

INSTALLATION REFERENCE CATALOGUE



VOLUTE[™]
DEWATERING PRESS
AND
THICKENER



Food Processing plants

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Food Processing Plants

Dairy

1. Yogurt production in Russia

VOLUTE™ Dewatering Press ES-304-SA-CE (2 units)

Sludge Type	WAS
Sludge Concentration (SS)	1.0 %
Sludge Flow Rate	24 m ³ /h
Polymer Dosing Rate	8 g/kg-DS
Throughput (SS)	221 kg-DS/h
Capture Rate	92 %
Dry Solids Content	15 %



2. Dairy processing plant in Poland

VOLUTE™ Dewatering Press ES-132-SA-CE

Sludge Type	DAF Sludge
Sludge Concentration (SS)	2.2 %
Sludge Flow Rate	1.0 m ³ /h
Polymer Dosing Rate	8 g/kg-DS
Throughput (SS)	20 kg-DS/h
Capture Rate	91 %
Dry Solids Content	24.5 %



3. Cheese production in France

VOLUTE™ Dewatering Press ES-131-SA-CE

Sludge Type	WAS
Sludge Concentration (SS)	1.1 %
Sludge Flow Rate	0.6 m ³ /h
Polymer Dosing Rate	8 g/kg-DS
Throughput (SS)	6 kg-DS/h
Capture Rate	93 %
Dry Solids Content	16-18 %

Farm, Slaughterhouse & Meat Processing

4. Pig slaughterhouse in Poland

VOLUTE™ Dewatering Press ES-301-SA-CE

Sludge Type	DAF Sludge
Sludge Concentration (SS)	4.3 %
Sludge Flow Rate	3.0 m ³ /h
Polymer Dosing Rate	5 g/kg-DS
Throughput (SS)	120 kg-DS/h
Capture Rate	93 %
Dry Solids Content	24.6 %

5. Poultry meat production in Ukraine

VOLUTE™ Dewatering Press ES-353-SA-CE

Sludge Type	DAF Sludge
Sludge Concentration (SS)	9.7 %
Sludge Flow Rate	6.7 m ³ /h
Polymer Dosing Rate	5 g/kg-DS
Throughput (SS)	630 kg-DS/h
Capture Rate	97 %
Dry Solids Content	43.1 %



6. Meat processing plant in Ukraine

VOLUTE™ Dewatering Press ES-303-SA-CE

Sludge Type	DAF Sludge
Sludge Concentration (SS)	4.4 %
Sludge Flow Rate	4.8 m ³ /h
Polymer Dosing Rate	6 g/kg-DS
Throughput (SS)	192 kg-DS/h
Capture Rate	90 %
Dry Solids Content	30 %



7. Chicken slaughterhouse in France

VOLUTE™ Dewatering Press ES-351-SA-CE

Sludge Type	Mixed DAF sludge and WAS
Sludge Concentration (SS)	4.0 %
Sludge Flow Rate	2.7 m ³ /h
Polymer Dosing Rate	4 g/kg-DS
Throughput (SS)	103 kg-DS/h
Capture Rate	95 %
Dry Solids Content	20.1 %



8. Chicken slaughterhouse in Spain

VOLUTE™ Dewatering Press ES-131-SA-CE

Sludge Type	DAF Sludge
Sludge Concentration (SS)	4.0 %
Sludge Flow Rate	0.6 m ³ /h
Polymer Dosing Rate	6-7 g/kg-DS
Throughput (SS)	22 kg-DS/h
Capture Rate	92 %
Dry Solids Content	18-21 %

9. Herring processing plant in Lithuania

VOLUTE™ Dewatering Press ES-131-SA-CE

Sludge Type	DAF Sludge
Sludge Concentration (SS)	3.5 %
Sludge Flow Rate	0.3 m ³ /h
Polymer Dosing Rate	6-7 g/kg-DS
Throughput (SS)	7.5 kg-DS/h
Capture Rate	97 %
Dry Solids Content	21 %



