

2022.07

Valid from 01.01.22 till 31.12.22



WATROMAT®

Sludge drying solutions

***WATROPUR is your partner for
dewatering and drying of sludge from
industrial or municipal wastewater
treatment plants***

***3000 sludge dryer references plants
in more than 50 countries***

W10	Switzerland	WATROPUR GmbH	Unterseen
W12	Germany	WATROPUR GmbH	Düren
W13	Netherland	WATROPUR BV	Leusden
W14	Croatia	WATROPUR doo	Krizevci
W15	Colombia	WATROPUR SAS	Bogota
W16	Turkey	WATROPUR Ltd	Istanbul
W18	China	WATROPUR Ltd	Lianyungang
W19	Italy	WATROPUR Srl	Parma
W20	Rumania	WATROPUR Ltd	Avrig
W21	Hungary	BONOTEC Kft	Sopron
W23	Spain	WATROPUR SLU	Barcelona
W24	Austria	WATROPUR GmbH	Kumberg
W25	France	WATROPUR SA	Flayosc
W26	Korea	WATROPUR Ltd	Daegu
W28	Finland	WATROPUR Oy	Lahti
W32	England	WATROPUR Ltd	Carmarthen
W33	Canada	WATROPUR Corp	Mississauga
W34	UAE	WATROPUR FZ LLC	Dubai

WATROMAT®

www.watropur.com

info@watropur.com

Switzerland (2500 m2)



Hungary (1200 m2)



Croatia (11'000 m2)

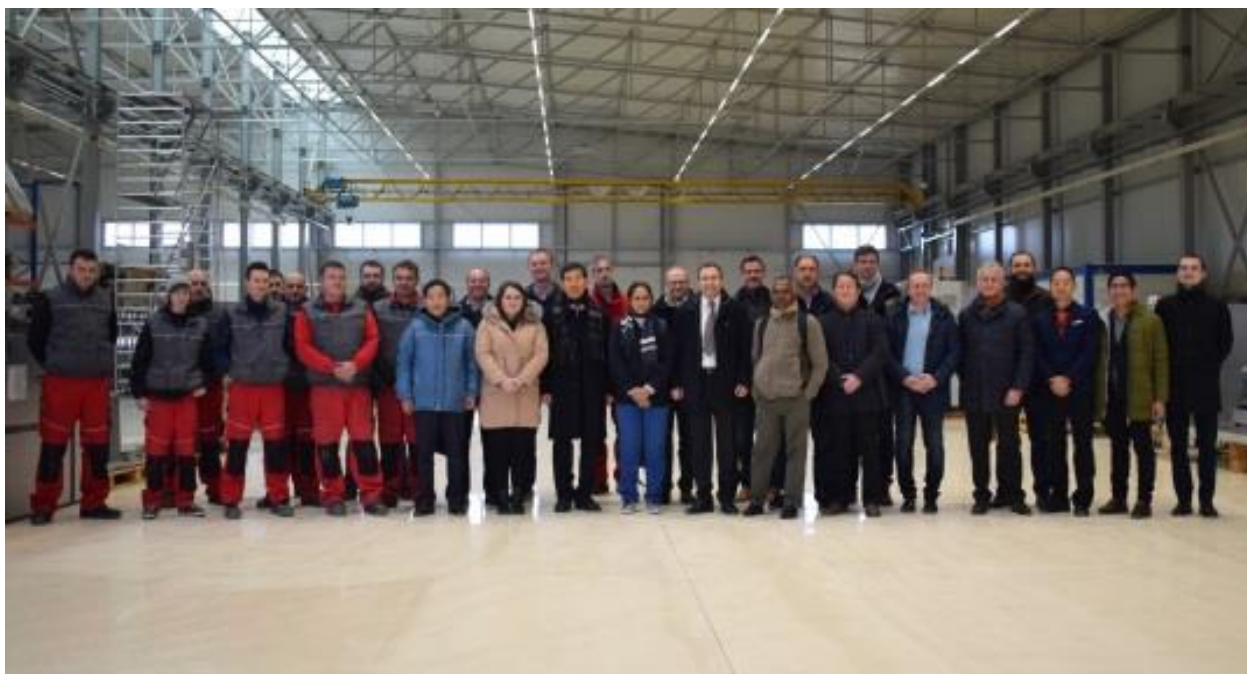


China-Lianyungang (16'000 m2)





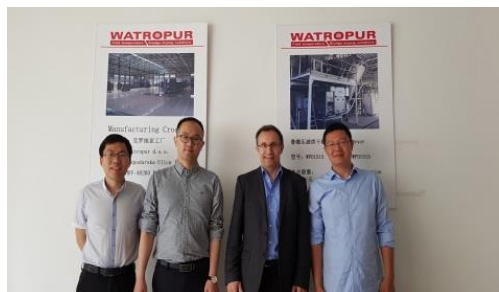
WATROPUR d.o.o. Croatia



BONOTEC Kft. Hungary



WATROPUR Ltd. China



Europe-West



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Rumania, Czech
Rep., Moldavia
Bulgaria, Slovakia
Polen, Hungary**

**teodor.gregurek@watropur.com
385 99 339 8334**



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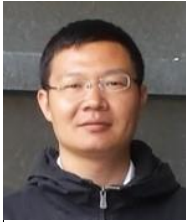
Middle East



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Malaysia, Myanmar
Japan**

**inhan@watropur.com
+82 0109 2702611**



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Azerbaijan, Iran
Kazakhstan
Uzbekistan
Turkmenistan
Kazakhstan
Turkmenistan
Tajikistan**

**vladimir.makhovski@watropur.com
+7 995 1805549**

Australia



**Australia
Papua New Guinea
New Zealand**

**inhan@watropur.com
+82 0109 2702611**

Meiringen, Switzerland, 2010

Municipal WWTP



1.5 t/day water removal



Daegu, South Korea, 2012

Municipal WWTP



144 t/day water removal



Millstätter See, Austria, 2013

Municipal WWTP



7.5 t/day water removal



Guyang, China, 2014

Municipal WWTP



12 t/day water removal



Nice, France, 2015

Municipal WWTP



7,5 t/day water removal



Aiguillon sur Mère, France, 2016

Municipal WWTP



6 t/day water removal



Ivanovo, Russia, 2017

Municipal WWTP



30 t/day water removal



Frigerio, Lecco, Italy, 2018

Tanc cleaning



9 t/day water removal



Petronas, Malaysia, 2019

Oil refinery



48 t/day water removal



Prolactal, Austria, 2020

Dairy



12 t/day water removal



Huvepharma, Italy, 2021

Pharma



4,5 t/day water removal



Inlet % dried solids	Product choice	Outlet % dried solids	Part
2-8	Press-dryer Screw press, Polymer unit, Platform	90	1
20-40	Bunker-dryer Bunker, Belt dryer, Conveyor, Loading	90	2
25-45	Container-dryer Drying container	90	3
30-50	Skip-dryer Drying skip, Bagging hopper	90	4
Transport Erection, Commissioning, Supervising			5

Product photo	page	Part
	23-36	1
	37-61	2
	62-68	3
	69-75	4
	76-86	5

Product sectors	page	Part
Press-dryer Municipal sewage treatment plants, Dairies, Aquaculture, Hospitals, Paint sludge, Manure, Distilleries, Biomass	23-36	1
Bunker dryer Food and beverage industries, Tanneries, Paper and Pulp industries, Foundries, Chemical- Pharmaceutical- and Cosmetic industries	37-61	2
Container-dryer Oil refineries, Recycling industries, Wire manufacturer, Railway and aircraft industries, Automotive industries	62-68	3
Skip dryer Galvanizing, Printed circuit boards, Textile industries, Packaging, Pressing, Electro plating, Precious metals	69-75	4
	76-86	5

Press-dryer

Page Part

	26	10
	30	11
	33	12
	34	13

	Page	Part
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Press-dryer		
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	26	
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		10
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Screw press		
Platform		

	30	
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		11
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Polymer unit		
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	34	
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		12
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Pump		
Thickener, ISO Container		

	34	
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		13
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Press-dryer 10

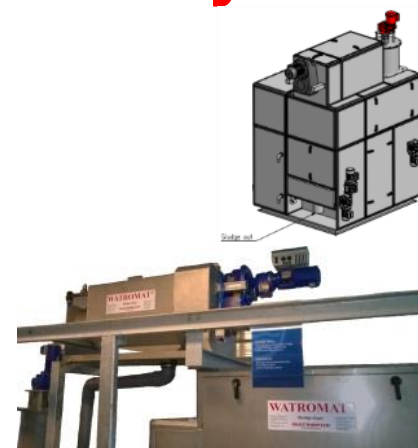
WATROMAT® Press-dryer

Press-dryer for sludge from industrial or municipal waste water treatment plants, inlet 2 % dried solids, outlet 90 % dried solids, drying temperature 30° C/86°F, specific electric power consumption dryer: 333 W/kg H₂O, compressed air 50 l/min (>6 Bar), noise level <75dBA, sludge pH value 6.0-9.0. Sludge outlet for collecting spiral or collecting conveyor (230XXXXXX).

Delivery 1 pc screw press, 1 pc mixing tank, 1 pc pressure transmitter,
1 pc Polymer unit liquid, 1 pc sludge pump, 2 pcs flow meters,
1 pc belt dryer SS304 with control cabinet

Not included Collecting spiral or conveyor, platform to hold screw press, piping

		type	WPD0508
100100104	SS316	€	214623
Throughput dried solids (screw press 110100XXX)	t/day		0.3 - 2
Dryer water removal at 5-40 °C environment	t/day		0.8
Electric power consumption	kWh		14.1
Cooling water >3 Bar (calculated at 24°C)	m ³ /h		0.3
Length X	m		2
Width Y	m		2
Height Z	m		2.7
Weight empty	kg		2200
Weight full	kg		2500



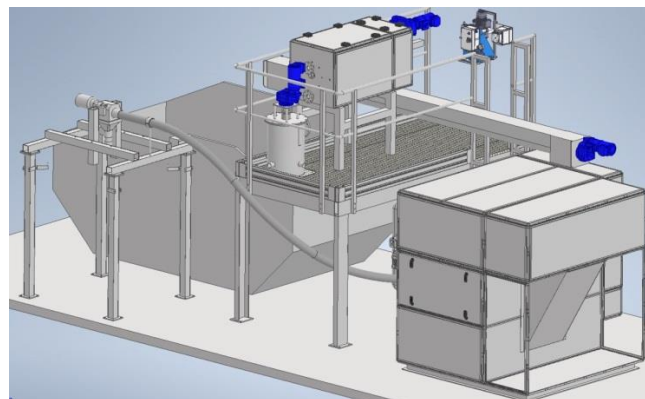
WATROMAT® Press-dryer

Press-dryer for sludge from industrial or municipal waste water treatment plants, inlet 2 % dried solids, outlet 90 % dried solids, drying temperature 30° C/86°F, specific electric power consumption dryer: 333 W/kg H₂O, compressed air 50 l/min (>6 Bar), noise level <75dBA, sludge pH value 6.0-9.0. Sludge outlet for collecting spiral or collecting conveyor (230XXXXXX).

Delivery 1 pc screw press, 1 pc mixing tank, 1 pc pressure transmitter,
1 pc Polymer unit liquid, 1 pc sludge pump, 2 pcs flow meters,
1 pc belt dryer SS304 with collecting spiral, 1 pc control cabinet

Not included Collecting spiral or conveyor, platform to hold screw press, piping
bagging point

		type	WPD0515
100100104	SS316	€	253579
Throughput dried solids (screw press 110100XXX)	t/day		0.5
Dryer water removal at 5-40 °C environment	t/day		1.5
Electric power consumption	kWh		23
Cooling water >3 Bar (calculated at 24°C)	m ³ /h		0.5
Length X	m		2.2
Width Y	m		2
Height Z	m		2.7
Weight empty	kg		3100
Weight full	kg		3600



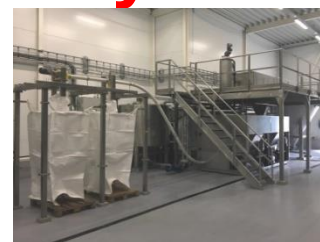
Press-dryer 10

WATROMAT® Press-dryer

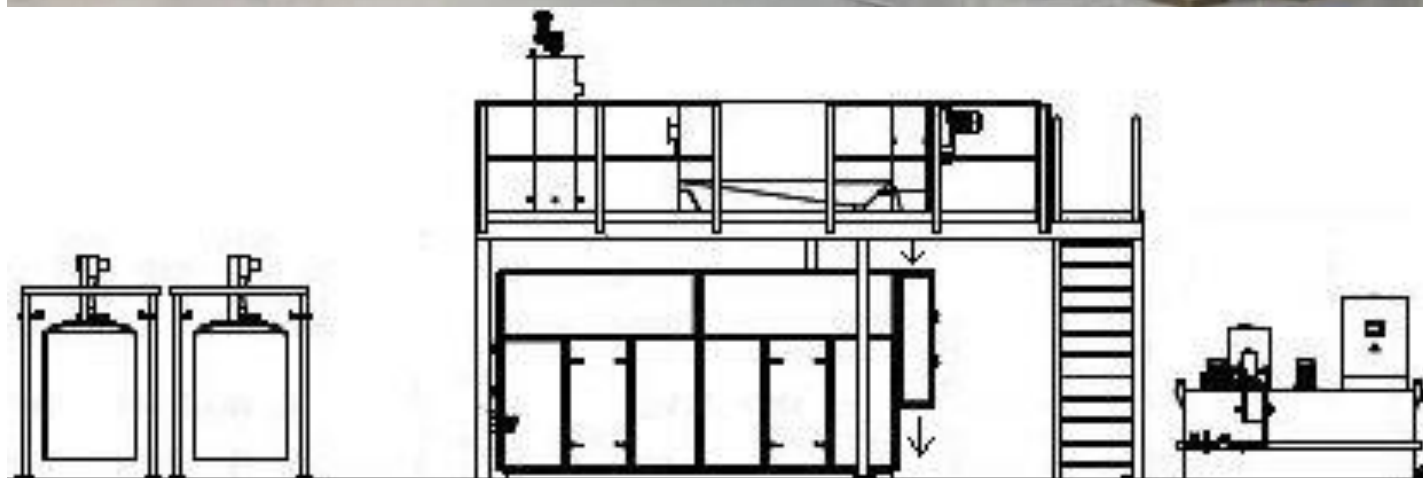
Press-dryer for sludge from industrial or municipal waste water treatment plants, inlet 2 % dried solids, outlet 90 % dried solids, drying temperature 30° C/86°F, specific electric power consumption dryer: 333 W/kg H₂O, compressed air 50 l/min (>6 Bar), noise level <85dBA, sludge pH value 6.0-9.0. Sludge outlet for collecting spiral or collecting conveyor (230XXXXXX).

Delivery 1 pc screw press, 1 pc mixing tank, 1 pc pressure transmitter,
1 pc Polymer unit liquid, 1 pc sludge pump, 2 pcs flow meters,
1 pc belt dryer SS304, 1 pc control cabinet

Not included Collecting spiral or conveyor, platform to hold screw press, piping,
bagging points



	type	WPD1515	WPD1530	WPD1545	WPD1560	WPD1575	WPD1590
100100204	SS316	284900	360201	435684	507460	580514	653499
Throughput dried solids (screw press 110100XXX)	t/day			1.5			
Dryer water removal at 5-40 °C environment	t/day	1.5	3	4.5	6	7.5	9
Electric power consumption	kWh	23	43	63	83	102	124
Cooling water >3 Bar (calculated at 24°C)	m ³ /h	0.5	1	1.5	2	2.5	3
Length X	m	2.2	4.1	6	7.9	9.8	11.6
Width Y	m			2			
Height Z	m			3			
Weight empty	kg	3400	4200	5000	6000	6700	7500
Weight full	kg	3900	5100	6400	8100	9300	9200



Press-dryer 10

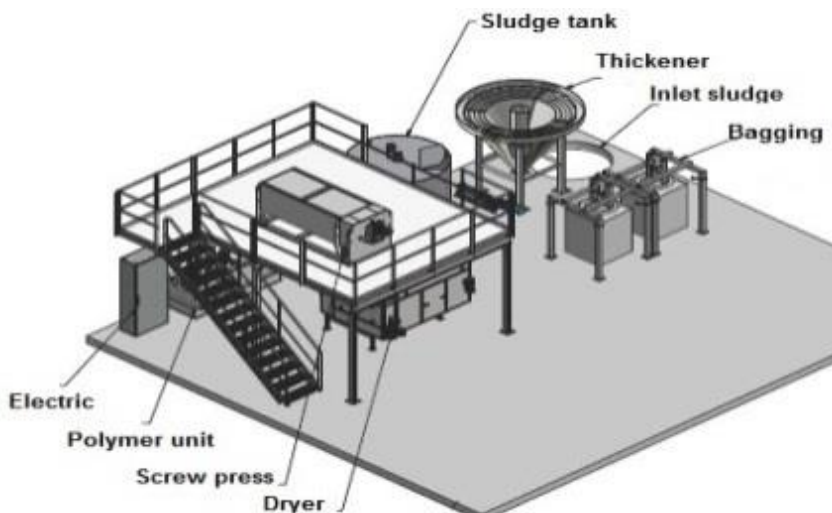
WATROMAT® Press-dryer

Press-dryer for sludge from industrial or municipal waste water treatment plants, inlet 2 % dried solids, outlet 90 % dried solids, drying temperature 30° C/86°F, specific electric power consumption dryer: 333 W/kg H₂O, compressed air 50 l/min (>6 Bar), noise level <85dBA, sludge pH value 6.0-9.0. Sludge outlet for collecting spiral or collecting conveyor (230XXXXXX).

Delivery 1 pc screw press, 1 pc mixing tank, 1 pc pressure transmitter,
1 pc Polymer unit liquid, 1 pc sludge pump, 2 pcs flow meters,
1 pc belt dryer SS304, 1 pc control cabinet

Not included Collecting spiral or conveyor, platform to hold screw press, piping,
bagging points

	type	WPD2560	WPD2575	WPD2590	WPD25105	WPD25120
100100304	SS316	544713	617767	690752	763735	831890
Throughput dried solids (screw press 110100XXX)	t/day	6.0	7.5	2.5	10.5	12.0
Dryer water removal at 5-40 °C environment	t/day	83	103	125	148	172
Electric power consumption	kWh	2	2.5	3	3.5	4
Cooling water >3 Bar, (calculated at 24°C)	m ³ /h	7.9	9.8	11.6	13.5	15.4
Length X	m	2				
Width Y	m	3.3				
Height Z	m					
Weight empty	kg	6200	7000	7800	8600	9300
Weight full	kg	8300	9500	13100	14800	15500



Press-dryer 10

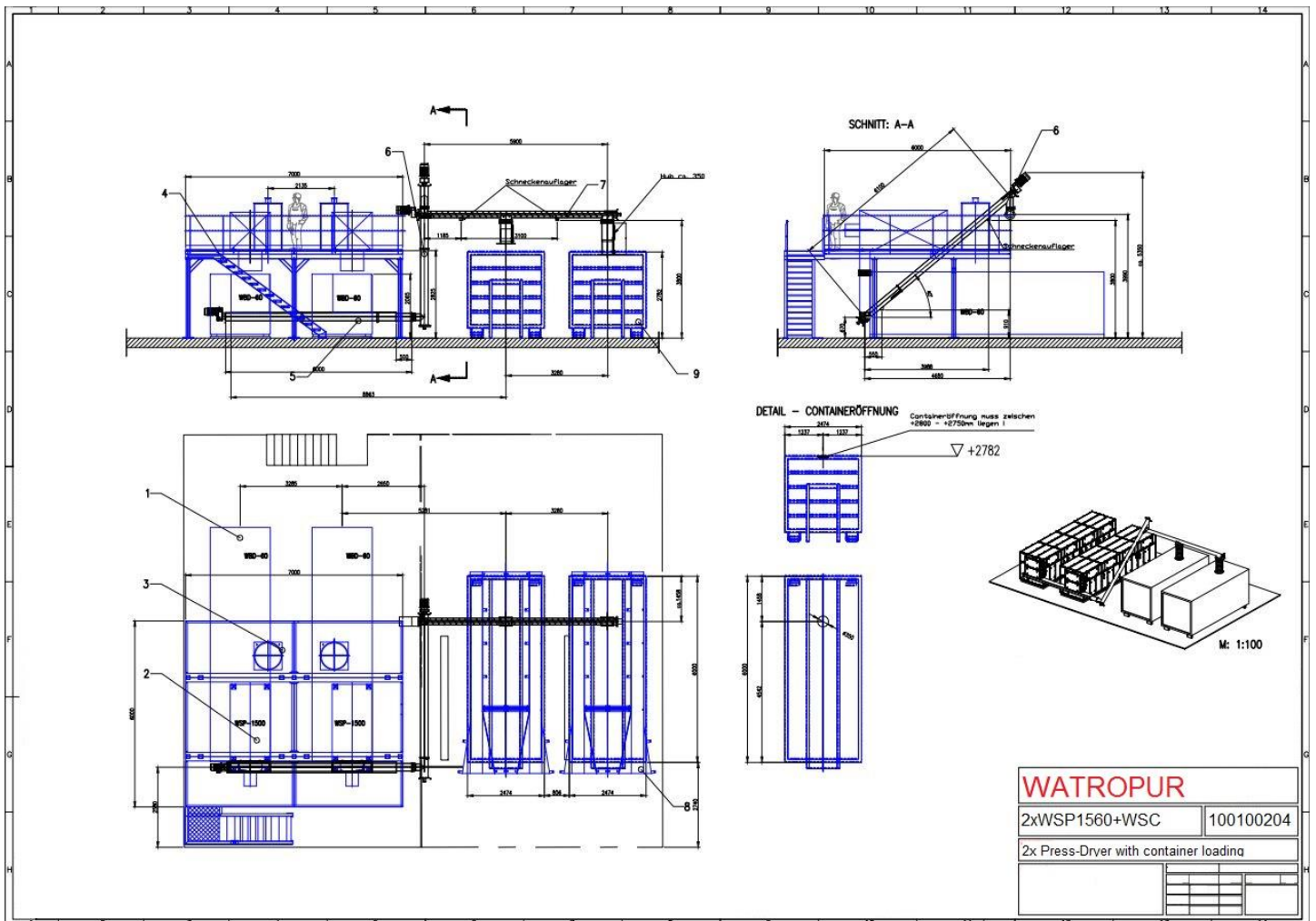
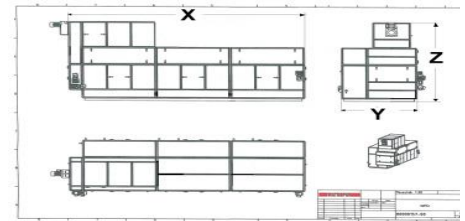
WATROMAT® Press-dryer

Press-dryer for sludge from industrial or municipal waste water treatment plants, inlet 2 % dried solids, outlet 90 % dried solids, drying temperature 30 °C/86 °F, specific electric power consumption dryer: 333 W/kg H₂O, compressed air 50 l/min (>6 Bar), noise level <85dBA, sludge pH value 6.0-9.0. Sludge outlet for collecting spiral or collecting conveyor (230XXXXXX).

