



primus®

BARRIER WASHER EXTRACTOR

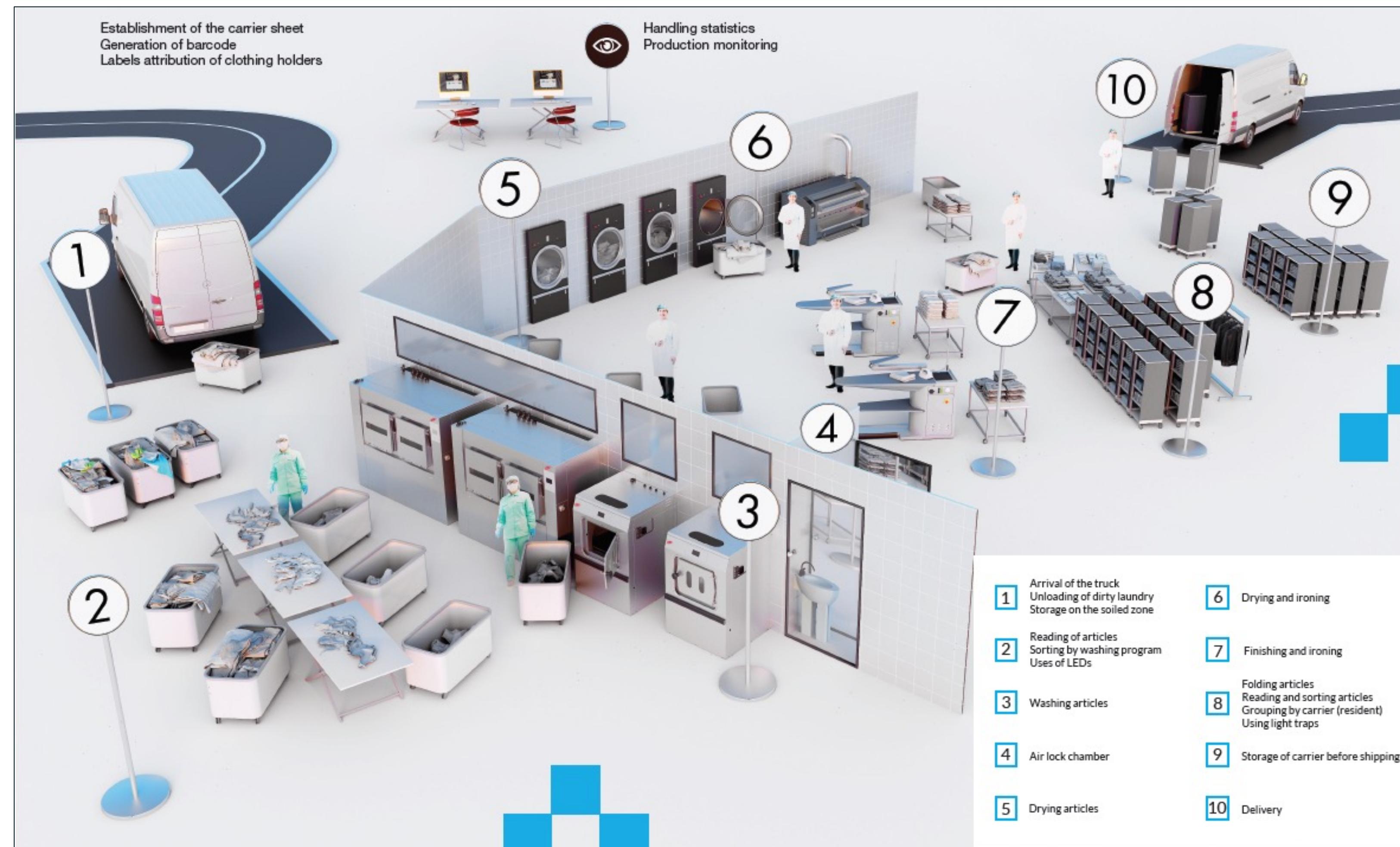
with XControl FLEX PLUS

FXB 180 | 240 | 280



GET AHEAD IN LAUNDRY 

Barrier Laundry Concept



Primus Barrier Washer Extractors range



FXB 180 – 240 – 280



MXB 360 – 500 - 700



MB 90 – 110 – 140 - 180



- **Capacity: 18 – 24 – 28 kg**
- **Frame: Zinc plate steel**
- **Joints: Clinched**
- **Suspension: Springs**
- **Drum perforation: 5 mm**
- **Drum compartments: 1**

- Capacity: 36 – 50 – 70 kg
- Frame: Painted steel
- Joints: Welded
- Suspension: Springs
- Drum perforation: 5 mm
- Drum compartments: 1 or 2 (or 1+1)
- Special version: Clean room, Pullman

- **Capacity: 90 – 110 – 140 – 180 kg**
- **Frame: Painted steel**
- **Joints: Welded**
- **Suspension: Air bags**
- **Drum perforation: 5,8 mm**
- **Drum compartments: 2 or 3**

Design

Primus	
Top panel	
Front panel	Stainless steel
Side panel	



*Full stainless steel cabinet as standard perfectly fits to every
hygienic laundry installations / Easy cleaning and sleek surface
avoiding deposit of particles or dust*

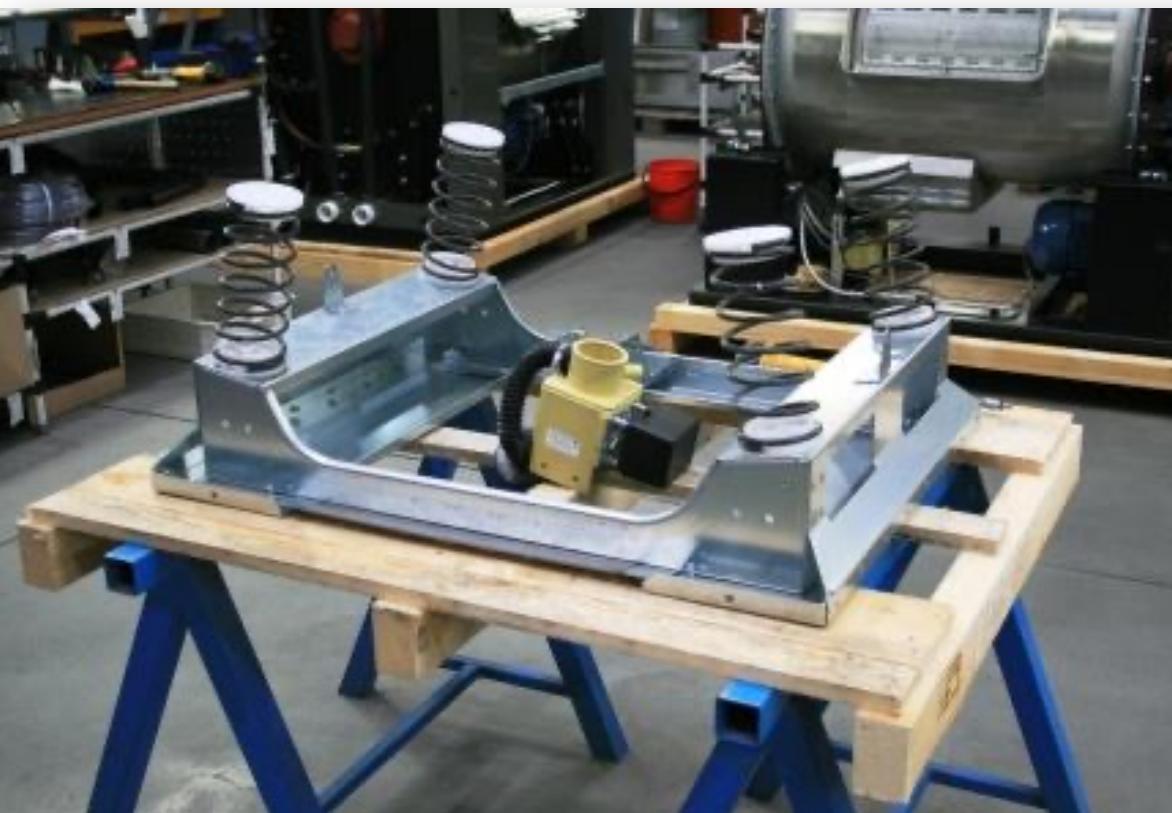


Frame

- Zinc-plated steel
- Joints by „CLINCHING“ technology (not welded)

