

WASHING SYSTEMS



CLEVRO

The company was founded in 2001. In the initial period of activity the company used to deal with service and trade, mainly in the food industry. Then, company began to import cleaning machines from the Czech Republic, which in a short time on base of collected experience so far, led to starting own production of this equipment.



We are the only Polish company, specializing only in production and sale of professional chamber and tunnel washing and drying machines for various types of containers, boxes and packaging items for food industry, including: bakery, meat, fish, dairy, fruit and vegetable and others, for example: logistics, automotive, the utilization companies, clean servicing companies..

INDUSTRIAL WASHING SYSTEMS

BAKERY, CONFECTIONERY, MEAT PROCESSING, FISH, DIARY,
FRUIT&VEGETABLES, LOGISTIC CENTERS AND OTHERS

- Complete structure of tunnel body is made of stainless steel sort 0H18N9T, which posses certificate to applying in food industry and metallurgical certificate by DIN 50049/3.1B, which guarantees ulfilling of the recommendation for hygienic and sanitary guides.
- We also produce custom projects and not standard orders for the individual customer request.
- Tunnel washers are equipped with a washing system with a pump and screwed or fastened adjustable nozzles, which sprinkle items to be washed at high pressure and perform the mechanical part of the cleaning process.
- Modular design of the tunnel body allows to operate pre-wash process and multiple the main washing,so that the maximum efficiency is reached with high quality of cleaning.
- High efficiency and power washing, combined with professional washing detergent guarantees receiving the highest quality of the cleaning process in the continuous washing system with closed water circuit on cleaning and Aqua Course system on refreshing and rinsing.
- By use of the high pressure fans and optimization of the construction of drying tunnel, it is available to achieve the best possible drying results in a continuous work system.
- With using additional Aqua Course flow control washers become a cost-effective setting equipment to minimize water, detergents and energy consumption.

CUSTOM MACHINE BODY DIMENSIONS



CUSTOM WORK
AREA DIMENSIONS

DIFFERENT HEATING SYSTEMS



GAS HEATING



FUEL OIL
HEATING



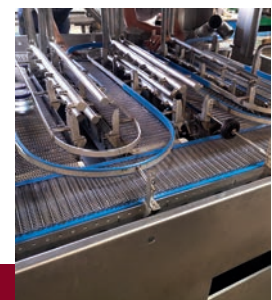
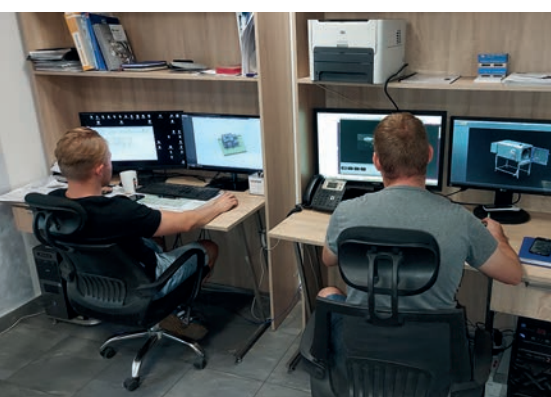
ELECTRICAL
HEATING



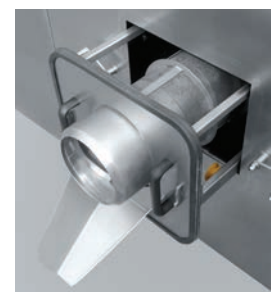
STEAM
HEATING



We are the only company in Poland, that produces customized industrial washing systems, like: tunnel washers for smoking trolleys, chamber washers for smoking, baking and confectionery trolleys with rotating platforms and washing heads, tunnel washers for polycarbonate molds, chamber washers for food production units, heads and parts, chamber washers for slaughtery knives sets with chain gloves, chamber and tunnel washers for thermo and ice boxes, tunnel washers for containers with lids and for waste bins, tumbler washers for smoke sticks with fast loading system. The company headquarter is in Rawa Mazowiecka, which is situated nearly in the center of Poland at the route number S8 between the two largest polish cities: Łódź and Warszawa. Using of modern technology during constructing and production combined with a vast experience, gives result in the highest quality and functionality of the washing and drying processes in produced machines, with achieving the smallest dimensions possible and great economy of the work.



- Our company creates and develops equipment in various configurations, depending on washing technology, we offer also different types of heating and control for washing and drying sections.
- We have the best on market own construction unique heat exchangers for heating the washing bath by use of gas, or fuel oil, with working efficiency over 95%!.