Delivery 1 pc screw press, 1 pc mixing tank, 1 pc pressure transmitter,
1 pc Polymer unit liquid, 1 pc sludge pump, 2 pcs flow meters,
1 pc belt dryer SS304, 1 pc control cabinet
Not included Collecting spiral or conveyor, platform to hold screw press, piping,
bagging points, dried solids sensor



	type	WPD5090	WPD50105	WPD50120
100100404	SS316	763534	836517	904463
Throughput dried solids (screw press 110100XXX)	t/day	9.0	10.5	12.0
Dryer water removal at 5-40 °C environment	t/day	127	151	177
Electric power consumption	kWh	2	2.5	3
Cooling water >3 Bar, (calculated at 24°C)	m3/h	11.6	13.5	15.4
Length X	m	1.9	3.7	
Width Y	m	10900	11800	12750
Height Z	m	14900	15000	15900
Weight empty	kg			
Weight full	kg			



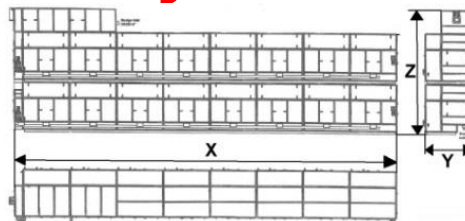
Press-dryer double 10

WATROMAT® Press-dryer double

Press-dryer double for sludge from industrial or municipal waste water treatment plants, inlet 2 % dried solids, outlet 90 % dried solids, drying temperature 30 °C/86 °F, specific electric power consumption dryer: 333 W/kg H₂O, compressed air 50 l/min (>6 Bar), noise level <85dBA, sludge pH value 6.0-9.0. Sludge outlet for collecting spiral or collecting conveyor (230XXXXXX).

Delivery 1 pc screw press, 1 pc mixing tank, 1 pc pressure transmitter,
1 pc Polymer unit liquid, 1 pc sludge pump, 2 pcs flow meters,
2 pc belt dryer SS304, 1 pc control cabinet

Not included Collecting spiral or conveyor, platform to hold screw press, piping,
bagging points, dried solids sensor, platform to hold upper dryer



	type	WPD25120D	WPD25150D	WPD25180D	WPD25210D	WPD25240D
100100504	SS316	901715	1039010	1197971	1401351	1495975
Throughput dried solids (screw press 110100XXX)	t/day			2.5		
Dryer water removal at 5-40 °C environment	t/day	2x6.0	2x7.5	2x9.0	2x10.5	2x12.0
Electric power consumption	kWh	2x83	2x104	2x125	2x146	2x177
Cooling water >3 Bar (calculated at 24°C)	m ³ /h	2x4	2x2.25	2x3	2x3.5	2x4
Length X	m	7.9	9.5	11.7	13.6	15.4
Width Y	m			2		
Height Z	m			5.5		
Weight empty	kg	8800	9600	12100	14500	15800
Weight full	kg	15000	16800	17400	11940	21400

	type	WPD50120D	WPD50150D	WPD50180D	WPD50210D	WPD50240D
100100504	SS316	974497	1111792	1270753	1474133	1568757
Throughput dried solids	t/day			5.0		
Dryer water removal at 5-40 °C environment	t/day	2x6.0	2x7.5	2x9.0	2x10.5	2x12.0
Electric power consumption	kWh	2x83	2x104	2x125	2x146	2x164
Cooling water >3 Bar (calculated at 24°C)	m ³ /h	2x4	2x2.25	2x3	2x3.5	2x4
Length X	m	7.9	9.5	11.7	13.6	15.4
Width Y	m			2		
Height Z	m			6		
Weight empty	kg	9600	12100	14500	15800	17500
Weight full	kg	16800	17400	11940	21400	23200

Control cabinet press-dryer 10

WATROMAT® Control cabinet press-dryer

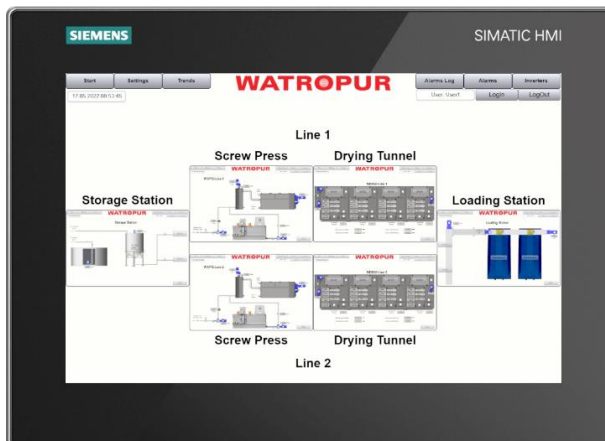
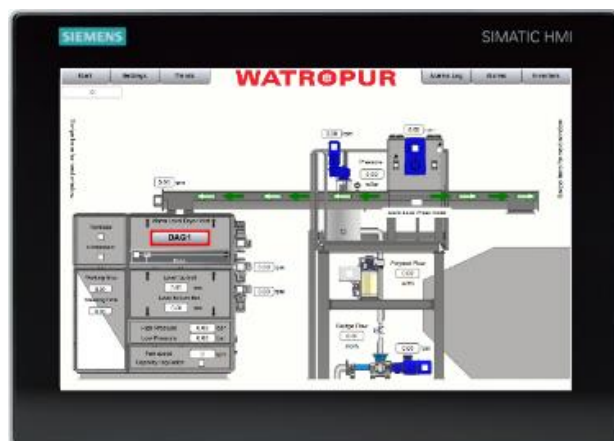
Control cabinet, execution as WATROMAT® master or as slave, master with Siemens touch panel MTP1200 Unified Comfort, slave without touch panel, Profinet bus, PLC Siemens S7-1512, IO system ET200SP, power distribution, Siemens Sirius, switching and protective devices, N-disconnecting, emergency stop relay, command and signaling devices, 4 relays for hardwire voltage free signal exchange (24VAC/DC), Start/Stop, no sludge, in operation, permission from client, all wired and tested.

- Power code 1: 3 x 400 V / 1 x 230 V / 50 Hz (3 phases, neutral, earth)
- Power code 2: 3 x 480 V (3 phases, earth) / 1 x 110 V / 60 Hz (phase, neutral, earth)

Delivery: 1 pc control cabinet press dryer

Not included: Control cabinet belt dryer

	type	WELWPD05	WELWPD15	WELWPD25	WELWPD50
100100900	Steel coated	26247	31305	32636	37082
Length X	mm			800	
Width Y	mm			400	
Height Z	mm			2100	
Weight	kg	56	64	69	75



Screw press 11

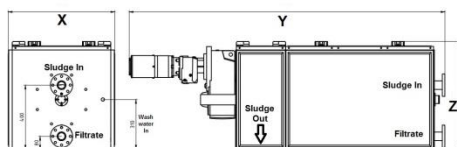
WATROMAT® Screw press

Screw press for sludge from industrial or municipal wastewater treatment plants, inlet 2-8 % dried solids, outlet organic sludge 20-35 % dried solids, inorganic sludge 20-40 % dried solids, sludge pH value 6.0-9.0.

Delivery 1 pc screw press
Not included Control cabinet screw press 1101009000
Mixing tank 110200100, Pressure transmitter 110200200, Polymer unit 120100XXX
Polymer pump and flow meter 120XXXXXX
Sludge pump and flow meter 130XXXXXX
Dried solids sensor 130100300
Piping



	type	WSP05	WSP15	WSP25	WSP50	WSP75
110100104	SS316	52322	68893	93557	148890	195090
Throughput dried solids (standard)	t/day	0.5	1.5	2.5	5.0	7.5
Throughput dried solids organic (biological)	t/day	0.3 - 1.4	0.6 - 2.8	1.2 - 5.6	2.4 - 8.4	3.6 - 13
Throughput dried solids inorganic (chemical)	t/day	0.4 - 2	1.3 - 4	2.2 - 8	4.6 - 12	7.0 - 16
Electric power	kWh	0.25	0.55	1.5	4	9
Wash water	m3/day	0.3	0.6	1.2	1.8	3.6
Compressed air >6 Bar	l/min	25		50		
Diameter inlet sludge	mm	50	100		150	
Diameter outlet filtrate	mm	50	100		150	
Length X	mm	1895	3065	3447	4610	6015
Width Y	mm	670	980	1290		
Height Z	mm	645	980		1265	
Weight empty	kg	500	1400	2200	4200	8600
Weight full	kg	600	1600	2600	4800	9300



	type	WHR250	WHR400	WHR500	WHR600	WHR700
110100205	Sealing screw press	2182	2904	3539	4384	5119
Screw press	type	WSP05	WSP15	WSP25	WSP50	WSP75
Sealing half ring	Pcs/set	16				
Diameter	mm	250	400	500	600	700
Weight	kg/Set	3	5	7	10	15



	type	Wnozzle				
110100305	Nozzle washing water	19				
Screw press	type	WSP05	WSP15	WSP25	WSP50	WSP75
Thread (outside)	inch	1/4				
Quantity	Pcs	10	22	35	45	65



	type	Wvalve
110100405	Wash water valve	259
Coil voltage	VDC	24

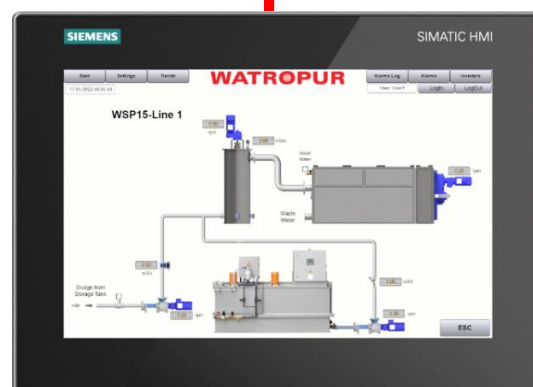
Control cabinet screw press 11

WATROMAT® Control cabinet screw press

Control cabinet, execution as WATROMAT® master or as slave, master with Siemens touch panel MTP1200 Unified Comfort, slave without touch panel, Profinet bus, PLC Siemens S7-1512, IO system ET200SP, power distribution, Siemens Sirius, switching and protective devices, N-disconnecting, emergency stop relay, command and signaling devices, 4 relays for hardwire voltage free signaling exchange (24VAC/DC), Start/Stop, no sludge, in operation, permission from client, all wired and tested.

- Power code 1: 3 x 400 V / 1 x 230 V / 50 Hz (3 phases, neutral, earth)
- Power code 2: 3 x 480 V (3 phases, earth) / 1 x 110 V / 60 Hz (phase, neutral, earth)

Delivery 1 pc control cabinet
Not included:



	type	WELWSP05	WELWSP15	WELWSP25	WELWSP50	WELWSP75
110100900	Polyester	15033	15979	16988	18029	19197
Length X	mm	600				
Width Y	mm	300				
Height Z	mm	800				
Weight	kg	30	35	40	75	85

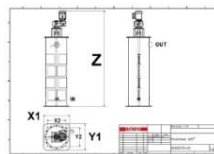


Mixing tank 11

WATROMAT® Mixing tank

Mixing tank for gentle mixing from sludge with polymer solution, closed pressure tank with baffles, agitator, nozzle pressure transmitter

Delivery 1 pc mixing tank
Not included Pressure transmitter 110200200



	type	WMT05	WMT15	WMT25	WMT50	WMT75
110200104	SS316	€ 9389	16346	21412	27676	41734
Volume	liter	50	150	250	850	1600
Electric power consumption	kWh	0.37	0.37	0.37	0.55	
Diameter inlet (down)	mm	4x 50 (2" thread)			4x100 (4" thread)	
Diameter outlet (up)	mm	50	100			150
Length X1	mm	500			900	1000
Width Y1	mm	500			900	1000
Height Z	mm	1237	1930	1971	2213	2636
Weight empty	kg	100	200	300	480	600
Weight full	kg	250	450	800	1330	2100



	type	WPT1
110200205	Pressure transmitter	€ 1194
Measuring range	mA	4-20

	type	Wgraphite
110200305	Graphite seal	€/m 28

Screw press skid 11

WATROMAT® Screw press skid

Screw press skid for sludge from industrial or municipal wastewater treatment plants, inlet 2-8 % dried solids, outlet organic sludge 20-35 % dried solids, inorganic sludge 20-50 % dried solids, sludge pH value 6.0-9.0.

Delivery 1 pc skid with screw press, mixing tank, Polymer liquid unit incl. peristaltic pump, flow meter Polymer, sludge pump, flow meter sludge, control cabinet
Not included

	type	WSP05skid	WSP15skid
110300103	SS316	€ 87872	107672
Throughput dried solids	t/day	0.3 - 2	0.6 - 4
Electric power consumption	kWh	1.7	3
Polymer liquid (50 % active)	l/hour	0.6	1.2
Water for Polymer	l/hour	180	360
Water for washing screw press	m3/day	0.3	0.6
Length X	m	2	3
Width Y	m	1.2	1.5
Height Z	m	1.6	1.9
Weight empty	kg	600	1600
Weight full	kg	750	1900



Diagram illustrating the components and specifications of the Watropur Modular System staircase:

- Stair:**
 - Stairing elements are expanded in average length to 1,50m.
- Carriers:**
 - Steel steps and treads are produced in standard lengths.
- Platform:**
 - Platform is delivered in 20' standard length (3,30m) (4,40m) (5,50m).
- Railing:**
 - Material: stainless steel, aluminum, galvanized steel.
 - Post in 100x100.
 - Assembly with lock (100) and most common railing with 100 x 100mm.
- Stairing:**
 - Post in 100x100.
 - Assembly with lock (100) and most common railing with 100 x 100mm.
- Stairing:**
 - Post in 100x100.
 - Assembly with lock (100) and most common railing with 100 x 100mm.

WATROPUR MODULAR SYSTEM

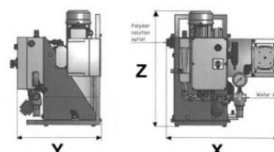


Polymer unit 12

WATROMAT® Polymer liquid

Polymer dosing unit for emulsion Polymer, inlet 50 % active, outlet 0.1 % solution, peristaltic dosing pump for polymer concentrate, mixing chamber with agitator, polymer solution feed with water network pressure, control cabinet

Delivery 1 pc Polymer unit
Not included

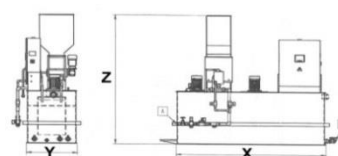


	type	WPL6	WPL12	WPL30	WPL135
120100105	SS304, Polypropylen	22064	25305	29475	35440
Screw press	type	WSP05	WSP15	WSP25	WSP50
Liquid Polymer (50 % active)	liter/hour	0.6	1.2	3.0	13.5
Water (>3 Bar)	liter/hour	180	300	600	900
Electric power consumption	kWh		0.1		0.25
Length X	mm		520		637
Width Y	mm		302		504
Height Z	mm		534		588
Weight	kg		25		63

WATROMAT® Polymer powder

Polymer preparation unit for powder Polymer, inlet powder, outlet 0.1 – 0.2 % Polymer water solution, three chambers for dissolving (WPP1 two chambers), maturation and storage, dissolving and maturation chamber with agitators, hopper for powder storage, control cabinet.

Delivery 1 pc Polymer unit, 1 pc hopper
Not included Pump



	type	WPP1	WPP2	WPP4	WPP8	WPP16
120100205	Polypropylen	40767	47205	50906	66338	73905
Screw press	type	WSP05	WSP15	WSP25	WSP50	WSP75
Powder (100 % active)	kg/hour	0.8	2	4	8	16
Water clean, >3 Bar	liter/hour	400	1000	2000	4000	8000
Electric power consumption	kWh	1.5	2.6	3.2	5.0	9.5
Volume hopper	liter	50		100		
Length X	mm	1638	1890	3237	2190	2940
Width Y	mm	1351	862	1148	1062	1062
Height Z	mm	2030	2119	2119	3105	3305
Weight empty	kg	250	400	500	600	1200
Weight full	kg	400	1000	1200	1500	2400



Pump (Polymer) 13

WATROMAT® Pump (Polymer)

Pump for Polymer solution with approx. 0.1-0.2 % active Polymer.

Delivery 1 pc pump
Not included



		type	WPU0	WPU2	WPU4	WPU10	WPU20
130100100	Pump (Polymer)	€	5280	6904	7520	8484	11292
Screw press		type	WSP05	WSP15	WSP25	WSP50	WSP75
Throughput		m3/hour	0.5	2	4	10	20
Electric power consumption		kWh	0.55	0.75	1.5	2.2	4
Length X		mm	1030	1030	1665	1665	2110
Width Y		mm	240	240	270	270	350
Height Z		mm	245	245	245	304	304
Weight		kg	48	53	58	70	85

		type	WPU0	WPU2	WPU4	WPU10	WPU20
130100105	Stator (nitrile PVC)	€	952	1056	1199	1370	1624

		type	WFM15	WFM20	WFM25	WFM40	WFM50
130100205	Flow meter (Polymer)	€	1221	2845	3399	3608	3806
Throughput		m3/hour	0.5	2	4	10	20
Diameter		mm	15	20	25	40	50

		type		Winjector	Winjector
130100305	Polymer-injector	€		4048	6215
Throughput		m3/hour		10	20
Diameter		mm		50	100



Pump (sludge) 13

WATROMAT® Pump (sludge)

Pump for sludge with approx. 2 % dried solids, need macerator in front.

Delivery 1 pc pump
Not included



		type	WPU2	WPU4	WPU10	WPU20	WPU30
130200100	Pump (sludge)	€	6904	7520	8484	11292	16452
Screw press		type	WSP05	WSP15	WSP25	WSP50	WSP75
Throughput		m3/hour	2	4	10	20	30
Electric power consumption		kWh	0.55	1.5	2.2	4	7.5
Length X		mm	1030	1665	1665	2110	2450
Width Y		mm	240	270	270	350	350
Height Z		mm	245	245	304	304	404
Weight		kg	53	58	70	85	120

		type	WPU2	WPU4	WPU10	WPU20	WPU30
130200105	Stator (nitrile PVC)	€	1056	1199	1370	1624	1810

		type	WFM20	WFM25	WFM40	WFM50	WFM95
130200205	Flow meter (sludge)	€	2845	3399	3608	3806	4466
Throughput		m3/hour	2	4	10	20	30
Diameter		mm	20	25	40	50	95

		type		WDS
130200305	Dried solids sensor	€		31735
Throughput		m3/hour		20-30
Diameter		mm		100



Piping 13

WATROMAT® Piping

Piping from sludge pump to mixing tank max. 10 m horizontal and max. 4 m vertical, piping from Polymer unit to mixing tank including ball back flow valve max. 5 m, piping mixing tank to screw press max. 1 m, 3 sample valves, without pipe clamps

Delivery 1 pc set
Not included Pipe clamps



		type	WTU05	WTU15	WTU25	WTU50	WTU75
130300105	Polyvinylchlorid (PVC)	€	6720	7350	8058	8868	10350
Screw press		type	WSP05	WSP15	WSP25	WSP50	WSP75
Throughput		m3/h	2	4	10	20	30
Diameter pipe Polymer pump till mixing tank		mm	20	25	32	100	50
Diameter pipe sludge pump till mixing tank		mm	25	32	50	100	150
Diameter pipe mixing tank till screw press		mm	50		100		

ISO Container 13

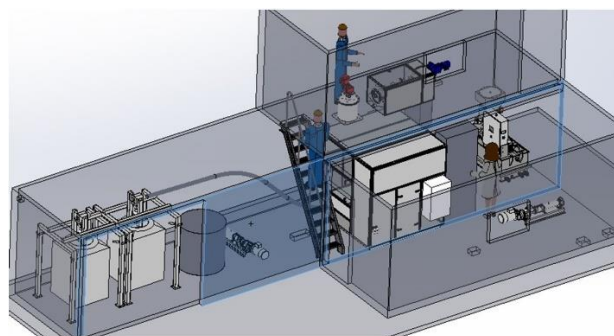
WATROMAT® ISO Container

ISO container for housing of screw press, belt dryer and bagging unit, air-conditioned and heated, illuminated, floor and wall isolated 60 mm, roof isolated 100mm, door, window, for outdoor installation.