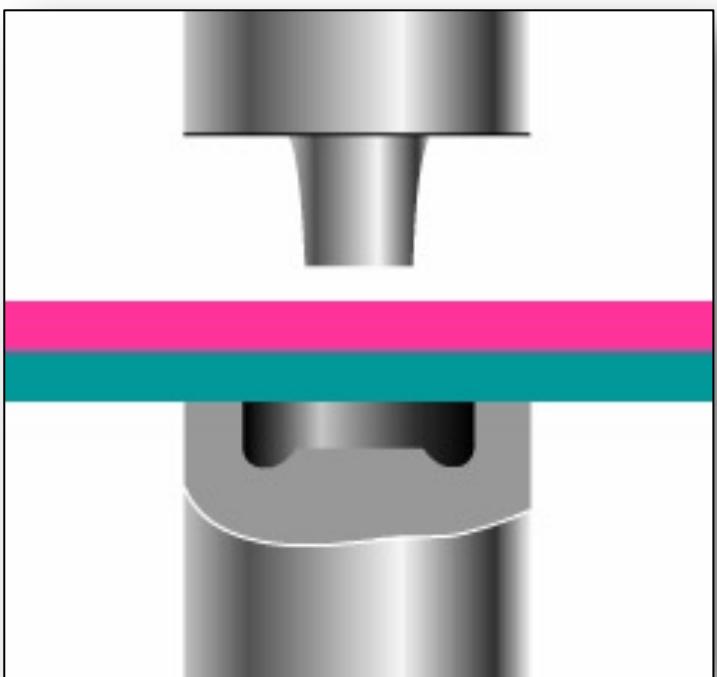


Proven technology from automotive and aviation industries

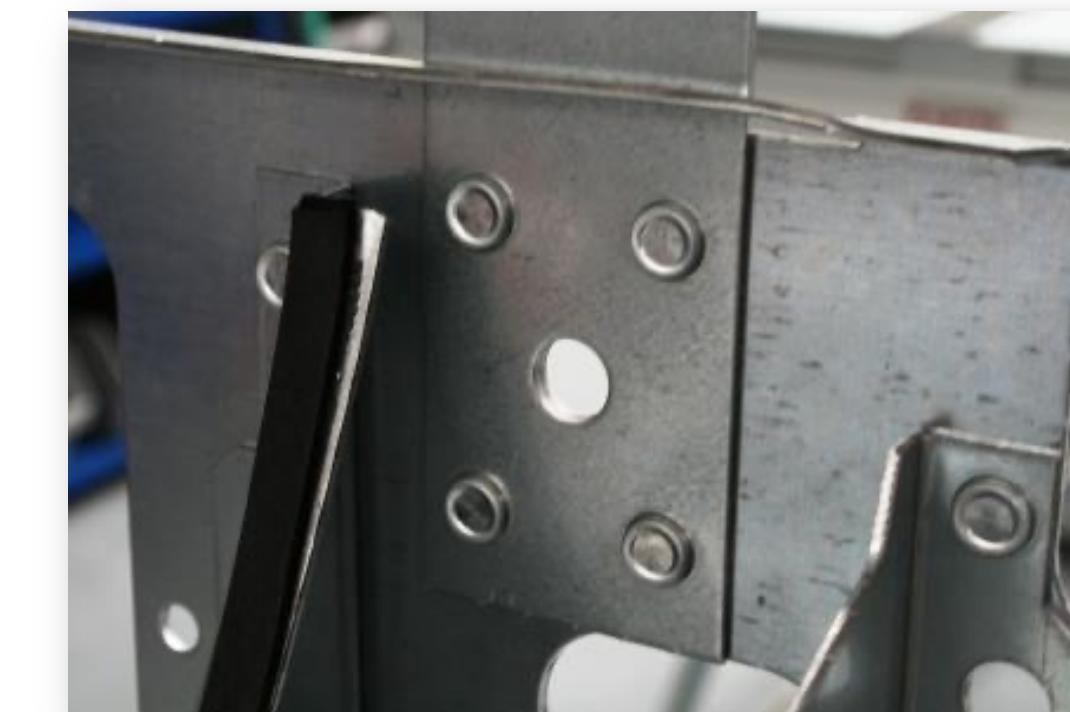
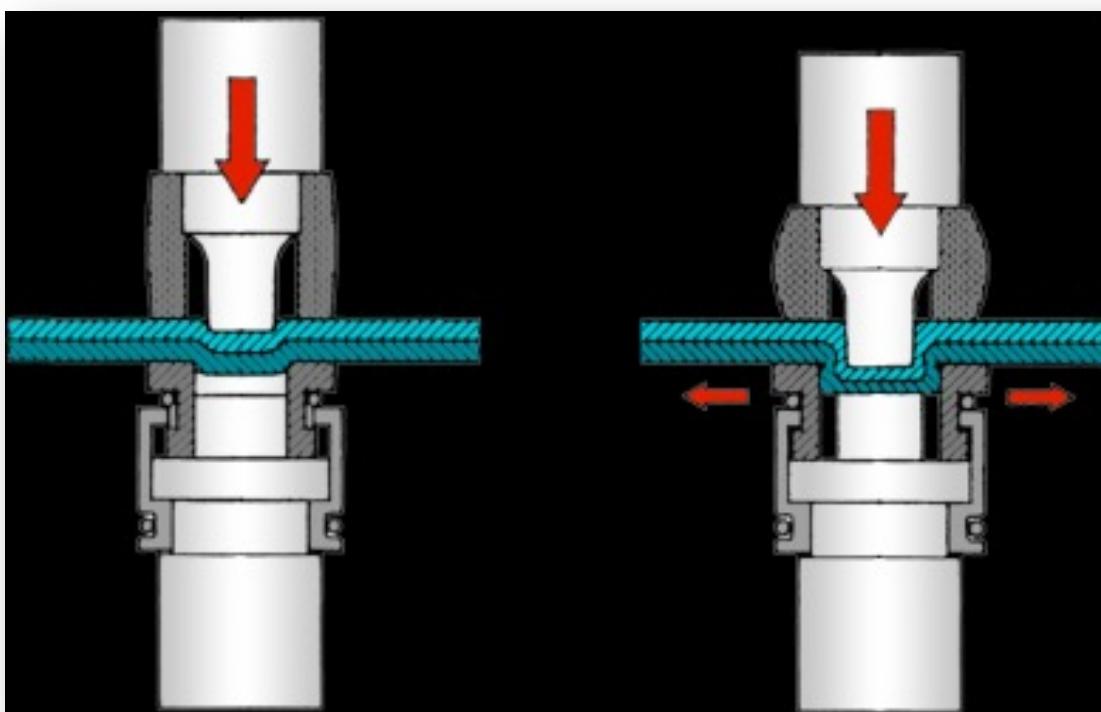


Perfect absorption of vibration, due to clinching and suspended frame = soft-mount

Frame: Clinching Technology



- Press-joining using special tools to form an interlock between two or more sheets (not welded)
- First time successfully used on 65-280 L softmount's platform
- Technology supplied by a market leader in joining techniques*



* With references: Audi, BMW, Bosch, Brose

Clinch Technology: Benefits



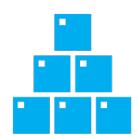
Strength

- No thermally affected zone (without damage to the surface coating)
- The mechanical strength of the metal material near the joint is generally increased due to work-hardening



Quality

- Immediate quality control: simple visual control of the connection
- No hidden defects (difficult to detect)
- Easier to train & substitute production operators, in particular of „pandemic“ situations



