

**2024.01**

Valid from 01.01.24 till 31.12.24

**WATROPUR**  
Cold temperature / Sludge drying solutions

**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 | <b>Switzerland</b> | <b>WATROPUR GmbH</b>   | <b>Unterseen</b>   |
| W12 | <b>Germany</b>     | <b>WATROPUR GmbH</b>   | <b>Düren</b>       |
| W13 | <b>Netherland</b>  | <b>WATROPUR BV</b>     | <b>Leusden</b>     |
| W14 | <b>Croatia</b>     | <b>WATROPUR doo</b>    | <b>Krizevci</b>    |
| W15 | <b>Colombia</b>    | <b>WATROPUR SAS</b>    | <b>Bogota</b>      |
| W16 | <b>Turkey</b>      | <b>WATROPUR Ltd</b>    | <b>Istanbul</b>    |
| W18 | <b>China</b>       | <b>WATROPUR Ltd</b>    | <b>Lianyungang</b> |
| W19 | <b>Italy</b>       | <b>WATROPUR Srl</b>    | <b>Parma</b>       |
| W20 | <b>Rumania</b>     | <b>WATROPUR Ltd</b>    | <b>Avrig</b>       |
| W21 | <b>Hungary</b>     | <b>BONOTEC Kft</b>     | <b>Sopron</b>      |
| W23 | <b>Spain</b>       | <b>WATROPUR SLU</b>    | <b>Barcelona</b>   |
| W24 | <b>Austria</b>     | <b>WATROPUR GmbH</b>   | <b>Kumberg</b>     |
| W25 | <b>France</b>      | <b>WATROPUR SA</b>     | <b>Flayosc</b>     |
| W26 | <b>Korea</b>       | <b>WATROPUR Ltd</b>    | <b>Daegu</b>       |
| W28 | <b>Finland</b>     | <b>WATROPUR Oy</b>     | <b>Lahti</b>       |
| W30 | <b>Russia</b>      | <b>WATROPUR LLC</b>    | <b>Krasnodar</b>   |
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| W34 | <b>UAE</b>         | <b>WATROPUR FZ LLC</b> | <b>Dubai</b>       |

**WATROMAT®**

**[www.watropur.com](http://www.watropur.com)**

**[info@watropur.com](mailto:info@watropur.com)**

**Switzerland (2500 m<sup>2</sup>)**



**Hungary (1200 m<sup>2</sup>)**



**Croatia (11'000 m<sup>2</sup>)**

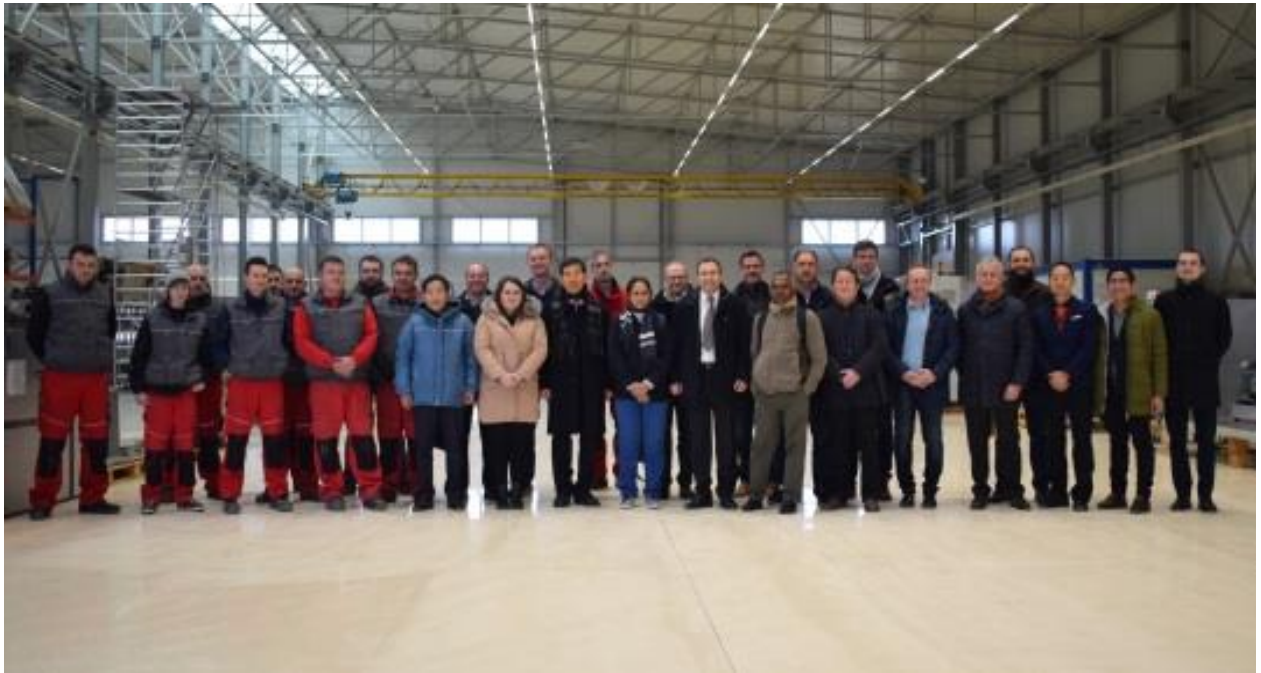


**China-Lianyungang (16'000 m<sup>2</sup>)**





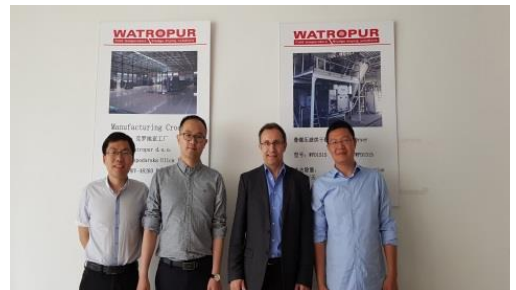
**WATROPUR d.o.o. Croatia**



**BONOTEC Kft. Hungary**



**WATROPUR Ltd. China**



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France  
Belgium  
Africa  
Quebec

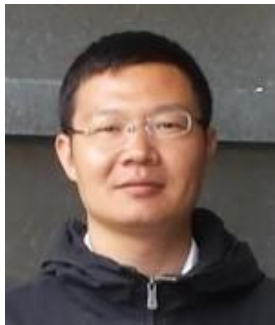
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**Administration**

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**+385 48 639 996**

# Millstätter See, Austria, 2013

## Municipal WWTP



**Guyang, China, 2014**  
Municipal WWTP





# Vence, France, 2015

## Municipal WWTP



# Ivanovo, Russia, 2017

## Municipal WWTP



# Frigerio, Italy, 2018

## Tanc cleaning



# Petronas, Malaysia, 2019

## Oil refinery



# Prolactal, Austria, 2020

## Dairy



# Huvepharma, Italy, 2021

## Pharma



**Senja, Norway, 2022**  
Aquaculture



# New University Aarhus, Denmark 2023 Hospital





# Bekaert, Slovakia 2023

Wire manufacturer



| Inlet<br>% dried solids                         | Product<br>choice   | Outlet<br>% dried solids | Part     |
|---|---|--------------------------|----------|
| <b>1</b>  | <b>Liquid-Dryer</b>                                       | <b>90</b>                | <b>0</b> |
| <b>2-8</b>                                      | <b>Press-Dryer</b><br>Screw press, Polymer unit, platform | <b>90</b>                | <b>1</b> |
| <b>20-40</b>                                    | <b>Bunker-Dryer</b><br>Bunker, Belt dryer, Conveyor       | <b>90</b>                | <b>2</b> |
| <b>25-45</b>                                    | <b>Container-Dryer</b><br>Drying container, Air ducts     | <b>90</b>                | <b>3</b> |
| <b>30-50</b>                                    | <b>Skip-Dryer</b><br>Drying skip, Bagging hopper          | <b>90</b>                | <b>4</b> |
| Transport, Erection, Commissioning, Supervising |   |                          | <b>5</b> |

| Product photo  | page  | Part |
|--|-------|------|
|     | 21    | 0    |
|    | 22-35 | 1    |
|    | 36-57 | 2    |
|   | 56-61 | 3    |
|  | 62-68 | 4    |
| <p>Transport, Erection, Commissioning, Supervising</p>                               | 69-80 |      |

|   | page  | Part |
|---|-------|------|
| <b>Product sectors</b>  |       |      |
| <b>Liquid-Dryer</b><br>Hospital, Cruise ship, Paint sludge, Hotel,<br>Food and beverage, Surface drainage   | 21    | 0    |
| <b>Press-Dryer</b><br>Dairies, Distilleries, Oil refineries, Pet<br>food, Municipal sewage treatment plants,<br>Aquaculture, Slaughterhouse             | 22-35 | 1    |
| <b>Bunker-Dryer</b><br>Tanneries, Paper and Pulp industries,<br>Foundries, Chemical- Pharmaceutical- and<br>Cosmetic industries                         | 36-57 | 2    |
| <b>Container-Dryer</b><br>Recycling industries, Wire manufacturer,<br>Railway and aircraft industries, Pickling,<br>Automotive industries, Desalination | 56-61 | 3    |
| <b>Skip-Dryer</b><br>Plating, Printed circuit boards, Textile,<br>Packaging, Pressing, Precious metals,<br>Anodizing, Refractory, Arms                  | 62-68 | 4    |
| <b>Transport, Erection, Commissioning, Supervising</b>  | 69-79 |      |

# Liquid-Dryer 00

## WATROMAT® Liquid-Dryer

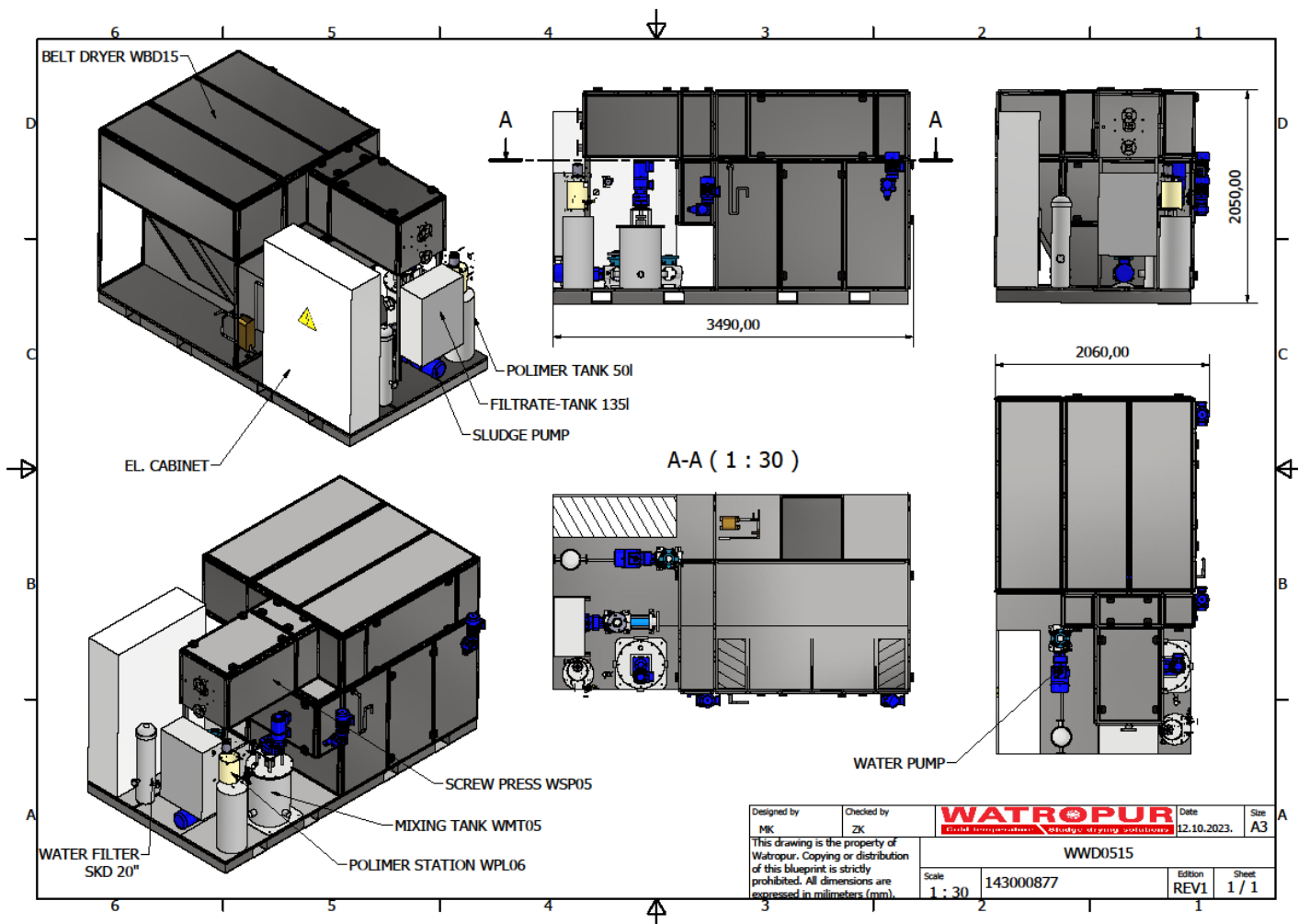
Liquid-Dryer for sludge from industrial or municipal wastewater treatment plants, inlet bigger than 1 % dried solids, outlet 90 % dried solids, drying temperature 30°C/86°F, noise level <75dBA, sludge pH value 6.0-9.0. Sludge outlet for collecting spiral or collecting conveyor (230XXXXXX). Include screw press, liquid Polymer preparation unit, belt-dryer, pumps, flow meters, piping between all components. Sludge outlet for collecting spiral (230XXXXXX). 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 Liquid-Dryer including control cabinet  
**Not included** Collecting spiral (sludge outlet)



| 000100100 | SS316 wet / SS304 dry sludge              | type              | WWD0515 |
|-----------|---|-------------------|---------|
|           |   | €                 | 345210  |
|           | Dried solids throughput                   | t/day             | 0,5     |
|           | Sludge flow maximum (≥0,5 % dried solids) | m <sup>3</sup> /h | 2       |
|           | Electric power consumption                | kWh               | 25      |
|           | Length X                                  | m                 | 3,5     |
|           | Width Y                                   | m                 | 2       |
|           | Height Z                                  | m                 | 2       |
|           | Weight empty                              | kg                | 2800    |
|           | Weight full                               | kg                | 3100    |