DIFFERENT TYPES OF CONTROL



DIGITAL CONTROL
WITH TOUCH SCREEN



ANALOG CONTROL PANEL

ONE MAN
OPERATING SYSTEM

LEFT OR RIGHT
SIDE OPERATION

ROTATION DRUM
TYPE FILTERS

AQUA COURSE
SYSTEM



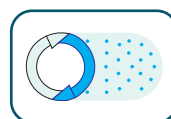
ONE MAN
OPERATING SYSTEM



RIGHT



LEFT

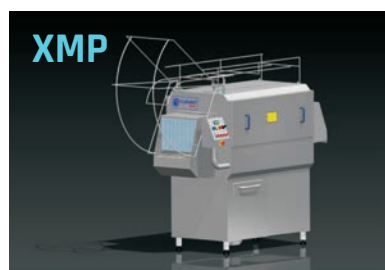




CRATE WASHERS

SINGLE LINE WASHING UNITS

1200



1500



2000



2250



3000



4000



Module name	Component name	XMP 1200	XMP 1500	XMP 2000	XMP 2250	XMP 3000	XMP 4000
Conveyor	Motor	0,18 kW	0,18 kW	0,18 kW	0,18 kW	0,25 kW	0,25 kW
Initial washing	Number of nozzles	-	-	-	-	28	28
	Washing pressure	-	-	-	-	about 4 bar	about 4 bar
	Washing pump	-	-	-	-	4,0 kW	4,0 kW
Main washing	Number of nozzles	24	32	46	56	42	56
	Washing pressure	about 4 bar	about 4 bar	about 4 bar	about 4 bar	about 4 bar	about 4 bar
	Washing pump	3,0 kW	4,0 kW	5,5 kW	7,5 kW	5,5 kW	7,5 kW
Water heating		electric, steam	electric, steam, oil or gas	electric, steam, oil or gas	electric, steam, oil or gas	electric, steam, oil or gas	electric, steam, oil or gas
	Power of heaters	24-30 kW	24-30 kW	24-30 kW	30-37,5 kW	30-37,5 kW	36-45 kW
Rinsing	Number of nozzles	13	13	13	13	13	13
Guaranteed performance for 30 seconds washing cycle		90 items	150 items	200 items	260 items	340 items	520 items
Detergent dosing system		proportional	proportional	proportional	proportional	with concentration controll	with concentration controll
Type of drying tunnel (recommended)		XTS-1000	XTS-1000	XTS-1000	XTS-2000	XTS-2000	XTS-3000
Ventilators		1x7,5 kW	1x7,5 kW	1x7,5 kW	2x7,5 kW	2x7,5 kW	3x7,5 kW
Air heating (optional)		opcja	opcja	opcja	opcja	opcja	opcja
Dimensions*							
length		2005	2605	3105	3355	4105	5105
width		921	1029	1029	1029	1029	1029
height (electric heating, steam heating)		1556	1556	1556	1556	1556	1556
height (oil heating, gas heating)		-	1756	1756	1756	1756	1756

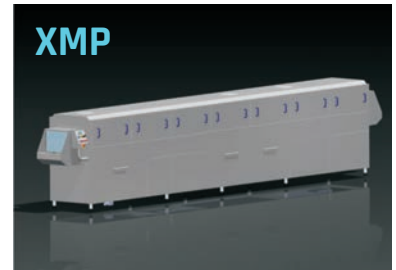
* dimensions of washer without drying tunnel and additional equipment

HIGH-PERFORMANCE WASHING LINES

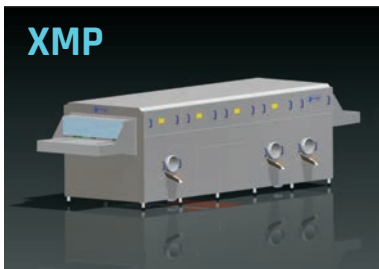
SINGLE LINE WASHING UNITS

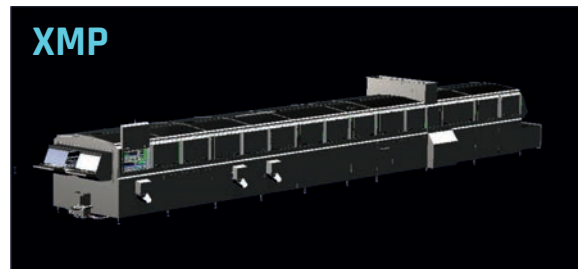
5000

6000

7000


DOUBLE LINE WASHING UNITS

5x2

8x2

106x2


Module name	Component name	XMP 5000	XMP 6000	XMP 7000	XMP 5x2	XMP 8x2	XMP 106x2
Conveyor	Motor	0,25 kW	0,37 kW	0,55 kW	2 x 0,37 kW	2 x 0,55 kW	2 x 0,75 kW
Initial washing	Number of nozzles	28	28	28	2x28	2x28	2x42
	Washing pressure	about 4 bar	about 4 bar	about 4 bar	about 4 bar	about 4 bar	about 4 bar
Main washing	Washing pump	4,0 kW	4,0 kW	4,0 kW	2x4,0 kW	2x7,5 kW	2x7,5 kW
	Number of nozzles	60	70	88	2x60	2x108	2x144
	Washing pressure	about 4 bar	about 4 bar	about 4 bar	about 4 bar	about 4 bar	about 4 bar
	Washing pump	9,2 kW	11 kW	15 kW	2x9,2 kW	2x15 kW	4x11 kW
Water heating		electric, steam, oil or gas	electric, steam, oil or gas	electric, steam, oil or gas	electric, steam, oil or gas	electric, steam, oil or gas	electric, steam, oil or gas
	Power of heaters	45 kW	60 kW	indyvidually	indyvidually	indyvidually	indyvidually
Rinsing	Number of nozzles	26	26	26	2x26	2x26	2x26
Guaranteed performance for 30 seconds washing cycle		690 items	860 items	1030 items	1400 items	2100 items	3000 items
Detergent dosing system				with concentration controll			
Type of drying tunnel (recommended)		XTS-3000	XTS-3000	XTS-4000	XTS-2x2	XTS-4x2	XTS-6x2
Ventilators		3x7,5 kW	3x7,5 kW	3x7,5 kW	4x7,5 kW	8x7,5 kW	10x7,5 kW
Air heating (optional)		option	option	option	option	option	option
Dimensions*							
length		6100	7100	8100	6500	9500	10800
width		1029	1029	1029/1129	1900	1900	2300
height (electric heating, steam heating)		1556	1556	1556	1556	1556	1556
height (oil heating, gas heating)		1756	1756	1756	1756	1756	1756

* dimensions of washer without drying tunnel and additional equipment



DRYING TUNNELS

FOR SINGLE LINE WASHING UNITS

1000



2000



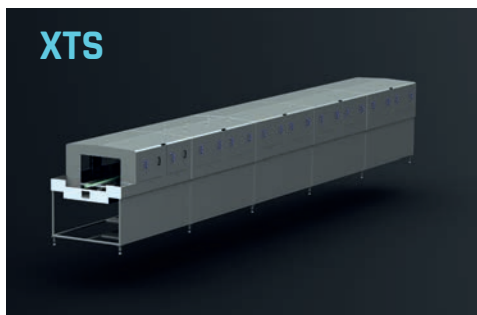
3000



4000



12800



Module name	XTS 1000	XTS 2000	XTS 3000	XTS 4000	XTS 12800
Number of ventilators	1	2	3	4	10
Ventilator power	7,5 kW	7,5 kW	7,5 kW	7,5 kW	7,5 kW
Air heating	option	option	option	option	option
Dimensions* lenght	1005	2005	3005	4010	12800
width	929	929	929	929	1500
height	1556/1756	1556/1756	1556/1756	1556/1756	1556/1756