Delivery 1 pc ISO container assembled
Not included



	type	WCO20	WCO40
130400101	Steel coated, Aluminium	79884	113709
Electric power consumption	kWh	0.8	
Length X	mm	6055	12192
Width Y	mm	2435	
Height Z inside/outside	mm	2340/2591	
Weight empty	T	2.3	3.9



Thickener 13

WATROMAT® Thickener

Static thickener for biological waste water, inlet 0.1 % dried solids, outlet 2 % dried solids.

Delivery 1 pc thickener, 1 pc sludge storage tank, 2 pneumatically valves
Not included Control cabinet



	type	WTH5	WTH10
130500104	SS316	196834	230912
Volume	m3	5	10
Electric power consumption	kWh	2.2	
Height	mm	3600	4200
Diameter	mm	3400	4000
Weight empty	t	1.6	2
Weight full	t	6.6	12

Control cabinet thickener 13

WATROMAT® Control cabinet thickener

Control cabinet, execution as WATROMAT® master or as slave, master with Siemens touch panel MTP1200 Unified Comfort, slave without touch panel, Profinet bus, PLC Siemens S7-1512, IO system ET200SP, power distribution, Siemens Sirius, switching and protective devices, N-disconnecting, emergency stop relay, command and signaling devices, 4 relays for hardwire voltage free signal exchange (24VAC/DC), Start/Stop, no sludge, in operation, permission from client, all wired and tested.

- Power code 1: 3 x 400 V / 1 x 230 V / 50 Hz (3 phases, neutral, earth)
- Power code 2: 3 x 480 V (3 phases, earth) / 1 x 110 V / 60 Hz (phase, neutral, earth)

Delivery 1 pc control cabinet
Not included



	type	WEL1WTH	WEL2WTH
130500900	Polyester	10842	16335
Thickener	pc	1	2
Length X	mm	600	
Width Y	mm	300	
Height Z	mm	800	
Weight	kg	35	45



Bunker-dryer

Page **Part**



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Bunker-dryer

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Belt dryer

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Bunker, Conveyor

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Loading

Bag, Container, Silo

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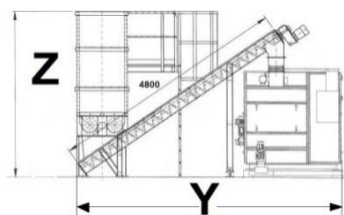
Bunker-dryer 20

WATROMAT® Bunker-dryer

Bunker-dryer for sludge from industrial or municipal waste water treatment plants, inlet 20-60 % dried solids, outlet 90 % dried solids, drying temperature 30 °C/86 °F, specific electric power consumption dryer: 333 W/kg H₂O, compressed air 25 l/min (>3 Bar), noise level <85dBA, sludge pH value 6.0-9.0.

Delivery 1 pc bunker with 2 pcs discharge conveyors, 1 pc increasing conveyor,
1 pc belt dryer SS304, 1 pc control cabinet bunker 200100900

Not included 1 pce collecting spiral (only type WBU05WBD04 and WBU05WBD08)
Collecting conveyor 230200XXX (only type WBU05WBD15)



	type	WBU05WBD04	WBU05WBD08	WBU05WBD15
200100102	Hot galvanized	€ 216533	€ 233281	€ 265280
200100103	SS304	€ 265759	€ 282508	€ 345845
200100104	SS316	€ 297097	€ 310947	€ 345845
Bunker volume activ	m3	5		
Water removal at 5-40 °C environment	t/day	0.4	0.8	1.5
Electric power consumption	kWh	10.7	15.7	23.7
Cooling water >3 Bar (24°C)	m3/h	0.2	0.3	0.5
Length X	m	3.5		
Width Y	m	6		
Height Z	m	3.4		
Weight empty	t	1.5	1.7	1.8
Weight full	t	6.5	6.7	6.8

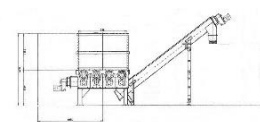
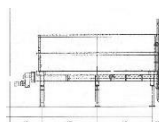
Bunker-dryer 20

WATROMAT® Bunker-dryer

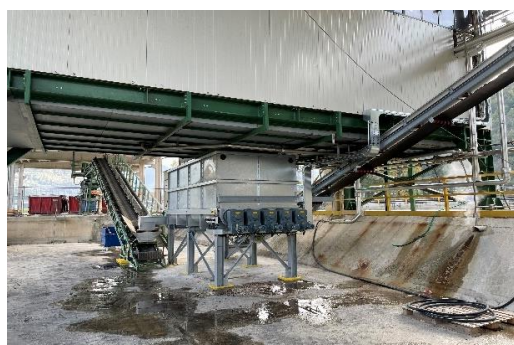
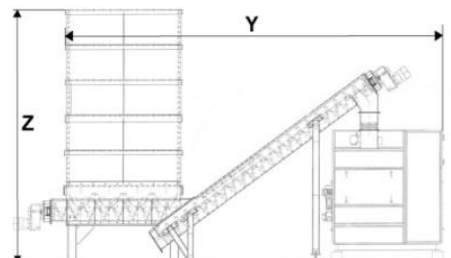
Bunker-dryer for sludge from industrial or municipal waste water treatment plants, inlet 20-60 % dried solids, outlet 90 % dried solids, drying temperature 30 °C/86 °F, specific electric power consumption dryer: 333 W/kg H₂O, compressed air 25 l/min (>3 Bar), noise level <85dBA, sludge pH value 6.0-9.0. Sludge outlet for collecting spiral (230100XXX) or collecting conveyor (230500XXX).

Delivery 1 pc bunker with 5 pcs discharge conveyors, 1 collecting conveyor
1 pc increasing conveyor, 1 pc belt dryer SS304

Not included 1 pc control cabinet bunker
Collecting conveyor or spiral



	type	WBU10WBD15	WBU10WBD30	WBU10WBD45
200100202	Hot galvanized	€ 281299	€ 373462	€ 463617
200100203	SS304	€ 373462	€ 404938	€ 448736
200100204	SS316	€ 431729	€ 534782	€ 646766
Bunker volume activ	m3	10		
Water removal at 5-40 °C environment	t/day	1.5	3	4.5
Electric power consumption	kWh	27.8	47.8	67.8
Cooling water >3 Bar (24°C)	m3/h	0.5	1	1.5
Length X	m	4.6		6
Width Y	m	6		
Height Z	m	2.6		
Weight empty	t	7	8	9
Weight full	t	17	18	19



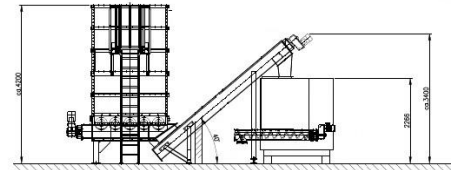
Bunker-dryer 20

WATROMAT® Bunker-dryer

Bunker-dryer for sludge from industrial or municipal waste water treatment plants, inlet 20-60 % dried solids, outlet 90 % dried solids, drying temperature 30 °C/86 °F, specific electric power consumption dryer: 333 W/kg H₂O, compressed air 25 l/min (>3 Bar), noise level <85dBA, sludge pH value 6.0-9.0. Sludge outlet for collecting spiral (230100XXX) or collecting conveyor (230500XXX).

Delivery 1 pc bunker with 5 pcs discharge conveyors, 1 collecting conveyor
1 pc increasing conveyor, 1 pc belt dryer SS304
1 pc control cabinet bunker

Not included Collecting conveyor or spiral



	type	WBU18WBD30	WBU18WBD45	WBU18WBD60
200100302	Hot galvanized	387461	462735	534720
200100303	SS304	402342	447761	549601
200100304	SS316	461757	537031	609016
Bunker volume activ	m ³		18	
Water removal at 5-40 °C environment	t/day	3	4.5	6
Electric power consumption	kWh	47.8	67.8	86.8
Cooling water >3 Bar (24°C)	m ³ /h	1	1.5	2
Length X	m		5.9	7.9
Width Y	m		6	
Height Z	m		3.2	
Weight empty	t	8	9	10
Weight full	t	23	24	25

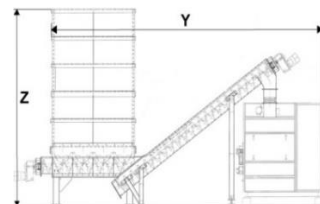
Bunker-dryer 20

WATROMAT® Bunker-dryer

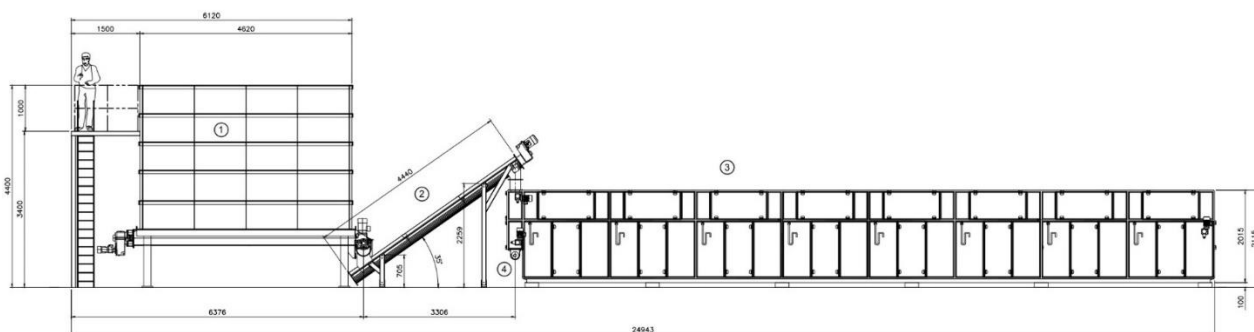
Bunker-dryer for sludge from industrial or municipal waste water treatment plants, inlet minimum 20 % dried solids, outlet 90 % dried solids, drying temperature 30 °C/86 °F, specific electric power consumption dryer: 333 W/kg H₂O, compressed air 25 l/min (>3 Bar), noise level <85dBA, sludge pH value 6.0-9.0. Sludge outlet for collecting conveyor or spiral (230100XXX).

Delivery 1 pc bunker with 5 pcs discharge conveyors, 1 collecting conveyor
1 pc increasing conveyor, 1 pc belt dryer SS304
1 pc control cabinet bunker

Not included Collecting conveyor or spiral



	type	WBU25WBD60	WBU25WBD75	WBU25WBD90	WBU25WBD105	WBU25WBD120
200100402	Hot galvanized	625472	698527	771512	844495	912440
200100403	SS304	640353	726885	786393	859375	927321
200100404	SS316	740265	813319	886304	959287	1027233
Bunker volume activ	m ³			25		
Water removal at 5-40 °C environment	t/day	6	7	9	10.5	12
Electric power consumption	kWh	88	108	128	148	168
Cooling water >3 Bar (24°C)	m ³ /h	2	2.5	3	3.5	4
Length X	m	7.9	9.5	11.7	13.6	15.4
Width Y	m			6		
Height Z	m			4.2		
Weight empty	t	10	11	12	13	14
Weight full	t	35	36	37	38	39



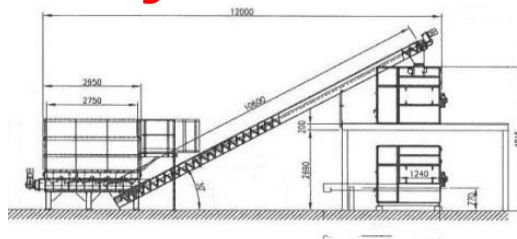
Bunker-dryer double 20

WATROMAT® Bunker-dryer double

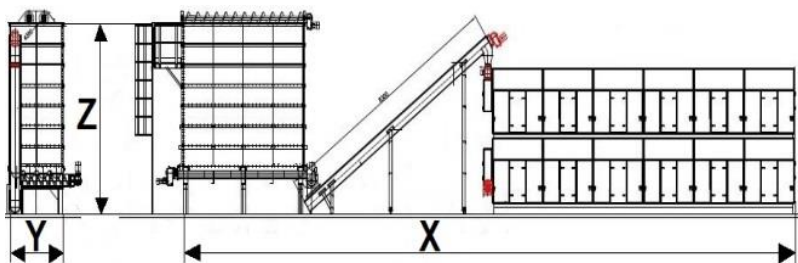
Bunker-dryer dryer for sludge from industrial or municipal waste water treatment plants, inlet minimum 20 % dried solids, outlet 90 % dried solids, drying temperature 30°C/86°F, bunker next to dryer, specific electric power consumption dryer: 333 W/kg H₂O, compressed air 25 l/min (>3 Bar), noise level <85dBA, sludge pH value 6.0-9.0. Sludge outlet for collecting conveyor or spiral (230100XXX).

Delivery 1 pc bunker with 5 pcs discharge conveyors, 1 pc collecting conveyor
1 pc increasing belt, 1 pc belt dryers SS314
1 pc control cabinet, 1 pc platform to hold upper dryer
1 pc control cabinet bunker

Not included Collecting conveyor or spiral
Sludge duct connection between upper and lower dryer



		type	WBU35WBD120D	WBU35WBD150D	WBU35WBD180D	WBU35WBD210D	WBU35WBD240D
200100502	Hot galvanized	€	1003182	1140478	1299439	1502819	1608347
200100503	SS304	€	1117856	1255152	1425536	1617493	1712117
200100504	SS316	€	1271059	1408354	1567315	1335766	1865320
Bunker volume activ	m3				25-30		
Water removal at 5-40 °C environment	t/day		2x6	2x7.5	2x9	2x10.5	2x12
Electric power consumption	kWh		2x80	2x100	2x120	2x140	2x160
Cooling water >3 Bar (24°C)	m3/h		2x2	2x2.5	2x3	2x3.5	2x4
Length X	m		22.9	24.9	26.8	28.7	30.6
Width Y	m				2.6		
Height Z	m				5.5		
Weight empty (WBU35)	t		21	23.3	25.1	27	28.9
Weight full	t		36	38	40	42	44



Belt dryer 21

WATROMAT® Belt dryer

Belt dryer for sludge from industrial or municipal waste water treatment plant, inlet minimum 20 % dried solids, outlet 90 % dried solids, sludge feed continuous, 24 h/day, minimum 30 min/h, sludge particle size between 5 and 20 mm, drying temperature 30°C/86°F, specific electric power consumption 333 W/kg H₂O, bottom frame C-profile 80 mm high, compressed air 25 l/min (>3 Bar), noise level <85dBA, sludge pH value 6.0-9.0, sludge outlet with collecting spiral

Delivery 1 pc belt dryer with integrated control cabinet
Not included Shredder and rake 210200XXX



	type	WBD04	WBD08
210100103	SS304	€ 87769	104518
Water removal at 5-40 °C environment	t/day	0.4	0.8
Electric power consumption	kWh	8	13
Cooling water >3 Bar (24°C)	m ³ /h	0.2	0.3
Length X	m	1.3	1.9
Width Y	m	1.6	
Height Z	m	2	
Weight empty	t	0.8	1.4
Weight full	t	0.9	1.8

Belt dryer 21

WATROMAT® Belt dryer

Belt dryer for sludge from industrial or municipal waste water treatment plant, inlet minimum 20 % dried solids, outlet 90 % dried solids, sludge feed continuous, 24 h/day, minimum 30 min/h, particle size between 5 and 100 mm, drying temperature 30°C/86°F, specific electric power consumption 333 W/kg H₂O, shredder WSH1240.310 and rake WRA1200 included, bottom frame C-profile 80 mm high, compressed air 25 l/min (>3 Bar), noise level <85dBA, sludge pH value 6.0-9.0, sludge outlet for collecting conveyor or spiral (230XXXXXX).

Delivery 1 pc belt dryer, 1 pc master control cabinet
Not included Collecting conveyor or spiral



WBD15

	type	WBD15	WBD30
210100203	SS304	€ 136517	211817
Water removal at 5-40 °C environment	t/day	1.5	3
Electric power consumption	kWh	20	40
Cooling water >3 Bar (24°C)	m ³ /h	0.5	1.0
Length X	m	2.2	4.2
Width Y	m	2	
Height Z	m	2	
Weight empty	t	1.4	2.4
Weight full	t	1.8	3.2



WBD30

WATROMAT® Belt dryer

Belt dryer for sludge from industrial or municipal waste water treatment plant, inlet minimum 20 % dried solids, outlet 90 % dried solids, sludge feed continuous, 24 h/day, minimum 30 min/h, particle size between 5 and 100 mm, drying temperature 30°C/86°F, specific electric power consumption 333 W/kg H₂O, shredder WSH1240.310 and rake WRA1200 included, bottom frame C-profile 80 mm high, compressed air 25 l/min (>3 Bar), noise level <85dBA, sludge pH value 6.0-9.0, sludge outlet for collecting conveyor or spiral (230XXXXXX).

Delivery 1 pc belt dryer, 1 pc master control cabinet
Not included Collecting conveyor or spiral



WBD45

	type	WBD45	WBD60
210100203	SS304	€ 287091	359076
Water removal at 5-40 °C environment	t/day	4.5	6
Electric power consumption	kWh	60	80
Cooling water >3 Bar (24°C)	m ³ /h	1.5	2.0
Length X	m	6	7.92
Width Y	m	2	
Height Z	m	2	
Weight empty	t	3.6	4.1
Weight full	t	4.8	5.7



WBD60

Belt dryer 21

WATROMAT® Belt dryer

Belt dryer for sludge from industrial or municipal waste water treatment plant, inlet minimum 20 % dried solids, outlet 90 % dried solids, sludge feed continuous, 24 h/day, minimum 30 min/h, sludge particle size between 5 and 100 mm, drying temperature 30°C/86°F, specific electric power consumption 333 W/kg H₂O, shredder WSH1240.310 and rake WRA1200 included, bottom frame H-profile 120 mm high, compressed air 25 l/min (>3 Bar), noise level <85dBA, sludge pH value 6.0-9.0, sludge outlet for collecting conveyor or spiral (230XXXXXX).

Delivery 1 pc belt dryer, 1 pc master control cabinet
Not included Collecting conveyor or spiral



WBD75



WBD90

	type	WBD75	WBD90
210100303	SS304	432131	505116
Water removal at 5-40 °C environment	t/day	7.5	9
Electric power consumption	kWh	100	120
Cooling water >3 Bar (24°C)	m ³ /h	2.5	3
Length X	m	9.5	11.7
Width Y	m	2	2
Height Z	m	2	2
Weight empty	t	5.1	6.7
Weight full	t	7.9	8.3

WATROMAT® Belt dryer

Belt dryer for sludge from industrial or municipal waste water treatment plant, inlet minimum 20 % dried solids, outlet 90 % dried solids, sludge feed continuous, 24 h/day, minimum 30 min/h, sludge particle size between 5 and 100 mm, drying temperature 30°C/86°F, specific electric power consumption 333 W/kg H₂O, shredder WSH1240.310 and rake WRA1200 included, bottom frame H-profile 120 mm high, compressed air 25 l/min (>3 Bar), noise level <85dBA, sludge pH value 6.0-9.0. Sludge outlet for collecting conveyor or spiral (230100XXX).

Delivery 1 pc belt dryer, 1 pc master control cabinet
Not included Collecting conveyor or spiral



WBD105

	type	WBD105	WBD120
210100303	SS304	578098	646044
Water removal at 5-40 °C environment	t/day	10.5	12.0
Electric power consumption	kWh	140	160
Cooling water >3 Bar (24°C)	m ³ /h	3.5	4
Length X	m	13.6	15.4
Width Y	m	2	2
Height Z	m	2	2
Weight empty	t	8.3	10
Weight full	t	9.9	11.6



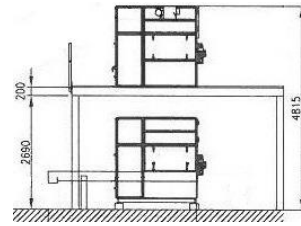
WBD120

Belt dryer double21

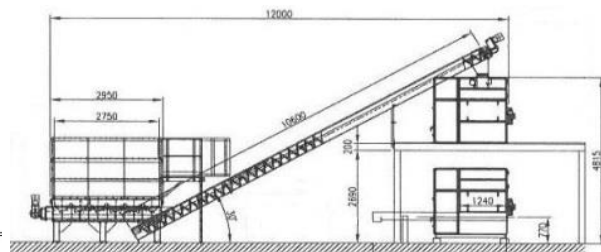
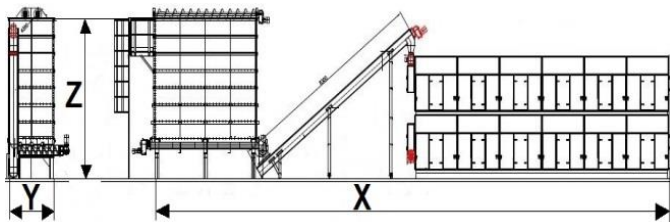
WATROMAT® Belt dryer double

Belt dryer double for sludge from industrial or municipal waste water treatment plant, inlet minimum 20 % dried solids, outlet 90 % dried solids, sludge feed continuous, 24 h/day, minimum 30 min/h, sludge particle size between 5 and 100 mm, drying temperature 30°C/86°F, specific electric power consumption 333 W/kg H₂O, shredder WSH1240.310 and two rakes WRA1200 included, compressed air 25 l/min (>3 Bar), noise level <85dBA, sludge pH value 6.0-9.0. Sludge outlet for collecting conveyor or spiral (230XXXXXX).