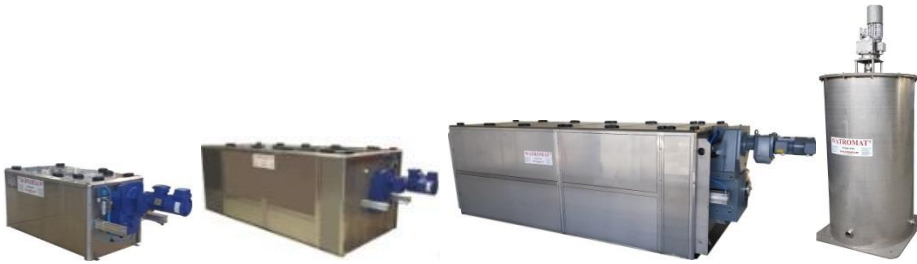
**Press-Dryer**

**Page Part**



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**10**



**29**

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**12**



**33**

**13**

|  | <b>Page</b> | <b>Part</b> |
|--|-------------|-------------|
| <b>Press-Dryer</b>                       | <b>24</b>   | <b>10</b>   |
| <b>Screw press<br/>Platform</b>          | <b>29</b>   | <b>11</b>   |
| <b>Polymer unit</b>                      | <b>32</b>   | <b>12</b>   |
| <b>Pump<br/>Thickener, ISO Container</b> | <b>33</b>   | <b>13</b>   |

# Press-Dryer 10

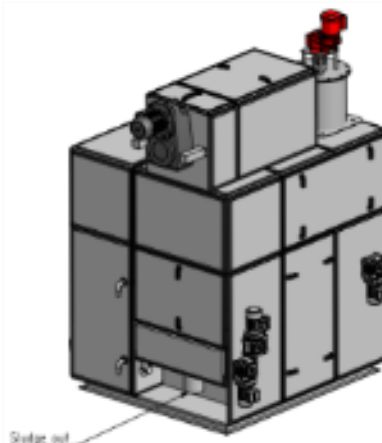
## WATROMAT® Press-Dryer

Press-Dryer for sludge from industrial or municipal wastewater treatment plants, inlet 2 % dried solids, outlet 90 % dried solids, drying temperature 30 °C/86 °F, specific electric power consumption dryer: 333 W/kg H<sub>2</sub>O, 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             | €    | 262451  |
| 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 <sup>3</sup> /h |      | 0.3     |
| Length X  | m                 |      | 2       |
| Width Y   | m                 |      | 2       |
| Height Z  | m                 |      | 2.7     |
| Weight empty                                    | kg                |      | 2200    |
| Weight full                                     | kg                |      | 2500    |



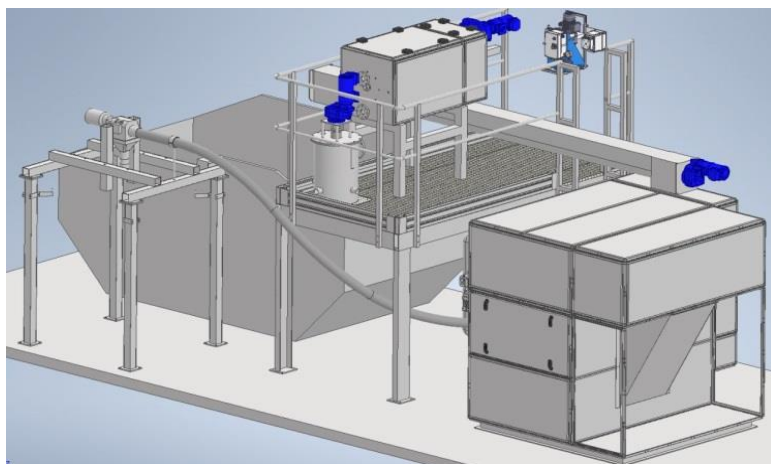
## WATROMAT® Press-Dryer

Press-Dryer for sludge from industrial or municipal wastewater treatment plants, inlet 2 % dried solids, outlet 90 % dried solids, drying temperature 30 °C/86 °F, specific electric power consumption dryer: 333 W/kg H<sub>2</sub>O, 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             | €    | 317097  |
| 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 <sup>3</sup> /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    |





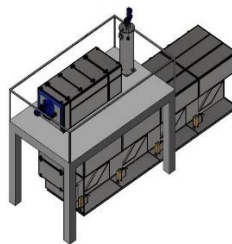
# Press-Dryer 10

## WATROMAT® Press-Dryer

Press-Dryer for sludge from industrial or municipal wastewater treatment plants, inlet 2 % dried solids, outlet 90 % dried solids, drying temperature 30 °C/86 °F, specific electric power consumption dryer: 333 W/kg H<sub>2</sub>O, 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             | 353192  | 436797  | 528132  | 614981  | 703376  | 791688  |
| 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 <sup>3</sup> /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    |



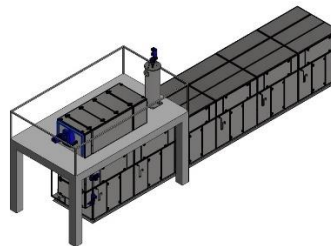
# Press-Dryer 10

## WATROMAT® Press-Dryer

Press-Dryer for sludge from industrial or municipal wastewater treatment plants, inlet 2 % dried solids, outlet 90 % dried solids, drying temperature 30 °C/86 °F, specific electric power consumption dryer: 333 W/kg H<sub>2</sub>O, 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



|   |       | type              | WPD2560 | WPD2575 | WPD2590 | WPD25105 | WPD25120 |
|---|-------|-------------------|---------|---------|---------|----------|----------|
| 100100304                                       | SS316 | €                 | 660836  | 749232  | 837544  | 925853   | 1008321  |
| Throughput dried solids (screw press 110100XXX) |       | t/day             |         |         | 2.5     |          |          |
| Dryer water removal at 5-40 °C environment      |       | t/day             | 6.0     | 7.5     | 9.0     | 10.5     | 12.0     |
| Electric power consumption                      |       | kWh               | 83      | 103     | 125     | 148      | 172      |
| Cooling water >3 Bar, (calculated at 24°C)      |       | m <sup>3</sup> /h | 2       | 2.5     | 3       | 3.5      | 4        |
| Length X  |       | m                 | 7.9     | 9.8     | 11.6    | 13.5     | 15.4     |
| Width Y   |       | m                 |         |         | 2       |          |          |
| Height Z  |       | m                 |         |         | 3.3     |          |          |
| Weight empty                                    |       | kg                | 6200    | 7000    | 7800    | 8600     | 9300     |
| Weight full                                     |       | kg                | 8300    | 9500    | 13100   | 14800    | 15500    |

|   |       | type              | WPD25120D | WPD25150D | WPD25180D | WPD25210D | WPD25240D |
|---|-------|-------------------|-----------|-----------|-----------|-----------|-----------|
| 100100304                                       | SS316 | €                 | 1092808   | 1258936   | 1451279   | 1697369   | 1811864   |
| 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 <sup>3</sup> /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     |



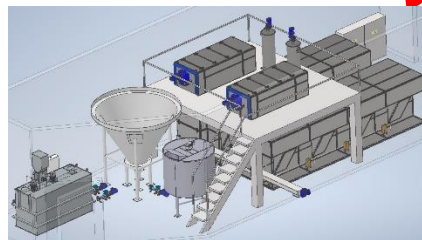
# Press-Dryer 10

## WATROMAT® Press-Dryer

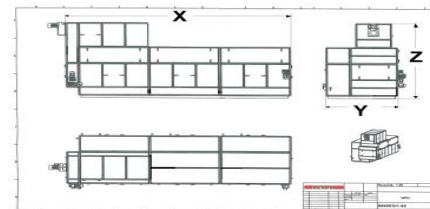
Press-Dryer for sludge from industrial or municipal wastewater treatment plants, inlet 2 % dried solids, outlet 90 % dried solids, drying temperature 30 °C/86 °F, specific electric power consumption dryer: 333 W/kg H<sub>2</sub>O, compressed air 50 l/min (>6 Bar), noise level <85dBA, sludge pH value 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 and or upper dryer, piping, dried solids sensor



|   |                   | type | WPD5090 | WPD50105 | WPD50120 |
|---|-------------------|------|---------|----------|----------|
| 100100404                                       | SS316             | €    | 927639  | 1015949  | 1098163  |
| Throughput dried solids (screw press 110100XXX) | t/day             |      |         | 5.0      |          |
| Dryer water removal at 5-40 °C environment      | t/day             |      | 9.0     | 10.5     | 12.0     |
| Electric power consumption                      | kWh               |      | 127     | 151      | 177      |
| Cooling water >3 Bar, (calculated at 24°C)      | m <sup>3</sup> /h |      | 2       | 2.5      | 3        |
| Length X  | m                 |      | 11.6    | 13.5     | 15.4     |
| Width Y   | m                 |      |         | 1.9      |          |
| Height Z  | m                 |      |         | 3.7      |          |
| Weight empty                                    | kg                |      | 10900   | 11800    | 12750    |
| Weight full                                     | kg                |      | 14900   | 15000    | 15900    |



|  |                   | type | WPD50120D | WPD50150D | WPD50180D | WPD50210D | WPD50240D |
|--|-------------------|------|-----------|-----------|-----------|-----------|-----------|
| 100100404                                  | SS316             | €    | 1182904   | 1349031   | 1541374   | 1787464   | 1901959   |
| 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 <sup>3</sup> /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     |



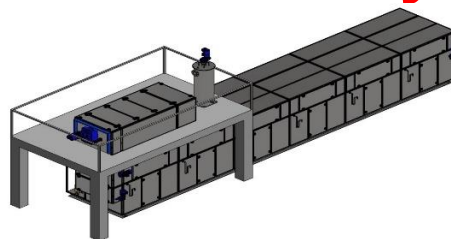
# Press-Dryer 10

## WATROMAT® Press-Dryer

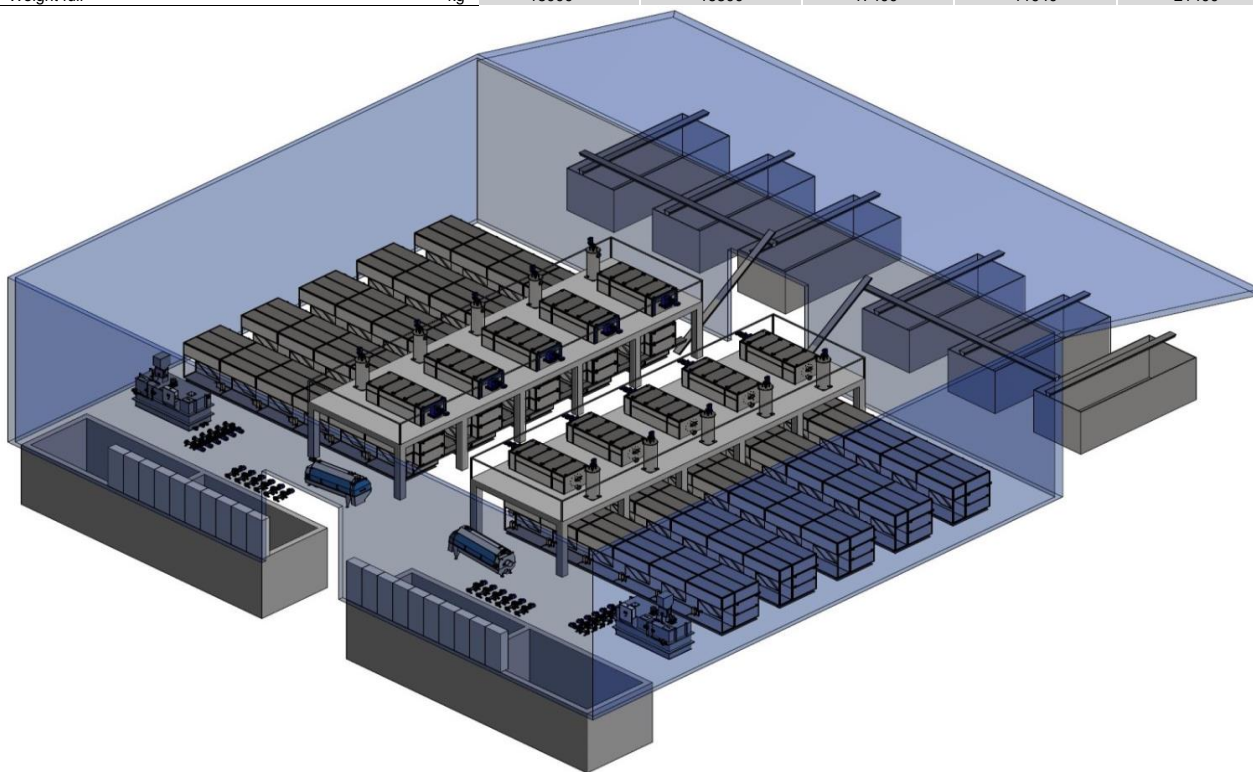
Press-Dryer for sludge from industrial or municipal wastewater treatment plants, inlet 2 % dried solids, outlet 90 % dried solids, drying temperature 30 °C/86 °F, specific electric power consumption dryer: 333 W/kg H<sub>2</sub>O, compressed air 50 l/min (>6 Bar), noise level <85dBA, sludge pH value 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 powder, 2 pc pumps, 2 pcs flow meters,  
2 pc belt dryer SS304, 1 pc control cabinet