* dimensions mm

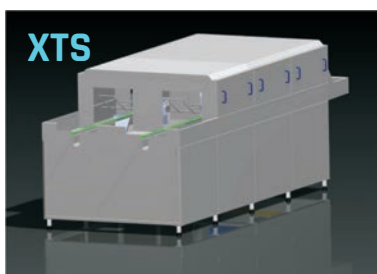
DRYING TUNNELS

FOR DOUBLE LINE WASHING UNITS

2x2



4x2



2000 styro



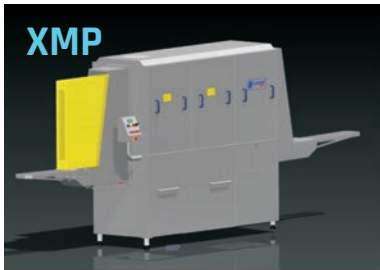
Module name	XTS 2x2	XTS 3x2	XTS 4x2	XTS 5x2	XTS 6x2	XTS 2000 styro
Number of ventilators	4	6	8	10	12	3
Ventilator power	7,5 kW	7,5 kW	7,5 kW	7,5 kW	7,5 kW	7,5 kW
Air heating	option	option	option	option	option	option
Dimensions* lenght	2005	3005	4005	5005	6005	2805
width	1900	1900	1900	1900	1900	1329
height	1556/1756	1556/1756	1556/1756	1556/1756	1556/1756	1556/1756

* dimensions mm

WASHING SYSTEMS

LINES FOR DRUMS, PALLETS, TROLLEYS, BIG BOXES, WASTE BINS

3000P



2260



3000S



2280



XMP

5290



Module name	Component name	XMP 2250P	XMP 3000P	XMP 2260	XMP 2280	XMP 3000S	XMP 5290
Conveyor	Motor	0,25 kW	0,25 kW	0,25 kW	0,25 kW	0,37 kW	0,18 kW
Initial washing	Number of nozzles	62	80	66	66	74	90
	Washing pressure	about 4 bar	about 4 bar	about 4 bar	about 5 bar	about 5 bar	about 5 bar
	Washing pump	7,5 kW	9,2 kW	7,5 kW	7,5 kW	9,2 kW	7,5+9,2 kW
Water heating		electric, steam, oil or gas					
	Power of heaters	30-37,5 kW	30-37,5 kW	30-37,5 kW	30-37,5 kW	30-42 kW	37,5-52,2 kW
Rinsing	Number of nozzles	21	21	24	25	28	30
Guaranteed performance		individual					
Detergent dosing system		with concentration controll					
Dimensions*							
length		4355	5105	4160	3660	4503	9250
width		929	929	1329	1229	1580	1550
height (electric heating, steam heating)		2216	2216	2016	2216	2216	2480
height (oil heating, gas heating)		2416	2416	2216	2416	2416	2680
Type of drying tunnel (recommended)		XTS-2000P	XTS-2000P	–	–	–	–
Ventilators		2x7,5 kW	2x7,5 kW	–	–	–	–
Air heating (optional)		electric, steam, oil or gas					

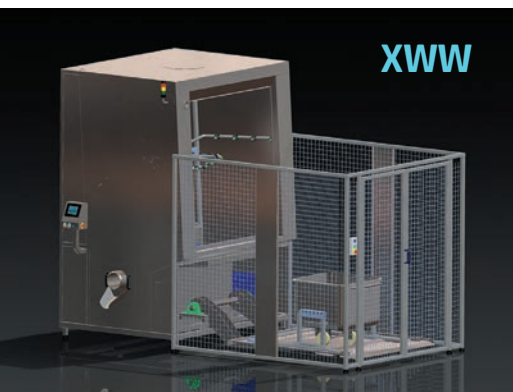
* dimensions of washer without drying tunnel and additional equipment



CHAMBER WASHERS

PRODUCTION BINS AND TROLLEYS

210



XWW

212



XWW

214



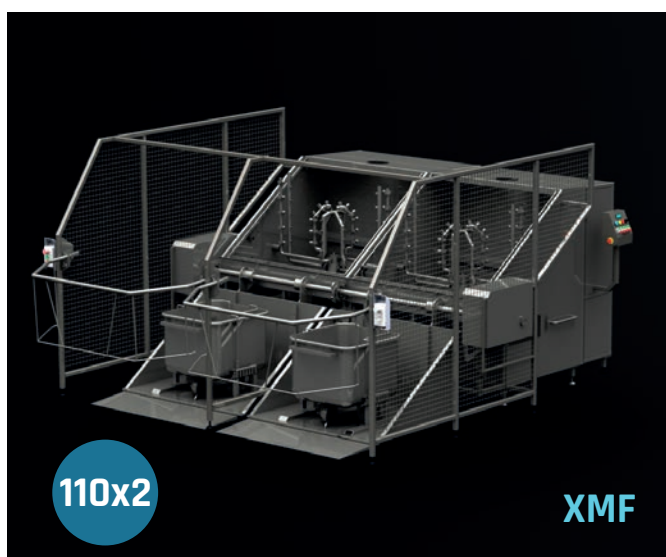
XMW
WITH
CONSTRUCTION

110



XMF

110x2



XMF

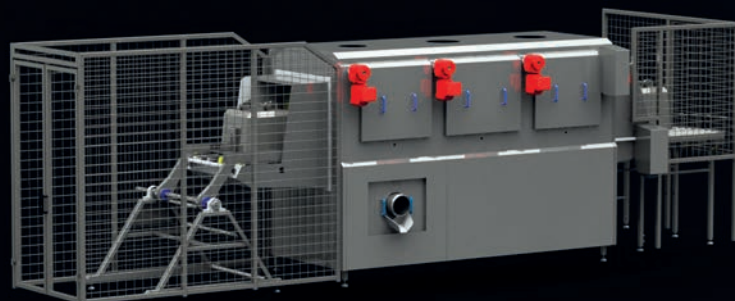
Module name	Component name	XMW 210	XMW 212	XMW 214	XMF 110	XMF 110x2
Main washing	Number of nozzles	26	26	26	31	2x31
	Washing pressure	about 6 bar	about 6 bar	about 6 bar	about 5 bar	about 5 bar
	Washing pump	11 kW	11 kW	11 kW	7,5 kW	2x7,5 kW
Water heating		electric or steam	electric or steam	electric or steam	electric or steam	electric or steam
	Power of heaters	37,5 kW	37,5 kW	37,5 kW	37,5 kW	37,5 kW
Rinsing	Number of nozzles	20	20	20	24	2x24
Guaranteed performance		individual	individual	individual	individual	individual
Detergent dosing system		with concentration controll				
Rotating washing arm		double arm unit	double arm unit	double arm unit	double arm unit	double arm unit
Dimensions* lenght		3500	3850	5320	3300	3300
	width	2050	2250	2800	2000	3700
height (electric heating, steam heating)		2600	2850	3300	1700	1700
height (oil heating, gas heating)		2600	2850	3300	-	-

