- S26309 Gas chromatograph Chromopack CP 9002
- S26409 Mettler-Toledo AG 204 Delta.Range D=0,1 mg-1 mg
- S38109 Solvent bos Köttermann (2 pcs.), 2000, laboratory
- S26509 Storage board for flammable and non-flammable chemicals
- S26609 Mettler-Toledo DSC 822
- S26809 Gallenkamp vacuum oven up to -1000 mb

Fillers, Closers, Cappers (liquid, cream, solid, powder)

Filling lines

- S39610 Liquid filling line, 250 ml bottles/alcohol/28°, 1994-2001, bottles engine fitter, Groninger DFV6000, filling machine SF version for plugs/capping screw, Herma double sided labeller, Pester Pewo-Form EVP packaging machine, Knecht cartoning machine, palletiser, very good working condition
- S11510 Filling line for liquid (2 pcs.) Kugler, vacuum, in 2003 reconditioned, complete with pump, conveyor belts, BBK bottom labelling machine, 2003, EBS 6000 inkjet 2003
- S11410 Filling- and capping machine Flexicon EMB200, fully-automatic for 100 ml vials, as good as new, 2003/4
- S38210 Canister filling and dosing line, piston, KUGLER K54HR, 1987, screw capper K708, ANKER wet adhesive labelling machine, front and back sides, palletiser, div. conveyors, still in production, for 10 Lt. canister for cleaning equipment
- S13612 Counter- and filling line for tablets, capsules, filler Lakso L48, 1971, 40 pcs/min, feed chute, rotary table S1, cartoning machine bottles Bosch Contina 160, 1976, Garvens SL2PM, 1991, Kiener ASK 300
- S41003 Stalactites processing plant (PVC suppositories) ERWEKA, 1988, SFD filler, BST sealing machine, complete. with elect. temperature control, SS, dosage, bulk agitator, 4000-5000 supp/h, for suspension and emulsion or for combinations, spare parts
- S40510 Filling and cartoning line G+W KAM 250, 1982, for folding cartons/bags, 2 formats, 5, 8, 19 kg, 14-70 pcs./min, for filling of bulk material (washing powder), dismantled, fully automatic, documentation
- S40210 Tube filling machine IWKA TF23, 1970, SS, approx. 100pcs/min, Argus 4, folding station, spare parts, very good working condition, tube cartoning machine IWKA Cartopac, 1970, SS, GUK KK1,3,
- S11810 Weckerle fully automatic nail enamel/varnish filling line, feeding, capping, labelling, pressure vessel 100 Lt., 8-10 cycle/min., 1994, only 2 years in use.

Complete Filling Line, Capping, Packing. Individual Machinery also available

- S10110 Filling machine Bosch FKR G 12, 1978, piston (syrup), 100/200 ml, very good working condition.
- S10210 Capping machine Bosch VSR V 06, 1978, very good working condition.
- S15515 Cartoning machine Zanassi K300, 1991, for bottles 100/200 ml, leaflet feeder/folder, 160 box/min.
- S15615 Stretch-banding machine Pester Pewo-mat 700 SE, 1979
- S15715 Shrink wrapping machine Pester Pewo-Therm, 1980
- S18615 Carton packer Oli standard, 1972, carton set up, box 400x400 mm
- S8507 Blow-out machine Gilowy 31-020, 1980, 15 lines



Vial Sterile Line

- S8607 Vials washer B&S FAW1020, SS, fully automatic for 100 ml vials, as good as new, 2003/4
- S8707 Sterile tunnel B&S DHT3670, SS, fully automatic, as good as new, year 2003/4
- S11410 Filling- and capping machine Flexicon EMB200, fully-automatic for 100 ml vials, as good as new, 2003/4
- S8105 Lyophiliser (freeze dryer) SHM 1720, 10m², SS, as good as new, 2003/4

CANISTER/Tin Filling and Dosing line inc Packing

- S38210 Canister filling and dosing line, piston, KUGLER K54HR, 1987, screw capper K708, ANKER wet adhesive labelling machine, front and back sides, palletiser and div. conveyors, still in production, for 10 Lt. canister for cleaning equipment