Material

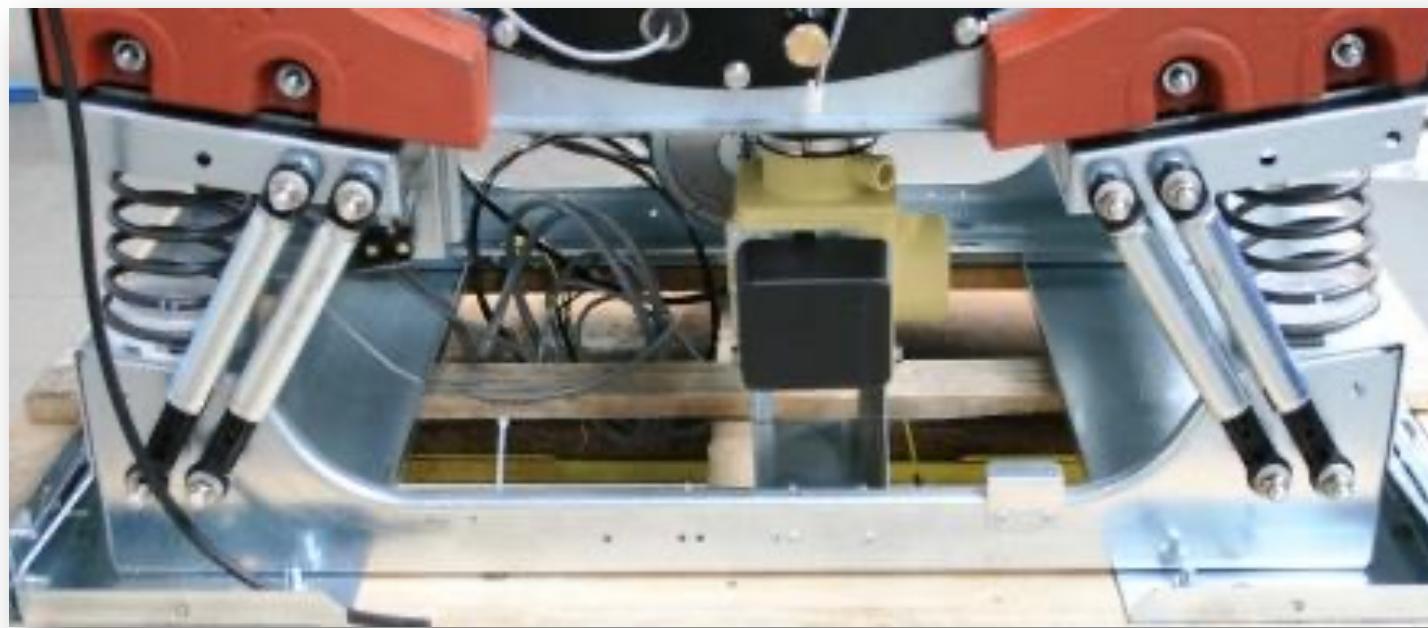
- No additional elements: the process does not involve additional elements such as screws, rivets or adhesives



Eco-friendly

- Does not require pre-treatments (solvents, acids, etc) and after-treatment operations as we use galvanized sheetmetal parts
- Cleanliness: the process does not produce flashes or fumes

Suspension



Side double damping

- Soft springs for high G-force
- Optimized balance
- Easy installation



No anchoring required

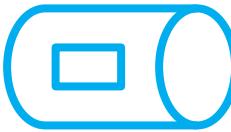


180 L frontal damping

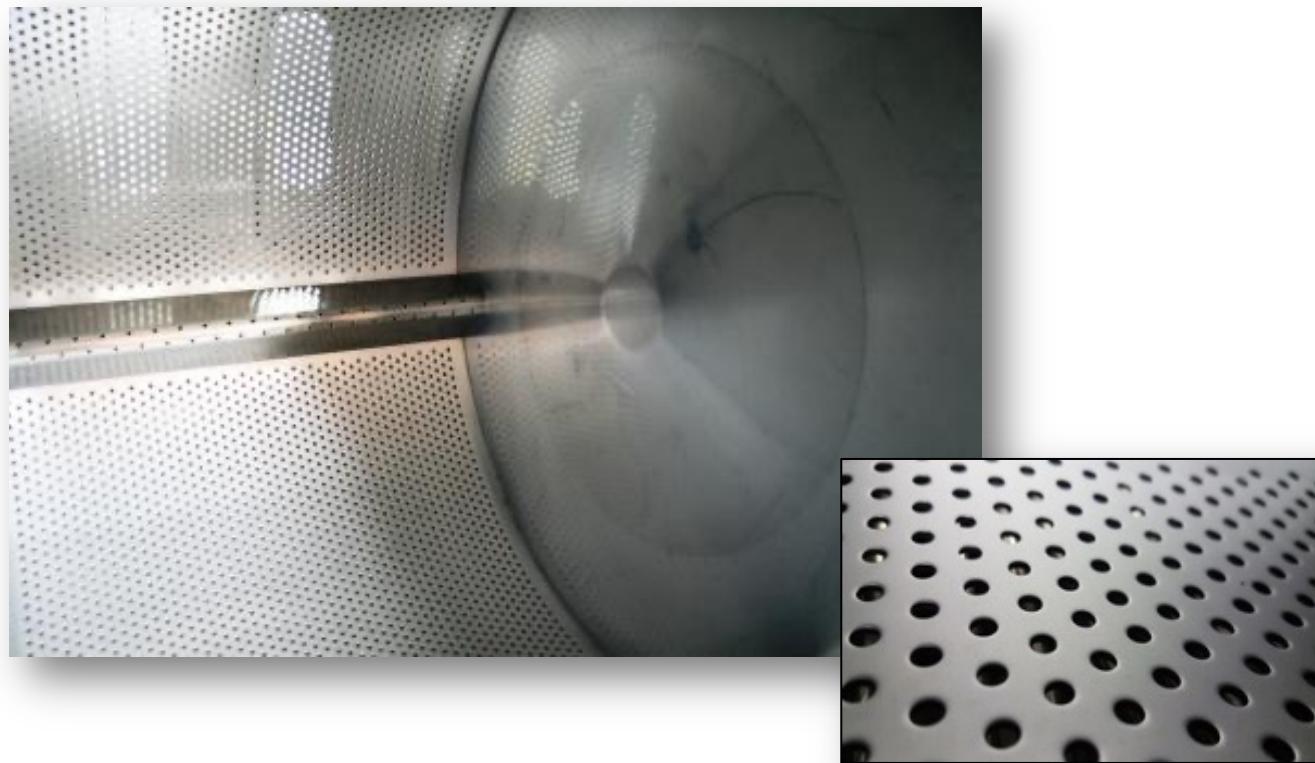
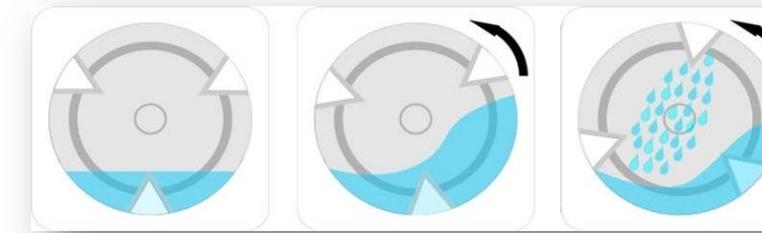


240 L frontal damping

Drum



- 4 lifting ribs for ideal mechanical action
- Stainless steel
- Perforated ribs



		180 L	240 L	280 L
Volume	(l)	180	240	280
Diameter	(mm)	750		
Depth	(mm)	409	544	639
Perforation	(mm)	5		
Baffles		4		
Drum shape		Flat		
Compartments		1		