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



|   |       | type              | WPD75120D | WPD75150D | WPD75180D | WPD75210D | WPD75240D |
|---|-------|-------------------|-----------|-----------|-----------|-----------|-----------|
| 100100504                                       | SS316 | €                 | 1342533   | 1508661   | 1694809   | 1940899   | 2055394   |
| Throughput dried solids (screw press 110100XXX) |       | t/day             |           |           | 7.5       |           |           |
| 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 <sup>3</sup> /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                 |           |           | 7.5       |           |           |
| Weight empty                                    |       | kg                | 8800      | 9600      | 12100     | 14500     | 15800     |
| Weight full                                     |       | kg                | 15000     | 16800     | 17400     | 11940     | 21400     |



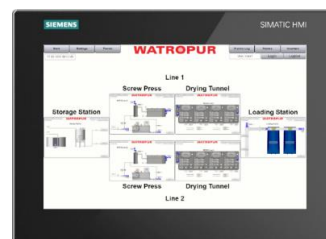
# Control cabinet Press-Dryer 10

## 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 | WELWPD75 |
|-----------|-----------|------|----------|----------|----------|----------|----------|
| 110100900 | Polyester | €    | 43308    | 48210    | 53850    | 59145    | 66267    |
| Length X  |           | mm   |          |          | 800      |          |          |
| Width Y   |           | mm   |          |          | 400      |          |          |
| Height Z  |           | mm   |          |          | 2100     |          |          |
| Weight    |           | kg   | 56       | 64       | 69       | 75       | 85       |

# Screw press 11

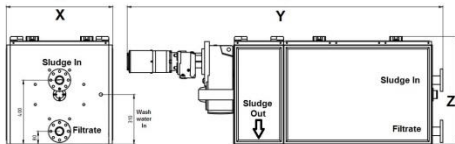


## WATROMAT® Screw press

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               | 66187     | 87150     | 118350    | 188346    | 246789   |
| 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      | 0.25      | 0.75      | 1.5       | 4        |
| Wash water                                   | m <sup>3</sup> /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 Y                                     | mm                  | 1895      | 3065      | 3447      | 4610      | 6015     |
| Width X                                      | 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 | WHR700 | WHR900 |
|-------------------|---------------------|--------|--------|--------|--------|--------|
| 110100205         | Sealing screw press | 2641   | 3514   | 4282   | 6194   | 9486   |
| Screw press       | type                | WSP05  | WSP15  | WSP25  | WSP50  | WSP75  |
| Sealing half ring | Pcs/set             |        |        | 16     |        |        |
| Diameter          | mm                  | 250    | 400    | 500    | 700    | 900    |
| Weight            | kg/Set              | 3      | 5      | 7      | 10     | 15     |



|                  | type                 | Wnozzle |       |       |       |       |
|------------------|----------------------|---------|-------|-------|-------|-------|
| 110100305        | Nozzle washing water | 31      |       |       |       |       |
| 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 | 285    |
| Coil voltage | VDC              | 24     |

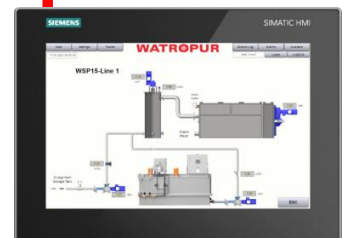
# Control cabinet screw press 11

## 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 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      | WELWSP05 | WELWSP15 | WELWSP25 | WELWSP50 | WELWSP75 |
|-----------|-----------|----------|----------|----------|----------|----------|
| 110100900 | Polyester | 19016    | 20213    | 21490    | 22807    | 24284    |
| Length X  | mm        |          | 600      |          | 800      |          |
| Width Y   | mm        |          | 300      |          | 400      |          |
| Height Z  | mm        |          | 800      |          | 2100     |          |
| Weight    | kg        | 30       | 35       | 40       | 75       | 85       |

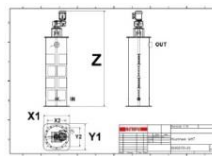


# Mixing tank 11

## 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        |
|----------------------------|--------------|-------------------|--------------|--------------|-------------------|--------------|
| <b>110200104</b>           | <b>SS316</b> | <b>€ 11360</b>    | <b>19779</b> | <b>25908</b> | <b>33488</b>      | <b>50498</b> |
| 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         | 2094         | 2213              | 2636         |
| Weight empty               | kg           | 100               | 200          | 300          | 480               | 600          |
| Weight full                | kg           | 250               | 450          | 800          | 1330              | 2100         |



|                  | type                        | WPT1          |
|------------------|-----------------------------|---------------|
| <b>110200205</b> | <b>Pressure transmitter</b> | <b>€ 2101</b> |
| Measuring range  | mA                          | 4-20          |



|                  | type                 | Wgraphite     |
|------------------|----------------------|---------------|
| <b>110200305</b> | <b>Graphite seal</b> | <b>€/m 46</b> |

# Screw press skid 11

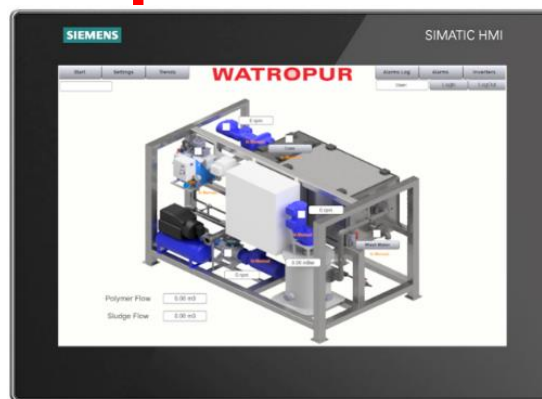
## WATROMAT® Screw press skid

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       |
|-------------------------------|---------------------|-----------------|
| <b>110300103</b>              | <b>SS316</b>        | <b>€ 147969</b> |
| Throughput dried solids       | t/day               | 0.3 - 2         |
| Electric power consumption    | kWh                 | 1.7             |
| Polymer liquid (50 % active)  | l/hour              | 0.6             |
| Water for Polymer             | l/hour              | 180             |
| Water for washing screw press | m <sup>3</sup> /day | 0.3             |
| Length X                      | m                   | 2               |
| Width Y                       | m                   | 1.2             |
| Height Z                      | m                   | 1.6             |
| Weight empty                  | kg                  | 600             |
| Weight full                   | kg                  | 750             |

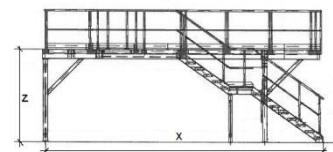


# Platform 11

## WATROMAT® Platform

Platform to hold and maintain screw press and mixing tank, with stair 800 mm double sided railing, and grating, whole construction is screwed in individual segments

**Delivery** 1 pc platform (individual segments)  
**Not included** Assembling on site



|                    | type           | WSP05   | WSP15   | WSP25   | WSP50    | WSP75    |
|--------------------|----------------|---------|---------|---------|----------|----------|
| 110400102          | Hot galvanized | € 35080 | € 46904 | € 60751 | € 77997  | € 85663  |
| 110400103          | SS304          | € 55490 | € 74194 | € 96097 | € 123376 | € 135504 |
| Weight screw press | t              | 1       | 2       | 3       | 5        | 10       |
| Weight mixing tank | t              | 0.2     | 0.5     | 0.8     | 1.5      | 2.2      |
| Length X           | mm             | 6090    | 6710    | 7330    | 7950     | 8570     |
| Width Y            | mm             | 2770    | 3080    |         | 3390     |          |
| Height Z           | mm             |         | 2500    |         | 2800     |          |
| Weight platform    | T              | 2.2     | 2.6     | 3.2     | 3.6      | 4.1      |

|                    | type           | WSP05D  | WSP15D   | WSP25D   | WSP50D   | WSP75D   |
|--------------------|----------------|---------|----------|----------|----------|----------|
| 110400202          | Hot galvanized | € 52621 | € 70357  | € 91127  | € 116329 | € 128495 |
| 110400203          | SS304          | € 83237 | € 111291 | € 144146 | € 184012 | € 203255 |
| Weight screw press | t              | 2x1     | 2x2      | 2x3      | 2x5      | 2x10     |
| Weight mixing tank | t              | 2x0.2   | 2x0.5    | 2x0.8    | 2x1.5    | 2x2.2    |
| Length X           | mm             | 6090    | 6710     | 7330     | 7950     | 8570     |
| Width Y            | mm             | 4390    | 5010     |          | 5630     |          |
| Height Z           | mm             |         | 2500     |          | 2800     |          |
| Weight platform    | t              | 3.4     | 4.2      | 5.5      | 6.2      | 7.2      |

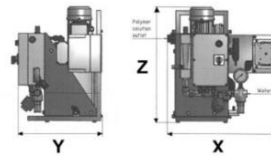


# Polymer unit 12

## 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

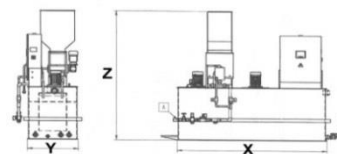


| 120100105 | SS304, Polypropylen | type                         | WPL6  | WPL12 | WPL30 | WPL135 |
|-----------|---------------------|------------------------------|-------|-------|-------|--------|
|           |                     | €                            | 24270 | 27836 | 32423 | 38984  |
|           |                     | Screw press type             | WSP05 | WSP15 | WSP25 | WSP50  |
|           |                     | Liquid Polymer (50 % active) | 0.6   | 1.2   | 3.0   | 13.5   |
|           |                     | Water (>3 Bar)               | 180   | 300   | 600   | 900    |
|           |                     | Electric power consumption   |       | 0.1   |       | 0.25   |
|           |                     | Length X                     |       | 520   |       | 637    |
|           |                     | Width Y                      |       | 302   |       | 504    |
|           |                     | Height Z                     |       | 534   |       | 588    |
|           |                     | Weight                       |       | 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



| 120100205 | Polypropylen | type                       | WPP1  | WPP2  | WPP4  | WPP8  | WPP16  |
|-----------|--------------|----------------------------|-------|-------|-------|-------|--------|
|           |              | €                          | 58297 | 67503 | 72795 | 94863 | 105685 |
|           |              | Screw press type           | WSP05 | WSP15 | WSP25 | WSP50 | WSP75  |
|           |              | Powder (100 % active)      | 0.8   | 2     | 4     | 8     | 16     |
|           |              | Water clean, >3 Bar        | 400   | 1000  | 2000  | 4000  | 8000   |
|           |              | Electric power consumption | 1.5   | 2.6   | 3.2   | 5.0   | 9.5    |
|           |              | Volume hopper              | 50    |       |       | 100   |        |
|           |              | Length X                   | 1638  | 1890  | 3237  | 2190  | 2940   |
|           |              | Width Y                    | 1351  | 862   | 1148  | 1062  | 1062   |
|           |              | Height Z                   | 2030  | 2119  | 2119  | 3105  | 3305   |
|           |              | Weight empty               | 250   | 400   | 500   | 600   | 1200   |
|           |              | Weight full                | 400   | 1000  | 1200  | 1500  | 2400   |





# Pump (Polymer) 13

## WATROMAT® Pump (Polymer)

Pump for Polymer solution with 0.1 % (max. 0.2 %) active Polymer.