Delivery 2 pcs belt dryers, 1 pc master control cabinet
Not included Collecting conveyor or spiral
Platform for hold upper dryer
Sludge duct between upper and lower dryer



	type	WBD120D	WBD150D	WBD180D	WBD210D	WBD240D
210100503	SS304	716078	853373	1012334	1215715	1310339
Water removal at 5-40 °C environment	t/day	2x6	2x7.5	2x9	2x10.5	2x12
Electric power consumption	kWh	2x80	2x100	2x120	2x140	2x160
Cooling water >3 Bar (24°C)	m ³ /h	2x2	2x2.5	2x3	2x3.5	2x4
Length X	m	7.9	9.5	11.7	13.6	15.4
Width Y	m	2				
Height Z	m	4.815				
Weight empty	t	8.2	10.2	12.2	15	17
Weight full	t	10	14.2	17.4	21.6	23



Platform 21

WATROMAT®

Platform

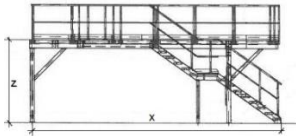
Platform to hold and maintain upper belt dryer from belt dryer double (210500103), with stair 800 mm double sided railing, and grating, whole construction is screwed in individual segments

Delivery

Not included

1 pc platform (individual segments)

Installation on site



	type	WBD120D	WBD150D	WBD180D	WBD210D	WBD240D
210100802	Hot galvanized	€ 39534	€ 52860	€ 68465	€ 87900	€ 96540
210100803	SS304	€ 57324	€ 76647	€ 99273	€ 127455	€ 139983
Belt dryer	Type	WBD60	WBD75	WBD90	WBD105	WBD120
Length X	m	9.5	11.1	13.5	15.4	17.2
Width Y	m	3.3				
Height Z	m	2.9				
Weight platform	t	2.2	2.6	3.2	3.6	4.1



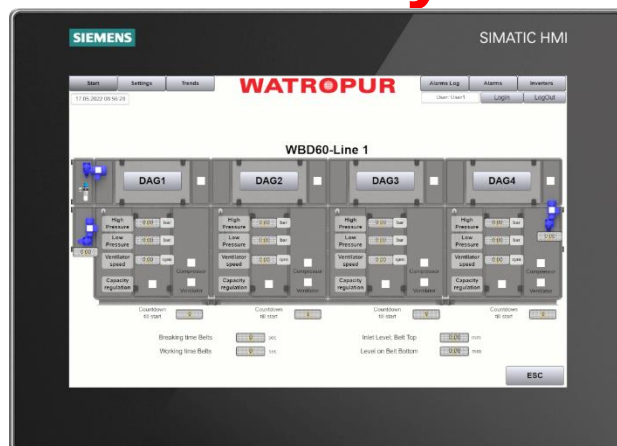
Control cabinet belt dryer 21

WATROMAT® Control cabinet belt dryer

Control cabinet, execution as WATROMAT® master or as slave, master with Siemens touch panel MTP1200 Unified Comfort, slave without touch panel, Profinet bus, PLC Siemens S7-1512, IO system ET200SP, power distribution, Siemens Sirius, switching and protective devices, N-disconnecting, emergency stop relay, command and signaling devices, 4 relays for hardwire voltage free signal exchange (24VAC/DC), Start/Stop, no sludge, in operation, permission from client, all wired and tested.

- Power code 1: 3 x 400 V / 1 x 230 V / 50 Hz (3 phases, neutral, earth)
- Power code 2: 3 x 480 V (3 phases, earth) / 1 x 110 V / 60 Hz (phase, neutral, earth)

Delivery 1 pc control cabinet
Not included



	type	WELDAG15
210100900	Polyester	€ 10364
Length X	mm	300
Width Y	mm	400
Height Z	mm	600
Weight	kg	41



	type	WELBD04	WELWBD08
210100900	Polyester	€ 15125	€ 15881
Length X	mm		300
Width Y	mm		600
Height Z	mm		800
Weight	kg	41	43



	type	WELWBD15	WELWBD30	WELWBD45	WELWBD60
210100900	Steel coated	€ 18029	€ 18695	€ 19233	€ 19644
Length X	mm		400		
Width Y	mm		800		
Height Z	mm		2100		
Weight	kg	120	125	130	140



	type	WELWBD75	WELWBD90	WELWBD105	WELWBD120
210100900	Steel coated	€ 20391	€ 20994	€ 21606	€ 22222
Length X	mm		400		
Width Y	mm		800		
Height Z	mm		2100		
Weight	kg	145	150	155	160



	Typ	WELWBD120D	WELWBD150D	WELWBD180D	WELWBD210D	WELWBD240D
210100900	Steel coated	€ 27155	€ 29539	€ 32016	€ 35316	€ 38962
Length X	mm			400		
Width Y	mm			2x800		
Height Z	mm			2100		
Weight	kg	250	255	260	280	295



Transmitter 21

WATROMAT® Transmitter

Delivery 1 pc transmitter
Not included

	type	WODS10	WHT46C	WDS851000	WAL030
210100915	Transmitter 4-20 mA	€ 1324	€ 468	€ 457	€ 424
Range		0.05 -12 m	0.05 - 3 m	0-1000 Pascal	0-30 Bar
Function		analog	1 switch	analog	analog



Shredder 21

WATROMAT® Shredder

Shredder for sludge with minimum 20 % dried solids, installed at inlet of belt dryer 210100XXX, inlet sludge size maximum 100 mm, outlet approx. 20 mm, sludge feed continuous 24 hours/day, minimum 30 min/hour.

Delivery 1 pc shredder
Not included



		type	WSH300.200	WSH1240.310
210200103	SS304	€	11616	17006
Used for belt dryer		type	WB04-08	WBD15-WBD240
Electric power		kWh	0.37	
Capacity sludge		t/day	6	30
Length inside		mm	300	1240
Width inside		mm	200	310
Height inside		mm	300	310
Weight		kg	50	110

		type	Wsprocket
210200115	Sprocket Polyamid	€	490
Used for shredder		type	WSHXXX

WATROMAT® Rake

Rake with linear pneumatic or electric drive for distribution of sludge pieces over the entire width of the belts, installed at the beginning of the belts (belt dryer 210100XXX), for sludge with minimum 20 % dried solids, sludge size maximum 25 mm, pressure air 25 l/min (>3 Bar), sludge feed continuous 24 hours/day, minimum 30 min/h, pressure air control system.

Delivery 1 pc rake
Not included



		type	WRA900	WRA1200
210200203	SS314	€	4675	5148
Length		mm	900	1200
Weight		kg	22	26

		type	WRA900	WRA1200
210200210	Linear drive pneumatic	€	2580	6540
210200220	Linear drive electric	€	11942	14240
Length		mm	900	1200
Weight		kg	14	16

WATROMAT® Rotary

Rotary for loosening of sludge layers, sludge from wastewater treatment plants with minimum 40 % dried solids.

Delivery 1 pc round shaft d25mm with 36 round teeth's, 2 pcs bearings, 1 pc gearbox motor
Not included Installation



		type	WRO900	WRO1200
210200303	SS304	€	2581	3252
Belt dryer		type	WBD04-08	WBD15-240DD
Electric power		kWh	0.37	
Length		mm	900	1200
Weight		kg	21	25

Rotary 21

Heat exchanger and motor 21

WATROMAT® Heat exchanger and motor

Heat exchanger and motor for belt dryer. Lifetime spare part for belt dryer. Evaporator for cooling of drying air (condensate water), condenser for heating of drying air. External condenser for cooling of refrigerant with water.

Delivery 1 pc
Not included

		type	EVAP04	EVAP08	EVAP15
210300103	Evaporator SS304	€	7071	9890	12450
210300104	Evaporator SS316	€	8319	11635	14647
Belt dryer		type	WBD04	WBD08	WBD15-240DD
Length X		mm	975	1680	1810
Width Y		mm	310	310	300
Height Z		mm	540	420	620
Weight		kg	54	71	90



		type	COND04	COND08	COND15
210300203	Condenser SS304	€	7677	11828	14162
210300204	Condenser SS316	€	9032	15092	21162
Belt dryer		type	WBD04	WBD08	WBD15-240DD
Length X		mm	975	1680	1730
Width Y		mm	370	360	350
Height Z		mm	540	420	620
Weight		kg	69	85	113



		type	EXTCOND04	EXTCOND08	EXTCOND15
210300213	External condenser	€	684	728	1161
Belt dryer		type	WBD04	WBD08	WBD15-240DD
Length X		mm	76	98	122
Width Y		mm	90	90	124
Height Z		mm	464	464	335
Weight		kg	6	7.5	8



		type	COMP04	COMP08	COMP15
210300301	Cooling compressor	€	4896	9456	13542
Belt dryer		type	WBD04	WBD08	WBD15-240DD
Length X		mm	225	280	415
Width Y		mm	225	280	750
Height Z		mm	510	552	445
Weight		kg	39	65	211



		type	GM37	GM150
210300301	Gear motor (belt)	€	1056	1812
Belt dryer		type	WBD04-60	WBD75-240DD
Electric power		kW	0.37	1.5
Length X		mm	322	347
Width Y		mm	148	215
Height Z		mm	194	217
Weight		kg	11	24



		type	VENT-WBD
210300404	Ventilator	€	3579
Belt dryer		type	WBD04-240D
Length X		mm	380
Width Y		mm	550
Height Z		mm	550
Weight		kg	36



		type	Dual Hinge
210300505	Dual Hinge	€	42



Filter and belt 21

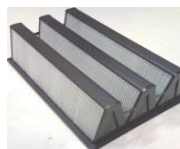
WATROMAT® Filter

Compact filter for belt dryer 210100XXX, WBD04 and WBD08: 1 pc, WBD15: 2 pcs, WBD30: 4 pcs, WBD45: 6 pcs, WBD60: 8 pcs, WBD75: 10 pcs, WBD90: 12 pcs, WBD12DD: 12 pcs, WBD15DD: 16 pcs, WBD18DD: 24 pcs, WBD215: 20 pcs, WBD240: 32 pcs.

Delivery 1 pc

Not included Prefilter and mounting frame 210400XXX

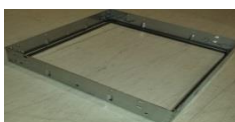
	type		869.592.292 (after 2016)	892.592.292 (before 2015)
210400105	Filter	€	576	612
Length X	mm		869	897
Width Y	mm		592	592
Height Z	mm		292	380
Weight	kg		7	7



	type		869.592.20
210400203	Prefilter SS304	€	828
Length X	mm		869
Width Y	mm		592
Height Z	mm		20
Weight	kg		3



	type		887.609.70
210400303	Mounting frame SS304	€	460
Length X	mm		887
Width Y	mm		609
Height Z	mm		70
Weight	kg		2



WATROMAT® Filter cleaner

Filter cleaner for compact filter 210400100, 1 pc filter cleaner cleans 2 pcs filters, pressure air 240 ml/min, >3 Bar, compressed air 250 l/min (>6 Bar), control cabinet

Delivery: 1 pc

Not included:

	type		887.609.310
210400505	Filter cleaner	€	19744
Length X	mm		869
Width Y	mm		592
Height Z	mm		292
Weight	kg		26



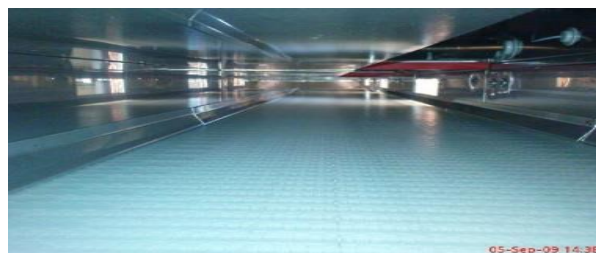
WATROMAT® Belt

Multiple belts made of modular perforated parts, drive with sprockets and ball bearing.

Delivery Min. 1 m

Not included

	type		WBE09	WBE12
210500105	Belt	€/m (length)	623	798
Belt dryer	type		WBD04-08	WBD15-240D
Width	m		0.9	1.2
Weight	kg/m (length)		4.5	6

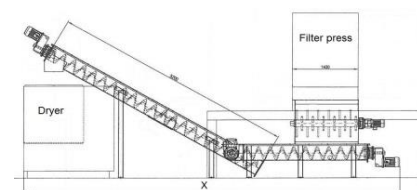


	type		WSO25	WSO35
210500205	Sprocket belt	€	124	156
Belt dryer	type		WBD04-60/120D	WBD75-240D
Diameter shaft	mm		25	35
Weight	kg		0.3	0.4



	type		WSO25	WSO35
210500303	Ball bearing SS304	€	56	66
Belt dryer	type		WBD04-60	WBD75-240D
Diameter shaft	mm		25	35
Weight	kg		0.3	0.4

Bunker 22



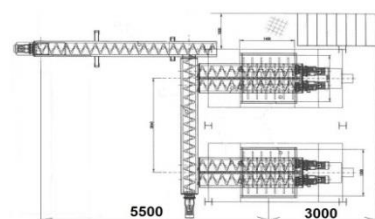
WATROMAT® Bunker

Bunker for sludge from filter press with minimum 25 % dried solids, transport filter cake from filter press to belt dryer platform with railing and stair for holding the filter press, bunker with two stirrers and one discharge screw, discharge screw transport sludge to increasing conveyor (220600100).

Delivery 1 pc platform for holding filter press, 1 pc bunker, 2 pc stirrers, 1 pc discharge screw
Not included Increasing conveyor, filter press, control cabinet

	type	WBU03	WBU05	WBU07
220100102	Hot galvanized	€ 165520	€ 182269	€ 214268
220100103	SS304	€ 240004	€ 264290	€ 310688
220100104	SS316	€ 289661	€ 318971	€ 374969
Filter press automat plates size	mm	1200x1200		
Filter press volume	l	320	480	640
Length bunker	m	1.4	2.1	2.8
Electric power stirrer	kWh	2x1.1		
Electric power discharge screw	kWh	0.55		
Electric power collecting conveyor	kWh	0.75		
Length X	m	8		
Width Y	m	3		
Height Z (platform/incl. filter press automat)	m	1.5 (3.7)		
Weight empty incl. filter press automat	t	2.5	3	4
Weight full incl. filter press automat	t	3	3.5	4.5

Bunker 22



WATROMAT® Bunker

Bunker for sludge from filter press with minimum 25 % dried solids, transport filter cake from filter press to belt dryer, platform with railing and stair for holding two filter presses, two bunker with each 2 stirrers (total 4 stirrers, each with 2 discharge screws (total 4 discharge screws) and one collecting conveyor, collecting conveyor transport sludge to increasing conveyor (220600100).

Delivery 1 pc platform for holding 2 filter presses, 2 pcs bunkers, 4 pcs stirrers
Not included 4 pcs discharge screws, 1 pc collecting conveyor
Increasing conveyor, filter presses, control cabinet

	type	WBU03D	WBU05D	WBU07D
220100202	Hot galvanized	€ 150473	€ 165699	€ 194789
220100203	SS304	€ 218186	€ 240264	€ 282444
220100204	SS316	€ 263328	€ 289973	€ 340881
Filter press automat plates size	mm	1200x1200		
Filter press volume	l	2x320	2x480	2x640
Length bunker	m	2x1.4	2x2.1	2x2.8
Electric power stirrer	kWh	4x1.1		
Electric power discharge screw	kWh	2x0.55		
Electric power collecting conveyor	kWh	0.75		
Length X	m	8		
Width Y	m	6		
Height Z (platform/incl. filter press automat)	m	1.5/3.7		
Weight empty	t	4	6	8
Weight full	t	5	7	9

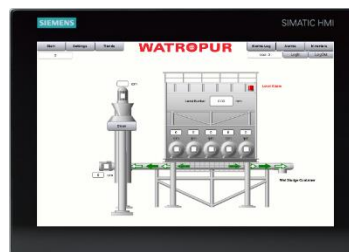
Control cabinet bunker 22

WATROMAT® Control cabinet bunker

Control cabinet, execution as WATROMAT® master or as slave, master with Siemens touch panel MTP1200 Unified Comfort, slave without touch panel, Profinet bus, PLC Siemens S7-1512, IO system ET200SP, power distribution, Siemens Sirius, switching and protective devices, N-disconnecting, emergency stop relay, command and signaling devices, 4 relays for hardwire voltage free signal exchange (24VAC/DC), Start/Stop, no sludge, in operation, permission from client, all wired and tested.

- Power code 1: 3 x 400 V / 1 x 230 V / 50 Hz (3 phases, neutral, earth)
- Power code 2: 3 x 480 V (3 phases, earth) / 1 x 110 V / 60 Hz (phase, neutral, earth)

Delivery 1 pc cabinet
Not included



	type	WELWBU0X	WELWBU0XD
220100900	Control cabinet bunker	€ 9510	€ 10830
Bunker	type	WBU0X	WBU0XD
Length X	mm	400	
Width Y	mm	250	
Height Z	mm	600	
Weight	kg	33	35

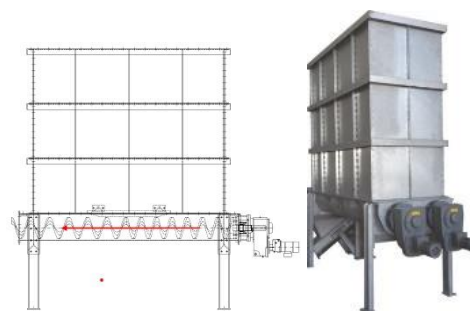


Bunker 22

WATROMAT® Bunker

Bunker for sludge with minimum 20 % dried solids, receives sludge to operate belt dryer (210100XXX) continuously, bunker walls segments including stiffeners and struts, discharge floor with two progressively pushing spirals, increasing conveyor (220600XXX) transport sludge to belt dryer (210100XXX)

Delivery 1 pc discharge floor with 2 discharge screws, 3 pcs bunker wall segments
Not included Increasing conveyor, platform ladder, control cabinet



		type	WBU5
220200102	Hot galvanized	€	74869
220200103	SS304	€	108560
220200104	SS316	€	131021
Volume geometric	m3		5.6
Electric power discharge screw	kWh		2x0.37
Length bunker X	m		3.15
Width bunker Y	m		1.1
Height bunker Z	m		3.4
Weight empty	t		3.8
Weight full	t		8.8

Platform Ladder 22

WATROMAT® Platform Ladder

Platform with railing, ladder with security back ring, connection to bunker prepared.

Delivery 1 pc platform, 1 pc ladder
Not included

		type	WBU5
220200202	Hot galvanized	€	4620
220200203	SS304	€	6699
220200204	SS16	€	11723
Platform size	m x m		0.8 x 0.8
Ladder height	m		3.4
Weight	kg		180



Control cabinet bunker 22

WATROMAT® Control cabinet bunker

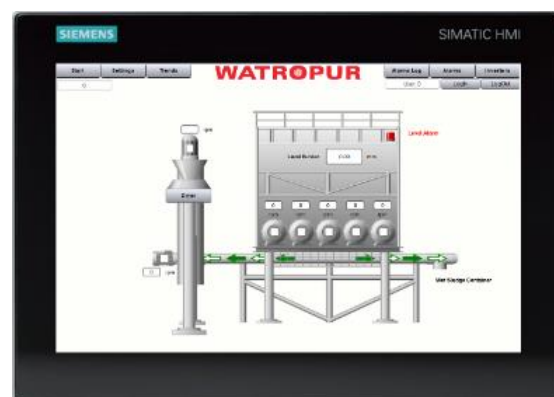
Control cabinet, execution as WATROMAT® master or as slave, master with Siemens touch panel MTP1200 Unified Comfort, slave without touch panel, Profinet bus, PLC Siemens S7-1512, IO system ET200SP, power distribution, Siemens Sirius, switching and protective devices, N-disconnecting, emergency stop relay, command and signaling devices, 4 relays for hardwire voltage free signal exchange (24VAC/DC), Start/Stop, no sludge, in operation, permission from client, all wired and tested.