* dimensions of washer without drying tunnel and additional equipment

TUNNEL WASHERS

PRODUCTION TROLLEYS

XMWK



2800

6000

XMWK



Module name	Component name	XMWK-2800	XMWK-4000	XMWK-5000	XMWK-6000
Initial washing	Number of nozzles	-	-	47	47
	Washing pressure	-	-	ok 4 bar	ok 4 bar
	Washing pump	-	-	5,5 kW	5,5 kW
Main washing	Number of nozzles	40	40	50	60
	Washing pressure	about 4 bar	about 4 bar	about 4 bar	about 4 bar
	Washing pump	7,5 kW	7,5 kW	7,5 kW	9,2 kW
Water heating		electric, steam, oil or gas	electric, steam, oil or gas	electric, steam, oil or gas	electric, steam, oil or gas
	Power of heaters	individual	individual	individual	individual
Rinsing	Number of nozzles	11	-	11	22
Guaranteed performance		individual	individual	individual	individual
Detergent dosing system		with concentration controll			
Dimensions* lenght/width		7000/1500	10000/2500	11000/2500	120000/2500
height (electric heating, steam heating)		2340	2340	2340	2340
height (oil heating, gas heating)		2540	2540	2540	2540

* dimensions mm



WASHERS WITH ROTATING PLATFORM

TROLLEYS, TOOLS AND ACCESSORIES AND ICE BOXES

100

XWW

150

XWW

200

XWW

250

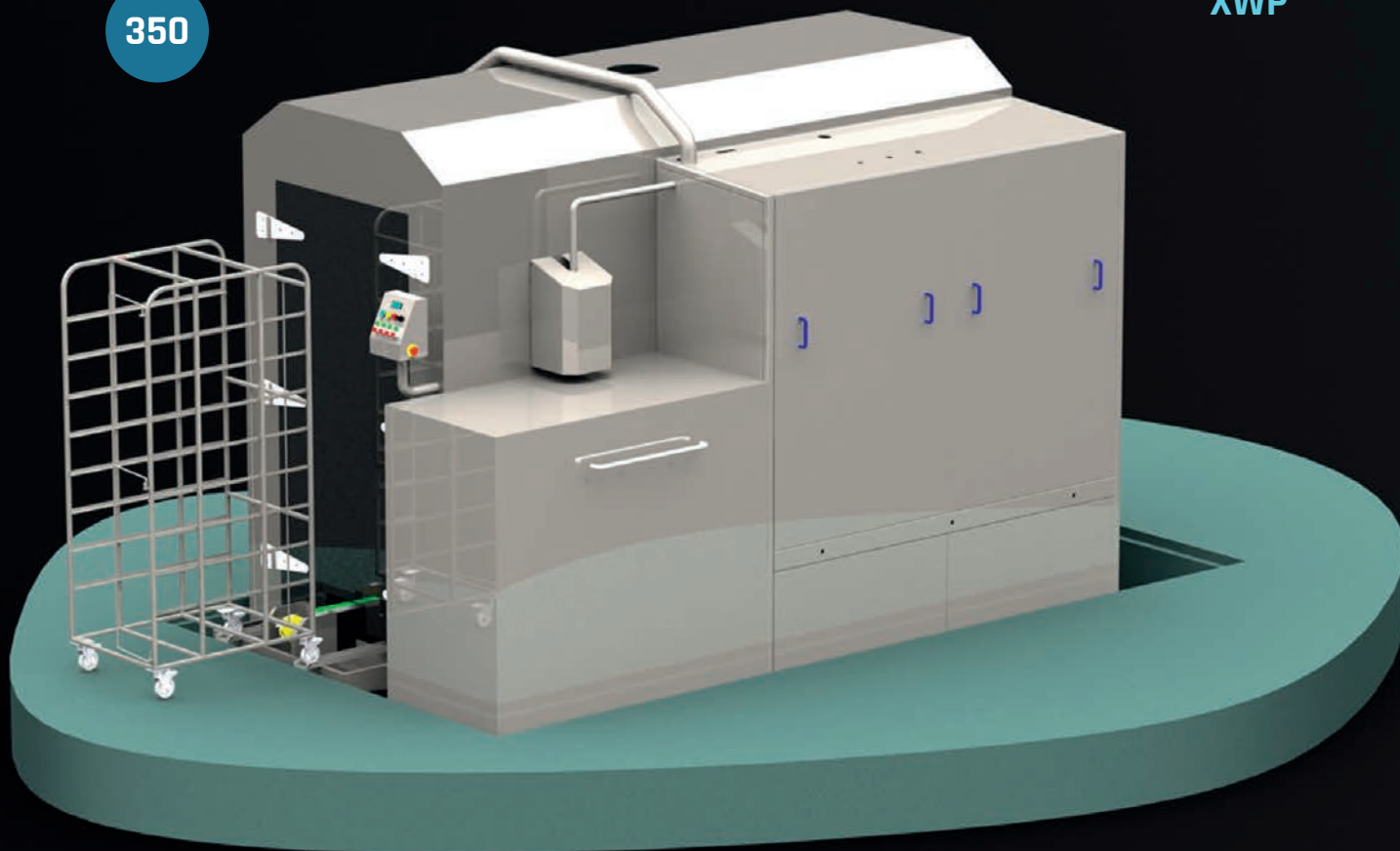
XWW

Module name	Component name	XWW 100	XWW 150	XWW 200	XWW 250
Rotating platform drive	Motor	0,55 kW	0,55 kW	0,75 kW	0,75 kW
Washing	Number of nozzles	36 szt.	40 szt.	44 szt.	44 szt.
	Washing pressure	7 bar	7 bar	7 bar	7 bar
	Washing pump	7,5 kW + 7,5 kW	7,5 kW + 9,2 kW	9,2 kW + 9,2 kW	9,2 kW + 9,2 kW
	Number of washing heads	4 pieces	4 pieces	4 pieces	4 pieces
Rotating platform diameter		1250 mm	1750 mm	2050 mm	2250 mm
Water heating	Heating	electric, steam, oil or gas	electric, steam, oil or gas	electric, steam, oil or gas	electric, steam, oil or gas
	Power of heaters	individual	individual	individual	individual
Washing output		individual	individual	individual	individual
Detergent dosing system		with concentration controll	with concentration controll	with concentration controll	with concentration controll
Required depth of the instalation place for the washer		500 mm	500 mm	500 mm	500 mm
Ventilators		opcja			
Number of rinsing nozzles		20	20	20	20