Delivery 1 pc pump  
Not included



|                            |                | type    | WPU0  | WPU2  | WPU4  | WPU10 | WPU20 |
|----------------------------|----------------|---------|-------|-------|-------|-------|-------|
| 130100100                  | Pump (Polymer) | €       | 5808  | 7594  | 8272  | 9332  | 12421 |
| Screw press                |                | type    | WSP05 | WSP15 | WSP25 | WSP50 | WSP75 |
| Flow Polymer solution      |                | 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) | €    | 1151 | 1278 | 1451 | 1657  | 2396  |

|           |                      | type    | WFM15 | WFM20 | WFM25 | WFM40 | WFM50 |
|-----------|----------------------|---------|-------|-------|-------|-------|-------|
| 130100205 | Flow meter (Polymer) | €       | 2015  | 3442  | 4113  | 4366  | 4605  |
| Flow      |                      | m3/hour | 0.5   | 2     | 4     | 10    | 20    |
| Diameter  |                      | mm      | 15    | 20    | 25    | 40    | 50    |

|           |                  | type    | Winjector | Winjector |
|-----------|------------------|---------|-----------|-----------|
| 130100305 | Polymer-injector | €       | 4898      | 7520      |
| Flow      |                  | 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) | €       | 7594  | 8272  | 9332  | 12421 | 18097 |
| Screw press                |               | type    | WSP05 | WSP15 | WSP25 | WSP50 | WSP75 |
| Flow sludge                |               | 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) | €    | 1278 | 1451 | 1657  | 1965  | 2189  |

|           |                     | type    | WFM20 | WFM25 | WFM40 | WFM50 | WFM95 |
|-----------|---------------------|---------|-------|-------|-------|-------|-------|
| 130200205 | Flow meter (sludge) | €       | 3442  | 4113  | 4366  | 4605  | 5404  |
| Flow      |                     | m3/hour | 2     | 4     | 10    | 20    | 30    |
| Diameter  |                     | mm      | 20    | 25    | 40    | 50    | 95    |

|           |                     | type    | WDS   |
|-----------|---------------------|---------|-------|
| 130200305 | Dried solids sensor | €       | 26392 |
| Flow      |                     | 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 (tubes, elbows, fittings, etc. )  
**Not included** Pipe clamps



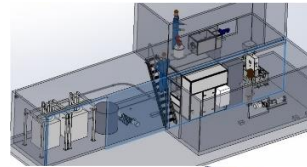
|  |                               | type              | WTU05        | WTU15        | WTU25        | WTU50        | WTU75        |
|--|-------------------------------|-------------------|--------------|--------------|--------------|--------------|--------------|
| <b>130300105</b>                                   | <b>Polyvinylchlorid (PVC)</b> | €                 | <b>14784</b> | <b>16170</b> | <b>17728</b> | <b>19510</b> | <b>22770</b> |
| <b>Screw press</b>                                 |                               | type              | WSP05        | WSP15        | WSP25        | WSP50        | WSP75        |
| <b>Throughput</b>                                  |                               | m <sup>3</sup> /h | 2            | 4            | 10           | 20           | 30           |
| <b>Diameter pipe Polymer pump till mixing tank</b> |                               | mm                | 20           | 25           |              | 32           | 50           |
| <b>Diameter pipe sludge pump till mixing tank</b>  |                               | mm                | 25           | 32           | 50           | 100          |              |
| <b>Diameter pipe mixing tank till screw press</b>  |                               | mm                | 50           |              | 100          |              | 150          |

# 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         |
|-----------------------------------|--------------------------------|------|--------------|---------------|
| <b>130400101</b>                  | <b>Steel coated, Aluminium</b> | €    | <b>96660</b> | <b>137588</b> |
| <b>Electric power consumption</b> |                                | kWh  |              | 0.8           |
| <b>Length X</b>                   |                                | mm   | 6055         | 12192         |
| <b>Width Y</b>                    |                                | mm   |              | 2435          |
| <b>Height Z inside/outside</b>    |                                | mm   |              | 2340/2591     |
| <b>Weight empty</b>               |                                | T    | 2.3          | 3.9           |



# Thickener 13

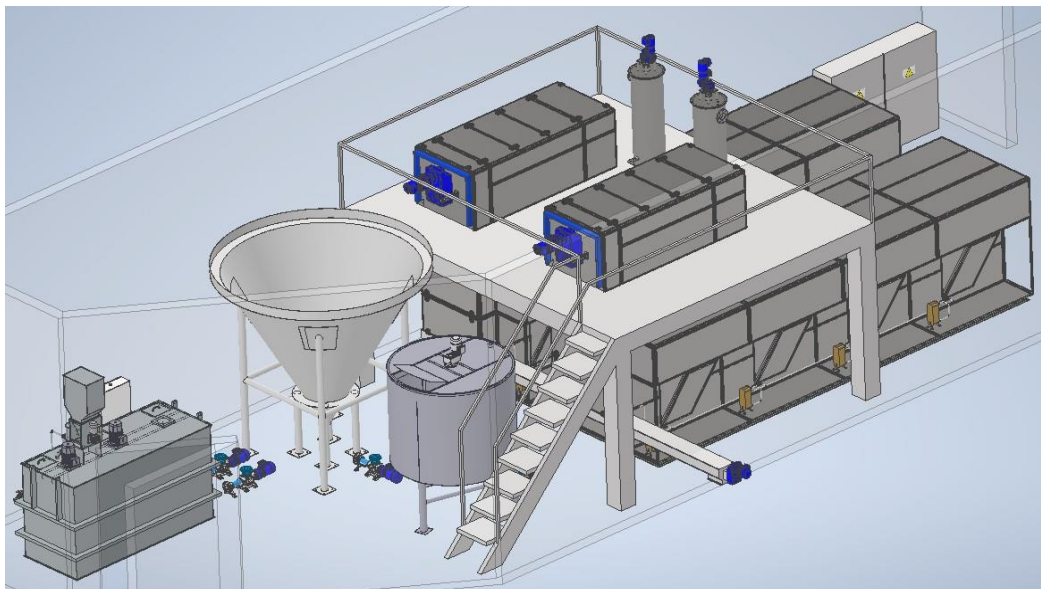
## WATROMAT® Thickener

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



| 130500104                  | SS316 | type           | WTH5   | WTH10  |
|----------------------------|-------|----------------|--------|--------|
|                            |       | €              | 238169 | 279404 |
| Volume                     |       | m <sup>3</sup> | 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     |



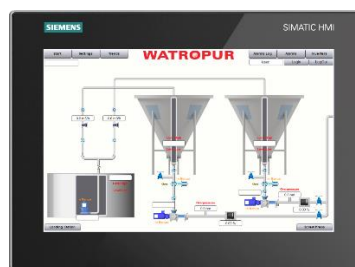
# Control cabinet thickener 13

## 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**



| 130500900 | Polyester | type | WEL1WTH | WEL2WTH |
|-----------|-----------|------|---------|---------|
|           |           | €    | 13715   | 20664   |
| Thickener |           | pc   | 1       | 2       |
| Length X  |           | mm   | 600     |         |
| Width Y   |           | mm   | 300     |         |
| Height Z  |           | mm   | 800     |         |
| Weight    |           | kg   | 35      | 45      |

# Bunker-Dryer

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**Dry sludge loading**  
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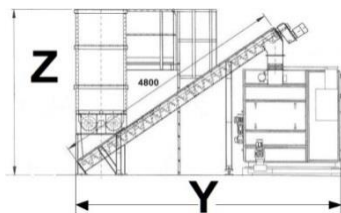
# Bunker-Dryer 20

## WATROMAT® Bunker-Dryer

Bunker-Dryer for sludge from industrial or municipal wastewater 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 H<sub>2</sub>O, 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 control cabinet bunker 200100900, 1 pc belt dryer SS304, 1 pc collecting spiral (only type WBU05WBD04 and WBU05WBD08)

**Not included** Collecting conveyor 230200XXX (only type WBU05WBD15)



|                                      | type              | WBU05WBD04 | WBU05WBD08 | WBU05WBD15 |
|--------------------------------------|-------------------|------------|------------|------------|
| 200100102                            | Hot galvanized    | € 307717   | € 327983   | € 374210   |
| 200100103                            | SS304             | € 382191   | € 402457   | € 448684   |
| 200100104                            | SS316             | € 429906   | € 450172   | € 496399   |
| Bunker volume geometric              | m <sup>3</sup>    | 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)          | m <sup>3</sup> /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        |

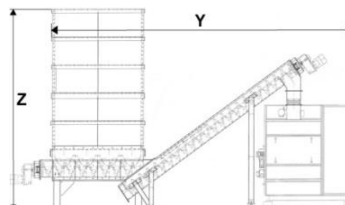
# Bunker-Dryer 20

## WATROMAT® Bunker-Dryer

Bunker-Dryer for sludge from industrial or municipal wastewater 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 H<sub>2</sub>O, 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

**Not included** 1 pc increasing conveyor, 1 pc control cabinet bunker, 1 pc belt dryer SS304  
Collecting conveyor or spiral



|                                      | type              | WBU10WBD15 | WBU10WBD30 | WBU10WBD45 |
|--------------------------------------|-------------------|------------|------------|------------|
| 200100202                            | Hot galvanized    | € 413313   | € 496918   | € 588000   |
| 200100203                            | SS304             | € 505523   | € 589128   | € 680210   |
| 200100204                            | SS316             | € 623410   | € 707015   | € 800072   |
| Bunker volume geometric              | m <sup>3</sup>    | 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)          | m <sup>3</sup> /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         |



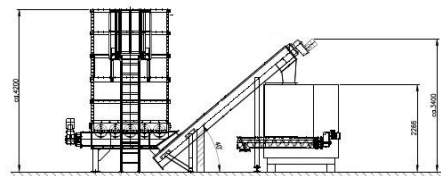
# Bunker-Dryer 20

## WATROMAT® Bunker-dryer

Bunker-Dryer for sludge from industrial or municipal wastewater 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 H<sub>2</sub>O, 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 control cabinet bunker, 1 pc belt dryer SS304

**Not included** Collecting conveyor or spiral



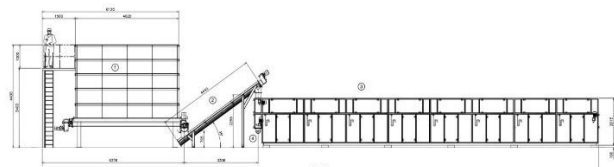
|                                      | type              | WBU18WBD30 | WBU18WBD45 | WBU18WBD60 |
|--------------------------------------|-------------------|------------|------------|------------|
| 200100302                            | Hot galvanized    | € 507263   | € 598345   | € 685446   |
| 200100303                            | SS304             | € 603674   | € 694756   | € 781858   |
| 200100304                            | SS316             | € 727651   | € 818733   | € 905835   |
| Bunker volume geometric              | m <sup>3</sup>    |            | 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 <sup>3</sup> /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         |

## WATROMAT® Bunker-dryer

Bunker-Dryer for sludge from industrial or municipal wastewater 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 H<sub>2</sub>O, 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 control cabinet bunker, 1 pc belt dryer SS304

**Not included** Collecting conveyor or spiral



|                                      | type              | WBU25WBD60 | WBU25WBD75 | WBU25WBD90 | WBU25WBD105 | WBU25WBD120 |
|--------------------------------------|-------------------|------------|------------|------------|-------------|-------------|
| 200100402                            | Hot galvanized    | € 802651   | € 891047   | € 979359   | € 1067668   | € 1149883   |
| 200100403                            | SS304             | € 820657   | € 925475   | € 997365   | € 1085674   | € 1167889   |
| 200100404                            | SS316             | € 961660   | € 1050056  | € 1138367  | € 1226677   | € 1308891   |
| Bunker volume geometric              | m <sup>3</sup>    |            |            | 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 <sup>3</sup> /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          |

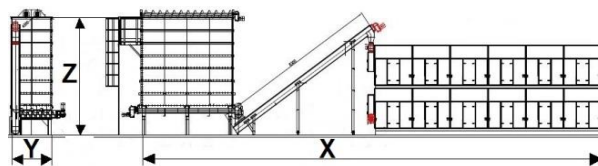
# Bunker-Dryer 20

## WATROMAT® Bunker-Dryer

Bunker-Dryer for sludge from industrial or municipal wastewater 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 H<sub>2</sub>O, 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 control cabinet bunker, 1 pc belt dryers SS314

**Not included** Collecting conveyor or spiral, Platform to hold upper dryer  
Sludge duct connection between upper and lower dryer



|                                      | type              | WB�35WBD120D | WB�35WBD150D | WB�35WBD180D | WB�35WBD210D | WB�35WBD240D |
|--------------------------------------|-------------------|--------------|--------------|--------------|--------------|--------------|
| 200100502                            | Hot galvanized    | € 1239500    | € 1405627    | € 1597970    | € 1844060    | € 1971750    |
| 200100503                            | SS304             | € 1389233    | € 1555360    | € 1761525    | € 1993793    | € 2108288    |
| 200100504                            | SS316             | € 1590525    | € 1756652    | € 1948995    | € 1616277    | € 2309580    |
| Bunker volume geometric              | m <sup>3</sup>    |              |              | 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)          | m <sup>3</sup> /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 (WB�35)                 | 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 H<sub>2</sub>O, 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         |
|--------------------------------------|-------------------|------|---------------|---------------|
| <b>210100103</b>                     | <b>SS304</b>      | €    | <b>106200</b> | <b>126466</b> |
| 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 <sup>3</sup> /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           |