Fillers

- S40110 Filling and capping machine Kugler 305, 80-1000ml (until approx. 1400ml driven), SS, approx. 30 cycles/min, appas. 1975, conveyor, feeding hopper, spare parts, documentation
- S10110 Filling machine Bosch FKR G 12, 1978, piston (syrup), 100/200 ml, very good working condition.
- S23710 Filling line (piston) Strunck FKH B02, 1970, in 1989 reconditioned, pneumatic closing cylinder, 250-1000 mm, glass, SS, cylinder, ex-electric with 1996 standard
- S23610 Tube filling machine Alu Kugler K30/3, 1964, 10-100 gr, formates, coding station, 12 stations, half automatic.
- S11610 IWKA tube-filling machine ALU, formats, 1974, 1500 pcs./h, feeder, folding station, ejection, format: tube holder 22 mm, in good working condition
- S11710 Lipstick automat ARDEN, 1988, control, 2 x SS 12Lt-heated vessels, temperature control
- S27110 Barrel filling plant Schmidt SM-FA 210, 2002, unused, 6bar, 5 kN, 250 L, Siemens Simatic OP7 control, fully automatic, product will be filled horizontal
- S40210 Tube filling machine IWKA TF23, 1970, SS, approx. 100pcs/min, Argus 4, folding station, spare parts, very good working condition, tube cartoning machine IWKA Cartopac, 1970, SS, GUK KK1,3,
- S27610 Tube-filling machine Comadis C125/E7, PVC., 1995, 2-300 ml, div. formats 13,5-19-25-30-35-40-50mm, filling pump, feeding hopper, half automatic, tube feeder, approx. further 25 formats, edge cutter, div. spare parts: pump, electro parts, mech. parts
- S40914 Bottles engine fitter TÖLKE DSFN-1500, 1998, 3 parts, 40 pcs./min. div. formats
- S28510 Filling- counting and capping machine (plug) Höfliger & Karg for sugar-coated tablet/tablets, complete: tube feeding, feeding hopper, plug feeder, 1970, very good working condition.

Big-Bag fillers

- S37710 Sack filling plant Haver & Boeker, 12 station-ROTO-Packer, RS12-MEC+N, 1996, SPS control S5, 6000 working hours, 4000 sacks/h, 30/40 kg, possible 50kg sack (special program required), sack transport systems are existed
- S37810 Sack filling machine (valve) Haver& Boecker BS1NE-Rü special type, 60-150 sack/h, 1998, approx. 800 working hours, 15-25 kg, control, suction, vibration, docking station (sack transport systems are existed)

Closing/Cappers

- S38410 Capping machine Bosch VLM8010, 1993, SS, glass and plastic bottles, plug and screw capper, PC-control
- S10210 Capping machine Bosch VSRV06, 1978, very good working condition.
- S11910 Capping machine Pamasol Crimper (2 pcs.), good working condition
- S23910 Capping machine/screw Groninger, caps for 15-50 ml bottles, bottle conveyor belt, formats
- S28110 Screw capper Bosch VSR E01, very good working condition, conveyor belt, 1978
- S29910 Capping (round) machine Groninger, 6 station, 1994, KVK106, with control, very good working condition ex version

Tablet Presses, Pellet Presses

Tablet presses

- S38611 Fette P1, approx. 1955, punch mm 9,11,13 & oblong, 12 stations, max. 16 mm tablet diameter, die filling height max. 16 mm, spare parts, documentation, very good working condition
- S22911 Tablet press Kilian KIS, 1980, eccentric tablet press, div. formats 6,7,5,8 mm
- S23011 Tablet press (3 pcs) Kilian RUD, 1966-1969, rotary 17 punch 6,7,5,8 mm



- S12211 Pellet press Amandus Kahl 33-500, 1994, unused, 50-300 kg/h, SS, press hydraulic, ex-electr., documentation, 2-10 mm pellets (incl. components for 1mm pellet)
S36711 Tablet press FETTE P2000, datacontroll2, Gratex, 245000 pcs/h, 1987