- Power code 1: 3 x 400 V / 1 x 230 V / 50 Hz (3 phases, neutral, earth)
- Power code 2: 3 x 480 V (3 phases, earth) / 1 x 110 V / 60 Hz (phase, neutral, earth)

Delivery 1 pc cabinet

Not included

		type	WELWBU5
220200900	Polyester	€	9510
Bunker	type		WBU5
Length X	mm		400
Width Y	mm		300
Height Z	mm		600
Weight	kg		30



Bunker 22

WATROMAT® Bunker

Bunker for sludge with minimum 20 % dried solids, receives sludge to operate belt dryer 210100XXX continuously, bunker walls segments including stiffeners and struts, discharge floor with five progressively pushing spirals and one collecting conveyor, collecting conveyor transport sludge to increasing conveyor, increasing conveyor (220600XXX) transport sludge to belt dryer (210100XXX)

Delivery 1 pc discharge floor with 5 pcs discharge conveyors and 1 pc collecting conveyor
2-5 pcs bunker wall segments

Not included Increasing conveyor, platform ladder, control cabinet

	type	WBU10	WBU18	WBU25	WBU35
220300102	Hot galvanized	€ 99939	€ 113139	€ 140089	€ 221762
220300103	SS304	€ 144912	€ 164052	€ 203130	€ 321555
220300104	SS316	€ 210123	€ 237876	€ 294538	€ 466255
Volume geometric	m ³	11	18	27	36
Electric power consumption bunker conveyor	kWh	5x0.37			
Electric power consumption collecting conveyor	kWh	2.2			
Length bunker X	m	4.5			
Width bunker Y	m	2			
Height bunker Z	m	2.5	3.0	3.7	4.4
Weight empty	t	5.4	6.7	6.8	11
Weight full	t	15.4	25	30	36



Platform Ladder 22

WATROMAT® Platform Ladder

Platform with railing, ladder with security back ring, connection to bunker prepared

Delivery 1 pc platform, 1 pc ladder

Not included



	type	WBU10	WBU18	WBU25	WBU35
220300202	Hot galvanized	€ 4125	€ 4510	€ 5115	€ 5445
220300203	SS304	€ 5981	€ 6540	€ 7417	€ 7895
220300204	SS16	€ 10467	€ 11444	€ 12979	€ 13817
Platform size	m x m	0.8 x 0.8			
Ladder height	m	3.0	3.5	4.0	5.0
Weight	kg	160	180	200	220

Control cabinet bunker 22

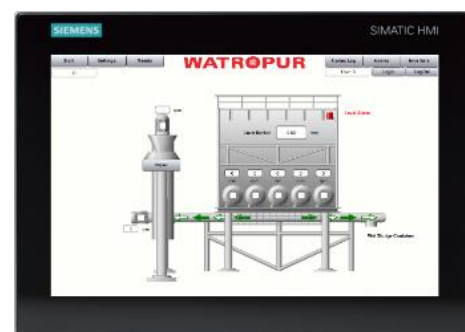
WATROMAT® Control cabinet bunker

Control cabinet, execution as WATROMAT® master or as slave, master with Siemens touch panel MTP1200 Unified Comfort, slave without touch panel, Profinet bus, PLC Siemens S7-1512, IO system ET200SP, power distribution, Siemens Sirius, switching and protective devices, N-disconnecting, emergency stop relay, command and signaling devices, 4 relays for hardwire voltage free signal exchange (24VAC/DC), Start/Stop, no sludge, in operation, permission from client, all wired and tested.

- Power code 1: 3 x 400 V / 1 x 230 V / 50 Hz (3 phases, neutral, earth)
- Power code 2: 3 x 480 V (3 phases, earth) / 1 x 110 V / 60 Hz (phase, neutral, earth)

Delivery 1 pc cabinet

Not included



	type	WELWBU10	WELWBU18	WELWBU25	WELWBU35
220300900	Polyester	€ 19191	€ 19989	€ 20752	€ 22827
Bunker	type	WBU10	WBU18	WBU25	WBU35
Length X	mm	400			
Width Y	mm	250			
Height Z	mm	600			
Weight	kg	35	40	45	50

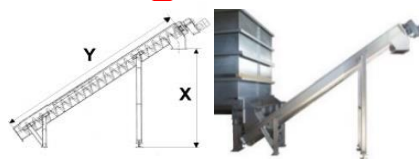


Increasing conveyor 22

WATROMAT® Increasing conveyor

Increasing conveyor for non-thixotropic sludge with minimum 20 % dried solids, transport sludge from bunker (220100XXX, 220200XXX, 220300XXX) to the belt dryer (210100XXX)

Delivery 1 pc increasing conveyor
Not included Control cabinet



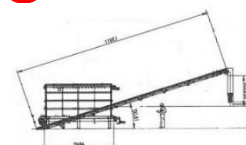
	type	WSC48/35	WSC46/35
220600102	Hot galvanized	€ 44385	€ 42515
220600103	SS304	€ 59920	€ 57396
220600104	SS316	€ 68797	€ 65899
Bunker 220100XXX	type	WBU00X-05	WBU10-35
Belt dryer 210100XXX	type	WBD04-120	
Electric power	kWh	3	
Capacity	m ³ /h	2	
Length Y	mm	4800	4629
Increasing degree	°	35	
Height X	m	2.4	
Weight	kg	450	560

Increasing belt 22

WATROMAT® Increasing belt

Increasing belt for sludge with minimum 20 % dried solids, transport sludge from bunker (220XXXXXX) to the belt dryer (210100XXX).

Delivery 1 pc increasing belt
Not included Control cabinet



	type	WSC54/18	WSC49/18	WSC83/18	WSC139/18
220600203	SS304	€ 42240	€ 44385	€ 54945	€ 64297
Bunker	type	WBU00X-05	WBU10-25	WBU10-35	
Belt dryer	Type	WBD04-120		WBD120D-240D	
Electric power	kWh	2.2		3	
Capacity	m ³ /h	2		3	
Length Y	mm	5400	4900	8329	13900
Increasing degree	°	18		18	
Height X	m	2.4		4.8	>4.8
Weight	kg	250	280	360	380



Bypass conveyor 22

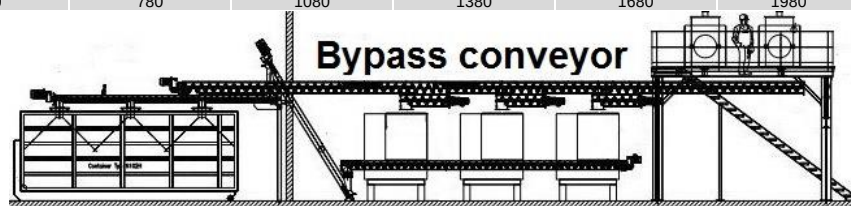
WATROMAT® Bypass conveyor

Bypass conveyor for sludge with minimum 20 % dried solids, transport sludge from screw press (110100XXX) to belt dryer (210100XXX) or to transport container (bypass sludge dryer), every 3 m outlets for connection with dosing conveyor (220900XXX).

Delivery 1 pc bypass conveyor
Not included Control cabinet



		type	WSC45	WSC75	WSC105	WSC135	WSC165	WSC195
220600302	Hot galvanized	€	46801	53419	62212	68819	75742	82242
220600303	SS304	€	70201	80129	93317	103229	113612	123362
220600304	SS316	€	79561	90813	105760	116993	128761	139811
Discharge opening		pcs	1	2	3	4	5	6
Electric power		kWh	0.35	0.55	0.75	1.1	1.5	2.2
Capacity		m3/h	10					
Length		m	4.5	7.5	10.5	13.5	16.5	19.5
Weight		ka	480	780	1080	1380	1680	1980

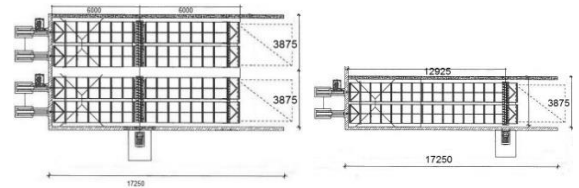


Push rod 22

WATROMAT® Push rod (for bunker)

Push rod for bunker for sludge with minimum 20 % dried solids. Bunker walls made of concrete. One side open for truck loading, receives sewage sludge to operate belt dryer 210100XXX continuously, push rod discharge floor with 2-rod version with hydraulic stations, push rod transport sludge into chain conveyor 220900XXX.

Delivery 2 or 4 pcs push rod, 2 or 4 pcs hydraulic stations
Not included Bunker walls (concrete), control cabinet



		type	WBU150	WBU300
220800103	SS304	€	264149	455783
Volume geometric	m3		150	2x150
Electric power hydraulic station	kWh		2x5.5	4x5.5
Length and width push rod	m		12 x 3.8	
Length bunker X	m		17.25	
Width bunker	m		3.875	2x3.875
Height bunker Z	m		3.7	
Weight empty	t		5	10
Weight full	t		15	30



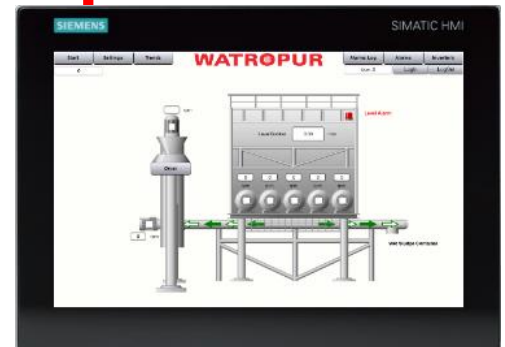
Control cabinet push rod 22

WATROMAT® Control cabinet push rod

Control cabinet, execution as WATROMAT® master or as slave, master with Siemens touch panel MTP1200 Unified Comfort, slave without touch panel, Profinet bus, PLC Siemens S7-1512, IO system ET200SP, power distribution, Siemens Sirius, switching and protective devices, N-disconnecting, emergency stop relay, command and signaling devices, 4 relays for hardwire voltage free signal exchange (24VAC/DC), Start/Stop, no sludge, in operation, permission from client, all wired and tested.

- Power code 1: 3 x 400 V / 1 x 230 V / 50 Hz (3 phases, neutral, earth)
- Power code 2: 3 x 480 V (3 phases, earth) / 1 x 110 V / 60 Hz (phase, neutral, earth)

Delivery 1 pc control cabinet
Not included



		type	WELWBU150	WELWBU300
200800900	Polyester	€	19865	25652
Bunker (chain and dosing conveyor included)	type		WBU150	WBU300
Length X	mm		600	
Width Y	mm		800	
Height Z	mm		2000	
Weight	kg		30	35



Chain conveyor 22

WATROMAT® Chain conveyor

Chain conveyor for sludge with minimum 20 % dried solid, collect sludge from push rod (220XXXXXX) and transport it up over the belt dryer to the dosing conveyor (220XXXXXX), Z-shape, horizontal-increasing-horizontal.

Delivery 1-10 pcs segments chain conveyor
Not included Control cabinet



		type	WCC2	WCC3	WCC4	WCC5
220900102	Hot galvanized	€	98615	137885	181500	213400
220900103	SS304	€	142992	199933	263175	309430
220900104	SS316	€	152853	213722	281325	330770
Outlets	type		2	3	4	5
Capacity sludge	m3/h		2	4	6	8
Electric power	kWh				4	
Capacity	m3/h			10		
Length horizontal (below push rod)	m		5		10	
Length increasing (45°)	m			6		
Length horizontal (over belt dryer inlets)	m		5	9	13	17
Width	m				0.5	
Height	m				0.5	
Weight	t		2.0	2.5	3.0	3.6



Dosing conveyor 22

WATROMAT®

Dosing conveyor

Dosing conveyor for sludge with minimum 20 % dried solids, transport sludge from bypass conveyor (220XXXXXX) or chain conveyor (220XXXXXX) to belt dryer (210100XXX).

Delivery

Not included

1 pc dosing conveyor

Control cabinet

		type	WSC25
220900202	Hot galvanized	€	10852
220900203	SS304	€	13822
220900204	SS316	€	14802
Capacity sludge		m3/h	2
Electric power		kWh	0.35
Capacity		m3/h	2
Lenght		m	2.5
Weight		kg	480



Collecting spiral 23

WATROMAT® Collecting spiral

Collecting spiral for dry sludge with minimum 80 % dried solids, is installed inside at end of belt dryer (210XXXXXX), collect dry sludge and transport it into dry sludge conveyor spiral (230XXXXXX)

Delivery 1 pc collecting spiral
Not included Control cabinet

	type	WSC09	WSC12
230100103	SS304Collecting spiral	€ 3592	4054
Belt dryer	type	WBD04-08	WBD15-120
Electric power	kWh	0.37	
Capacity	m ³ /h	0.5	
Length	mm	900	1200
Weight	kg	4	15



Bagging spiral 23

WATROMAT® Bagging spiral

Bagging spiral for sludge with minimum 80 % dried solids, flexible spiral, maximum length 24 m with maximum 3 pcs of 45 degree elbows and maximum feed height of 2,4 m, elbows with radius 1.5 m need minimum 3,6 length for 2,4 m height, transport sludge from belt dryer (210XXXXXX) to bagging point (230XXXXXX), beginning of spiral with end piece and intake boot, end of the spiral with control unit, full flow detector and motor, between tubes, elbows and outlet drops, length depend on type of bagging point (230600100).

Delivery 1 pc flexible spiral, 1 pc motor, 1 pc control unit, 1 pc end piece,
pcs tubes, elbows, intake boot, outlet drops, tube connectors with clamps
Not included Bottom/wall fixation for tubes, control cabinet



	type	WSC09	WSC12	WSC15	WSC18	WSC21	WSC25
230100200	Bagging spiral	€ 4235	4895	5555	6215	6875	7535
Pipe (1 pc = 3 m)	pcs	3	4	5	6	7	8
Intake boot	pcs	1	2	3	4	5	6
Outlet drop	pcs	3	4	5	6	7	8
Tube clamps	pcs	5	10	15	20	25	35
Length X	m	9	12	15	18	21	24
Weight	kg	65	95	125	155	185	215

230100210	Motor	€ 775
Electric power consumption	kW	0.75
Capacity	m ³ /h	0.5

230100220	Control unit with full flow detector	€ 780
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230100230	Flexible spiral	€/m 183
Weight	kg/m	1.5

230100240	End piece	€ 265
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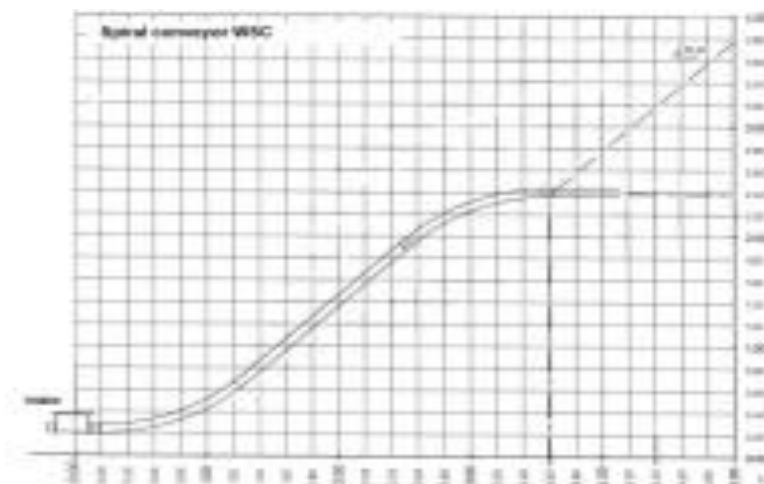
230100255	Intake boot	€ 1245
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230100260	Pipe PVC	€/m 385
Weight	kg/m	0.6

230100270	Elbow	€ 185
Weight	kg	0.6



230100280	Outlet drop	€/m 366
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Bagging point 23

WATROMAT® Bagging point

Bagging point for dry sludge with minimum 80 % dried sludge, modular frames for bag volume 1 m3 (elevation 2 m3, 230600200), height adjustable hooks, receive sludge from dry sludge conveyor spiral (230XXXXXX)I

Delivery 1 pc bagging point
Not included Bagging spiral, control cabinet



	type	WLS1	WLS2	WLS3	WLS4	WLS5
230100303	SS304	€ 17050	25193	29293	33308	375363
Bag volume	m3	1	2	3	4	5
Height free below	mm			1400		
Length X	mm	1300	2600	3900	5200	6500
Width Y	mm			1300		
Height Z	mm			2140		
Weight	kg	150	400	500	600	1200

	type	WLS1E
230100313	Elevation bagging point	€ 4312
Bag volume	m3	2
Elevation	mm	800
Height free below	mm	2200
Weight	kg	24



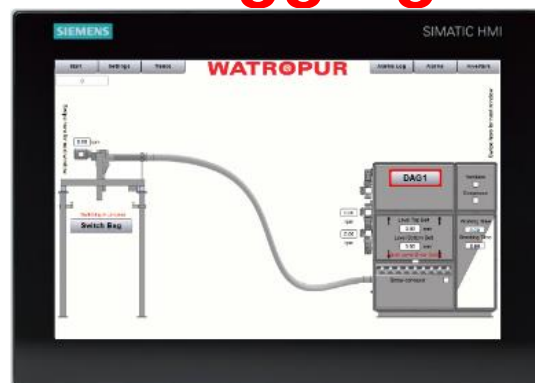
Control cabinet bagging 23

WATROMAT® Control cabinet bagging

Control cabinet, execution as WATROMAT® master or as slave, master with Siemens touch panel MTP1200 Unified Comfort, slave without touch panel, Profinet bus, PLC Siemens S7-1512, IO system ET200SP, power distribution, Siemens Sirius, switching and protective devices, N-disconnecting, emergency stop relay, command and signalling devices, 4 relays for hardwire voltage free signal exchange (24VAC/DC), Start/Stop, no sludge, in operation, permission from client, all wired and tested.

- Power code 1: 3 x 400 V / 1 x 230 V / 50 Hz (3 phases, neutral, earth)
- Power code 2: 3 x 480 V (3 phases, earth) / 1 x 110 V / 60 Hz (phase, neutral, earth)

Delivery 1 pc control cabinet
Not included



	type	WELWLS
230100900	Polyester	€ 9730
Length X	mm	600
Width Y	mm	300
Height Z	mm	800
Weight	kg	30



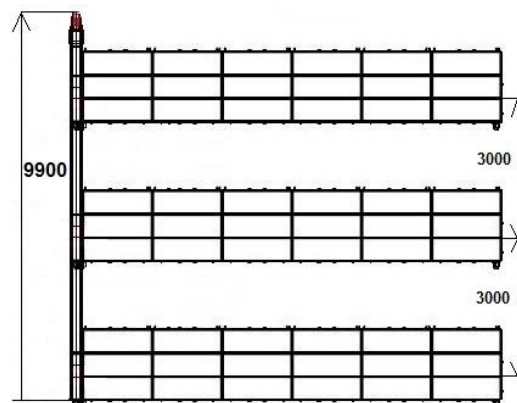
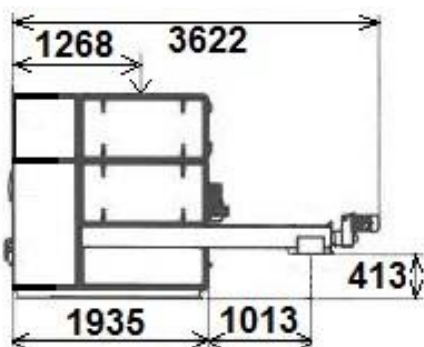
Collecting conveyor 23

WATROMAT® Collecting conveyor

Collecting conveyor for sludge with minimum 60 % dried solids, is installed under outlet of belt dryer (210XXXXXX), collect the sludge from the belt dryer and transport it to the increasing conveyor (210200XXXX).

Delivery 1 pc collecting conveyor
Not included Control cabinet

	type	WSC24	WSC61	WSC99	WSC136
230200103	SS304	€ 24546	€ 29685	€ 34586	€ 38586
230200104	SS316	€ 33137	€ 40075	€ 46691	€ 52091
Inlet connections	pcs	1	2	3	4
Electric power	kWh	1.1			
Capacity	m ³ /h	2			
Length	mm	2400	6150	9900	13650
Weight	kg	185	330	495	685



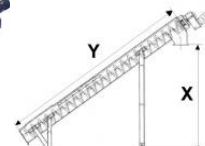
Increasing conveyor 23

WATROMAT® Increasing conveyor

Increasing conveyor, for sludge with minimum 60 % dried solids, transport sludge from collecting conveyor (230XXXXXX) to bagging conveyor (230XXXXXX), reversible conveyor (230XXXXXX) or distribution conveyor (230XXXXXX).