* dimensions mm

TUNNEL WASHERS

PRODUCTION TROLLEYS

350
XWP


Module name	Component name	XWP-350	XWP-450	XWP-550
Conveyor motor		0,55 kW	0,55 kW	0,75 kW
Main washing	Number of nozzles	64	82	100
	Washing pressure	about 8 bar	about 8 bar	about 8 bar
	Washing pump	4 x 9,2 kW	4 x 11 kW	6x9 kW
	Number of washing heads	8	10	12
Water heating	Washing pressure	about 4 bar	about 4 bar	about 4 bar
		electric, steam, oil or gas	electric, steam, oil or gas	electric, steam, oil or gas
	Power of heaters	individual	individual	individual
Guaranteed performance		individual	individual	individual
Detergent dosing system		with concentration controll		
Dimensions*				
length		4500	5500	6500
width		2600	2600	2600
height		2950	2950	2950
Number of rinsing nozzles		20	20	20

* dimensions mm



HIGH-PERFORMANCE TUNNEL WASHERS

SMOKE TROLLEYS

XWTW



200

Module name	Component name	XWTW 120	XWTW 160	XWTW 200	XWTW 250
Rotary table drive	Motor	0,55 kW	0,55 kW	0,75 kW	0,75 kW
Main washing	Number of nozzles	40 pieces	45 pieces	50 pieces	36 pieces
	Washing pressure	7 bar	7 bar	7 bar	7 bar
	Washing pump	4x 9,2 kW	8x 9,2 kW	12x 9,2 kW	16x 9,2 kW
	Number of washing heads	8 pieces	16 pieces	24 pieces	32 pieces
Water heating	Heating	electric, steam, oil or gas	electric, steam, oil or gas	electric, steam, oil or gas	electric, steam, oil or gas
Power of heaters		individual	individual	individual	individual
Guaranteed performance		individual	individual	individual	individual
Detergent dosing system		with concentration control	with concentration control	with concentration control	with concentration control
Required depth of the instalation place for the washer "Z"		500 mm	500 mm	500 mm	500 mm
Loading height above the floor for the washer "NP."		500 mm ± 25 mm	500 mm ± 25 mm	500 mm ± 25 mm	500 mm ± 25 mm
Number of rinsing nozzles		20	20	20	20

* dimensions mm

TUNNEL WASHERS

TRAYS, SHEETS AND MOULDS

2250
TB

XMP



3000
TB

XMP



Module name	Component name	XMP 2250 TB	XMP 3000 TB
Conveyor	Motor	0,25 kW	0,25 kW
Initial washing	Number of nozzles	-	48
	Washing pressure	-	about 4 bar
	Washing pump	-	5,5 kW
Main washing	Number of nozzles	96 szt.	76 szt.
	Washing pressure	about 4 bar	about 4 bar
	Washing pump	9,2 kW	7,5 kW
Water heating		electric, steam, oil or gas	
	Power of heaters	30-37,5 kW	30-37,5 kW
Rinsing	Number of nozzles	12	12
		individual	
Detergent dosing system		with concentration controll	
Dimensions* lenght		3355	4105
	width	1029	1029
	height (electric heating, steam heating)	1556	1556
	height (oil heating, gas heating)	1756	1756
Type of drying tunnel (recommended)		XTS-2000	XTS-2000
Ventilators		2x5,5 kW	2x5,5 kW
Air heating (optional)		electric, steam, oil or gas	

* dimensions of washer without drying tunnel and additdional equipment

DRYING TUNNELS

TRAYS, SHEETS AND MOULDS

1000
TB

XTS



2000
TB

XTS



3000
TB

XTS



4000
TB

XTS



Module name	XTS 1000 TB	XTS 2000 TB	XTS 3000 TB	XTS 4000 TB
Number of ventilators	1	2	3	4
Ventilator power	7,5 kW	7,5 kW	7,5 kW	7,5 kW
Air heating	option	option	option	option
Dimensions* lenght		1005	2005	3005
	width	929	929	929
	height	1556/1756	1556/1756	1556/1756

* dimensions mm



UNIVERSAL CHAMBER WASHERS

HEAVY DUTY DRUM CHAMBER WASHER



Name	XMU 800	XMU 1000	XMU 1200	XMU 1600
Working chamber dimensions*	800x800x600	1000x1000x600	1200x600x600	1600x800x700
Number of rotary heads	2	2	4	4
Washing pump	3 kW	4 kW	5,5 kW	5,5-7,5 kW
Water heating	electric, steam	electric, steam	electric, steam	electric, steam, oil or gas
Number of washing nozzles	12-16	16-20	28-32	32-36

* dimensions mm



100

CHAMBER WASHERS

WITH ROTATING DRUM FOR HEAVY ITEMS

Module name	Component name	XRS 100	XRSA 120
Washing	Number of nozzles	80	50
	Washing pressure	4 bar	4 bar
	Washing pump	individual	individual
		15 kW	15 kW
	Washed item dimensions L/W/H	1250/1000/900	1200/1000/1100
Water heating	Heating	electric, steam, oil or gas	
	Power of heaters	8x7,5 kw	8x7,5 kw
Guaranteed performance		individual	individual
Detergent dosing system		with concentration controll	with concentration controll
Dimensions*	length	4000	2700
	width	2000	2550
	height	3000	3300

* declared dimensions are only approximate, final dimensions are declared after confirmation of final specification



XRSA

120

DOUBLE LINE TUNNEL WASHERS

FOR CONTAINERS WITH SEPARATE LIDS

XMP

2000G
STYRO



XMP

4000
STYRO



2000
STYRO

XMP



3000
STYRO

XMP



Module name	Component name	XMP 2000 Styro	XMP 3000 Styro	XMP 4000 Styro
Conveyor	Motor	0,25 kW	0,25 kW	0,55 kW
Initial washing	Number of nozzles	-	44	44
	Washing pressure	-	about 3 bar	about 3 bar
	Washing pump	-	5,5 kW	5,5 kW
Main washing	Number of nozzles	65	65	72
	Washing pressure	about 3 bar	about 3 bar	about 3 bar
	Washing pump	7,5 kW	7,5 kW	9,2 kW
Water heating		electric, steam, oil or gas		
	Power of heaters	30-37,5 kW	30-37,5 kW	30-37,5 kW
Rinsing	Number of nozzles	24	24	24
Guaranteed performance		individual	individual	individual
Detergent dosing system		option	option	option
Dimensions* lenght		3805	4805	6500
	width	1329	1329	1329
	height (electric heating, steam heating)	1836	1836	1836
	height (oil heating, gas heating)	2036	2036	2036
Type of drying tunnel recommended)		XTS-2000 styro	XTS-3000 styro	XTS-4000 styro
Ventilators		3x7,5 kW	4x7,5 kW	4x7,5 kW
Air heating (optional)		electric, steam, oil or gas		