Blister machines

Blister machines

- S12512 Blister machine Koch KS17-50, 1978

Blister Lines

- S13412 Blister line Bosch TLT 3060, 600 bl/min, Hapa coding device 208, cartoner Bosch CS4, 1991, Garvens SL 2 PM, 1991, Kiener ASK 450, 1994, available march 2006
S13512 Blister line IWK BPS 003, 1992, 600 bl/min, Hapa coding device 208, cartoning machine IWK CPS-R CARTOPAC, 1990, Garvens SL 2 PM, 1990, Kiener ASK 450, 1993, available march 2006
S13612 Counter- and filling line for tablets, capsules, filler Lakso L48, 1971, 40 pcs/min cartoner for bottle Bosch Contina 160, 1976, Garvens SL2PM, 1991, Kiener ASK 300
S12912 Blister line PVC-Alu Bosch PH2 CS1, 1986, with bundling machine for blister, check control weigher Bosch KWE 200 M, 1990, bundling machine, available June 2006
S13012 Blister line PVC-Alu, in U-form, Marchesini MB440, 1988, cartoner Marchesini BA400, 1988, GUK, Argus 6012, Garvens SL2PM, 1988, PAGO PAGOmat 6AM2, 2002, Sollas 17, year 1986
S13112 Blister line PVC-Alu, U-form, Klöckner Hänsel CP 400, 1993, cartoning machine Klöckner Hänsel P-5, 1993, GUK, Argus 6012, MARKEM, PAGO PAGOmat 6 AM2, 2002, Sollas 17, 1993
S13212 Blister line PVC-Alu (dismounted), without cartoning machine, Bosch TLT 2600, 1996, Lynx 5, incl. bundling machine Bosch, Hapa 231, 1996, div. format parts, bundling machine
S23812 Blister line Bosch-Höfliger+Karg SERVAC 160, 1982, cartoning machine CAR 7, 1968, continuous, 2 formats, until 150 packs/min, HAPA, 1993, folding machine, embossment

Scales, Weighers, Counting Machines, Sorting Machines, Metal Detectors, Inspection machines, Vibrating tables

Weighers/Scales

- S13913 Check weigher Garvens 2 x SL 3 PM, 1993
S14113 Check weigher Garvens SL 2 PM, 1990
S23413 Check weigher Bosch KWE 300 E, 1980, 20-300 g
S30213 Check weigher OCS HC Mini (high performance check weigher), 2001, weighing range, with side grip conveyor, 120 cycle/min (until 140 cycle driven), into singles function
S30313 Check weigher automatic, max. 1500 g, 1994, side grip conveyor, into singles function

Sorting, Vibrating tables

- S14513 Special machine Kugler f. sorting machine EGS, 1985, SS
S28713 Sorting machine for bottles/nozzles head, feeders & motors, good working condition, 1994

Feeding, Lifting, Conveyors, Rotary tables

Feeding, Lifting, Conveyors

- S40914 Bottles engine fitter TÖLKE DSFN-1500, 1998, 3 parts, 40 pcs./min. div. formats
S15014 Transporting roller conveyor (motor)
S41214 Sack transport machine belt lifting device, flat conveyor, roller conveyor, grip belt, curve belt, lift, band elevator and rack storage
S27414 Transport system 3 parts for 1-2 L tin (roller conveyor)
S28814 Steep belt conveyor for nozzle heads, very good working condition, approx. 1994
S30114 Sorting drums for capping, 1994

Rotary tables

- S25314 Rotary table, Plexiglas cover, 30 cm, 95 cm working height (adjustable), Ø 1,19 cm
S28914 Rotary table, Groninger DT1200, Ø 1,2 m, 1994, adjustable, plate, good working condition
S29014 Rotary table, 1 m Ø, very good working condition
S30414 Accumulation table, Ø 1 m



Packing and Final Packing

Cartoners, Labelers, Folders, Bundlers, Coding, Palletisers, Sachet Machines

Lines

S17415 Cartoning line for blister, Bosch CAR-T5, 1990, Argus 6012, check weigher Bosch KWE200M, 1990, labelling machine PAGO PAGOmat 6AM2, 2002, cartooning packer OLI Olipac210, halfautom. 1991, available Dec. 2006

Case Packer and Palletiser line (sale machine by machine possible):

S18215 Packaging plant Schubert F44, as good as new, 2001, (set up, filling, closing) for packaging flow packs with wet tissues, 3 robots F44, with 6 arms and optical control system, 200 packs/min in max 34 cartons/min, cartons 100-400 mm, fully automatic

S18315 Palletiser plant A+F 390, 1996, fully automatic, pallets 800x1200 mm and 1000x1200 mm, height max. 1700 mm, autom. Intermediate leaf layer, pallets wrapping machine, cover leaf layer

Packing line (Cartoner, Bundler, Tunnel, Palletiser)

S15515 Cartoner Zanassi K300, 1991, for bottles 100/200 ml, leaflet feeder/folder, 160 packs/min.