Delivery 1 pc dry increasing conveyor, 2 pcs support
Not included Control cabinet

	type	WSC48/35	WSC55/35	WSC65/35	WSC85/35
230200203	SS304	€ 35350	€ 38650	€ 49400	€ 59650
230200204	SS316	€ 45400	€ 56400	€ 75400	€ 88400
Length Y	mm	4800	5500	6500	8500
Used for container (page 52)	type	1xWTC	2xWTC	1xWGM	2xWGM
Electric power	kWh	3			
Capacity	m ³ /h	2			
Increasing degree	°	35			
Height X	m	2.4	2.9	3.4	3.8
Weight	kg	450	580	710	850



Distribution conveyor 23

WATROMAT® Distribution conveyor (spiral roll off container)

Distribution conveyor for loading roll off containers (roll off container must be equipped with internal spiral conveyor) for dry sludge with minimum 60 % dried solids, container filling level maximum 90 %, transport sludge horizontal from increasing conveyor (230XXXXXX) to roll off container outlets, outlets with flexible telescope tube, flange connection, shut-off pneumatically valve with switch, compressed air supply >6 Bar, vertical supports between containers

Delivery 1 pc distribution conveyor
Not included Roll off container with internal spiral conveyor, control cabinet



Spiral roll off container view inside

	type	WSC5	WSC8	WSC11	WSC14	WSC17
230300303	SS304	35500	43903	48630	53280	58124
Outlets	pcs	1	2	3	4	5
Container height	mm			2825		
Length conveyor	m	5	8	11	14	17
Electric power	kWh			2.2		
Capacity	m3/h			10		
Weight	kg	340	480	620	760	900



Distribution conveyor 23

WATROMAT® Distribution conveyor (Big Bag)

Distribution conveyor for loading Big Bag's with dry sludge with minimum 60 % dried solids, transport sludge horizontal from increasing conveyor (230XXXXXX) to Big Bag's, extra outlet for overflow, outlet with flange connection, shut-off pneumatically valve with switch, compressed air supply >6 Bar, inlet pipes with sack holder and clamping device, option: one-sided operating gangway with stair, railing and light grid cover

Delivery 1 pc big bag conveyor
Not included Big Bag's, gangway with stair and railing, control cabinet



	type	WSC5	WSC8	WSC11	WSC14	WSC17
230300402	Steel painted	35500	43903	48630	53280	58124
Loading points for Big Bag's	pcs	2	4	6	8	10
Bag volume max.	m3	2x2	4x2	6x2	8x2	10x2
Height free below	m			1.4		
Length conveyor	m	5	8	11	14	17
Electric power	kWh			2.2		
Capacity	m3/h			10		
Length bagging frame (without extra outlet)	m	2.9	5.7	8.6	11.4	14.25
Width (without gangway)	m			1.1		
Height (inlet connection)	mm			3.2		
Weight	kg	340	480	620	760	900



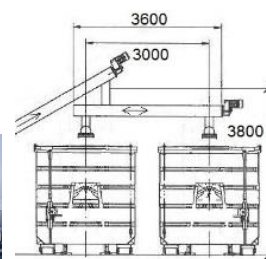
Reversible conveyor 23

WATROMAT® Reversible conveyor

Reversible conveyor for distribution of sludge with minimum 60 % dried solids, transport sludge horizontal from increasing conveyor (230XXXXXX) to distribution conveyors with winch (230XXXXXX), shut-off pneumatically valve with switch for third outlet, motor for forward and backward transport, need for fixation support console from loading conveyor with winch (230XXXXXX).

Delivery 1 pc reversible conveyor
Not included Support console, control cabinet

	type	WSC36	WSC66
230300602	SS304	34650	38846
Outlets	pcs	2	3
Electric power	kWh	0.75	
Capacity	m ³ /h	2	
Length	mm	3600	6600
Weight	kg	460	500



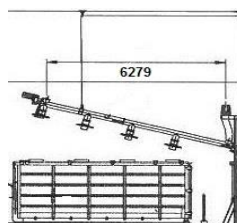
Distribution conveyor 23

WATROMAT® Distribution conveyor (with winch)

Distribution conveyor for loading roll off containers with minimum 60 % dried solids, container filling level maximum 80 %, transport sludge horizontal from increasing conveyor (230XXXXXX) or reversible conveyor (230XXXXXX) to loading points from roll off container, last loading point with full flow sensor, roll off container with or without cover, winch (mounted on the wall) for lifting the conveyor 6-25 degree.

Delivery 1 pc distribution conveyor, 1 pc support console, 1 pc winch
Not included Roll off container, cover, guides, winch fixing points, control cabinet

	type	WSC38/6-25	WSC48/6-25	WSC58/6-25	WSC68/6-25
230300312	SS304	44865	51250	58620	65460
Loading points (outlets)	pcs	1	2	3	4
Used for container (type page 52)	type	WTC	WGM15	WGM20	WGM30
Length Y	mm	3850	4850	5850	6850
Electric power	kWh	0.75			
Capacity	m ³ /h	2			
Increasing degree (winch)	°	6-25			
Weight	kg	450	580	710	850



Control cabinet conveyor 23

WATROMAT® Control cabinet conveyor

Control cabinet, execution as WATROMAT® master or as slave, master with Siemens touch panel MTP1200 Unified Comfort, slave without touch panel, Profinet bus, PLC Siemens S7-1512, IO system ET200SP, power distribution, Siemens Sirius, switching and protective devices, N-disconnecting, emergency stop relay, command and signaling devices, 4 relays for hardwire voltage free signal exchange (24VAC/DC), Start/Stop, no sludge, in operation, permission from client, all wired and tested.

- Power code 1: 3 x 400 V / 1 x 230 V / 50 Hz (3 phases, neutral, earth)
- Power code 2: 3 x 480 V (3 phases, earth) / 1 x 110 V / 60 Hz (phase, neutral, earth)

Delivery 1 pc cabinet
Not included:



	type	WELWSC1-3	WELWSC4-6	WELWSC7-9
230300900	Polyester	14658	16985	18250
Numbers of conveyors	pcs	1-3	4-6	7-9
Length X	mm	600		
Width Y	mm	300		
Height Z	mm	800		
Weight	kg	30	35	40



Silo 23

WATROMAT® Silo

Silo system for dry sludge, sludge with minimum 80% dry solids, for direct loading onto trucks or tank vehicles, silo can be driven under, consisting of silo cell on steel platform, silo cell outer jacket insulation, loading device with cellular wheel lock and loading set, ideal loading conveyor (angle bucket elevator).

Delivery 1 pc silo
Not included Control cabinet

	type	WSI90
230800101	Steel coated RAL9002	€ 215402
Volume	m3	90
Diameter silo cell	m	3.8
Height	m	21
Weight empty	t	18
Weight full	t	100

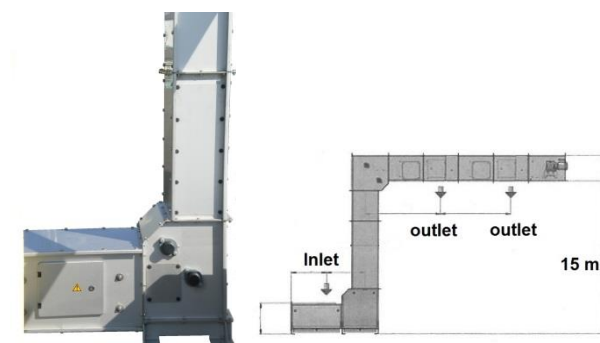


WATROMAT® Pendulum bucket conveyor

Pendulum bucket conveyor for dry sludge, sludge with minimum 80% dry solids, for vertical loading of silo, the swing buckets are driven with rubber chain, no dust explosion risks, Z-shape.

Delivery 1 pc pendulum bucket conveyor
Not included Control cabinet

	type	WPE15
230800205	Polyamide	€ 153610
Capacity	m3/h	2
Electric power	kW	0.75
Capacity	m3/h	2
Height	m	15
Weight empty	t	2
Weight full	t	4



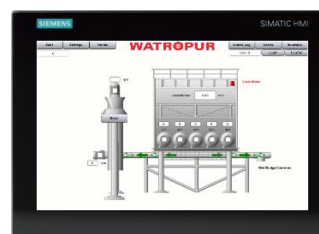
Control cabinet silo 23

WATROMAT® Control cabinet silo

Control cabinet, execution as WATROMAT® master or as slave, master with Siemens touch panel MTP1200 Unified Comfort, slave without touch panel, Profinet bus, PLC Siemens S7-1512, IO system ET200SP, power distribution, Siemens Sirius, switching and protective devices, N-disconnecting, emergency stop relay, command and signalling devices, 4 relays for hardwire voltage free signal exchange (24VAC/DC), Start/Stop, no sludge, in operation, permission from client, all wired and tested.

- Power code 1: 3 x 400 V / 1 x 230 V / 50 Hz (3 phases, neutral, earth)
- Power code 2: 3 x 480 V (3 phases, earth) / 1 x 110 V / 60 Hz (phase, neutral, earth)

Delivery 1 pc cabinet
Not included



	type	WELWSI
230800900	Polyester	€ 23382
Length X	mm	300
Width Y	mm	400
Height Z	mm	600
Weight	kg	41



Container-dryer

Page Part



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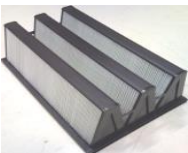
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Page **Part**

Container-dryer

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Drying container

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Air duct

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Filter, heat exchanger

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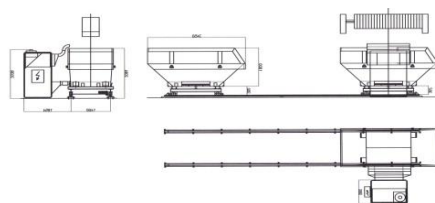
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Container-dryer 30

WATROMAT® Container-dryer

Container-dryer for filter cake sludge from plate and frame filter presses, inlet minimum 25 % dried solids, outlet 90 % dried solids, drying container in the middle under the filter press, steel cables in the fall channel, container maximum 1 m longer than effective filter press chamber length, cake distribution in container homogeneous with flat surface, drying temperature 30°C/86°F, specific electric power consumption 333 W/kg H₂O, noise level <85dBA, sludge pH value 6.0-9.0.

Delivery 1 pc dry air generator with control cabinet
Not included Drying container, dry air duct, wet air duct

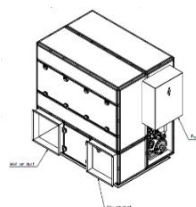


	type		WCD04	WCD08
300100103	SS304	€	80845	111978
Water removal at 10-35°C environment	t/day		0.4	0.8
Electric power	kWh		8	13
Cooling water >3 Bar (24°C)	m ³ /h		0.2	0.3
Drying container volume	m ³		6-30	
Length dry air generator	mm		1290	1910
Width dry air generator	mm		980	
Height dry air generator	mm		1910	
Weight	t		0.8	1.4

WATROMAT® Container-dryer

Container-dryer for filter cake sludge from plate and frame filter presses, inlet minimum 25 % dried solids, outlet 90 % dried solids, drying container in the middle under the filter press, steel cables in the fall channel, container maximum 1 m longer than effective filter press chamber length, cake distribution in container homogeneous with flat surface, drying temperature 30°C/86°F, specific electric power consumption 333 W/kg H₂O, noise level <85dBA sludge pH value 6.0-9.0.

Delivery 1 pc container dryer with control panel
Not included Drying container, dry air duct, wet air duct



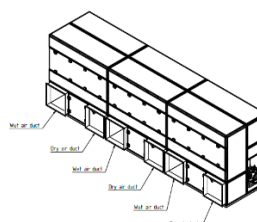
	type		WCD15
300100203	SS304	€	117027
Water removal at 10-35°C environment	t/day		1.5
Electric power	kWh		20
Cooling water >3 Bar (24°C)	m ³ /h		0.5
Drying container volume	m ³		9-30
Length dry air generator	mm		1910
Width dry air generator	m		1240
Height dry air generator	m		1910
Dry air duct (right side)	pc		1
Dry air duct connection dimension inside	mmxmm		570x570
Wet air duct	pc		1
Wet air duct connection dimensions inside	mmxmm		570x570
Weight empty	t		1.5



WATROMAT® Container-dryer

Container-dryer for filter cake sludge from plate and frame filter presses, inlet minimum 25 % dried solids, outlet 90 % dried solids, drying container in the middle under the filter press, steel cables in the fall channel, container maximum 1 m longer than effective filter press chamber length, cake distribution in container homogeneous with flat surface, drying temperature 30°C/86°F, specific electric power consumption 333 W/kg H₂O, noise level <85dBA sludge pH value 6.0-9.0.

Delivery 1 pc container dryer, 1 pc control panel
Not included Drying container, dry air ducts, wet air ducts



	type		WCD30	WCD45	WCD60
300100203	SS304	€	157321	197998	237014
Water removal at 10-35°C environment	t/day		3	4.5	6
Electric power	kWh		40	60	80
Cooling water >3 Bar (24°C)	m ³ /h		1	1.5	2
Drying container volume	m ³		15-30	20-30	30
Length dry air generator	mm		3795	5680	7565
Width dry air generator	m		1240	1240	1240
Height dry air generator	m		1910	1910	1910
Dry air duct (right side)	pc		2	3	4
Dry air duct connection dimension inside	mmxmm		570x570	570x570	570x570
Wet air duct (left side)	pc		2	3	4
Wet air duct connection dimensions inside	mmxmm		570x570	570x570	570x570
Weight empty	t		3.0	4.5	6



Control cabinet container-dryer 30

WATROMAT® Control cabinet container-dryer

Control cabinet, execution as WATROMAT®-cabinet, Siemens Sirius, switching and protective devices, command and signalling devices, wired and tested

- Power code 1: 3x400V/1x230V/50Hz (3 phases, neutral, earth)
- Power code 2: 3x480V (3 phases, earth), 1x110V/60Hz (phase, neutral, earth)

Delivery 1 pc cabinet
Not included

	type	WELWCD04	WELWCD08
300100900	Polyester	11942	12476
Length X	mm	300	
Width Y	mm	400	600
Height Z	mm	600	800
Weight	kg	30	40



Control cabinet container-dryer 30

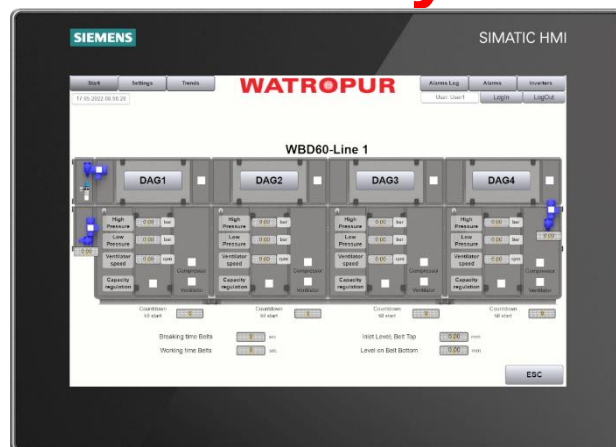
WATROMAT® Control cabinet container-dryer

Control cabinet, execution as WATROMAT® master or as slave, master with Siemens touch panel MTP1200 Unified Comfort, slave without touch panel, Profinet bus, PLC Siemens S7-1512, IO system ET200SP, power distribution, Siemens Sirius, switching and protective devices, N-disconnecting, emergency stop relay, command and signaling devices, 4 relays for hardwire voltage free signal exchange (24VAC/DC), Start/Stop, no sludge, in operation, permission from client, all wired and tested.

- Power code 1: 3 x 400 V / 1 x 230 V / 50 Hz (3 phases, neutral, earth)
- Power code 2: 3 x 480 V (3 phases, earth) / 1 x 110 V / 60 Hz (phase, neutral, earth)

Delivery 1 pc cabinet

Not included



	type	WELWCD15
300100900	Polyester	15125
Length X	mm	300
Width Y	mm	600
Height Z	mm	800
Weight	kg	85



	type	WELWCD30	WELWCD45	WELWCD60
300100900	Steel coated	19525	21432	28992
Length X	mm		400	
Width Y	mm		800	
Height Z	mm		2100	
Weight	kg	120	130	140



Drying container 31

WATROMAT® Drying container

Drying container to use with container dryer 300100100, move and discharge with truck.

Delivery 1 pc drying container
Not included Cover 310200115 and air inlet cover 310200121



	type	WTC06	WTC09	WGM15	WGM20	WGM30
310200101	Steel painted RAL3020	13355	13794	14489	16315	17378
Used with dryer	type	WCD04-15		WCD04-30	WCD04-45	WCD04-60
Volume	m ³	6	9	15	20	30
Capacity	t	3-5	4-7	5-10	8-15	12-20
Length X	m	3.5		4.5	5.7	6.7
Width Y	m	1.6		2		
Height Z	m	1.6	2	2	2.2	2.2
Weight	t	0.8	1.0	1.8	2.6	3.1




	type	WTC06cover	WTC09cover	WGM15cover	WGM20cover	WGM30cover
310200115	Cover PVC	1804	1978	2072	2172	2370
Length X	m	3.5		4.5	5.7	6.7
Width Y	m	1.6		2		
Weight Z	kg	16	20	36	48	62




	type	Wcover
310200121	Cover blow in opening	686
Length X	m	0.57
Height	M	0.1
Weight	kg	25



WATROMAT® Car

Car for moving container 310200100 on rails with electric motor, remote control

Delivery 1 pc car
Not included

	type	WTW0WTC	WTW90WTC
310200201	Steel painted RAL3020	7453	8749
Used with container	type	WTC	WTC
Track width	mm	1400	2000
Electric power	kWh	0.35	
Length X	mm	2100	1500
Width Y	mm	1500	2100
Height Z	mm	360	
Weight	t	0.33	0.38



Air duct 32

WATROMAT® Dry air duct

Dry air duct, connect drying container with dry air generator.

Material Galvanized
Delivery 1 pc air duct
Not included



	type	TLKWCD04	TLKWCD08	TLKWCD15
320100103	Galvanized	€ 2197	2378	2560
Used for dryer	type	WCD04	WCD08	WCD15
Dryer outlet connection	mmxmm		570x570	
Container inlet connection	mmxmm		570x100	
Height Z	mm		570	
Weight	kg	20	23	23



	type	Cuff04	Cuff08	Cuff15
320100202	Cuff	€ 1192	1433	1735
Length X	m	1	1.5	2
Width Y	m	0.4		
Height Z	m	0.25		
Weight	kg	12	14	18



	type	TLKseal
320100305	Sealing	€ 310
Length X	m	2
Weight	kg	41



WATROMAT® Wet air duct

Wet air duct, connect drying container with dry air generator.

Delivery 1 pc air duct
Not included



	type	RLKWCD04	RLKWCD08	RLKWCD15
320200102	Galvanized	€ 2319	2938	3570
Used for dryer	type	WSD04	WSD08	WSD15
Length X	m	1.1	1.5	2
Width Y	m		0.7	
Height Z	m		0.9	
Weight	kg	20	25	28



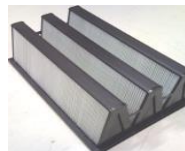
Filter 33

WATROMAT® Filter

Compact filter, prefilter, mounting frame for dry air generator 330100XXX. WCD04-08: 1 pc, WCD15: 2 pcs, WCD30: 4 pcs, WCD45: 6 pcs, WCD60: 8 pcs.

Delivery 1 pc
Not included

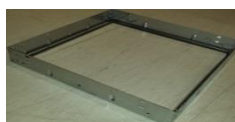
	type	869.592.292 (after 2016)	892.592.292 (before 2015)
330200105	Filter	€ 576	€ 612
Length X	mm	869	897
Width Y	mm	592	592
Height Z	mm	292	380
Weight	kg	7	7



	type	869.592.20
330200203	Prefilter SS304	€ 828
Length X	mm	869
Width Y	mm	592
Height Z	mm	20
Weight	kg	3



	type	887.609.70
330200303	Mounting frame SS304	€ 460
Length X	mm	887
Width Y	mm	609
Height Z	mm	70
Weight	kg	2



Heat exchanger 33

WATROMAT® Heat exchanger

Heat exchanger, cooling compressor and fan for container dryer 300100XXX. Evaporator for cooling and condenser for heating of drying air cycle.

Delivery 1 pc
Not included

	type	EVAP04	EVAP08	EVAP15
330300103	Evaporator SS304	€ 8319	€ 11635	€ 14647
330300104	Evaporator SS316	€ 10879	€ 15215	€ 19154
Belt dryer	type	WBD04	WBD08	WBD15-240D
Length X	mm	975	1680	1810
Width Y	mm	310	310	300
Height Z	mm	540	420	620
Weight	kg	54	71	90



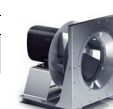
	type	COND04	COND08	COND15
330300203	Condenser SS304	€ 9032	€ 12056	€ 16162
330300204	Condenser SS316	€ 11811	€ 15766	€ 21135
Belt dryer	type	WBD04	WBD08	WBD15-240D
Length X	mm	975	1680	1730
Width Y	mm	370	360	350
Height Z	mm	540	420	620
Weight	kg	69	85	113



	type	COMP04	COMP08	COMP15
330300501	Cooling compressor	€ 4896	€ 9456	€ 13542
Belt dryer	type	WBD04	WBD08	WBD15-240D

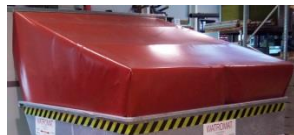


	type	VENT04	VENT08	VENT15
330300602	Ventilator	€ 4682	€ 6238	€ 7488
Belt dryer	type	WBD04	WBD08	WBD15-240D



Skip-dryer

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Skip-dryer

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Drying skip

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Air duct

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Big Bag hopper

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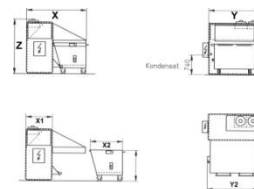
Skip-dryer 40

WATROMAT® Skip-dryer

Skip-dryer for filter cake sludge from plate and frame filter presses, sludge from industrial or municipal waste water treatment plants, inlet minimum 30 % dried solids, outlet 90 % dried solids, drying container ideally filled up in the middle under the filter press, steel cables in the fall channel, cake distribution in container homogeneous with flat surface, drying temperature 30°C/86°F, specific electric power consumption 333 W/kg H₂O, noise level <75dBA, heat exchangers made of copper, sludge pH value 6.0-9.0.