* dimensions of washer without drying tunnel and additional equipment

DOUBLE LINE DRYING TUNNELS

FOR CONTAINERS WITH SEPARATE LIDS

Module name	XTS 2000 styro	XTS 3000 styro
Number of ventilators	3	4
Ventilator power	7,5 kW	7,5 kW
Air heating	option	option
Dimensions* lenght	2005	3005
	width	1329
	height	1556/1756

* dimensions mm

2000
STYRO

XTS





DOUBLE LINE TUNNEL WASHERS

COMBINED ITEMS



Module name	Component name	XMP 2XP4	XMP 2XP6
Conveyor	Motor	2 x 0,55 kW	2 x 0,55 kW
Initial washing	Number of nozzles	28	28
	Washing pressure	5 bar	5 bar
	Washing pump	4,0 kW	4,0 kW
Main washing	Number of nozzles	56	70
	Washing pressure	4 bar	4 bar
	Washing pump	7,5 kW	7,5 kW
Pallets washing	Number of nozzles	62	80
	Washing pressure	4 bar	4 bar
	Washing pump	9,2 kW	11 kW
Water heating	Heating	electric, steam, oil or gas	
	Power of heaters	individual	
Guaranteed performance for 30 seconds washing cycle		510 items	700 items
Guaranteed performance for 30 sec. washing time		135 pieces	180 piece
Detergent dosing system		with concentration controll	with concentration controll
Dimensions* lenght		7510	9510
	width	1700	1700
	height	2120	2120

* declared dimensions are only approximate, final dimensions are declared after confirmation of final specification

TUNNEL WASHERS

SLAUGHTER HANGERS AND HOOKS

XMC
5000

XWR
3000


Module name	Component name	XMC 3000	XMC 5000	XMC 7000
Conveyor	Motor	0,55 kW	0,55 kW	0,75 kW
Main washing	Number of nozzles	180	210	240
	Washing pressure	5 bar	5 bar	5 bar
	Washing pump	11 kW	15 kW	22 kW
Water heating	Heating	electric, steam, oil or gas		
	Power of heatres	individual		
Guaranteed performance for 30 seconds washing cycle		individual		
Detergent dosing system		with concentration controll		
Dimensions*				
length		5000	7000	9000
width		1000	1000	1000
height		3300	3300	3300

* declared dimensions are only approximate, final dimensions are declared after confirmation of final specification

WASHERS FOR ALC CONTAINERS

WITH INTEGRATED SPLIT LID

3080
ALC

XMP


Module name	Component name	XMP 3080ALC
Conveyor	Motor	0,25 kW
Initial washing	Number of nozzles	42
	Washing pressure	4 bar
	Washing pump	7,5 kW
Main washing	Number of nozzles	86
	Washing pressure	4 bar
	Washing pump	11 kW
Rising	Number of nozzles	20
Guaranteed performance for 30 seconds washing cycle		340 items
Water heating	Heating	electric, steam, oil or gas
	Power of heaters	individual
Type of drying tunnel (recommended)		XTS-2080 ALC
Detergent dosing system		with concentration controll
Dimensions* length		6110
width		1500
height		1900

* declared dimensions are only approximate, final dimensions are declared after confirmation of final specification



TUNNEL WASHERS

FOR JARS AND OTHER FINAL PACKAGING ITEMS

1500



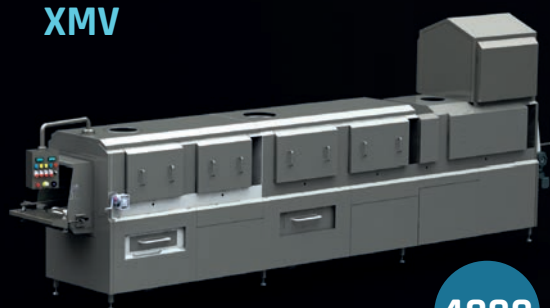
XMV

330z



XMS

XMV



4000

XMV



4x2

Module name	Component name	XMV 1500	XMV 2000	XMV 2250	XMV 3000	XMV 4000	XMV 4x2	XMS 300Z
Conveyor	Motor	0,18 kW	0,18 kW	0,25 kW	0,25 kW	0,55 kW	0,55 kW	4 x 0,37 kW
Main washing	Number of nozzles	45	60	80	90	100	2x100	28
	Washing pressure	3 bar	3 bar	3 bar	4 bar	4 bar	4 bar	4 bar
	Conveyor width (mm)	200 mm						
	Washing pump	4,0 kW	5,5 kW	7,5 kW	9,2 kW	4+7,5kW	2x4+2x7,5kW	4,0 kW
Water heating	Heating	electric, steam, oil or gas						
	Power of heaters	individual	individual	individual	45 kW	45 kW	45 kW	45 kW
Guaranteed performance		individual	individual	individual	individual	individual	individual	individual
Detergent dosing system		with concentration controll						
Dimensions* lenght		2500	3000	3500	4250	5500	5500	2650
	width	900	900	900	900	900	1800	2000
	height	1430	1430	1430	1430	1430	1720	1520

* declared dimensions are only approximate, final dimensions are declared after confirmation of final specification

TUNNEL WASHERS

FOR KNIVES AND CHAIN GLOVES

1200
XKN
2000
XKN
3000
XKN

Module name	Component name	XKN 1200	XKN 2000	XKN 3000
Conveyor	Motor	0,18 kW	0,18 kW	0,18 kW
Washing	Number of nozzles	32	44	56
	Washing pressure	4 bar	4 bar	4 bar
	Washing pump	4 kW	5,5 kW	7,5 kW
Water heating	Heating	electric, steam		
	Power of heaters	24 kW	30 kW	37,5 kW
Guaranteed performance		individual		
Detergent dosing system		with concentration control		
Dimensions* lenght		2055	2855	3155
width		820	820	820
height		1810	1810	1810