S15615 Stretch-banding machine Pester Pewo-mat 700 SE, 1979

S15715 Shrink wrapping machine Pester Pewo-Therm, 1980

S18615 Case packer Oli standard, 1972, set up station, carton 400x400 mm

Cartoners

S39415 Cartoner (bottles, horizontal) Cariba, 2002 GUK, bracket glue, hot embosser, 100-1000ml

S15515 Cartoner Zanassi K300, 1991, for bottles 100/200 ml, leaflet feeder/folder, 160 packs/min.

S24015 Cartoner IWKA CP220, 1984, bottle feeder, GUK, GMP, SS version

S40315 Tube cartoner IWKA Cartopac KK 1,3, 1970, SS, GUK, standby

S18715 OMV-special version tube cartoner, AST, 2001, 70 cycles/min.

S35315 Cartoner (bottles) Contina 160, 1972, motors and vacuum pump, continuous man power, automatic feeder, formats L50-180 mm, B 15-80 mm, H 15-60 mm

S35415 Cartoner (bottles) Contina 160, 1975, pharmacode (same line 35315)

Labelers

S40015 Cartoner for bottles Pietruska P-FA/vertical, 1987, formats (150ml) approx. 40 cycles/min. embossing station, leaflet holder, control console, feeder, and mobile

S39915 Bottom labelling machine Herma 300 DSRK-8, 1991, SS, mobile

S15415 Labelling machine BBK, double sided, for 0,5L bottles, self-adhesive

S23315 Labelling machine Strunck EHH for ampoules vials, 1961, coding, horizontal

S24115 Wet glue labeller Anker Wiking, 1978, for angular bottles 100 ml, meplats colour coder

S34915 Labeller (round) (wet glue), Languth, approx. 1987, 50/60 cycles/min, format parts for aerosol can, screw feeder, transporting rollers

S27715 Labeller Pago 185, 1990, for bottles, double sided, approx, 15-250 ml, max. 50 cycles/min, self-adhesive

Folders

S15215 Fold-, cut-, impregnating plant RCM, 1996, for Air Lid/Spun Laced and non wooden material, max./min. L300 mm / L100 mm, max. height of stack 100 pcs., 90 m/min, main drive AC 5 kW, 8,0 kW, 3 phases, 400V, 50/60 Hz, pneumatic, 0,6 Mpa (6 bar, 84 psi), 6500 kg, fold, double-fold, C-fold-variant & double C-fold

Bundlers, Wrappers, Tunnels

S15615 Stretch-banding machine Pester Pewo-mat 700 SE, 1979

S27515 Stretch-banding machine Pester Peweopack 200 SN, 1989, feeding belt, foil max. 200 mm, 220V+PE 50 Hz, 5,2 bar

S17015 Bundling machine IMA 3781EPM, 1999/2001, max, 25 pcs/min, SPS control, formats, documentation, still in production, 3 years in use

S17315 Bundling packaging machine BFB M50 for vials, bottles, 1991

S28215 Bundling machine Sollas 17PE, 1982, foil max 280 mm, 220/380V/50Hz, feed belt 1,6-1,8 m with motor, very good working condition

S30515 Bundling machine (cellophane), multi formats with feeding, Sollas 17, 1997



S15715 Shrink wrapping machine Pester Pewo-Therm, 1980

Coding

S35215 Inkjet EBS 6000, head holder, photocell

Flow Packing

S17915 Flow packs machine ILAPAK Delta G-E horizontal, speed 60/70 cycle/min, electric 220V, 50/60Hz, 5 kVA, 6 bar 200 l/min.

S18015 Flow packs packing machine ILAPAK Delta G B4, 2 labelling machines, punching station, 60-70 cycles/min, 220 V, 50/60Hz, 5kVA, 6 bar, 200 l/min.