Delivery 1 pc dry air generator with control cabinet, 1 pc dry air duct, 1 pc wet air duct
Not included Drying skip

	type	WSD01	WSD04	WSD08
400100103	SS304	31867	50820	70842
Water removal at 10-35 °C environment	t/day	0.1	0.4	0.8
Electric power	kWh	2.6	7.9	12.9
Volume drying skip	liter	500	1320-1700	1320-1700
Length X	mm	1691	2225	
Width Y	mm	980	1918	2416
Height Z	mm	1490	2035	
Weight	t	0.4	0.6	0.8

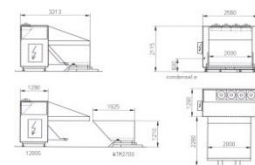


WATROMAT® Skip-dryer

Skip-dryer for filter cake sludge from plate and frame filter presses, sludge from industrial or municipal waste water treatment plants, inlet minimum 30 % dried solids, outlet 90 % dried solids, drying container ideally filled up in the middle under the filter press, steel cables in the fall channel, cake distribution in container homogeneous with flat surface, drying temperature 30°C/86°F, specific electric power consumption 333 W/kg H₂O, noise level <75dBA, heat exchanger made of copper, sludge pH value 6.0-9.0.

Delivery 1 pc dry air generator with control cabinet, 1 pc dry air duct, 1 pc wet air duct
Not included Drying skip

	type	WSD12	WSD16	WSD20	WSD24
410100203	SS304	85020	97282	116563	128671
Water removal at 10-35 °C environment	t/day	1.2	1.6	2	2.4
Electric power	kWh	16	21	26	31
Volume drying skip	liter	1700-3700		2700-3700	
Length X	mm	3213		3780	
Width Y	mm	2560		3800	
Height Z	mm	2115		2115	
Weight	t	1.5	1.6	2.1	2.2



Control cabinet skip-dryer 40

WATROMAT® Control cabinet skip-dryer

Control cabinet, execution as WATROMAT®-cabinet, Siemens Sirius, switching and protective devices, command and signalling devices, wired and tested

- Power code 1: 3x400V/1x230V/50Hz (3 phases, neutral, earth)
- Power code 2: 3x480V (3 phases, earth), 1x110V/60Hz (phase, neutral, earth)

Delivery 1 pc cabinet
Not included

	type	WEL64WSD01	WEL64WSD04	WEL64WSD08	WEL86WSD16	WEL86WSD24
400100900	Polyester	8063	8756	10307	12892	15103
Skyp dryer	type	WSD01	WSD02	WSD08	WSD12-16	WSD20-24
Length X	m	400			600	
Width Y	m	300			300	
Height Z	m	600			800	
Weight	kg	18	28	42	52	66



	type	MTR122
400100915	Temperatur controller	477



Filter 40

WATROMAT® Filter

Filter for skip dryer 400100100, WSD01: 1 pc, WSD04: 2 pcs, WSD08: 3 pcs, WSD12: 4 pcs, WSD16: 4 pcs, WSD20: 5 pcs, WSD24: 5 pcs.

Delivery 1 pc
Not included

	type	490.490.47
400200105	Filter	€ 178
Length X	mm	490
Width Y	mm	490
Height Z	mm	47
Weight	kg	1.1



	type	507.507.70
400200113	Filter mounting frame SS304	€ 186
Length X	mm	507
Width Y	mm	507
Height Z	mm	70
Weight	kg	0.2



Heat exchanger 40

WATROMAT® Heat exchanger

Heat exchangers, cooling compressor and fan for skip dryer 400100XXX.

Delivery 1 pc
Not included

	type	EVAP01	EVAP04	EVAP08	EVAP16	EVAP24
400300102	Evaporator copper	€ 1862	2648	3421	5879	7235
400300103	Evaporator SS304	€ 3650	7071	9890	12450	14960
400300104	Evaporator SS316	€ 4150	8319	11635	14647	18560
Used for skip dryer	type	WSD01	WSD04	WSD08	WSD12-16	WSD20-24
Length X	m	620	975	1680	1810	3120
Width Y	m	360	310	310	300	540
Height Z	m	280	540	420	620	380
Weight	kg	30	54	71	90	140



	type	COND01	COND04	COND08	COND16	COND24
400300202	Condenser copper	€ 1986	2856	4276	7054	8682
400300203	Condenser SS304	€ 3856	7677	11828	14162	15150
400300204	Condenser SS316	€ 4350	9032	15092	19050	21162
Used for skip dryer	type	WSD01	WSD04	WSD08	WSD12-16	WSD20-24
Length X	m	620	975	1680	1730	3120
Width Y	m	360	370	360	350	540
Height Z	m	280	540	420	620	380
Weight	kg	45	69	85	113	180



	type	EXTC01	EXTC04	EXTC08	EXTC16	EXTC24
400300302	External condenser copper	€ 1345	1868	2965	4980	6780
Used for skip dryer	type	WSD01	WSD04	WSD08	WSD12-16	WSD20-24
Electric power	kWh	0.1	0.15	0.25	0.45	0.90
Length X	m	280	920	1620	2120	3120
Width Y	m	280	540	420	540	540
Height Z	m	280	250	310	280	380
Weight	kg	15	99	125	155	180



	type	COMP01	COMP04	COMP08	COMP16	COMP24
400300500	Cooling compressor	€ 3150	4896	9456	13542	27084
Used for skip dryer	type	WSD01	WSD04	WSD08	WSD12-16	WSD20-24



	type	VENT01	VENT04	VENT08	VENT16	VENT24
400300600	Ventilator	€ 2850	3640	5488	8560	17120
Used for skip dryer	type	WSD01	WSD04	WSD08	WSD12-16	WSD20-24



Drying skip 41

WATROMAT® Drying skip

Drying skip to use with skip-dryer 400100XXX, discharged with forklift (3t) and tilting traverse 410100XXX, removable perforated base sieve, opening injection for dried air duct, push to handle, tilting mechanism, 2 crane lifting eyes, 4 castors

Delivery 1 pc drying skip with 4 pcs castors
Not included

		type	WSK05	WSK13	WSK17
410100102	Hot galvanized	€	3256	6851	8118
410100103	SS304	€	6371	12582	15299
Used with skip dryer		type	WSD01	WSD04-08	WSD08-16
Volume		liter	500	1300	1700
Effectiv load		kg	400	1000	1500
Length X		mm	1000	1325	1325
Width Y		mm	980	1680	2180
Height Z		mm	1054	1154	1154
Weight		kg	135	250	300



WATROMAT® Tilting traverse

Tilting traverse to empty drying skip 410100XXX, with third leg to use for forklift (3t), cable operated from forklift driver's seat, can be secured to prevent slipping and unintentional emptying

Delivery 1 pc tilting traverse, 1 pc third leg
Not included

		type	WST05	WST13	WST17
410100151	Steel painted RAL9035	€	2672	3686	4142
Distance between fork pockets		mm	250	450	590
Width of fork pockets		mm		200	
Height of fork pockets		mm		80	
Weight		kg	80	145	173



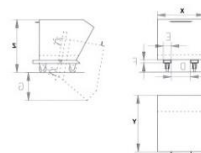
Drying skip 41

WATROMAT® Drying skip

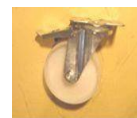
Drying skip to use with skip-dryer 400100XXX, discharged with forklift (3t), removable perforated base sieve, opening injection for dried air duct, push to handle, fork sleeves 200x60 mm, tilting mechanism, 4 castors, cable operated from forklift driver's seat

Delivery 1 pc drying skip with 4 pcs castors
Not included

		type	WKB04	WKB08	WKB12
410100202	Hot galvanized	€	3920	7238	10874
410100203	SS304	€	6076	11219	16853
Used with skip dryer		type	WSD01	WSD04-08	WSD08-12
Volume		liter	400	800	1200
Effectiv load		kg	320	530	800
Fork sleeves (A)		mm	200	495	640
Length X		mm	1440		1640
Width Y		mm	700		1280
Height Z		mm	904	1004	1304
Weight		kg	205	256	265



		type	Fix	Swivel
410100300	Castor	€	156	266
Effectiv load		kg	450	450
Lock backwards		type	No	Yes
Height		mm		224
Weight		kg	5	6



		type	Fix	Swivel
410100310	Castor high load	€	314	387
Effectiv load		kg	800	590
Lock backwards		type	No	Yes
Height		mm		224
Weight		kg	5	6

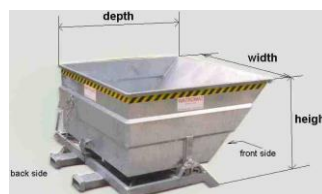
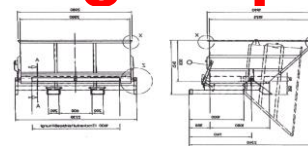


Drying skip 41

WATROMAT® Drying skip

Drying skip to use with skip dryer 410100XXX, transported and discharged with forklift (5 t).

Delivery 1 pc drying skip
Not included



	type	WTM27	WTM37
410200102	Hot galvanized	€ 10542	€ 12907
410200103	SS304	€ 15813	€ 19360
Used with dryer	type	12-16	16-24
Volume	liter	2700	3700
Usefull weight	t	2.1	3
Length X	mm	2340	
Width Y	mm	2230	
Height Z	mm	1210	1470
Weight	t	2.1	2.6

	type	WTMbrake
400200103	Tipping brake	€ 1860



Dry air duct 42

WATROMAT® Dry air duct

Dry air duct, guide dry air from skip dryer to drying container.

Delivery 1 pc dry air duct
Not included

	type	TLK01WSK05	TLK04WSK13	TLK08WSK17	TLK12WSK17
420100103	SS304	€ 2166	€ 2999	€ 3260	€ 3810
Length X	mm	610	1100	1630	
Width Y	mm	320	380	380	
Height Z	mm	300	520	530	
Weight	kg	8	18	25	26



	type	TLK12WTM27	TLK16WTM27	TLK20WTM37	TLK24WTM37
420100103	SS304	€ 3977	€ 3977	€ 4197	€ 4197
Length X	m	1710			
Width Y	mm	1370			
Height Z	mm	700			
Weight	kg	35	42	48	54



	type	Seal
420100115	Dry air duct seal	€ 310
Length X	m	2
Weight	kg	0.4



Wet air duct 42

WATROMAT® Wet air duct

Wet air duct, guide wet air from drying container back to skip-dryer.

Delivery 1 pc wet air duct
Not included

	type	RLK01WSK05	RLK04WSK13	RLK08WSK17	RLK12WSK17
420200103	PVC, frame SS304	€ 2085	€ 2467	€ 3546	€ 3790
Length X	mm	800	1530	2030	2340
Width Y	mm	1080	1280	1280	1280
Height Z	mm	500	800	800	800
Weight	kg	6	9	15	19



	type	RLK12WTM27	RLK16WTM27	RLK20WTM37	RLK24WTM37
420200103	PVC, frame SS304	€ 4021	€ 4021	€ 4351	€ 4351
Length X	mm	800	1530	2030	2340
Width Y	mm	1080	1280	1280	1280
Height Z	mm	500	800	800	800
Weight	kg	24	29	34	39



Big-Bag hopper 43

WATROMAT®

Big-Bag hopper

Big Bag hopper to discharge dry sludge into Big Bag's, sludge with minimum 70 % dried solids, hopper made of steel sheet with all-round, reinforced edging, sturdy frame with full-length fork sleeves, with support legs, with 4 hooks under the fork sleeves.

Delivery

Not included

1 pc filling hopper

		type	WHO1
430300101	Steel painted RAL3020	€	5266
Ground lee way		mm	1190
Length X		mm	1980
Width Y		mm	980
Height Z		mm	2050
Hopper opening top		mm	1875x850
Hopper opening bottom		mm	700x500
Weight		kg	221



Transport, Erection Commissioning

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Ship transport	79	51
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Travel costs	83	52
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Erection Commissioning Supervising	84	53
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Land transport 100-1000 km

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Part	Country												
	Destination	km	100	200	300	400	500	600	700	800	900	1000	
		Days	1	2	3	3	3	4	4	4	5	5	
11	Screw press	WSP05	2200	2420	2640	2860	3080	3300	3520	3740	3960	4180	
		WSP15	2904	3194	3485	3775	4066	4356	4646	4937	5227	5518	
		WSP25	3630	3993	4356	4719	5082	5445	5808	6171	6534	6897	
		WSP50	4138	4552	4966	5380	5793	6207	6621	7035	7449	7863	
		WSP75	4598	5058	5518	5977	6437	6897	7357	7817	8276	8736	
11	Platform press	WSP	1828	2010	2193	2376	2559	2741	2924	3107	3290	3472	
		WSP double	3010	3311	3612	3913	4214	4515	4816	5117	5418	5719	
12	Polymer unit	WPL	293	322	351	381	410	439	469	498	527	556	
		WPP	462	508	554	601	647	693	739	785	832	878	
13	Thickener	WTH	4939	5433	5927	6421	6915	7409	7903	8397	8891	9384	
21	Belt dryer	WBD04-08	896	986	1075	1165	1255	1344	1434	1523	1613	1703	
		WBD15-30	1700	1870	2040	2210	2380	2550	2720	2890	3060	3230	
		WBD45-60	3198	3518	3838	4157	4477	4797	5117	5436	5756	6076	
		WBD75	4326	4759	5192	5624	6057	6489	6922	7355	7787	8220	
		WBD90	5032	5535	6039	6542	7045	7548	8051	8555	9058	9561	
		WBD105	5849	6434	7019	7604	8189	8774	9359	9944	10529	11114	
		WBD120	6818	7500	8182	8864	9546	10228	10909	11591	12273	12955	
		WBD120D	6927	7620	8313	9006	9698	10391	11084	11777	12469	13162	
		WBD150D	8330	9163	9996	10829	11663	12496	13329	14162	14995	15828	
		WBD180D	10260	11285	12311	13337	14363	15389	16415	17441	18467	19493	
		WBD210D	11926	13118	14311	15503	16696	17888	19081	20274	21466	22659	
		WBD240D	13504	14854	16205	17555	18906	20256	21606	22957	24307	25658	
21	Platform dryer	WBDXXXD	3825	4208	4590	4973	5355	5738	6120	6503	6885	7268	
22	Bunker	WBU00X	1618	1780	1942	2104	2266	2428	2589	2751	2913	3075	
		WBU5	2366	2603	2840	3076	3313	3549	3786	4023	4259	4496	
		WBU10-25	4385	4823	5262	5700	6139	6577	7016	7454	7893	8331	
		WBU35	4722	5194	5666	6138	6610	7082	7555	8027	8499	8971	
23	Bagging point	WLS1-2	957	1052	1148	1244	1339	1435	1531	1626	1722	1818	
		WLS3-5	1913	2105	2296	2487	2679	2870	3061	3253	3444	3635	
23	Conveyor	WSC	957	1052	1148	1244	1339	1435	1531	1626	1722	1818	
23	Silo	WSI	5677	6244	6812	7380	7947	8515	9083	9650	10218	10786	
30	Container dryer	WCD04-08	896	986	1075	1165	1255	1344	1434	1523	1613	1703	
		WCD15	1113	1225	1336	1447	1558	1670	1781	1892	2004	2115	
		WCD30	1700	1870	2040	2210	2380	2550	2720	2890	3060	3230	
		WCD48-60	2277	2505	2732	2960	3188	3416	3643	3871	4099	4326	
31	Drying container	WTC	1454	1600	1745	1890	2036	2181	2327	2472	2617	2763	
		WGM	2110	2321	2532	2742	2953	3164	3375	3586	3797	4008	
40	Skip-dryer	WSD01	260	286	312	338	364	390	416	442	468	494	
		WSD04-08	980	1078	1176	1274	1372	1470	1568	1666	1764	1862	
		WSD12-16	1119	1231	1343	1455	1567	1678	1790	1902	2014	2126	
		WSD20-24	2060	2266	2472	2678	2884	3090	3296	3502	3708	3914	
41	Drying skip	WSK05	293	323	352	381	411	440	469	499	528	558	
		WSK13	488	537	586	634	683	732	781	830	879	927	
		WSK17	553	608	664	719	774	830	885	940	996	1051	
		WTM27	1051	1156	1262	1367	1472	1577	1682	1787	1892	1997	
		WTM37	1277	1405	1533	1660	1788	1916	2043	2171	2299	2427	
43	Big Bag hopper	WHO	619	681	743	805	867	929	990	1052	1114	1176	

Land transport 1200-3000 km

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Part	Country											
	Destination	km	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000
		Days	5	6	6	7	7	8	8	9	9	10
11	Screw press	WSP05	4400	4620	4840	5060	5280	5500	5720	5940	6160	6380
		WSP15	5808	6098	6389	6679	6970	7260	7550	7841	8131	8422
		WSP25	7260	7623	7986	8349	8712	9075	9438	9801	10164	10527
		WSP50	8276	8690	9104	9518	9932	10346	10759	11173	11587	12001
		WSP75	9196	9656	10116	10575	11035	11495	11955	12415	12874	13334
11	Platform press	WSP	3655	3838	4021	4203	4386	4569	4752	4934	5117	5300
		WSP double	6020	6321	6622	6923	7224	7525	7826	8127	8428	8729
12	Polymer unit	WPL	586	615	644	674	703	732	761	791	820	849
		WPP	924	970	1016	1063	1109	1155	1201	1247	1294	1340
13	Thickener	WTH	9878	10372	10866	11360	11854	12348	12842	13336	13830	14324
21	Belt dryer	WBD04-08	1792	1882	1971	2061	2151	2240	2330	2419	2509	2599
		WBD15-30	3400	3570	3740	3910	4080	4250	4420	4590	4760	4930
		WBD45-60	6396	6716	7035	7355	7675	7995	8315	8634	8954	9274
		WBD75	8653	9085	9518	9950	10383	10816	11248	11681	12114	12546
		WBD90	10064	10568	11071	11574	12077	12580	13084	13587	14090	14593
		WBD105	11699	12284	12869	13454	14038	14623	15208	15793	16378	16963
		WBD120	13637	14319	15000	15682	16364	17046	17728	18410	19091	19773
		WBD120D	13855	14547	15240	15933	16626	17318	18011	18704	19397	20089
		WBD150D	16661	17494	18327	19160	19993	20826	21659	22492	23325	24158
		WBD180D	20519	21545	22571	23597	24623	25649	26675	27701	28727	29753
		WBD210D	23851	25044	26236	27429	28621	29814	31007	32199	33392	34584
		WBD240D	27008	28358	29709	31059	32410	33760	35110	36461	37811	39162
21	Platform dryer	WBDXXXD	7650	8033	8415	8798	9180	9563	9945	10328	10710	11093
22	Bunker	WBU00X	3237	3399	3560	3722	3884	4046	4208	4370	4531	4693
		WBU5	4733	4969	5206	5442	5679	5916	6152	6389	6626	6862
		WBU10-25	8770	9208	9647	10085	10524	10962	11400	11839	12277	12716
		WBU35	9443	9915	10388	10860	11332	11804	12276	12748	13221	13693
23	Bagging point	WLS1-2	1913	2009	2105	2200	2296	2392	2487	2583	2679	2774
		WLS3-5	3827	4018	4210	4401	4592	4784	4975	5166	5358	5549
23	Conveyor	WSC	1913	2009	2105	2200	2296	2392	2487	2583	2679	2774
23	Silo	WSI	11354	11921	12489	13057	13624	14192	14760	15327	15895	16463
30	Container dryer	WCD04-08	1792	1882	1971	2061	2151	2240	2330	2419	2509	2599
		WCD15	2226	2338	2449	2560	2672	2783	2894	3006	3117	3228
		WCD30	3400	3570	3740	3910	4080	4250	4420	4590	4760	4930
		WCD48-60	4554	4782	5009	5237	5465	5693	5920	6148	6376	6603
31	Drying container	WTC	2908	3054	3199	3344	3490	3635	3781	3926	4072	4217
		WGM	4219	4430	4641	4852	5063	5274	5485	5696	5907	6118
40	Skip-dryer	WSD01	520	546	572	598	624	650	676	702	728	754
		WSD04-08	1960	2058	2156	2254	2352	2450	2548	2646	2744	2842
		WSD12-16	2238	2350	2462	2574	2685	2797	2909	3021	3133	3245
		WSD20-24	4120	4326	4532	4738	4944	5150	5356	5562	5768	5974
41	Drying skip	WSK05	587	616	646	675	704	734	763	792	822	851
		WSK13	976	1025	1074	1123	1171	1220	1269	1318	1367	1415
		WSK17	1106	1161	1217	1272	1327	1383	1438	1493	1549	1604
		WTM27	2103	2208	2313	2418	2523	2628	2733	2838	2944	3049
		WTM37	2554	2682	2810	2938	3065	3193	3321	3448	3576	3704
43	Big Bag hopper	WHO	1238	1300	1362	1424	1486	1548	1610	1671	1733	1795