10. Fish farming in Greece

VOLUTE™ Dewatering Press ES-132-SA-CE

Sludge Type	Mixed DAF sludge and WAS
Sludge Concentration (SS)	5-7 %
Sludge Flow Rate	0.6-0.7 m ³ /h
Polymer Dosing Rate	6-7 g/kg-DS
Throughput (SS)	33-40 kg-DS/h
Capture Rate	95 %
Dry Solids Content	18 %



11. Pig farm in Denmark

VOLUTE™ Dewatering Press ES-131-SA-CE

Sludge Type	Pig raw manure
Sludge Concentration (SS)	4.8 %
Sludge Flow Rate	0.3 m ³ /h
Polymer Dosing Rate	7 g/kg-DS
Throughput (SS)	15 kg-DS/h
Capture Rate	97 %
Dry Solids Content	23 %

12. Animal renderers in United Kingdom

VOLUTE™ Dewatering Press ES-301-SA-CE

Sludge Type	DAF sludge
Sludge Concentration (SS)	10.0 %
Sludge Flow Rate	3.0 m ³ /h
Polymer Dosing Rate	5 g/kg-DS
Throughput (SS)	280 kg-DS/h
Capture Rate	98.5 %
Dry Solids Content	20 %

Food & Beverages

13. Malt processing plant in Ireland

VOLUTE™ Dewatering Press ES-202-SA-CE

Sludge Type	WAS
Sludge Concentration (SS)	2.2 %
Sludge Flow Rate	1.5 m ³ /h
Polymer Dosing Rate	6 g/kg-DS
Throughput (SS)	31.5 kg-DS/h
Capture Rate	95.5 %
Dry Solids Content	19.5 %



14. Cider production in France

VOLUTE™ Dewatering Press ES-351-SA-CE

Sludge Type	WAS
Sludge Concentration (SS)	1-2 %
Sludge Flow Rate	6-10 m ³ /h
Polymer Dosing Rate	6-8 g/kg-DS
Throughput (SS)	110 kg-DS/h
Capture Rate	>92 %
Dry Solids Content	>20 %

15. Bakery in United Kingdom

VOLUTE™ Dewatering Press ES-101-SA-CE

Sludge Type	Raw effluent
Sludge Concentration (SS)	0.1-0.4 %
Sludge Flow Rate	1.0 m ³ /h
Polymer Dosing Rate	21 g/kg-DS
Throughput	1-4 kg-DS/h
Capture Rate	90 %
Dry Solids Content	48.8 % (27 % fat & oil)



Always Fresh. Always Tasty.™

16. Confectionery in Russia

VOLUTE™ Dewatering Press ES-301-SA-CE

Sludge Type	WAS
Sludge Concentration (SS)	1.0 %
Sludge Flow Rate	3.0 m ³ /h
Polymer Dosing Rate	6 g/kg-DS
Throughput (SS)	28 kg-DS/h
Capture Rate	93 %
Dry Solids Content	18 %



17. Ice cream production in Russia

VOLUTE™ Dewatering Press ES-132-SA-CE

Sludge Type	Mixed of primary and WAS
Sludge Concentration (SS)	0.6 %
Sludge Flow Rate	1.0 m ³ /h
Polymer Dosing Rate	8 g/kg-DS
Throughput (SS)	5.6 kg-DS/h
Capture Rate	92 %
Dry Solids Content	25 %



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Industrial Plants

Oil and Refinery

18. Oil reclamation plant in Norway

VOLUTE™ Dewatering Press ES-201-SA-CE

Sludge Type	Oily Sludge from DAF
Sludge Concentration (SS)	2.3 %
Sludge Flow Rate	1.1 m ³ /h
Polymer Dosing Rate	3 g/kg-DS
Throughput (SS)	24 kg-DS/h
Capture Rate	95 %
Dry Solids Content	20 %



19. Offshore sludge dewatering in Norway

VOLUTE™ Dewatering Press ES-351-SA-CE

Sludge Type	Slop Oil Sludge
Sludge Concentration (SS)	7.0 %
Sludge Flow Rate	2.9 m ³ /h
Polymer Dosing Rate	1 g/kg-DS
Throughput (SS)	193 kg-DS/h
Capture Rate	95 %
Dry Solids Content	20 %