## 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 H<sub>2</sub>O, 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 control cabinet  
**Not included** Collecting conveyor or spiral



|                                      |                   | type | WBD15         | WBD30         |
|--------------------------------------|-------------------|------|---------------|---------------|
| <b>210100203</b>                     | <b>SS304</b>      | €    | <b>172693</b> | <b>256299</b> |
| 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 <sup>3</sup> /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           |

## 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 H<sub>2</sub>O, 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 control cabinet  
**Not included** Collecting conveyor or spiral



|                                      |                   | type | WBD45         | WBD60         |
|--------------------------------------|-------------------|------|---------------|---------------|
| <b>210100203</b>                     | <b>SS304</b>      | €    | <b>347380</b> | <b>434482</b> |
| Water removal at 5-40 °C environment | t/day             |      | 4.            | 6             |
| Electric power consumption           | kWh               |      | 60            | 80            |
| Cooling water >3 Bar (24°C)          | m <sup>3</sup> /h |      | 1.5           | 2             |
| 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           |

# 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 H<sub>2</sub>O, shredder WSH1240.310 and rake WRA1200 included, bottom frame HEB-profile 160 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 control cabinet  
**Not included** Collecting conveyor or spiral

|                                      |       | type              | WBD75  | WBD90  |
|--------------------------------------|-------|-------------------|--------|--------|
| 210100303                            | SS304 | €                 | 522878 | 611190 |
| 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 <sup>3</sup> /h | 2.5    | 3      |
| Length X                             |       | m                 | 9.5    | 11.7   |
| Width Y                              |       | m                 |        | 2      |
| Height Z                             |       | m                 |        | 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 H<sub>2</sub>O, shredder WSH1240.310 and rake WRA1200 included, bottom frame HEB-profile 160 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 control cabinet  
**Not included** Collecting conveyor or spiral

|                                      |       | type              | WBD105 | WBD120 |
|--------------------------------------|-------|-------------------|--------|--------|
| 210100303                            | SS304 | €                 | 699499 | 781714 |
| Water removal at 5-40 °C environment |       | t/day             | 10.5   | 12     |
| Electric power consumption           |       | kWh               | 140    | 160    |
| Cooling water >3 Bar (24°C)          |       | m <sup>3</sup> /h | 3.5    | 4      |
| Length X                             |       | m                 | 13.6   | 15.4   |
| Width Y                              |       | m                 |        | 2      |
| Height Z                             |       | m                 |        | 2      |
| Weight empty                         |       | t                 | 8.3    | 10     |
| Weight full                          |       | t                 | 9.9    | 11.6   |

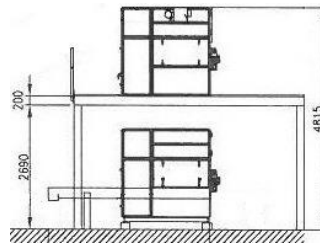


# Belt dryer 21

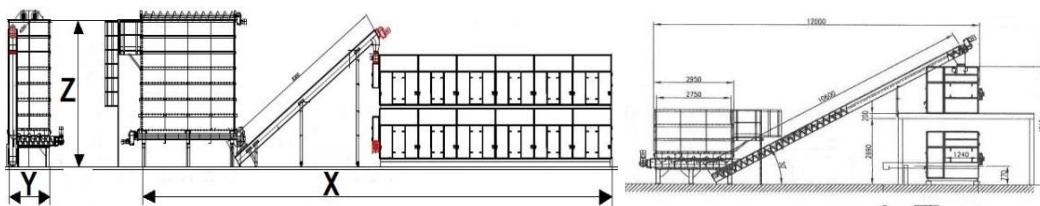
## WATROMAT® Belt dryer

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 H<sub>2</sub>O, shredder WSH1240.310 and two rakes WRA1200 included, bottom frame HEB-profile 160 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** 2 pcs belt dryers, 1 pc 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             | € 6866454 | € 1032582 | € 1224925 | € 1471015 | € 1585510 |
| 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 <sup>3</sup> /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        |

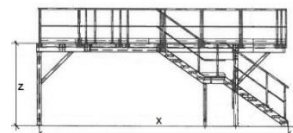


# Platform 21

## WATROMAT® Platform

Platform to hold and maintain upper belt dryer from belt dryer double (210500503), with stair 800 mm double sided railing, and grating, whole construction is screwed in individual segments.

**Delivery** 1 pc platform (individual segments)  
**Not included** Installation on site



|                 | type           | WBD120D | WBD150D  | WBD180D  | WBD210D  | WBD240D  |
|-----------------|----------------|---------|----------|----------|----------|----------|
| 210100802       | Hot galvanized | € 65231 | € 87219  | € 112966 | € 145035 | € 159291 |
| 210100803       | SS304          | € 94585 | € 126468 | € 163800 | € 210301 | € 230972 |
| 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 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 | WELDAG15 |
|-----------|-----------|------|----------|
| 210100900 | Polyester | €    | 17100    |
| Length X  | mm        |      | 300      |
| Width Y   | mm        |      | 400      |
| Height Z  | mm        |      | 600      |
| Weight    | kg        |      | 41       |

|           |           | type | WELBD04 | WELWBD08 |
|-----------|-----------|------|---------|----------|
| 210100900 | Polyester | €    | 24956   | 26204    |
| Length X  | mm        |      |         | 300      |
| Width Y   | mm        |      |         | 600      |
| Height Z  | mm        |      |         | 800      |
| Weight    | kg        |      | 41      | 43       |

|           |              | type | WELWBD15 | WELWBD30 | WELWBD45 | WELWBD60 |
|-----------|--------------|------|----------|----------|----------|----------|
| 210100900 | Steel coated | €    | 29748    | 30846    | 31734    | 32413    |
| 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 | €    | 33645    | 34639    | 35650     | 36666     |
| 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 | €   | 44805      | 48740      | 52826      | 58271      | 64287      |
| 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 | €    | 1637       | 566        | 552           | 512      |
| 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 20 till 40 % 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  |
|---------------------|--------------|-------|--------------|--------------|
| <b>210200103</b>    | <b>SS304</b> | €     | <b>14055</b> | <b>20577</b> |
| 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  |
|-------------------|--------------------------|------|------------|
| <b>210200115</b>  | <b>Sprocket Polyamid</b> | €    | <b>592</b> |
| Used for shredder |                          | type | WSHXXX     |



## WATROMAT® Rake

Rake with linear pneumatic 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     |
|------------------|--------------|------|-------------|-------------|
| <b>210200203</b> | <b>SS314</b> | €    | <b>5657</b> | <b>6229</b> |
| Length           |              | mm   | 900         | 1200        |
| Weight           |              | kg   | 22          | 26          |

|                  |                               | type | WRA900      | WRA1200     |
|------------------|-------------------------------|------|-------------|-------------|
| <b>210200210</b> | <b>Linear drive pneumatic</b> | €    | <b>3121</b> | <b>7913</b> |
| 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     |
|------------------|--------------|------|-------------|-------------|
| <b>210200303</b> | <b>SS304</b> | €    | <b>3123</b> | <b>3934</b> |
| 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 | €    | 7778   | 10879  | 16112      |
| 210300104  | Evaporator SS316 | €    | 9151   | 12799  | 19448      |
| 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     |
|------------|-----------------|------|--------|--------|------------|
| 210300203  | Condenser SS304 | €    | 8445   | 13011  | 17778      |
| 210300204  | Condenser SS316 | €    | 9935   | 16601  | 23278      |
| 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 | EXTC04 | EXTC08 | EXTC15     |
|------------|--------------------|------|--------|--------|------------|
| 210300213  | External condenser | €    | 2260   | 3588   | 6026       |
| Belt dryer |                    | type | WBD04  | WBD08  | WBD15-240D |
| Length X   |                    | mm   | 76     | 98     | 122        |
| Width Y    |                    | mm   | 90     | 90     | 124        |
| Height Z   |                    | mm   | 464    | 464    | 335        |
| Weight     |                    | kg   | 6      | 7.5    | 8          |



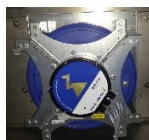
|            |                    | type | COMP04 | COMP08 | COMP15     |
|------------|--------------------|------|--------|--------|------------|
| 210300301  | Cooling compressor | €    | 5924   | 11442  | 19074      |
| Belt dryer |                    | type | WBD04  | WBD08  | WBD15-240D |
| Length X   |                    | mm   | 225    | 280    | 415        |
| Width Y    |                    | mm   | 225    | 280    | 750        |
| Height Z   |                    | mm   | 510    | 552    | 445        |
| Weight     |                    | kg   | 39     | 65     | 211        |



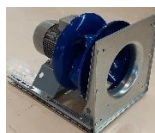
|                |                   | type | GM37     | GM150      |
|----------------|-------------------|------|----------|------------|
| 210300310      | Gear motor (belt) | €    | 1278     | 2193       |
| Belt dryer     |                   | type | WBD04-60 | WBD75-240D |
| Electric power |                   | 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 | VENTD15    |
|------------|-------------------|------|------------|
| 210300405  | Ventilator ECblue | €    | 7860       |
| Belt dryer |                   | type | WBD04-240D |
| Length X   |                   | mm   | 380        |
| Width Y    |                   | mm   | 550        |
| Height Z   |                   | mm   | 550        |
| Weight     |                   | kg   | 36         |



|            |                             | type | VENT15     |
|------------|-----------------------------|------|------------|
| 210300405  | Ventilator classic incl. FI | €    | 6868       |
| 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 | €    | 56         |



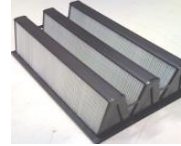
# Filter and belt 21

## 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

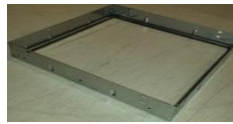
|                  |               | type | 869.592.292<br>(after 2016) | 892.592.292<br>(before 2015) |
|------------------|---------------|------|-----------------------------|------------------------------|
| <b>210400105</b> | <b>Filter</b> | €    | <b>783</b>                  | <b>838</b>                   |
|                  | Length X      | mm   | 869                         | 897                          |
|                  | Width Y       | mm   | 592                         | 592                          |
|                  | Height Z      | mm   | 292                         | 380                          |
|                  | Weight        | kg   | 7                           | 7                            |



|                  |                        | type | 869.592.20 |
|------------------|------------------------|------|------------|
| <b>210400203</b> | <b>Prefilter SS304</b> | €    | <b>911</b> |
|                  | Length X               | mm   | 869        |
|                  | Width Y                | mm   | 592        |
|                  | Height Z               | mm   | 20         |
|                  | Weight                 | kg   | 3          |



|                  |                             | type | 887.609.70 |
|------------------|-----------------------------|------|------------|
| <b>210400303</b> | <b>Mounting frame SS304</b> | €    | <b>667</b> |
|                  | Length X                    | mm   | 887        |
|                  | Width Y                     | mm   | 609        |
|                  | Height Z                    | mm   | 70         |
|                  | Weight                      | kg   | 2          |

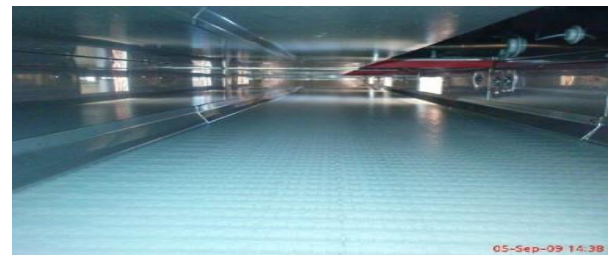


## WATROMAT® Belt

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

**Delivery** 1 pc, belt min. 1 m length  
**Not included**

|                  |                | type          | WBE09      | WBE12      |
|------------------|----------------|---------------|------------|------------|
| <b>210500105</b> | <b>Belt PP</b> | €/m (length)  | <b>754</b> | <b>966</b> |
|                  | Belt dryer     | type          | WBD04-08   | WBD15-240D |
|                  | Width          | m             | 0,9        | 1,2        |
|                  | Weight         | kg/m (length) | 4,5        | 6          |



|                  |                    | type | WSO25         | WSO35      |
|------------------|--------------------|------|---------------|------------|
| <b>210500205</b> | <b>Sprocket PA</b> | €    | <b>136</b>    | <b>172</b> |
|                  | Belt dryer         | type | WBD04-60/120D | WBD75-240D |
|                  | Diameter shaft     | mm   | 25            | 35         |
|                  | Weight             | kg   | 0,3           | 0,4        |



|                  |                           | type | WSO25     | WSO35      |
|------------------|---------------------------|------|-----------|------------|
| <b>210500303</b> | <b>Ball bearing SS304</b> | €    | <b>68</b> | <b>80</b>  |
|                  | Belt dryer                | type | WBD04-60  | WBD75-240D |
|                  | Diameter shaft            | mm   | 25        | 35         |
|                  | Weight                    | kg   | 0,3       | 0,4        |