Canada-USA

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Part	Country		Canada	Canada	Canada	Canada	USA	USA	USA	USA
	Destination	km	Vancouv	Montreal	Toronto	Quebec	Los A	Housten	Orleans	Charl
		Days	31	10	11	9	27	22	20	17
11	Screw press	WSP05	11160	3600	3960	3240	9720	7920	7200	6120
		WSP15	14731	4752	5227	4277	12830	10454	9504	8078
		WSP25	13811	4455	4901	4010	12029	9801	8910	7574
		WSP50	18905	6098	6708	5489	16466	13416	12197	10367
		WSP75	22506	7260	7986	6534	19602	15972	14520	12342
11	Platform press	WSP	3966	1279	1407	1151	3454	2814	2559	2175
		WSP double	6532	2107	2318	1896	5689	4635	4214	3582
12	Polymer unit	WPL	738	238	262	214	642	523	476	405
		WPP	1463	472	519	425	1274	1038	944	802
13	Thickener	WTH	15640	5045	5550	4541	13622	11099	10090	8577
21	Belt dryer	WBD04-08	1652	533	586	480	1439	1172	1066	906
		WBD15-30	6423	2072	2279	1865	5595	4559	4144	3523
		WBD45-60	8272	2668	2935	2401	7204	5870	5337	4536
		WBD75	9060	2923	3215	2630	7891	6430	5845	4969
		WBD90	10608	3422	3764	3080	9239	7528	6844	5817
		WBD105	12330	3978	4375	3580	10739	8751	7955	6762
		WBD120	11788	3803	4183	3422	10267	8366	7605	6465
		WBD120D	11329	3655	4020	3289	9868	8040	7309	6213
		WBD150D	13624	4395	4834	3955	11866	9669	8790	7471
		WBD180D	17020	5490	6039	4941	14824	12078	10980	9333
		WBD210D	19784	6382	7020	5744	17231	14040	12764	10849
		WBD240D	22628	7299	8029	6570	19709	16059	14599	12409
21	Platform dryer	WBDXXXD	8300	2678	2945	2410	7229	5891	5355	4552
22	Bunker	WBU00X	3013	972	1069	875	2624	2138	1944	1652
		WBU5	4406	1421	1563	1279	3837	3127	2842	2416
		WBU10-25	6419	2071	2278	1864	5591	4555	4141	3520
		WBU35	7319	2361	2597	2125	6374	5194	4722	4013
23	Bagging point	WLS1-2	3563	1149	1264	1034	3103	2528	2298	1954
		WLS3-5	7125	2298	2528	2069	6206	5056	4597	3907
23	Conveyor	WSC	3563	1149	1264	1034	3103	2528	2298	1954
23	Silo	WSI	22173	7153	7868	6437	19312	15736	14305	12160
30	Container dryer	WCD04-08	2836	915	1006	823	2470	2013	1830	1555
		WCD15	5867	1892	2082	1703	5110	4163	3785	3217
		WCD30	11200	3613	3974	3252	9755	7948	7226	6142
		WCD48-60	15059	4858	5343	4372	13116	10687	9715	8258
31	Drying container	WTC	4508	1454	1600	1309	3926	3199	2908	2472
		WGM	6540	2110	2321	1899	5696	4641	4219	3586
40	Skip-dryer	WSD01	2345	756	832	681	2042	1664	1513	1286
		WSD04-08	3832	1236	1360	1112	3337	2719	2472	2101
		WSD12-16	4062	1310	1442	1179	3538	2883	2621	2228
		WSD20-24	6520	2103	2314	1893	5679	4627	4207	3576
41	Drying skip	WSK05	1882	607	668	546	1639	1336	1214	1032
		WSK13	2389	771	848	694	2081	1695	1541	1310
		WSK17	2368	764	840	688	2063	1681	1528	1299
		WTM27	3915	1263	1389	1137	3410	2778	2526	2147
		WTM37	4399	1419	1561	1277	3832	3122	2838	2412
43	Big Bag hopper	WHO	2881	930	1022	837	2510	2045	1859	1580

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Mexico-Argentina

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Part	Country		Mexico	Mexico	Panama	Nicaragua	Colombia	Chille	Peru	Brazil	Uruguay	Argent
	Destination	km	Mazatlan	Veracruz	Colon	Manag	Cartagena	Valp	Callao	Santos	Montev	Arbue
		Days	30	15	19	19	19	31	30	18	20	21
11	Screw press	WSP05	10800	5400	6840	6840	6840	11160	10800	6480	7200	7560
		WSP15	14256	7128	9029	9029	9029	14731	14256	8554	9504	9979
		WSP25	13365	6683	8465	8465	8465	13811	13365	8019	8910	9356
		WSP50	18295	9148	11587	11587	11587	18905	18295	10977	12197	12807
		WSP75	21780	10890	13794	13794	13794	22506	21780	13068	14520	15246
11	Platform press	WSP	3838	1919	2431	2431	13794	3966	3838	2303	2559	2686
		WSP double	6321	3161	4003	4003	13794	6532	6321	3793	4214	4425
12	Polymer unit	WPL	714	357	452	452	9586	738	714	428	476	500
		WPP	1416	708	897	897	9586	1463	1416	849	944	991
13	Thickener	WTH	15135	7568	9586	9586	9586	15640	15135	9081	10090	10595
21	Belt dryer	WBD04-08	1598	799	1012	1012	792	1652	1598	959	1066	1119
		WBD15-30	6216	3108	3937	3937	3244	6423	6216	3730	4144	4351
		WBD45-60	8005	4002	5070	5070	4178	8272	8005	4803	5337	5603
		WBD75	8768	4384	5553	5553	4609	9060	8768	5261	5845	6138
		WBD90	10266	5133	6502	6502	5397	10608	10266	6159	6844	7186
		WBD105	11933	5966	7557	7557	6273	12330	11933	7160	7955	8353
		WBD120	11408	5704	7225	7225	5712	11788	11408	6845	7605	7986
		WBD120D	10964	5482	6944	6944	6313	11329	10964	6578	7309	7675
		WBD150D	13185	6592	8350	8350	7591	13624	13185	7911	8790	9229
		WBD180D	16471	8235	10431	10431	9483	17020	16471	9882	10980	11529
		WBD210D	19145	9573	12125	12125	11023	19784	19145	11487	12764	13402
		WBD240D	21898	10949	13869	13869	12608	22628	21898	13139	14599	15329
21	Platform dryer	WBDXXXD	8033	4016	5087	5087	13794	8300	8033	4820	5355	5623
22	Bunker	WBU00X	2916	1458	1847	1847	2700	3013	2916	1750	1944	2041
		WBU5	4264	2132	2700	2700	2700	4406	4264	2558	2842	2985
		WBU10-25	6212	3106	3934	3934	3934	6419	6212	3727	4141	4348
		WBU35	7082	3541	4486	4486	4486	7319	7082	4249	4722	4958
23	Bagging point	WLS1-2	3448	1724	2183	2183	2183	3563	3448	2069	2298	2413
		WLS3-5	6895	3448	4367	4367	4367	7125	6895	4137	4597	4827
23	Conveyor	WSC	3448	1724	2183	2183	2183	3563	3448	2069	2298	2413
23	Silo	WSI	21458	10729	13590	13590	13590	22173	21458	12875	14305	15021
30	Container dryer	WCD04-08	2745	1372	1738	1738	4821	2836	2745	1647	1830	1921
		WCD15	5677	2839	3596	3596	4821	5867	5677	3406	3785	3974
		WCD30	10839	5419	6864	6864	4821	11200	10839	6503	7226	7587
		WCD48-60	14573	7286	9229	9229	8041	15059	14573	8744	9715	10201
31	Drying container	WTC	4362	2181	2763	2763	2763	4508	4362	2617	2908	3054
		WGM	6329	3164	4008	4008	4008	6540	6329	3797	4219	4430
40	Skip-dryer	WSD01	2269	1135	1437	1437	1437	2345	2269	1362	1513	1588
		WSD04-08	3708	1854	2349	2349	2349	3832	3708	2225	2472	2596
		WSD12-16	3931	1966	2490	2490	2490	4062	3931	2359	2621	2752
		WSD20-24	6310	3155	3996	3996	3996	6520	6310	3786	4207	4417
41	Drying skip	WSK05	1821	911	1153	1153	1153	1882	1821	1093	1214	1275
		WSK13	2312	1156	1464	1464	1464	2389	2312	1387	1541	1618
		WSK17	2292	1146	1452	1452	1452	2368	2292	1375	1528	1604
		WTM27	3788	1894	2399	2399	2399	3915	3788	2273	2526	2652
		WTM37	4257	2129	2696	2696	2696	4399	4257	2554	2838	2980
43	Big Bag hopper	WHO	2789	1394	1766	1766	1766	2881	2789	1673	1859	1952

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Turkey-Iran

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Part	Country		Turkey	Israel	Agypt	Jordan	UA	Katar	Bharein	Saudi	Iran	Irak
	Destination	km	Istanbul	TelAviv	Kairo	Amman	Dubai	Doha	Manama	Damman	BanAB	UmmQ
		Days	10	14	15	21	26	27	28	29	30	31
11	Screw press	WSP05	3600	5040	5400	7560	9360	9720	10080	10440	10800	11160
		WSP15	4752	6653	7128	9979	12355	12830	13306	13781	14256	14731
		WSP25	4455	6237	6683	9356	11583	12029	12474	12920	13365	13811
		WSP50	6098	8538	9148	12807	15856	16466	17076	17685	18295	18905
		WSP75	7260	10164	10890	15246	18876	19602	20328	21054	21780	22506
11	Platform press	WSP	1279	1791	1919	2686	3326	3454	3582	3710	3838	3966
		WSP double	2107	2950	3161	4425	5478	5689	5900	6110	6321	6532
12	Polymer unit	WPL	238	333	357	500	619	642	666	690	714	738
		WPP	472	661	708	991	1227	1274	1321	1369	1416	1463
13	Thickener	WTH	5045	7063	7568	10595	13117	13622	14126	14631	15135	15640
21	Belt dryer	WBD04-08	533	746	799	1119	1385	1439	1492	1545	1598	1652
		WBD15-30	2072	2901	3108	4351	5387	5595	5802	6009	6216	6423
		WBD45-60	2668	3736	4002	5603	6937	7204	7471	7738	8005	8272
		WBD75	2923	4092	4384	6138	7599	7891	8183	8476	8768	9060
		WBD90	3422	4791	5133	7186	8897	9239	9581	9923	10266	10608
		WBD105	3978	5569	5966	8353	10342	10739	11137	11535	11933	12330
		WBD120	3803	5324	5704	7986	9887	10267	10648	11028	11408	11788
		WBD120D	3655	5117	5482	7675	9502	9868	10233	10598	10964	11329
		WBD150D	4395	6153	6592	9229	11427	11866	12306	12745	13185	13624
		WBD180D	5490	7686	8235	11529	14275	14824	15373	15922	16471	17020
		WBD210D	6382	8935	9573	13402	16593	17231	17869	18507	19145	19784
		WBD240D	7299	10219	10949	15329	18979	19709	20438	21168	21898	22628
21	Platform dryer	WBDXXXD	2678	3749	4016	5623	6962	7229	7497	7765	8033	8300
22	Bunker	WBU00X	972	1361	1458	2041	2527	2624	2722	2819	2916	3013
		WBU5	1421	1990	2132	2985	3695	3837	3979	4121	4264	4406
		WBU10-25	2071	2899	3106	4348	5384	5591	5798	6005	6212	6419
		WBU35	2361	3305	3541	4958	6138	6374	6610	6846	7082	7319
23	Bagging point	WLS1-2	1149	1609	1724	2413	2988	3103	3218	3333	3448	3563
		WLS3-5	2298	3218	3448	4827	5976	6206	6436	6665	6895	7125
23	Conveyor	WSC	1149	1609	1724	2413	2988	3103	3218	3333	3448	3563
23	Silo	WSI	7153	10014	10729	15021	18597	19312	20028	20743	21458	22173
30	Container dryer	WCD04-08	915	1281	1372	1921	2379	2470	2562	2653	2745	2836
		WCD15	1892	2649	2839	3974	4920	5110	5299	5488	5677	5867
		WCD30	3613	5058	5419	7587	9393	9755	10116	10477	10839	11200
		WCD48-60	4858	6801	7286	10201	12630	13116	13601	14087	14573	15059
31	Drying container	WTC	1454	2036	2181	3054	3781	3926	4072	4217	4362	4508
		WGM	2110	2953	3164	4430	5485	5696	5907	6118	6329	6540
40	Skip-dryer	WSD01	756	1059	1135	1588	1967	2042	2118	2194	2269	2345
		WSD04-08	1236	1731	1854	2596	3214	3337	3461	3585	3708	3832
		WSD12-16	1310	1835	1966	2752	3407	3538	3669	3800	3931	4062
		WSD20-24	2103	2945	3155	4417	5469	5679	5889	6100	6310	6520
41	Drying skip	WSK05	607	850	911	1275	1578	1639	1700	1761	1821	1882
		WSK13	771	1079	1156	1618	2004	2081	2158	2235	2312	2389
		WSK17	764	1070	1146	1604	1986	2063	2139	2216	2292	2368
		WTM27	1263	1768	1894	2652	3283	3410	3536	3662	3788	3915
		WTM37	1419	1987	2129	2980	3690	3832	3973	4115	4257	4399
43	Big Bag hopper	WHO	930	1301	1394	1952	2417	2510	2603	2696	2789	2881

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India-Australia

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Part	Country		India	SriLa	Vietnam	Taiw an	Korea	Korea	Taiw an	Austr	Austr	Papua
	Destination	km	Mumbai	Colom	Hanoi	Kaoh	Busan	Seoul	Taipei	Perth	Melb	Mores
		Days	20	21	26	33	33	34	41	34	35	28
11	Screw press	WSP05	7200	7560	9360	11880	11880	12240	14760	12240	12600	10080
		WSP15	9504	9979	12355	15682	15682	16157	19483	16157	16632	13306
		WSP25	8910	9356	11583	14702	14702	15147	18266	15147	15593	12474
		WSP50	12197	12807	15856	20125	20125	20735	25003	20735	21344	17076
		WSP75	14520	15246	18876	23958	23958	24684	29766	24684	25410	20328
11	Platform press	WSP	2559	2686	3326	4222	4222	4349	5245	4349	4477	3582
		WSP double	4214	4425	5478	6953	6953	7164	8639	7164	7375	5900
12	Polymer unit	WPL	476	500	619	785	785	809	976	809	833	666
		WPP	944	991	1227	1557	1557	1604	1935	1604	1652	1321
13	Thickener	WTH	10090	10595	13117	16649	16649	17153	20685	17153	17658	14126
21	Belt dryer	WBD04-08	1066	1119	1385	1758	1758	1812	2185	1812	1865	1492
		WBD15-30	4144	4351	5387	6838	6838	7045	8495	7045	7252	5802
		WBD45-60	5337	5603	6937	8805	8805	9072	10940	9072	9339	7471
		WBD75	5845	6138	7599	9645	9645	9937	11983	9937	10229	8183
		WBD90	6844	7186	8897	11292	11292	11634	14030	11634	11977	9581
		WBD105	7955	8353	10342	13126	13126	13524	16308	13524	13921	11137
		WBD120	7605	7986	9887	12549	12549	12929	15591	12929	13309	10648
		WBD120D	7309	7675	9502	12060	12060	12426	14984	12426	12791	10233
		WBD150D	8790	9229	11427	14503	14503	14942	18019	14942	15382	12306
		WBD180D	10980	11529	14275	18118	18118	18667	22510	18667	19216	15373
		WBD210D	12764	13402	16593	21060	21060	21698	26165	21698	22336	17869
		WBD240D	14599	15329	18979	24088	24088	24818	29928	24818	25548	20438
21	Platform dryer	WBDXXXD	5355	5623	6962	8836	8836	9104	10978	9104	9371	7497
22	Bunker	WBU00X	1944	2041	2527	3208	3208	3305	3985	3305	3402	2722
		WBU5	2842	2985	3695	4690	4690	4832	5827	4832	4974	3979
		WBU10-25	4141	4348	5384	6833	6833	7040	8489	7040	7247	5798
		WBU35	4722	4958	6138	7791	7791	8027	9679	8027	8263	6610
23	Bagging point	WLS1-2	2298	2413	2988	3792	3792	3907	4712	3907	4022	3218
		WLS3-5	4597	4827	5976	7585	7585	7815	9423	7815	8044	6436
23	Conveyor	WSC	2298	2413	2988	3792	3792	3907	4712	3907	4022	3218
23	Silo	WSI	14305	15021	18597	23604	23604	24319	29326	24319	25034	20028
30	Container dryer	WCD04-08	1830	1921	2379	3019	3019	3111	3751	3111	3202	2562
		WCD15	3785	3974	4920	6245	6245	6434	7759	6434	6624	5299
		WCD30	7226	7587	9393	11922	11922	12284	14813	12284	12645	10116
		WCD48-60	9715	10201	12630	16030	16030	16516	19916	16516	17002	13601
31	Drying container	WTC	2908	3054	3781	4799	4799	4944	5962	4944	5089	4072
		WGM	4219	4430	5485	6962	6962	7173	8649	7173	7384	5907
40	Skip-dryer	WSD01	1513	1588	1967	2496	2496	2572	3101	2572	2647	2118
		WSD04-08	2472	2596	3214	4079	4079	4203	5068	4203	4326	3461
		WSD12-16	2621	2752	3407	4325	4325	4456	5373	4456	4587	3669
		WSD20-24	4207	4417	5469	6941	6941	7151	8624	7151	7362	5889
41	Drying skip	WSK05	1214	1275	1578	2003	2003	2064	2489	2064	2125	1700
		WSK13	1541	1618	2004	2543	2543	2620	3160	2620	2697	2158
		WSK17	1528	1604	1986	2521	2521	2598	3132	2598	2674	2139
		WTM27	2526	2652	3283	4167	4167	4294	5177	4294	4420	3536
		WTM37	2838	2980	3690	4683	4683	4825	5818	4825	4967	3973
43	Big Bag hopper	WHO	1859	1952	2417	3067	3067	3160	3811	3160	3253	2603

Travel costs

52

Country	Distance in km Destination	Travel time Hours	Car/Flight costs	Field allowance costs	Travel costs Euro
	100	2	180	24	404
	200	4	360	47	807
	300	6	540	71	1211
	400	7	680	82	1462
	500	8	800	94	1694
	600	9	900	106	1906
	700	10	840	118	1958
	800	11	880	129	2109
	900	12	900	141	2241
	1000	13	960	153	2413
	1200	14	1104	165	2669
	1400	15	1232	176	2908
	1600	16	1344	188	3132
	1800	17	1440	200	3340
	2000	18	1480	212	3492
	2200	19	1628	224	3752
	2400	20	1776	235	4011
	2600	21	1924	247	4271
	2800	22	2072	259	4531
	3000	24	2220	282	4902
Near and Middle East					
Türkey	Istanbul	12	900	141	2241
Israel	Tel Aviv	14	1000	165	2565
Agypten	Kairo	15	1000	176	2676
Emirate	Dubai	18	1100	212	3112
Saudi Arabia	Riadh	18	1200	212	3212
Iran	Teheran	20	1200	235	3435
Asia					
Indien	Mumbay	28	1120	329	4249
Malaysia	Kuala Lumpur	30	1450	353	4803
Taiwan	Taipei	36	1550	424	5574
Korea	Seoul	38	1610	447	5857
Japan	Tokyo	42	1800	494	6494
Australien	Melbourne	46	1800	541	6941
America					
Kanada	Montreal	23	1120	271	3691
USA	New York	24	960	282	3642
USA	Chicago	27	1250	318	4268
USA	Charleston	28	1250	329	4379
USA	New Orleans	30	1450	353	4803
USA	Los Angeles	34	1600	400	5400
Colombia	Bogota	34	1320	400	5120
Mexico	Mexico	35	1320	412	5232
Brasilien	Sao Paulo	36	1320	424	5344
Peru	Lima	38	1650	447	5897
Uruguay	Montevideo	40	1580	471	6051
Argentinien	Buones Aires	42	1580	494	6274

Erection, Commissioning costs

53

Part	Name	Type	Days	Total peoples	Costs Euro €
11	Screw press	WSP05-15	2	1	1980
		WSP25	3	1	2970
		WSP50	4	1	3960
		WSP75	5	1	4950
13	Thickener	WTH	1	1	990
21	Belt dryer	WBD04-15	2	1	1980
		WBD30	2	1	1980
		WBD45-60	2	2	3960
		WBD75-90	3	2	5940
		WBD105-120	4	2	7920
		WBD120-180D	5	2	9900
		WBD210-240D	6	2	11880
22	Bunker	WBU00X	2	0	0
		WBU05	1	0	0
		WBU10-25	2	0	0
		WBU35	3	0	0
23	Bagging, conveyor	WLS, WSC	1	1	990
23	Silo	WSI	7	1	6930
30	Container-dryer	WCD04-15	2	1	1980
		WCD30	2	1	1980
		WCD45	3	1	2970
		WCD60	4	1	3960
40	Skip-dryer	WSD01-08	1	1	990
		WSD12-16	2	1	1980
		WSD20-24	3	1	2970

Supervising costs

53

Part	Name	Type	Days	Total peoples	Costs Euro €
11	Screw press	WSP05-15	1	1	990
		WSP25	1	1	990
		WSP50	2	1	1980
		WSP75	2	1	1980
13	Thickener	WTH	0	1	0
21	Belt dryer	WBD04-15	1	1	990
		WBD30	1	1	990
		WBD45-60	2	1	1980
		WBD75-90	3	1	2970
		WBD105-120	4	1	3960
		WBD120-180D	5	1	4950
		WBD210-240D	6	1	5940
22	Bunker	WBU00X	0	0	0
		WBU05	0	0	0
		WBU10-25	0	0	0
		WBU35	0	0	0
23	Bagging, conveyor	WLS, WSC	0	1	0
23	Silo	WSI	2	1	1980
30	Container-dryer	WCD04-15	1	1	990
		WCD30	1	1	990
		WCD45	2	1	1980
		WCD60	2	1	1980
40	Skip-dryer	WSD01-08	1	1	990
		WSD12-16	2	1	1980
		WSD20-24	3	1	2970