	(kg)	18	24	28
Capacity (1:10)	(lbs)	40	53	62

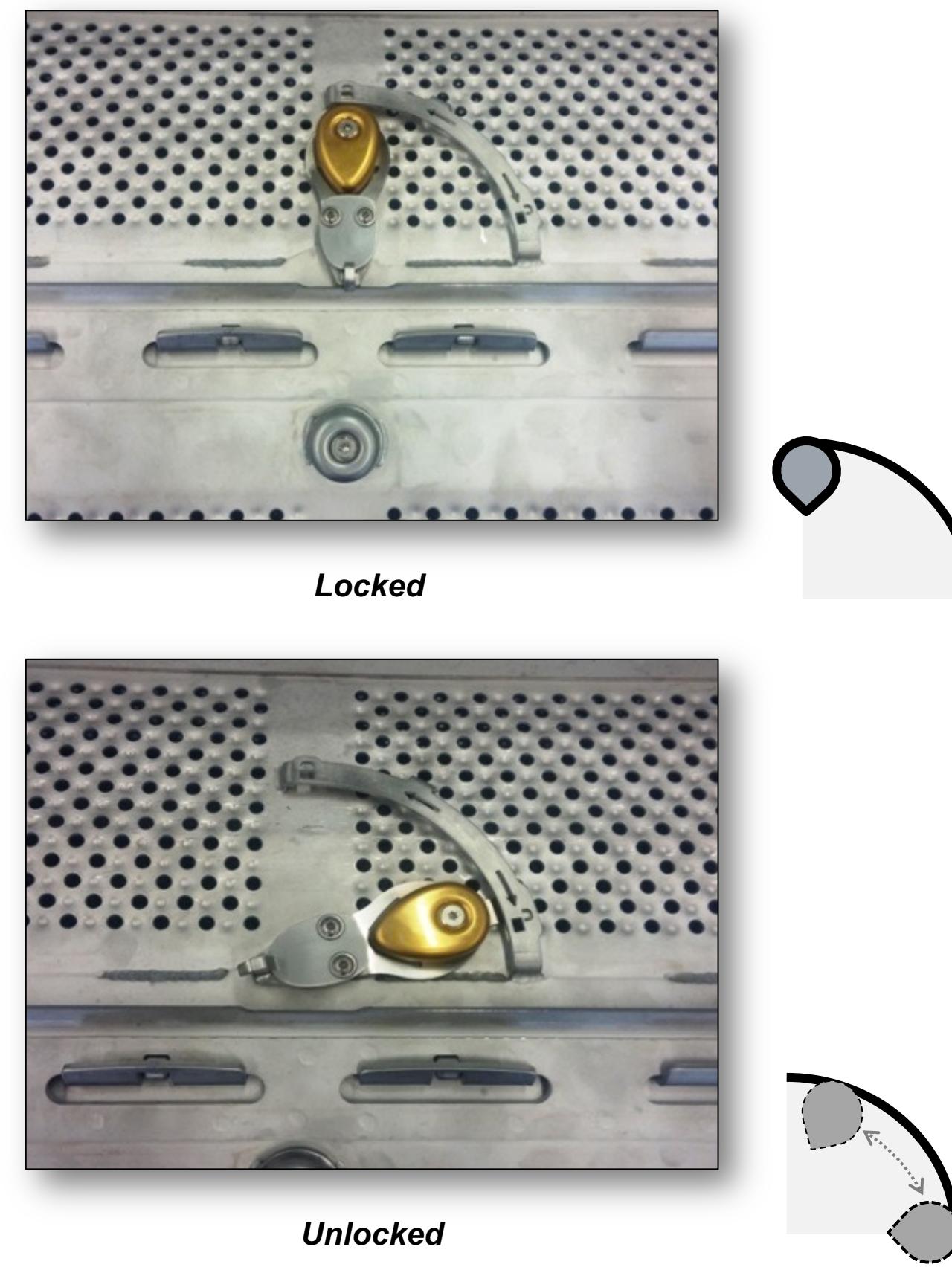
	(kg)	20	27	31
Capacity (1:9)	(lbs)	44	60	68

Drum opening

- Patented inner door lock mechanism
 - increased safety & easier opening
- Simple slide by finger
- Visual check at glance
 - simple visual verification of properly locked drum
- Automatic software control



2-level safety system => visual by operators / auto-mechanical by the control. If the lock is not in its locked position, the programmer will not allow to start the wash cycle and an info message will pop up



Bearing House Construction

- 2 bearings (1 on both sides)
- High quality bearings
- Bearing house is mounted on the both sides
- Vibrations are optimally diverted to the suspension
- 4 lubrication inlets on the top of machine as a STANDARD



The lubrication ports simplifies maintenance and also works as a visual reminder for lubrication of the bearings



Sealing

- 2+2 radial seals FKM
- 1+1 hardened sleeve
- Long life span
- Easy service:
 - Quick replacement time



Motor

- Frequency controlled drive
 - Motor:
 - Higher torque
 - High extraction speed
 - Lower noise
 - Less unbalances
 - Automatic brake system
- Option:
- FPS (Fluctuation Power Supply) protection



		180 L	240 L	280 L
Motor power	(kW)	2,2	3	
Wash speed	(rpm)		42	
Extraction speed	(rpm)	939		914
G force		370		350
Noise – wash	dB(A)	45	48	48
Noise - extraction	dB(A)	67	68	70

Pulley

- Main pulley: Aluminium
- Motor pulley: Black steel
- Easy service
- 2 sensors for automatic positioning of the drum



Water Inlets

- Standard 3 high capacity water inlets on the top of machine
- Standard cool down
- $\frac{3}{4}$ " inlet valves
- Easy to remove filter without having to remove the valve: service friendly



OPTION:

- 2 water inlets only

Soap Box



- Stylish Scandinavian design
- 4 compartments for manual dosing:
 - 2 for powder and 2 for liquids
- Ergonomical position:
 - Centered on the top panel
- Easy dosing:
 - Compartments next to each other: No confusion
 - Lid of the soap box with embossed icons for each of the compartments



Flexible material, thus preventing damage during handling

Soap Box: Connection to the Tub



- No aggressive chemicals directly in contact with the linen
- Chemicals flows into the mixer, where are diluted with water before flowing into the drum

Liquid Soap Connection & Mixer

Mixer:



- Soap mixer is a standard feature on FXB line
- Up to 13 liquid soap pumps possible, connected to the soap box by hose:
 - 2x ø19mm
 - 3x ø14,5mm
 - 8x ø11,5mm

Liquid soap print:



- Liquid soap print board is a standard on the FXB line
- Easy-accessible  *No need to open the machine*
- 8 liquid soap pumps are possible to control

Heating Options

- Available heating options:
 - Biler fed + prep for steam
 - Electric + prep for steam
 - Direct steam
 - Dual (Electric + Steam)

Electric

- Positioned on the left side
- Easy access for quick service
- Quick wash cycles



	180 L	240 L	280 L
kW	18	18	21.9

Steam

- Direct steam
- 1-8 bars
- Positioned on the soiled side
- Combination with electrical heating is possible
- Switch between steam and electrical heating is on the soiled side
- Steam inlet 1x ½" on the top of machine