Marine

20. Cruise ships

VOLUTE™ Dewatering Press ES-101-SA-CE (2 units – odor proof modification)

Sludge Type	MBR Sludge
Sludge Concentration (SS)	1.6 %
Sludge Flow Rate	0.31 m ³ /h
Polymer Dosing Rate	6 g/kg-DS
Throughput (SS)	4.5 kg-DS/h
Capture Rate	>90 %
Dry Solids Content	20 %



Automobile

21. Transmission production line in Slovakia

VOLUTE™ Dewatering Press ES-131-SA-CE

Sludge Type	Mixed chemical and WAS
Sludge Concentration (SS)	0.5 %
Sludge Flow Rate	0.3 m ³ /h
Polymer Dosing Rate	5 g/kg-DS
Throughput (SS)	1.5 kg-DS/h
Capture Rate	99 %
Dry Solids Content	17 %

■■■ **GETRAG**

Foundry

22. Production of forged and laminated rolled rings in Italy

VOLUTE™ Dewatering Press EC-201-SA-CE

Sludge Type	Chemically precipitated sludge
Sludge Concentration (SS)	4.8 %
Sludge Flow Rate	0.73 m ³ /h
Polymer Dosing Rate	6.1 g/kg-DS
Throughput (SS)	35.5 kg-DS/h
Capture Rate	98 %
Dry Solids Content	22.1 %

 **ForgitalGroup**

Chemical

23. Washing powder production in Poland

VOLUTE™ Dewatering Press ES-301-SA-CE

Sludge Type	Mixed 70% chemical, 30% WAS
Sludge Concentration (SS)	4.3 %
Sludge Flow Rate	2.0 m ³ /h
Polymer Dosing Rate	1.5 g/kg-DS
Throughput (SS)	80 kg-DS/h
Capture Rate	92 %
Dry Solids Content	22.6 %


HEALTH • HYGIENE • HOME

Pharmaceutical

24. Pharmaceutical products production in France

VOLUTE™ Dewatering Press ES-131-SA-CE

Sludge Type	WAS
Sludge Concentration (SS)	1-3 %
Sludge Flow Rate	0.4-1.0 m ³ /h
Polymer Dosing Rate	8 g/kg-DS
Throughput (SS)	10 kg-DS/h
Capture Rate	90 %
Dry Solids Content	20 %



Tannery

25. Leather factory in Finland

VOLUTE™ Dewatering Press ES-131-SA-CE

Sludge Type	Mixed Process sludge and WAS
Sludge Concentration (SS)	3.2 %
Sludge Flow Rate	0.5 m ³ /h
Polymer Dosing Rate	6 g/kg-DS
Throughput (SS)	15 kg-DS/h
Capture Rate	>90 %
Dry Solids Content	21-25 %



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Municipal

26. Municipal plant in United Kingdom

VOLUTE™ Dewatering Press ES-354-SA-CE (2 units)

Sludge Type	Mixed 90 % primary, 10 % secondary
Sludge Concentration (SS)	2.20 %
Sludge Flow Rate	77.5 m ³ /h
Polymer Dosing Rate	4 g/kg-DS
Throughput (SS)	1550 kg-DS/h
Capture Rate	>93 %
Dry Solids Content	21-26 %

27. Municipal plant in Finland

VOLUTE™ Dewatering Press EC-202-SA-CE

Sludge Type	Mixed 50 % septic, 50 % WAS
Sludge Concentration (SS)	3.0 %
Sludge Flow Rate	1.5 m ³ /h
Polymer Dosing Rate	8 g/kg-DS
Throughput (SS)	43.5 kg-DS/h
Capture Rate	95 %
Dry Solids Content	18-23 %

28. Olympic village WWTP in Russia

VOLUTE™ Dewatering Press ES-101-SA-CE (2 units)

Sludge Type	WAS
Sludge Concentration (SS)	0.8 %
Sludge Flow Rate	1.0 m ³ /h
Polymer Dosing Rate	6 g/kg-DS
Throughput (SS)	7.5 kg-DS/h
Capture Rate	94 %
Dry Solids Content	17 %