S18115 Flow packs packing machine CAVANA, labelling machine and punching station

S27815 Flow packs packing machine horizontal Hugo Beck PS400 standard, approx. 1997, 40 cycles/min, max. Foil height 1000 mm, max. Foil diameter 350 mm, max. box measures H 160mm x L 500mm, documentation, feeding for tubes (90°) incl. turn station, in very good working condition, available March/April 2006

Palletises

S18315 Palletiser plant A+F Type 390, 1996, fully automatic, pallets 800x1200 mm and 1000x1200 mm, height max. 1700 mm, automatic. Intermediate leaf layer with fully automatic pallets wrapping machine ,incl. automatic. cover leaf layer

S18415 Pallet autom. stretch wrapping machine Helix HS 300, 2002

S35015 Palletiser Transnova, 1986, space 3,40m x 2,40m x 3,10 height, dismantled

Case Packers

S18215 Case packaging plant Schubert F44, 2001, set up, filling, closing, for flow packs with wet tissues and similar packs, 3 robots F44, respectively 6 arms and opt. system, 200 packs/min in max 34 cartons/min, cartons 100-400 mm, fully automatic, control

S18615 Case packer Oli Standard, 1972, set up station, carton 400x400 m

Air Supply Plant, Cooling Plants & Systems, Compressors

MISCELLANEOUS

Cooling Plants

S19216 Deep freezing plant Messer Griesheim, control board, flow temperature $-120/+70^{\circ}\text{C}$, cooling capacity $<30\text{kW}$, heating capacity $<10\text{kW}$, medium methycyclopentan, Ex-Zone IIBT4 proofed. PHARMA development, (other equipment separately. available: FIMA centrifuge dryer 400HC22, 5x Büchi rotary evaporators)

Air Supply

S38816 High speed compact dust box Anke filter system 1994, K-line, unused

S19116 Air supply plant, Teufel, mobile, $8000\text{m}^3/\text{h}$, $-12/+20^{\circ}\text{C}$ more possible, 8 month in use

Miscellaneous

S20816 Storage container, 20 ft, Graeff Type 15830 (2,60*6*2,50 m), 1998, steel

S29416 Heating- or melting jacket for 200 Lt. Vaseline barbells, pre heating,

Complete Plants or Locations: Chemical – Pharmaceutical - Cosmetic

Complete development Plant/PHARMA consisting off:

S1501 Centrifuge dryer, FIMA 400HC22, PHARMA development, product parts & drum 2.4602, 36L, 1800 RPM, $20-120^{\circ}\text{C}$, gas heating, waste-gas filter, pulsation transporter, metal filter, under construction (Other equipment: 5 Büch evaporators, deep freezing plant MesserGriesheim)

S1601 Rotary evaporator (5x) Büchi R-187 ELEX20 special, evaporator piston 20 Lt. borosilicate glass, product contact material PTFE, 6 kW, 400 V, appropriate for EEX de IICT4, control, PHARMA development, (Other equipment avail.: FIMA centrifuge dryer 400HC22, deep freezing plant Messer Griesheim)

S19216 Deep freezing plant Messer Griesheim, control board, flow temperature $-120/+70^{\circ}\text{C}$, cooling capacity $<30\text{kW}$, heating capacity $<10\text{kW}$, medium methycyclopentan, Ex-Zone IIBT4 proofed. PHARMA development, (Other equipment sep. available: FIMA centrifuge dryer 400HC22, 5x Büchi rotary evaporators)



- S20417 Silicon pilot plant (patents & know-how) consisting of:**
Div. vessels, pumps, 1 fluidised bed spray granulator, 1 calziner, 1 glass reactor, 3 filters presses, 1 pan filter (-glass), 1 dryer (Harz)
- S20217 Complete plant for manufacturing of wet tissues (impregnating, folding, packing, palletising) consisting of:**
ILAPAK DeltaG flow pack B4, ILAPAK Delta G-E horiz. flow pack, CAVANA flow pack - Fold-, cut-, impregnating unit, 1996, RCM (Research Converting Machinery AB), Schubert F 44 packaging plant, 2001, Feed- and delivery conveyor , A + F Palletiser plant Type 390, 1996, Pallet fully automatic Helix HS 300, 2002 (automatic. stretch wrapping machine), LEAD Case packer for cartons
- S39317 Rotating tube furnace plant
process to dissociate components which are in steel mill, filter dust step by step to feed this to a recycling process
- S36901 Softening of water plant, 1997/1998, max. 110m³/h (80m³/h normally) with 2 ion exchange vessels, 2 pipe line manifold, regeneration station, control board, manufactured by Hager + Elsäser with saline solution vessel and flush vessel manufactured by Schoß Holte Stukenbrock
- S24301 **Waste Water Treatment Plant** – complete micro filtration plant in cross-flow-process
Filtration plant continuous, (micro filtration) process of filtration for all kind of solid filtration (waste water treatment until microbial filtration 0,2µ, 1991)