Steam inlet



Steam pipe with injector

Doors

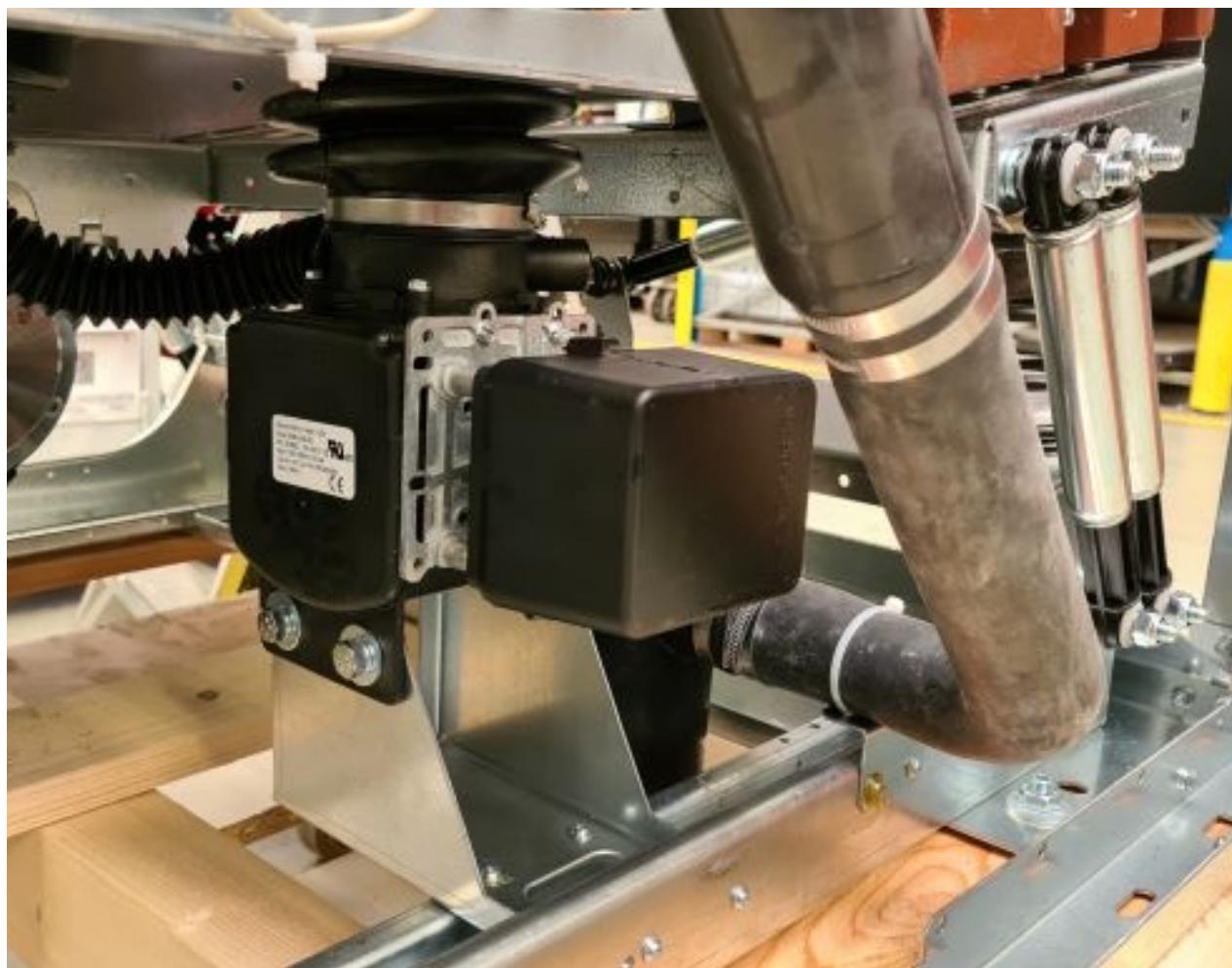
- Easy loading & unloading
- Opening to 170°
- Very strong 8,4 mm door glass resistant to high temperatures > 100° C
- Automatic door positioning system as STANDARD



Horizontal door opening with wide opening angle gives operators quick & effortless access to the drum for easy manipulation with the linen



Drain



Drain under tub

- **Directly under the tub:**
 - Low water consumption
 - No wasted chemicals
- **Standard 3“ drain valves:**
 - Small objects are evacuated
- **90° drain valve:**
 - Auto-rinsing effect behind the valve
- **Easy service:**
 - Access from the soiled side of machine

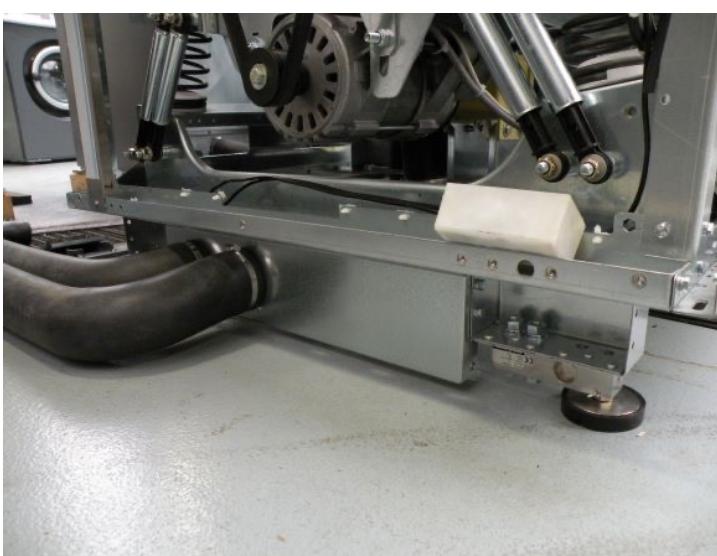
Options:

- **2nd drain valve for water recuperation**
- **Drain to a side of the machine (must be in combination with one of following options):**
 - Special base frame
 - Weighing system by cells

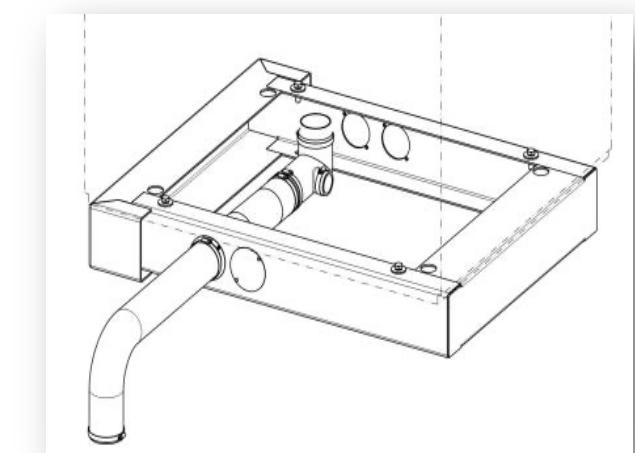
Option: Lateral Drain

- Lateral (to a side) drainage is possible in combination with one of following options:

- Weighing system by cells:
 - Available in the price list



- Base frame:
 - Available through Accessories

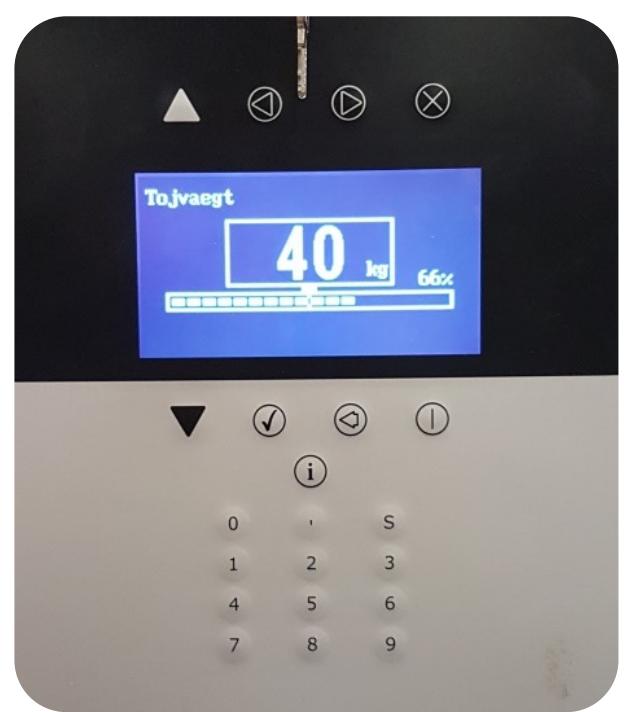


Weighing Systems

- Weighing system can be enabled / disabled in the menu of programmer
- Available functions:
 - Automatic water level adjustment according to measured load of linen
 - Automatic liquid detergent adjustment according to measured load of linen