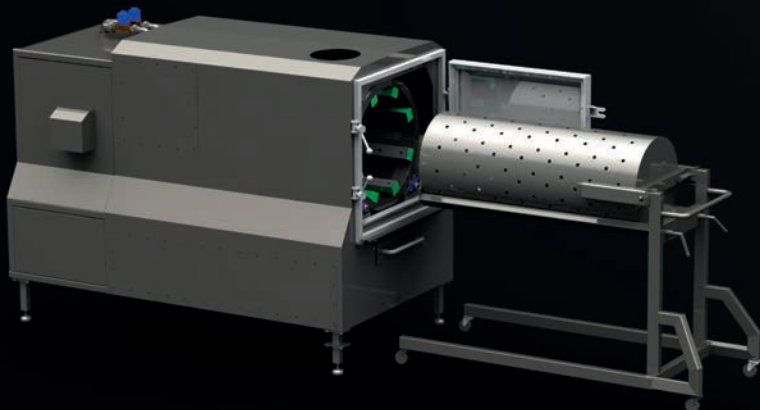
* declared dimensions are only approximate, final dimensions are declared after confirmation of final specification



TUMBLER WASHERS

FOR CLEANING SMOKE STICKS AND SMALL PRODUCTION EQUIPMENT

XMKM



200

SMART LOAD

STICK WASHING SYSTEM

TUMBLER WASHERS

FOR SMOKING STICKS
AND SMALL PRODUCTION EQUIPMENT

600

XMK



Module name	XMKM 200	XMKM 400
Loading	200 pieces	400 pieces
Cleaning system	drum	drum
The cleaning time (min)	10-60	10-60
The flushing time (min)	5-10	5-10
Washing pump	1,2	1,5
Bottom tank	yes	yes
Detergent dosing system	option	option
Water heating	electric, steam	electric, steame
Dimensions* lenght	2000	2000
width	1450	1650
height	1450	1650

* dimensions mm

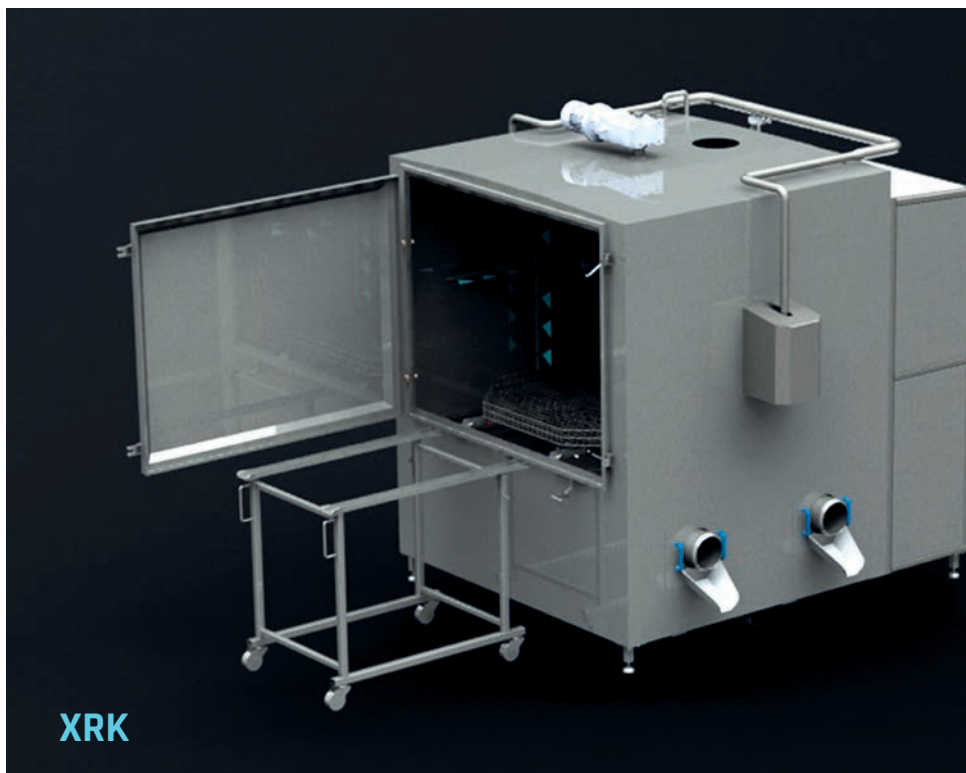
Module name	XMK 300	XMK 800
Loading	400 pieces	800 pieces
Cleaning system	drum	drum
The cleaning time (min)	10-60	10-60
The flushing time (min)	5-10	5-10
Washing pump	1,2	1,5
Bottom tank	yes	yes
Detergent dosing system	option	option
Water heating	electric, steam	electric, steam
Dimensions* lenght	1700	1700
width	950	1200
height	1500	1650

* dimensions mm

CHAMBER WASHERS FOR TOOLS AND EQUIPMENT ITEMS

WITH ROTATING BASKET

1500



XRK

1000



XRK

Module name	Component name	XRK 1000	XRK 1300	XRK 1500
Rotary table drive	Motor	0,55 kW	0,75 kW	1,1 kW
Washing	Number of nozzles	32	44	48
	Washing pressure	5 bar	5 bar	5 bar
	Washing pump	7,5 kW	9,2 kW	11 kW
Water heating	Heating	electric, steam, oil or gas		
	Power of heaters	24 kW	30 kW	45 kW
Guaranteed performance		1000 mm	1300 mm	1500 mm
Detergent dosing system		with concentration controll		
Dimensions* lenght		2055	2000	2550
width		1800	2200	2550
height		2450	2700	2700

* declared dimensions are only approximate, final dimensions are declared after confirmation of final specification



AUTOMATIC HANDLING SYSTEM FOR WASHING CONTAINERS

STACKER SASP



900

DESTACKER SADSP



900

Module name	SASP 300	SASP 600	SASP 900
Capacity per minute	300	600	900
Number of containers in the column	10 (up to 2000 mm heights)		
Height of the column to be stacked	longitudinal / transverse		
Container dimensions	individual		
Integrated transporter	2400 mm		
Transporter motor	0,25 kW	0,25 kW	0,25 kW
Compressed air demand	8 bar	8 bar	8 bar
Lifting system	pneumatic		
Dimensions* lenght	2100	2100	2100
width	900	900	900
height	2400	2400	2400