29. Municipal plant in United Kingdom

VOLUTE™ Dewatering Press ES-353-SA-CE

Sludge Type	Mixed 20% primary, 80% secondary
Sludge Concentration (SS)	2.7 %
Sludge Flow Rate	17.0 m ³ /h
Polymer Dosing Rate	6 g/kg-DS
Throughput (SS)	413 kg-DS/h
Capture Rate	90 %
Dry Solids Content	25.2 %

30. Municipal plant in the Czech Republic

VOLUTE™ Dewatering Press ES-301-SA-CE

Sludge Type	WAS
Sludge Concentration (SS)	2.0 %
Sludge Flow Rate	1.7 m ³ /h
Polymer Dosing Rate	8 g/kg-DS
Throughput (SS)	30.5 kg-DS/h
Capture Rate	>90 %
Dry Solids Content	18 %



31. Municipal plant in the Czech Republic

VOLUTE™ Dewatering Press ES-131-SA-CE

Sludge Type	WAS
Sludge Concentration (SS)	3-4 %
Sludge Flow Rate	0.3-0.5 m ³ /h
Polymer Dosing Rate	8 g/kg-DS
Throughput (SS)	9-15 kg-DS/h
Capture Rate	95 %
Dry Solids Content	18 %



32. Drinking Water Plant in United Kingdom

VOLUTE™ Dewatering Press ES-352-SA-CE

Sludge Type	Alum Sludge
Sludge Concentration (SS)	1.94 %
Sludge Flow Rate	6.5 m ³ /h
Polymer Dosing Rate	5 g/kg-DS
Throughput (SS)	116 kg-DS/h
Capture Rate	>90 %
Dry Solids Content	19 %

33. Municipal plant in Sweden

VOLUTE™ Dewatering Press ES-301-SA-CE

Sludge Type	Mixed 40 % chemical, 60 % WAS
Sludge Concentration (SS)	0.8 %
Sludge Flow Rate	3.5 m ³ /h
Polymer Dosing Rate	6 g/kg-DS
Throughput (SS)	27 kg-DS/h
Capture Rate	95 %
Dry Solids Content	22 %

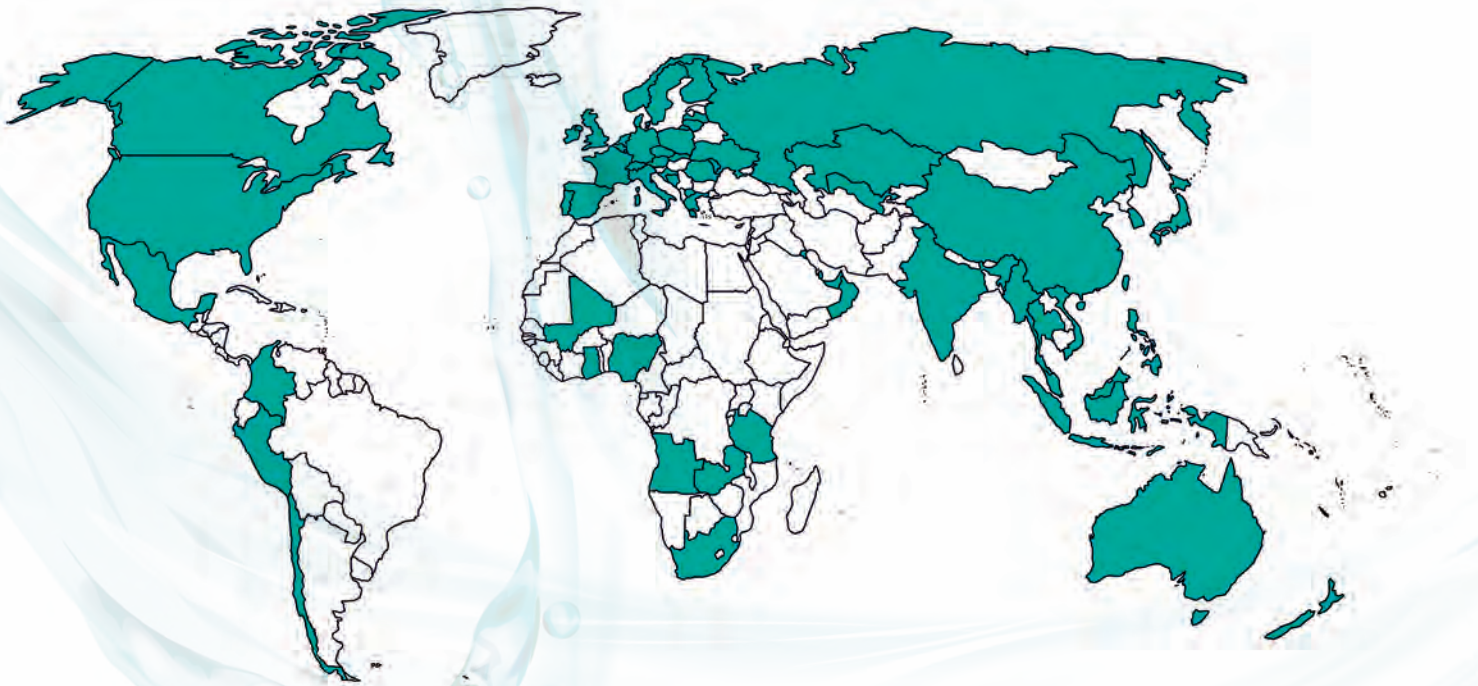
34. Municipal plant in the Czech Republic