Standard: Semi-automatic

Weight of linen needs to be entered by operator on numeric keypad



Keypad-type control



Touch-type control

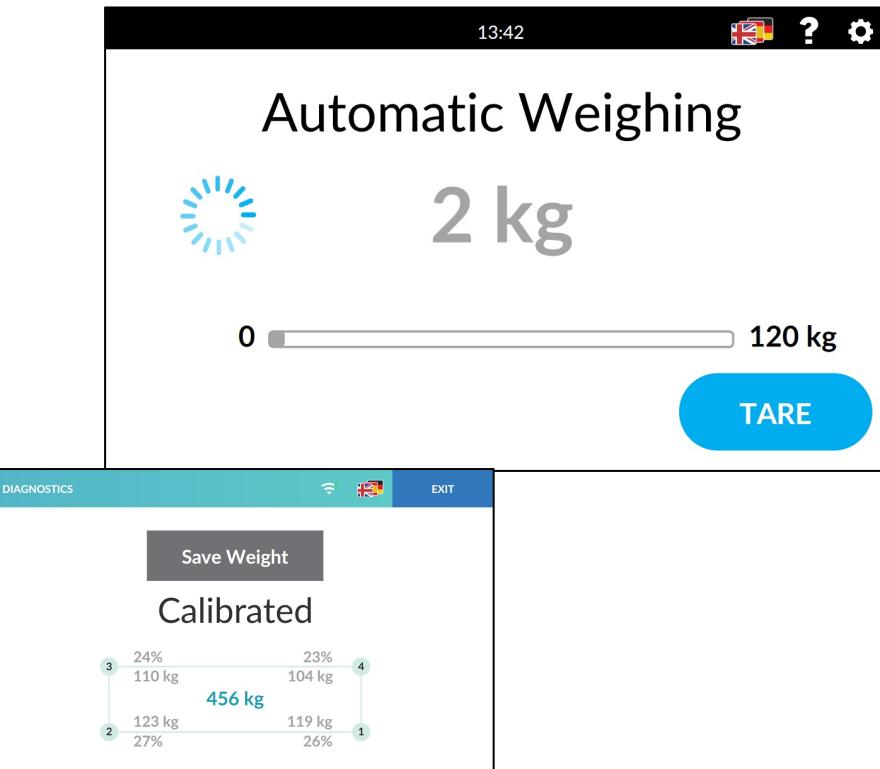


Optimal water level according to amount of linen to wash saving on water wasting and reduces cost for laundry owners (less water, less energy needed to heat it up)

Option: Fully automatic by weighing cells

Weight of linen is measured automatically by 4 weighing cells located in legs of the machine

New design increases height of machine by only 2 – 7 mm



USB Port

- Connection on a side of the machine
- Export programs from the machine
- Import programs to the machine
- Copy of the machine settings from machine (machine parameters)
- Import machine settings and programs to the machine (created in TraceTech)
- Simple firmware update
- STANDARD for FXB line

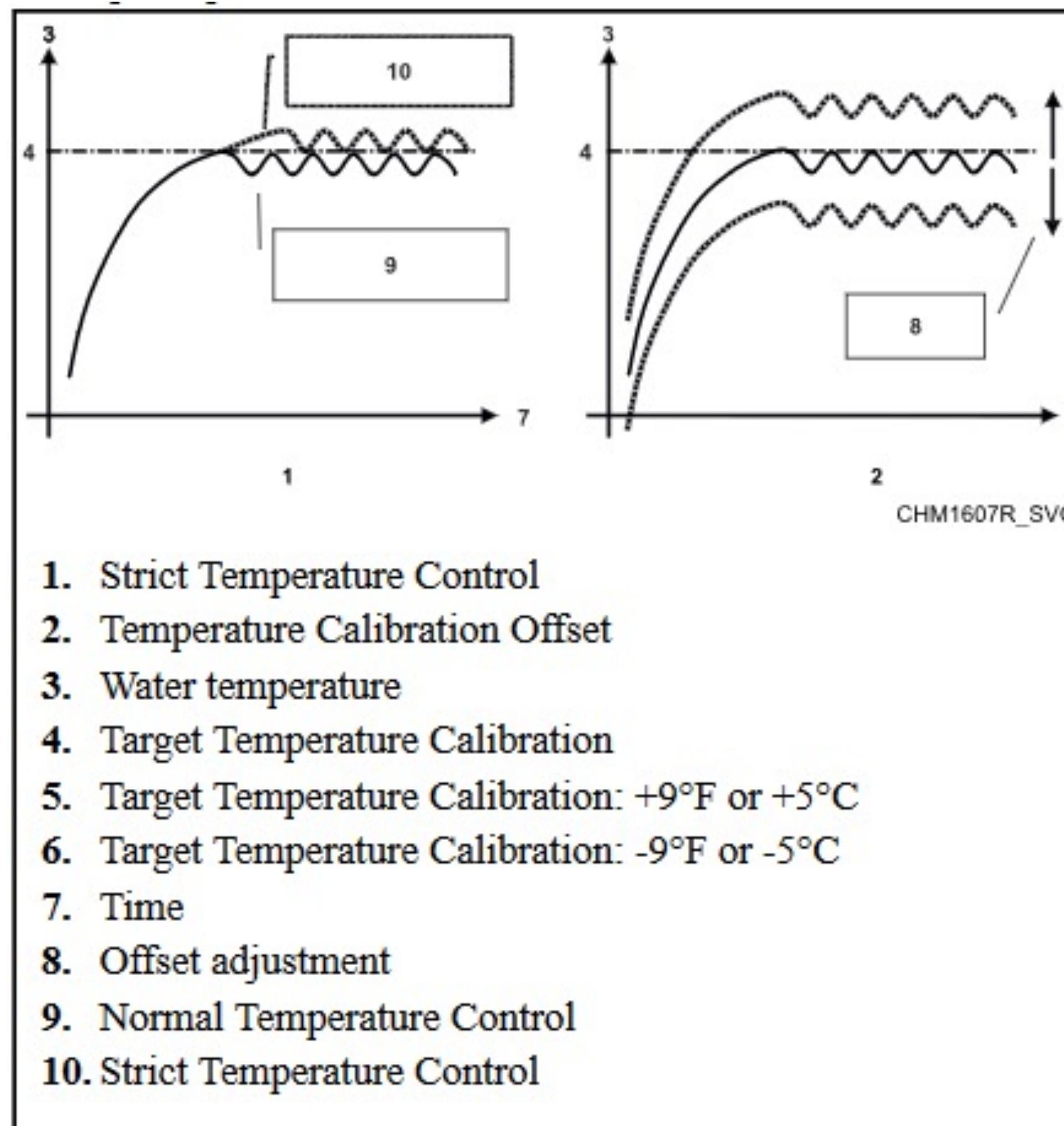


Easy access to the USB port speeds up service interventions in case of firmware update or program changes

Left side panel of the machine
(soiled side)



Hygienic Cycle Settings



Full Heating

- This function allows to reduce the energy consumption at long hot washes. When the heating has reached the programmed target temperature, heating will be restarted when the bath temperature goes below the temperature hysteresis.
- In case of a hygienic program, 100% must be selected

Strict Temperature Control:

- Strict Temperature Control ensures that the fabrics are washed at same value as the programmed target temperature (temp will not drop below targeted value)
- In normal operation, the washing machine heating system works with a temperature control hysteresis below the programmed target temperature value

Temperature Calibration Offset

- The temperature sensor of the washing machine can be calibrated with an external temperature measurement device as reference. The temperature sensor value can be adjusted in a range of +5° C and or -5° C.

Hygienic Water Level

- This function activates the mode of more accurate checks of the required water level during the washing procedure

Control Panel



- Stainless steel
- Inclined 20°  Ensures perfect readability for all operators
- Programmer is on the soiled side

Option:

- Display on the clean side

 Provides valuable information, like Selected cycle, Actual step; Remaining time) for operators on the clean side = improved efficiency, helps to avoid process-communication issues