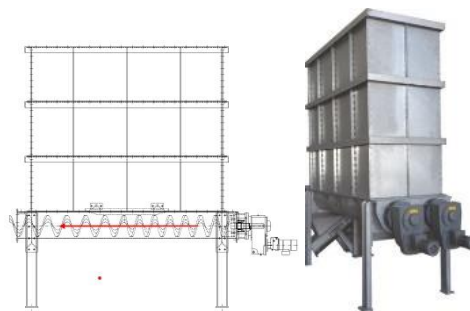


# Bunker 22

## WATROMAT® Bunker

Bunker for sludge 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 | €    | 123534 |
| 220200103                      | SS304          | €    | 179125 |
| 220200104                      | SS316          | €    | 216185 |
| 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    |

# 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  
**Not included** 2-5 pcs bunker wall segments  
Increasing conveyor, platform ladder, control cabinet



|  |                | type | WBU10  | WBU18  | WBU25  | WBU35  |
|--|----------------|------|--------|--------|--------|--------|
| 220300102                                      | Hot galvanized | €    | 164900 | 174235 | 200328 | 292726 |
| 220300103                                      | SS304          | €    | 239104 | 252640 | 290475 | 424453 |
| 220300104                                      | SS316          | €    | 346703 | 366328 | 421189 | 615457 |
| Volume geometric                               | m3             |      | 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 | WBU05-10 | WBU18     | WBU25 | WBU35 |
|---------------|----------------|------|----------|-----------|-------|-------|
| 220300202     | Hot galvanized | €    | 4991     | 5457      | 6189  | 6588  |
| 220300203     | SS304          | €    | 7237     | 7913      | 8974  | 9553  |
| 220300204     | SS316          | €    | 12665    | 13847     | 15705 | 16718 |
| 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   |

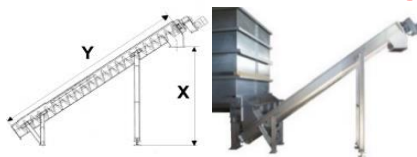


# Increasing conveyor 22

## 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



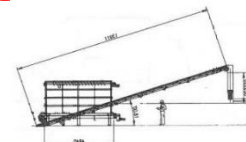
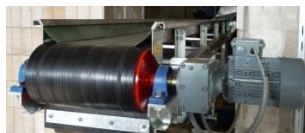
|                      |                | type              | WSC48/35  | WSC46/35 |
|----------------------|----------------|-------------------|-----------|----------|
| 220600102            | Hot galvanized | €                 | 53706     | 51443    |
| 220600103            | SS304          | €                 | 72590     | 69449    |
| 220600104            | SS316          | €                 | 83245     | 79738    |
| Bunker 220100XXX     |                | type              | WBU05     | WBU10-35 |
| Belt dryer 210100XXX |                | type              | WBD04-120 |          |
| Electric power       |                | kWh               | 3         |          |
| Capacity             |                | m <sup>3</sup> /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



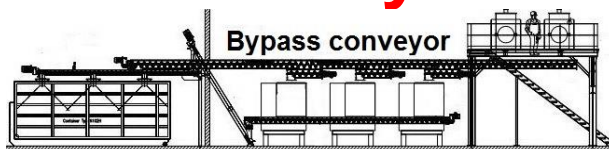
|                   |       | type              | WSC54/18  | WSC49/18 | WSC83/18     | WSC139/18 |
|-------------------|-------|-------------------|-----------|----------|--------------|-----------|
| 220600203         | SS304 | €                 | 51110     | 53706    | 66483        | 77800     |
| Bunker            |       | type              | WBU05     | WBU10-25 | WBU10-35     |           |
| Belt dryer        |       | Type              | WBD04-120 |          | WBD120D-240D |           |
| Electric power    |       | kWh               | 2.2       |          | 3            |           |
| Capacity          |       | m <sup>3</sup> /h |           |          | 2            |           |
| Length Y          |       | mm                | 5400      | 4900     | 8329         | 13900     |
| Increasing degree |       | °                 |           |          | 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 | €                 | 56629 | 64637  | 75276  | 83271  | 91647  | 99512  |
| 220600303         | SS304          | €                 | 84943 | 96956  | 112914 | 124907 | 137471 | 149268 |
| 220600304         | SS316          | €                 | 96269 | 109884 | 127969 | 141561 | 155800 | 169171 |
| 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          |                | m <sup>3</sup> /h | 10    |        |        |        |        |        |
| Length            |                | m                 | 4.5   | 7.5    | 10.5   | 13.5   | 16.5   | 19.5   |
| Weight            |                | kg                | 480   | 780    | 1080   | 1380   | 1680   | 1980   |

# Dosing conveyor 22

## WATROMAT® Dosing conveyor

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

Delivery 1 pc  
Not included Control cabinet



|                 |                | type | WSC25 |
|-----------------|----------------|------|-------|
| 220600502       | Hot galvanized | €    | 23873 |
| 220600503       | SS304          | €    | 30407 |
| 220600504       | SS316          | €    | 37448 |
| Capacity sludge |                | m3/h | 2     |
| Electric power  |                | kWh  | 0.35  |
| Capacity        |                | m3/h | 2     |
| Length          |                | m    | 2.5   |
| Weight          |                | kg   | 480   |

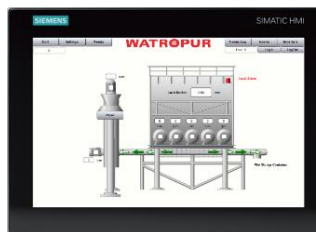
# Control cabinet bunker 22

## 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 control cabinet  
Not included



|           |           | type | WELWBU10 | WELWBU18 | WELWBU25 | WELWBU35 |
|-----------|-----------|------|----------|----------|----------|----------|
| 220900900 | Polyester | €    | 24276    | 25286    | 26251    | 28876    |
| Bunker    |           | type | WBU05-10 | WBU18    | WBU25    | WBU35    |
| Length X  |           | mm   |          |          | 400      |          |
| Width Y   |           | mm   |          |          | 250      |          |
| Height Z  |           | mm   |          |          | 600      |          |
| Weight    |           | kg   | 35       | 40       | 45       | 50       |



# 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      | SS304             | € 4346   | € 4905    |
| Belt dryer     | type              | WBD04-08 | WBD15-120 |
| Electric power | kWh               | 0.37     |           |
| Capacity       | m <sup>3</sup> /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 | € 5125 | € 5923 | € 6722 | € 7520 | € 8319 | € 9117 |
| 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             | € | 1032 |
| Electric power consumption | kW                |   | 0.75 |
| Capacity                   | m <sup>3</sup> /h |   | 0.5  |

|           |                                      |   |      |
|-----------|--------------------------------------|---|------|
| 230100220 | Control unit with full flow detector | € | 1038 |
|-----------|--------------------------------------|---|------|



|           |                 |     |     |
|-----------|-----------------|-----|-----|
| 230100230 | Flexible spiral | €/m | 233 |
| Weight    | kg/m            |     | 1.5 |

|           |           |   |     |
|-----------|-----------|---|-----|
| 230100240 | End piece | € | 353 |
|-----------|-----------|---|-----|

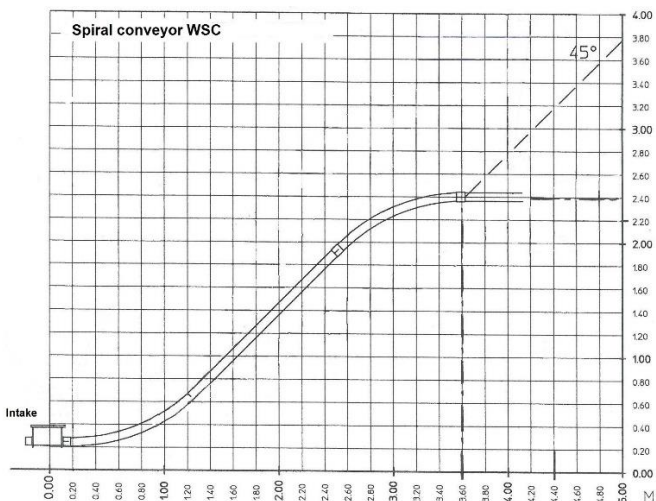
|           |             |   |      |
|-----------|-------------|---|------|
| 230100255 | Intake boot | € | 1657 |
|-----------|-------------|---|------|

|           |          |     |     |
|-----------|----------|-----|-----|
| 230100260 | Pipe PVC | €/m | 512 |
| Weight    | kg/m     |     | 0.6 |

|           |       |   |     |
|-----------|-------|---|-----|
| 230100270 | Elbow | € | 246 |
|-----------|-------|---|-----|



|           |             |     |     |
|-----------|-------------|-----|-----|
| 230100280 | Outlet drop | €/m | 487 |
|-----------|-------------|-----|-----|



# 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)

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



|                   |              | type | WLS1         | WLS2         | WLS3         | WLS4         | WLS5         |
|-------------------|--------------|------|--------------|--------------|--------------|--------------|--------------|
| <b>230100303</b>  | <b>SS304</b> | €    | <b>20631</b> | <b>30484</b> | <b>35445</b> | <b>40303</b> | <b>45419</b> |
| 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       |
|-------------------|--------------------------------|------|-------------|
| <b>230100313</b>  | <b>Elevation bagging point</b> | €    | <b>5218</b> |
| Bag volume        |                                | m3   | 2           |
| Elevation         |                                | mm   | 800         |
| Height free below |                                | mm   | 2200        |
| Weight            |                                | kg   | 24          |



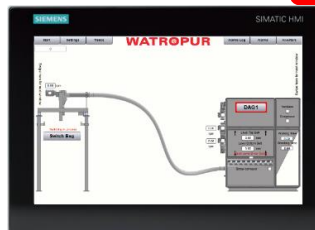
# Control cabinet bagging 23

## 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       |
|------------------|------------------|------|--------------|
| <b>230100900</b> | <b>Polyester</b> | €    | <b>12308</b> |
| Length X         |                  | mm   | 600          |
| Width Y          |                  | mm   | 300          |
| Height Z         |                  | mm   | 800          |
| Weight           |                  | kg   | 30           |



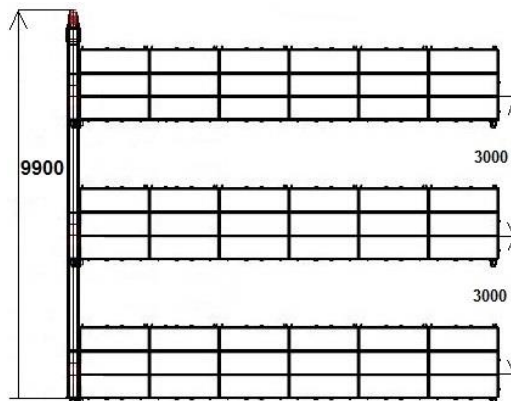
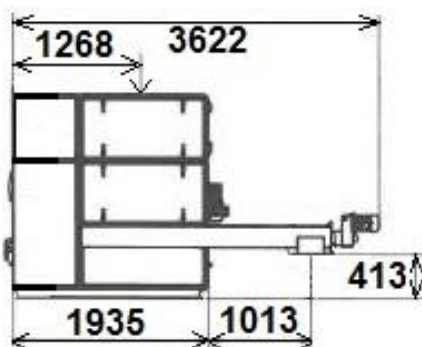
# Collecting conveyor 23

## WATROMAT® Collecting conveyor

Collecting conveyor for sludge with minimum 60 % dried solids, is fixed at outlet of belt dryer (210XXXXX), collect the sludge from the belt dryer and transport it to the increasing conveyor (210200XXX).