VOLUTE™ Dewatering Press ES-101-SA-CE

Sludge Type	WAS
Sludge Concentration (SS)	0.8-1.4 %
Sludge Flow Rate	0.3-0.4 m ³ /h
Polymer Dosing Rate	8 g/kg-DS
Throughput (SS)	3.0-4.2 kg-DS/h
Capture Rate	95 %
Dry Solids Content	18.7 %



Installation map



More than **4500** installations in **73** countries!!!

Europe: Austria, Belgium, Bosnia and Herzegovina, Croatia, Czech Republic, Denmark, Finland, France, Germany, Greece, Italy, Ireland, Latvia, Lithuania, Luxemburg, Moldova, Netherlands, North Macedonia, Norway, Poland, Portugal, Romania, Russia, Slovakia, Spain, Sweden, Switzerland, Ukraine, United Kingdom

Asia: China, India, Indonesia, Japan, Kazakhstan, Kuwait, Malaysia, Myanmar, Oman, Philippines, Qatar, Singapore, South Korea, Taiwan, Thailand, UAE, Uzbekistan, Vietnam

Africa: Angola, Ghana, Mali, Nigeria, South Africa, Tanzania, Zambia

America: Bermuda, Canada, Chile, Colombia, Mexico, Peru, USA

Oceania: Australia, French Polynesia, New Zealand, Samoa



AMCON Europe s.r.o.

Za Tratí 207, 252 19 Chrášťany, Praha-západ, Czech Republic
TEL.+420-211-150120

AMCON Deutschland GmbH

Schönbergstrasse 3 34587 Felsberg, Germany
TEL. +49 5662 930749

<http://www.amcon-eu.com>



Japan

AMCON INC.

Headquarters : 1926, Nippa-cho, Kohoku-ku, Yokohama, Kanagawa 223-0057, Japan
TEL.+81-45-540-8585 FAX.+81-45-540-8588

Kyusyu Office : 2746, Yanaga, Asakura, Fukuoka 838-0031, Japan
TEL.+81-946-24-0323 FAX.+81-946-24-0329

Yokohama Assembly plant :
2366-1, Nippa-cho, Kohoku-ku, Yokohama, Kanagawa 223-0057, Japan

<http://en.amcon.co.jp>

China

AMCON(Fujian)Environmental Protection Equipment Co., Ltd.

Yuan Hai Three-way, Yuan Hong Investment Zone, Fuzhou, Fujian
TEL.+86-591-85267288

<http://www.amcon-china.com>