Optional display on the clean side



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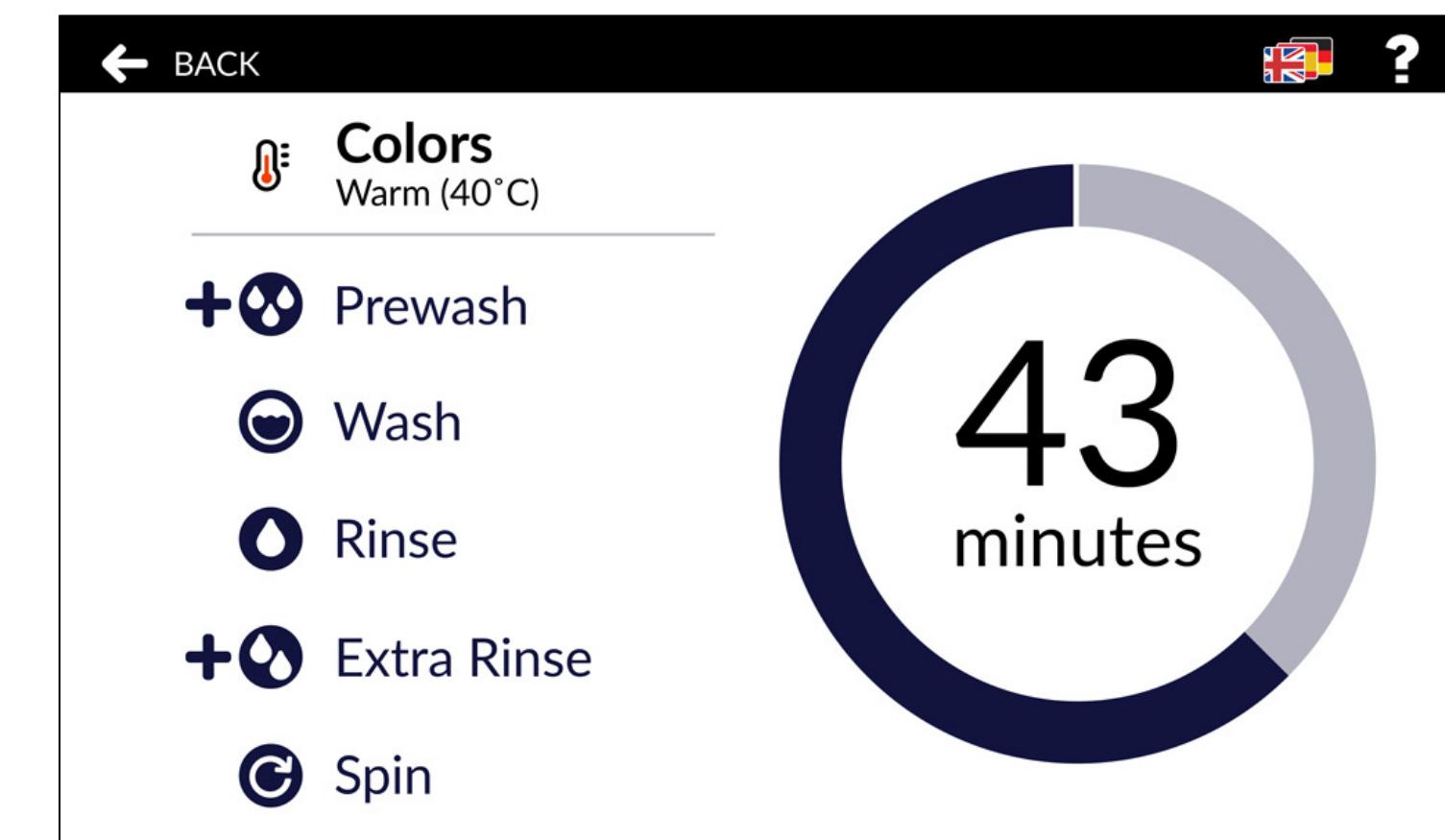
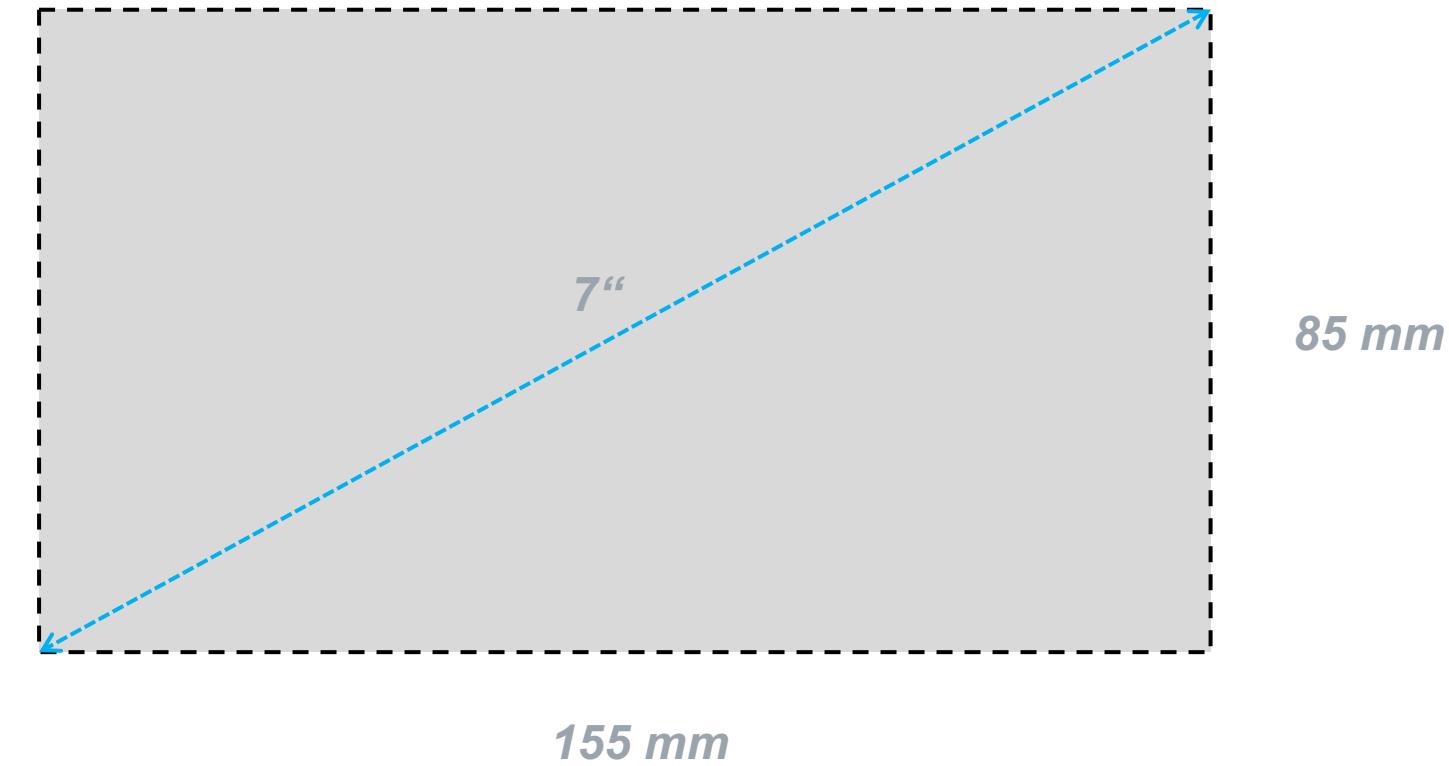


Connected Touchscreen controls for OPL
XControl FLEX PLUS



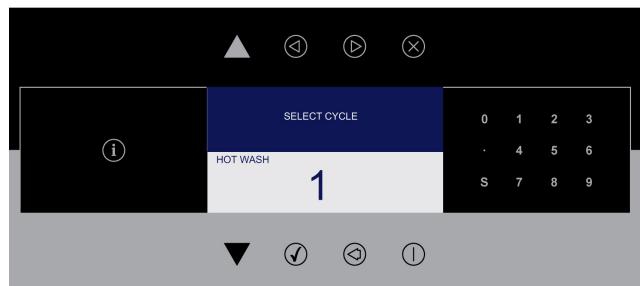
GET AHEAD IN LAUNDRY 

General Overview



Control size	7" diagonal	(12,9% larger than iPhone 12) (12,6% smaller than iPad mini 5)
Resolution	1024 x 600 (WSVGA)	(H:V ratio 15:9)
Luminance (brightness)	1000 nit (cd/m ²)	(625 cd/m ² on iPhone 12) (870 cd/m ² on Samsung S21 Plus)
Colors	+16 million colors	(equal to Samsung S21-series)
Viewing angle	180° viewing angle	(High viewing angle for perfect readability)
Communication	USB, RS485, WiFi	
Energy savings	Screensaver mode	
Chemical resistance	Passed over 25 selected chemical substances	(Coffee, Juice, Acetone, Gasoline, Vinegar,...)