**Delivery** 1 pc collecting conveyor  
**Not included** Control cabinet

|                   | type  | WSC24   | WSC61   | WSC99   | WSC136  |
|-------------------|-------|---------|---------|---------|---------|
| 230200103         | SS304 | € 24685 | € 39511 | € 46034 | € 51358 |
| 230200104         | SS316 | € 37027 | € 59266 | € 69051 | € 77037 |
| Inlet connections | pcs   | 1       | 2       | 3       | 4       |
| Electric power    | kWh   |         |         | 1.1     |         |
| Capacity          | m3/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 | € 47051  | € 51443  | € 65751  | € 79394  |
| 230200204                    | SS316 | € 60427  | € 75068  | € 100357 | € 117660 |
| Length Y                     | mm    | 4800     | 5500     | 6500     | 8500     |
| Used for container (page 52) | type  | 1xWTC    | 2xWTC    | 1xWGM    | 2xWGM    |
| Electric power               | kWh   |          |          | 3        |          |
| Capacity                     | m3/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 (for spiral roll off container)

Distribution conveyor for loading of spiral roll off containers (roll off container is equipped with internal spiral conveyors) for dry sludge with minimum 60 % dried solids, container filling volume 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        |
|------------------|--------------|------|--------------|--------------|--------------|--------------|--------------|
| <b>230300303</b> | <b>SS304</b> | €    | <b>46860</b> | <b>57952</b> | <b>64192</b> | <b>70330</b> | <b>76724</b> |
| 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

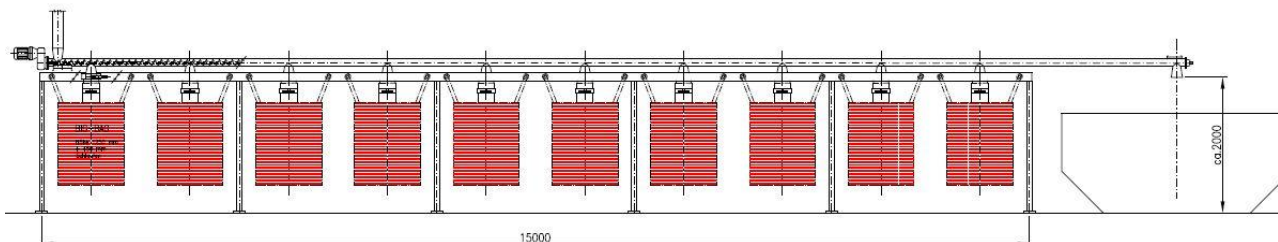
## WATROMAT® Distribution conveyor (for Big Bag)

Distribution conveyor for loading of 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        |
|---|----------------------|------|--------------|--------------|--------------|--------------|--------------|
| <b>230300402</b>                            | <b>Steel painted</b> | €    | <b>43285</b> | <b>68695</b> | <b>82940</b> | <b>97240</b> | <b>24186</b> |
| 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          |



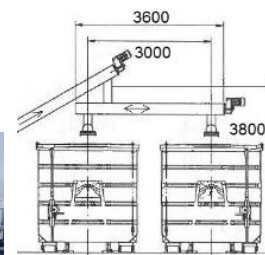
# Reversible conveyor 23

## WATROMAT® Reversible conveyor (for roll off container)

Reversible conveyor (horizontal) for sludge with minimum 60 % dried solids for distribution between more than one roll off containers, 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             | €    | 60427 | 75068 |
| Outlets        | pcs               |      | 2     | 3     |
| Electric power | kWh               |      | 0.75  |       |
| Capacity       | m <sup>3</sup> /h |      | 2     |       |
| Length         | mm                |      | 3600  | 6600  |
| Weight         | kg                |      | 460   | 500   |



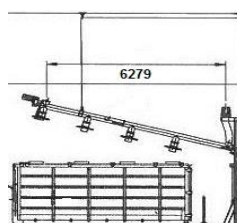
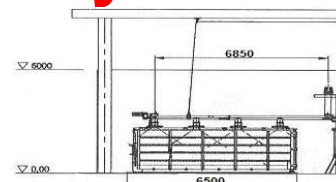
# Distribution conveyor 23

## WATROMAT® Distribution conveyor (for roll of container)

Distribution conveyor for loading sludge with minimum 60 % dried solids into roll off containers, container filling volume maximum 80 %, transport sludge 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 distribution 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             | €    | 43285      | 68695      | 82940      | 97240      |
| 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 <sup>3</sup> /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 | €    | 24186     | 28025     | 30113     |
| 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        |



# Container-Dryer

# Page Part



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**Page** Part

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**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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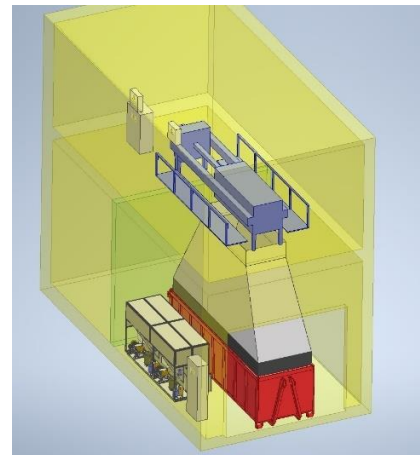
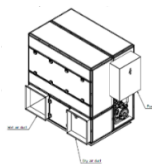
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# Container-Dryer 30

## 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 H<sub>2</sub>O, 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

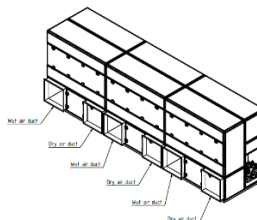


|   | type              | WCD15    |
|---|-------------------|----------|
| 300100203                                 | SS304             | € 145822 |
| Water removal at 10-35°C environment      | t/day             | 1.5      |
| Electric power                            | kWh               | 20       |
| Cooling water >3 Bar (24°C)               | m <sup>3</sup> /h | 0.5      |
| Drying container volume                   | m <sup>3</sup>    | 9-30     |
| Length                                    | mm                | 1910     |
| Width                                     | m                 | 1240     |
| Height                                    | m                 | 1910     |
| Dry air duct                              | 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 H<sub>2</sub>O, 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 duct, wet air duct



|   | type              | WCD30    | WCD45    | WCD60    |
|---|-------------------|----------|----------|----------|
| 300100203                                 | SS304             | € 198828 | € 272247 | € 328206 |
| 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 <sup>3</sup> /h | 1        | 1.5      | 2        |
| Drying container volume                   | m <sup>3</sup>    | 15-30    | 20-30    | 30       |
| Length                                    | mm                | 3795     | 5680     | 7565     |
| Width                                     | mm                | 1240     | 1240     | 1240     |
| Height                                    | mm                | 1910     | 1910     | 1910     |
| Dry air duct                              | pc                | 2        | 3        | 4        |
| Dry air duct connection dimension inside  | mmxmm             | 570x570  | 570x570  | 570x570  |
| Wet air duct                              | 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® 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      | WELWCD15 |
|-----------|-----------|----------|
| 300100900 | Polyester | € 19133  |
| Length X  | mm        | 300      |
| Width Y   | mm        | 600      |
| Height Z  | mm        | 800      |
| Weight    | kg        | 85       |



|           | type         | WELWCD30 | WELWCD45 | WELWCD60 |
|-----------|--------------|----------|----------|----------|
| 300100900 | Steel coated | € 24699  | € 27111  | € 36674  |
| Length X  | mm           | 400      | 800      | 2100     |
| Width Y   | mm           | 800      | 2100     | 140      |
| Height Z  | mm           | 120      | 130      | 140      |
| 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        |
|------------------|------------------------------|------|--------------|--------------|--------------|--------------|--------------|
| <b>310200101</b> | <b>Steel painted RAL3020</b> | €    | <b>17629</b> | <b>18208</b> | <b>19126</b> | <b>21536</b> | <b>22939</b> |
| Used with dryer  | type                         |      | WCD04-15     |              | WCD04-30     | WCD04-45     | WCD04-60     |
| Volume           | m <sup>3</sup>               |      | 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 | WTC06       | WTC09       | WGM15       | WGM20       | WGM30       |
|------------------|------------------|------|-------------|-------------|-------------|-------------|-------------|
| <b>310200115</b> | <b>Cover PVC</b> | €    | <b>2183</b> | <b>2393</b> | <b>2507</b> | <b>2628</b> | <b>2868</b> |
| 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     |
|------------------|----------------------------|------|------------|
| <b>310200121</b> | <b>Cover air injection</b> | €    | <b>830</b> |
| Length X         | m                          |      | 0,57       |
| Height           | M                          |      | 0,1        |
| Weight           | kg                         |      | 25         |

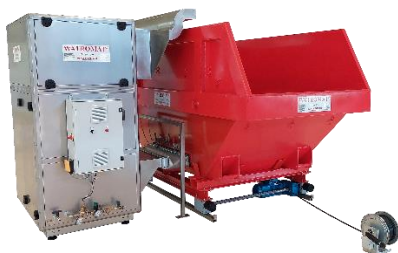


## WATROMAT® Car

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

**Delivery** 1 pc car  
**Not included**

|                     |                              | type | WTW0WTC      | WTW90WTC     |
|---------------------|------------------------------|------|--------------|--------------|
| <b>310200201</b>    | <b>Steel painted RAL3020</b> | €    | <b>21240</b> | <b>23650</b> |
| Used with container | type                         |      | 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 components, connect dryer with drying container.

**Delivery** 1 pc air duct  
**Not included**



|                  |                   | type | TLKWCD15    | Cuff15      | TLKseal    |
|------------------|-------------------|------|-------------|-------------|------------|
| <b>320100103</b> | <b>Galvanized</b> | €    | <b>3097</b> | <b>2099</b> | <b>375</b> |
| Dryer            | type              |      | WCD15       | WCD15       | WCD15-60   |
| Length X         | m                 |      | 0.5         | 1           | 2          |
| Width Y          | mm                |      | 570         | 500         |            |
| Height Z         | mm                |      | 570         | 0.1         |            |
| Weight           | kg                |      | 20          | 18          | 1          |



## WATROMAT® Wet air duct

Wet air duct, guide wet air back to dryer.

**Delivery** 1 pc air duct  
**Not included**

|                  |                   | type | RLKWCD15    |
|------------------|-------------------|------|-------------|
| <b>320200102</b> | <b>Galvanized</b> | €    | <b>4752</b> |
| Dryer            | type              |      | WSD15       |
| Length X         | m                 |      | 2           |
| Width Y          | mm                |      | 570         |
| Height Z         | mm                |      | 570         |
| Weight           | kg                |      | 28          |



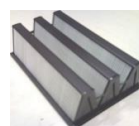
# Filter 33

## WATROMAT® Filter

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

**Delivery** 1 pc  
**Not included**

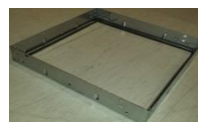
|                  |               | type | 869.592.292 |
|------------------|---------------|------|-------------|
| <b>330200105</b> | <b>Filter</b> | €    | <b>783</b>  |
| Length X         | mm            |      | 869         |
| Width Y          | mm            |      | 592         |
| Height Z         | mm            |      | 292         |
| Weight           | kg            |      | 7           |



|                  |                        | type | 869.592.20 |
|------------------|------------------------|------|------------|
| <b>330200203</b> | <b>Prefilter SS304</b> | €    | <b>911</b> |
| Length X         | mm                     |      | 869        |
| Width Y          | mm                     |      | 592        |
| Height Z         | mm                     |      | 20         |
| Weight           | kg                     |      | 3          |



|                  |                             | type | 887.609.70 |
|------------------|-----------------------------|------|------------|
| <b>330200303</b> | <b>Mounting frame SS304</b> | €    | <b>667</b> |
| Length X         | mm                          |      | 887        |
| Width Y          | mm                          |      | 609        |
| Height Z         | mm                          |      | 70         |
| Weight           | kg                          |      | 2          |



# Heat exchanger and motor 33

## WATROMAT® Heat exchanger

Heat exchanger and motors for container dryer 300100XXX. Evaporator for cooling and condenser for heating of drying air cycle. External condenser water cooled.

Delivery 1 pc  
Not included

|           |                  | type | EVAP15 |
|-----------|------------------|------|--------|
| 310300203 | Evaporator SS304 | €    | 16112  |
| 310300204 | Evaporator SS314 | €    | 19448  |
| Dryer     |                  | type | WCD15  |
| Length X  |                  | mm   | 1810   |
| Width Y   |                  | mm   | 300    |
| Height Z  |                  | mm   | 620    |
| Weight    |                  | kg   | 90     |



|           |                 | type | COND15 |
|-----------|-----------------|------|--------|
| 310300203 | Condenser SS304 | €    | 17778  |
| 310300204 | Condenser SS316 | €    | 23278  |
| Dryer     |                 | type | WCD15  |
| Length X  |                 | mm   | 1730   |
| Width Y   |                 | mm   | 350    |
| Height Z  |                 | mm   | 620    |
| Weight    |                 | kg   | 113    |



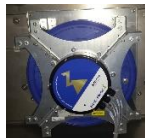
|           |                    | type | EXTC15 |
|-----------|--------------------|------|--------|
| 310300202 | External condenser | €    | 2554   |
| Dryer     |                    | type | WCD15  |
| Length X  |                    | mm   | 122    |
| Width Y   |                    | mm   | 124    |
| Height Z  |                    | mm   | 335    |
| Weight    |                    | kg   | 8      |



|           |            | type | COMP15 |
|-----------|------------|------|--------|
| 310300301 | Compressor | €    | 19074  |
| Dryer     |            | type | WCD15  |
| Length X  |            | mm   | 415    |
| Width Y   |            | mm   | 750    |
| Height Z  |            | mm   | 445    |
| Weight    |            | kg   | 211    |



|           |                   | type | VENT15 |
|-----------|-------------------|------|--------|
| 310300401 | Ventilator ECblue | €    | 7860   |
| Dryer     |                   | type | WCD15  |
| Length X  |                   | mm   | 380    |
| Width Y   |                   | mm   | 550    |
| Height Z  |                   | mm   | 550    |
| Weight    |                   | kg   | 36     |



|           |            | type | Dual Hinge |
|-----------|------------|------|------------|
| 310300505 | Dual Hinge | €    | 42         |



# 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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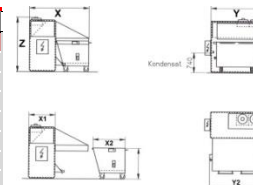
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# Skip-Dryer 40

## 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 H<sub>2</sub>O, 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

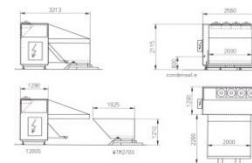


|                                       | type  |   | WSD01 | WSD04     | WSD08     |
|---------------------------------------|-------|---|-------|-----------|-----------|
| 400100103                             | SS304 | € | 38559 | 61492     | 85719     |
| Water removal at 10-35 °C environment | t/day |   | 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 H<sub>2</sub>O, 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 | € | 102874 | 117711    | 141041 | 155692    |
| 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 | € | 10200      | 11076      | 13038      | 16308      | 19105      |
| Skip 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 | € | 578    |





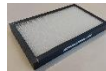
# Filter 40

## 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 | 500.300.47 | 490.490.47 |
|------------------|---------------|------|------------|------------|
| <b>400200105</b> | <b>Filter</b> | €    | <b>185</b> | <b>196</b> |
|                  | Skip-dryer    | type | WSD01      | WSD04-24   |
|                  | Length X      | mm   | 500        | 490        |
|                  | Width Y       | mm   | 300        | 490        |
|                  | Height Z      | mm   | 47         | 47         |
|                  | Weight        | kg   | 0.8        | 1.1        |



|                  |                                    | type | 507.507.70 |
|------------------|------------------------------------|------|------------|
| <b>400200113</b> | <b>Filter mounting frame SS304</b> | €    | <b>248</b> |
|                  | Filter                             | type | 490.490.47 |
|                  | 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, external condenser air-cooled.