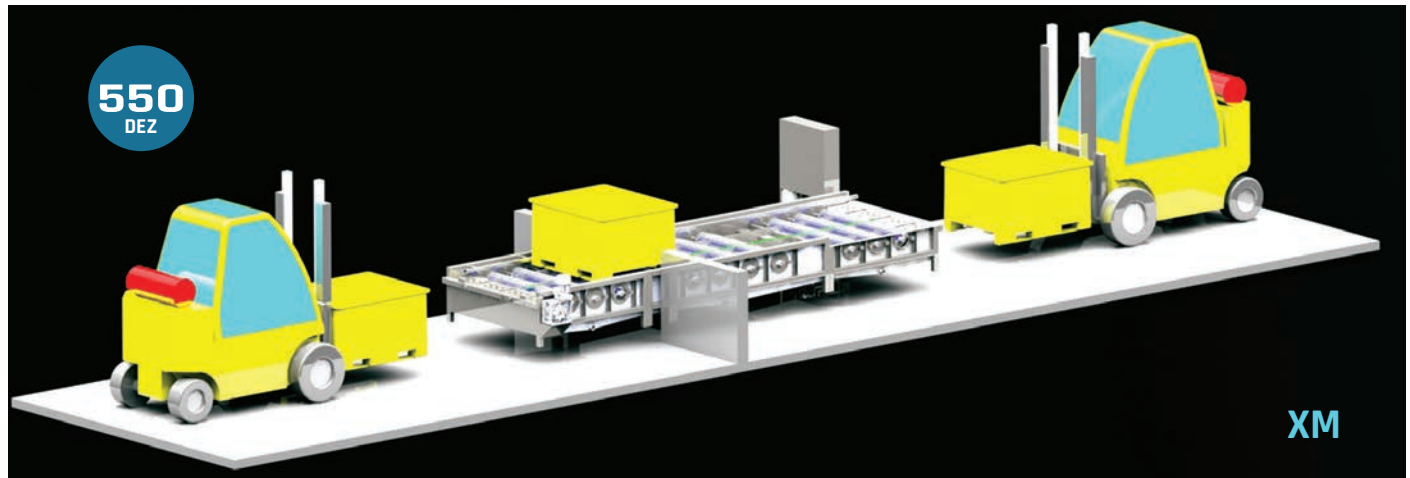
* dimensions mm

Module name	SADSP 300	SADSP 600	SADSP 900
Capacity per minute	300	600	900
Height of the column to be stacked	up to 2000 mm		
Container position	longitudinal / transverse		
Container dimensions	individual		
Integrated transporter	2400 mm		
Lifting system	chain hoist		
Transporter motor	0,25 kW	0,25 kW	0,25 kW
Compressed air demand	8 bar	8 bar	8 bar
Lifting system	pneumatic		
Dimensions* lenght	2100	2100	2100
width	900	900	900
height	2400	2400	2400

* dimensions mm

LINE FOR OUTSIDE DESINFECTION

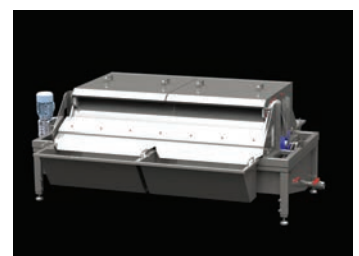
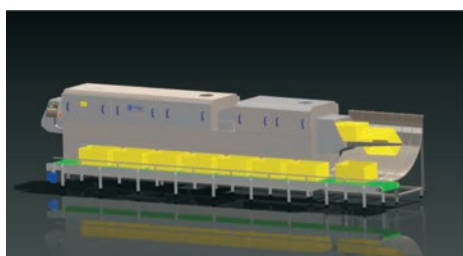
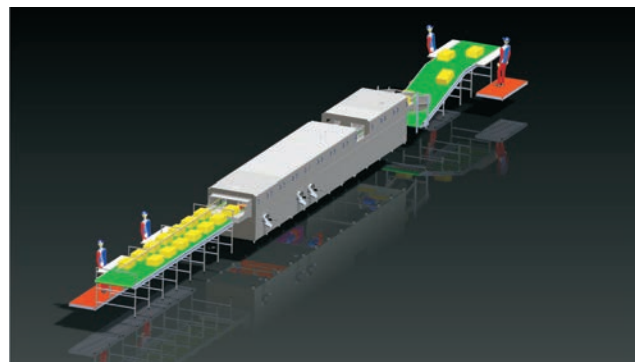
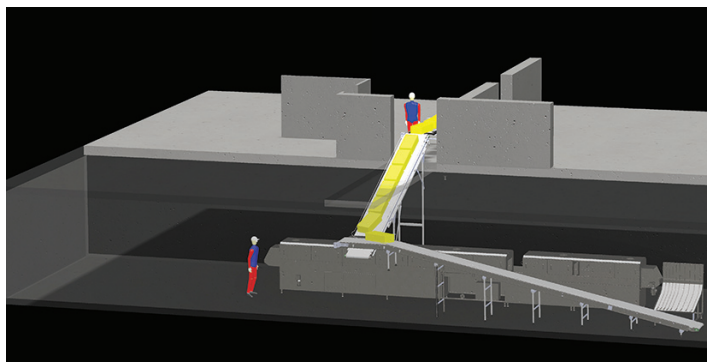
FOR LOADED BIG BOXES



Module name	Component name	XM 550DEZ-1	XM 550DEZ-2
Washing	Washed item dimensions L/W/H	1200/1000/750 mm	1200/1000/750 mm
	Maximum weight of the washed item	800 kg	800 kg
	Performance	individual	individual
Process description	phase 1	washing with brush (3 pcs.) with fresh water	washing with brush (3 pcs.) with closed water circulation
	phase 2	desinfection with brush (3 pcs.) with closed water circulation	water circulation spray washing (40 nozzles) with closed water circulation
	phase 3	spray rinsing with brush (3 pcs.) with fresh water spray	desinfection with closed water circulation
	Pumps power	1x 0,55 kW	2 x 0,55 kW
Dimensions*	length	6000	6000
	width	1800	1800
	height	700	700

* declared dimensions are only approximate, final dimensions are declared after confirmation of final specification

CUSTOMIZED WASHING LINES





www.clevro.pl

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