Delivery 1 pc  
Not included

|                  |                          | type | EVAP01      | EVAP04       | EVAP08       | EVAP16       | EVAP24       |
|------------------|--------------------------|------|-------------|--------------|--------------|--------------|--------------|
| <b>400300102</b> | <b>Evaporator copper</b> | €    | <b>2478</b> | <b>3524</b>  | <b>4553</b>  | <b>7825</b>  | <b>9630</b>  |
| <b>400300103</b> | <b>Evaporator SS304</b>  | €    | <b>4858</b> | <b>9412</b>  | <b>13164</b> | <b>16571</b> | <b>19912</b> |
| <b>400300104</b> | <b>Evaporator SS316</b>  | €    | <b>5524</b> | <b>11073</b> | <b>15486</b> | <b>19495</b> | <b>24703</b> |
|                  | 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       |
|------------------|-------------------------|------|-------------|--------------|--------------|--------------|--------------|
| <b>400300202</b> | <b>Condenser copper</b> | €    | <b>2643</b> | <b>3801</b>  | <b>5691</b>  | <b>9389</b>  | <b>11556</b> |
| <b>400300203</b> | <b>Condenser SS304</b>  | €    | <b>5132</b> | <b>10218</b> | <b>15743</b> | <b>18850</b> | <b>20165</b> |
| <b>400300204</b> | <b>Condenser SS316</b>  | €    | <b>5790</b> | <b>12022</b> | <b>20087</b> | <b>25356</b> | <b>28167</b> |
|                  | 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      | EXTC15      | EXTC24      |
|------------------|----------------------------------|------|-------------|-------------|-------------|-------------|-------------|
| <b>400300302</b> | <b>External condenser copper</b> | €    | <b>1790</b> | <b>2486</b> | <b>3946</b> | <b>6628</b> | <b>9024</b> |
|                  | 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       | COMP15       | COMP24       |
|------------------|---------------------------|------|-------------|-------------|--------------|--------------|--------------|
| <b>400300500</b> | <b>Cooling compressor</b> | €    | <b>4193</b> | <b>6517</b> | <b>12586</b> | <b>18024</b> | <b>36049</b> |
|                  | Skip-Dryer                | type | WSD01       | WSD04       | WSD08        | WSD12-16     | WSD20-24     |



|                  |                   | type | VENT01      | VENT04      | VENT08      | VENT15      | VENT24       |
|------------------|-------------------|------|-------------|-------------|-------------|-------------|--------------|
| <b>400300600</b> | <b>Ventilator</b> | €    | <b>2850</b> | <b>3640</b> | <b>5488</b> | <b>8560</b> | <b>17120</b> |
|                  | 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 | € 4298 | € 9043   | € 10716  |
| 410100103      | SS304          | € 8410 | € 16608  | € 20194  |
| Skip-Dryer     | type           | WSD01  | WSD04-08 | WSD08-16 |
| Volume         | liter          | 500    | 1300     | 1700     |
| Effective 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 | € 2939 | € 4055 | € 4556 |
| 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    |

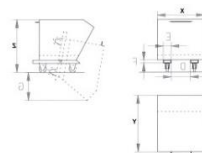


# Drying skip 41

## 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)

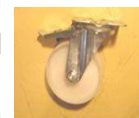
**Delivery** 1 pc drying skip with 4 pcs castors  
**Not included**



|                  | type           | WKB04  | WKB08    | WKB12    |
|------------------|----------------|--------|----------|----------|
| 410100202        | Hot galvanized | € 4744 | € 8758   | € 13157  |
| 410100203        | SS304          | € 7352 | € 13575  | € 20392  |
| Skip-Dryer       | type           | WSD01  | WSD04-08 | WSD08-12 |
| Volume           | liter          | 400    | 800      | 1200     |
| Effective 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      | Polyamide | € 189 | € 322  |
| Effectiv load  | kg        | 450   | 450    |
| Lock backwards |           | No    | Yes    |
| Height         | mm        | 224   |        |
| Weight         | kg        | 5     | 6      |



|                | type      | Fix   | Swivel |
|----------------|-----------|-------|--------|
| 410100310      | Polyamide | € 379 | € 469  |
| Effectiv load  | kg        | 800   | 590    |
| Lock backwards |           | No    | Yes    |
| Height         | mm        | 224   |        |
| Weight         | kg        | 5     | 6      |

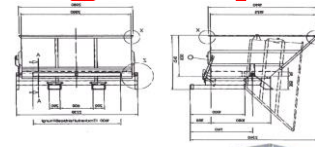


# Drying skip 41

## 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 | €     | 15075 | 18457 |
| 410200103      | SS304          | €     | 22613 | 27685 |
| Skip-Dryer     |                | type  | 12-16 | 16-24 |
| Volume         |                | liter | 2700  | 3700  |
| Effective load |                | 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 | €    | 2251     |



# Dry air duct 42

## WATROMAT® Dry air duct

Dry air duct, connect skip dryer to drying container and guide dry air into container.

**Delivery** 1 pc dry air duct  
**Not included**

|           |       | type | TLK01WSK05 | TLK04WSK13 | TLK08WSK17 | TLK12WSK17 |
|-----------|-------|------|------------|------------|------------|------------|
| 420100103 | SS304 | €    | 2621       | 3628       | 3945       | 4611       |
| Length X  |       | mm   | 610        | 1100       |            | 1630       |
| Width Y   |       | mm   | 320        | 380        |            | 380        |
| Height Z  |       | mm   | 300        | 500        |            | 1000       |
| Weight    |       | kg   | 8          | 18         | 25         | 26         |



|           |       | type | TLK12WTM27 | TLK16WTM27 | TLK20WTM37 | TLK24WTM37 |
|-----------|-------|------|------------|------------|------------|------------|
| 420100103 | SS304 | €    | 4812       | 4812       | 5078       | 5078       |
| 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 | €    | 375  |
| Length X  |                   | m    | 2    |
| Weight    |                   | kg   | 0.4  |



# Wet air duct 42

## WATROMAT® Wet air duct

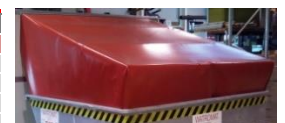
Wet air duct, guide wet air from drying container back to skip-dryer.

**Delivery** 1 pc wet air duct  
**Not included**

|           |                  | type | RLK01WSK05 | RLK04WSK13 | RLK08WSK17 | RLK12WSK17 |
|-----------|------------------|------|------------|------------|------------|------------|
| 420200103 | PVC, frame SS304 | €    | 2522       | 2985       | 4291       | 4585       |
| 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 | €    | 4865       | 4865       | 5264       | 5264       |
| 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         |



# Filling hopper 43

## WATROMAT® Filling hopper

Filling hopper to discharge dry sludge into Big Bag's or containers, 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 1 pc filling hopper

Not included

|                       | type                  | WHO1     |
|-----------------------|-----------------------|----------|
| 430300101             | Steel painted RAL3020 | € 6371   |
| 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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|                       |           |           |
|-----------------------|-----------|-----------|
| <b>Land transport</b> | <b>71</b> | <b>50</b> |
|-----------------------|-----------|-----------|

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|                       |           |           |
|-----------------------|-----------|-----------|
| <b>Ship transport</b> | <b>73</b> | <b>51</b> |
|-----------------------|-----------|-----------|

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|                     |           |           |
|---------------------|-----------|-----------|
| <b>Travel costs</b> | <b>77</b> | <b>52</b> |
|---------------------|-----------|-----------|

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|   |           |           |
|---|-----------|-----------|
| <b>Erection<br/>Commissioning<br/>Supervising</b> | <b>79</b> | <b>53</b> |
|---|-----------|-----------|

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# Land transport 100-1000 km

50

| 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

50

| 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

| Part | Country          | Destination | km    | Canada  | Canada   | Canada  | Canada | USA   | USA     | USA     | USA   |
|------|------------------|-------------|-------|---------|----------|---------|--------|-------|---------|---------|-------|
|      |                  |             |       | 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    |       |

# Mexico-Argentina

| 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   |

# Turkey-Iran

| 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  |

# India-Australia

| Part    | Country          |            | India  | SriLa | Vietnam | Taiwan | Korea | Korea | Taiwan | 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 Europe

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

# Travel costs China

| China<br>Destination | Distance in km<br>City | Travel time<br>Hours | Car/Flight<br>costs | Travel<br>costs<br>RMB |
|----------------------|------------------------|----------------------|---------------------|------------------------|
|                      | 100                    | 2                    | 400                 | 1704                   |
|                      | 200                    | 4                    | 800                 | 3358                   |
|                      | 300                    | 6                    | 1200                | 5012                   |
|                      | 400                    | 8                    | 1600                | 6666                   |
|                      | 500                    | 10                   | 2000                | 8320                   |
|                      | 600                    | 12                   | 2400                | 9974                   |
|                      | 700                    | 14                   | 2800                | 11628                  |
|                      | 800                    | 16                   | 3200                | 13282                  |
|                      | 900                    | 18                   | 3600                | 14936                  |
|                      | 1000                   | 20                   | 4000                | 16590                  |
|                      | 1200                   | 24                   | 4800                | 19898                  |
|                      | 1400                   | 28                   | 5600                | 23206                  |
|                      | 1600                   | 32                   | 6400                | 26514                  |
|                      | 1800                   | 36                   | 7200                | 29822                  |
|                      | 2000                   | 40                   | 8000                | 33130                  |
| <b>Province</b>      |                        |                      |                     |                        |
| Henan                | Bejing                 | 9                    | 800                 | 6493                   |
| Hubei                | Wuhan                  | 10                   | 850                 | 7170                   |
| Jiangshe             | Nanchang               | 10                   | 900                 | 7220                   |
| Shanxi               | Tayuoan                | 11                   | 950                 | 7897                   |
| Lianoning            | Shenyang               | 11.5                 | 1000                | 8261                   |
| Shaanxi              | Xian                   | 12                   | 1100                | 8674                   |
| Neimenngu            | Baatau                 | 12                   | 1200                | 8774                   |
| Jilin                | Jilin                  | 12                   | 1300                | 8874                   |
| Hunan                | Changsha               | 12                   | 1400                | 8974                   |
| Fujiang              | Fuzhou                 | 12                   | 1500                | 9074                   |
| Guangdong            | Gungzhou               | 12.5                 | 1700                | 9588                   |
| Chongqing            | Chongqing              | 12.5                 | 1600                | 9488                   |
| Ningxia              | Yuanchian              | 12.5                 | 1900                | 9788                   |
| Heilongjiang         | Harbin                 | 12.5                 | 2000                | 9888                   |
| Gungxi               | Nannung                | 13                   | 2200                | 10401                  |
| Guyzhou              | Guyang                 | 13                   | 2300                | 10501                  |
| Sichaun              | Chengdu                | 13                   | 2400                | 10601                  |
| Gansu                | Lanzhou                | 13                   | 2500                | 10701                  |
| Yunnan               | Kunming                | 13.5                 | 2800                | 11315                  |
| Quinhai              | Xining                 | 13.5                 | 2900                | 11415                  |
| Xinjang              | Urumqui                | 14                   | 3000                | 11828                  |
| <b>Asia</b>          |                        |                      |                     |                        |
| India                | Mumbay                 | 28                   | 1120                | 19776                  |
| Malaysia             | Kuala Lumpur           | 30                   | 1450                | 21435                  |
| South Korea          | Seoul                  | 38                   | 1610                | 26911                  |
| Japan                | Tokyo                  | 42                   | 1800                | 29759                  |
| Australia            | Melbourne              | 46                   | 1800                | 32417                  |

# Erection, Commissioning costs

# 53

| Part | Name              | Type        | Days | Total<br>peoples | Costs<br>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<br>peoples | Costs<br>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            |