Available Controls



Commercial name	Button generation	Touch generation
Display	5" monochrome	7" touch & swipe
Colors	Blue & white	16 milion
Program memory	99	99
Program change	All fully programmable	All fully programmable
Languages	21	34
Connectivity	USB / RS485	Wireless / RS485 / USB
Network	Local	Cloud / Local
Updates	Via USB	OTA** / USB
Manual weighing system	✓	✓ (Q2/2022)
Automatic weighing system by weigh.cells	✓	✓ (Q2/2022)
Traceability	✓	✓
Count-up timer	--	✓
Delayed start	✓	✓
Batch number	✓ (w/ SoapLink)	✓
SoapLink communication	✓	✓ (Q2/2022)
Extra	Banners	✓ (TBD)
	QR codes	✓ (TBD)
	Water leakage detection	✓ (TBD)

** OTA = Over the Air

Languages

34 available languages as standard

- 7 new languages for selection
- Chinese, Japanese and Korean language no longer in separate software version
- Slovak and Bulgarian now also fully translated in advance & service menu

 **Better market fit and customer interaction**

 English	 Hungarian	 Romanian
 Bulgarian	 Indonesian	 Russian
 Chinese (Simplified)	 Italian	 Slovak
 Chinese (Traditional)	 Japanese (Standard)	 Slovenian
 Croatian	 Korean	 Spanish (European)
 Czech	 Latvian	 Spanish (Columbian)
 Danish	 Lithuanian	 Swedish
 Dutch	 Malaysian	 Thai
 Finnish	 Norwegian	 Turkish
 French	 Polish	 Vietnamese
 German	 Portuguese (European)	
 Greek	 Portuguese (Brazilian)	

New compared to Xcontrol
("button" version)

Program Library

- 20 pre-set programs
- 99 programs memory
- Legacy of current (MC7 gen) controls
- All freely programmable

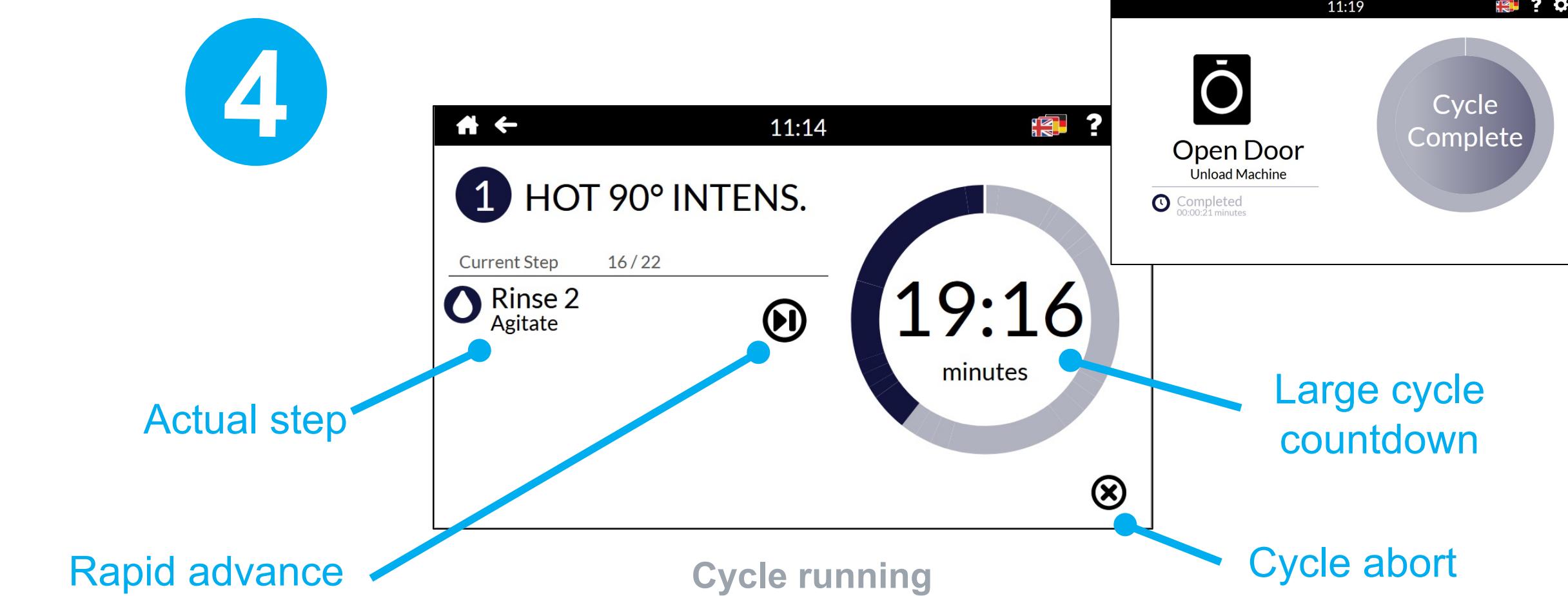
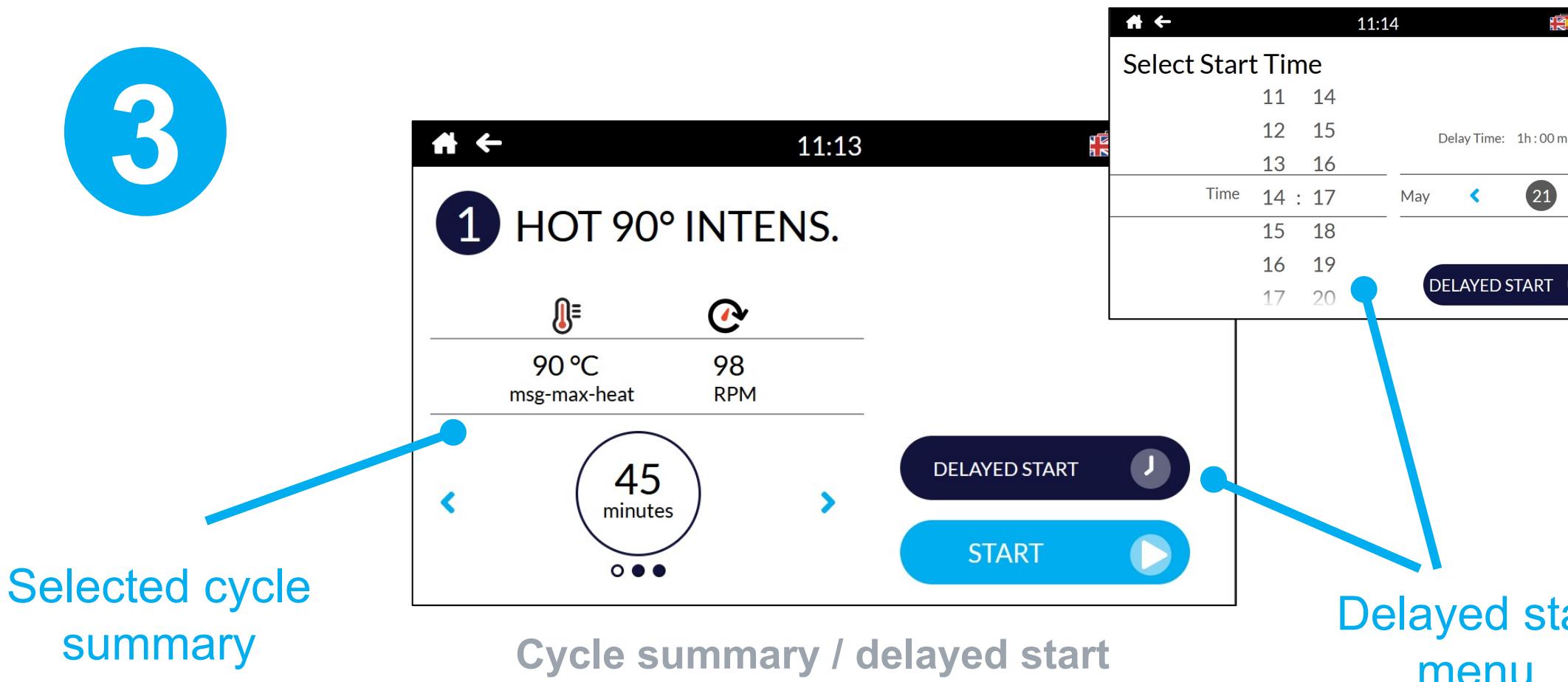
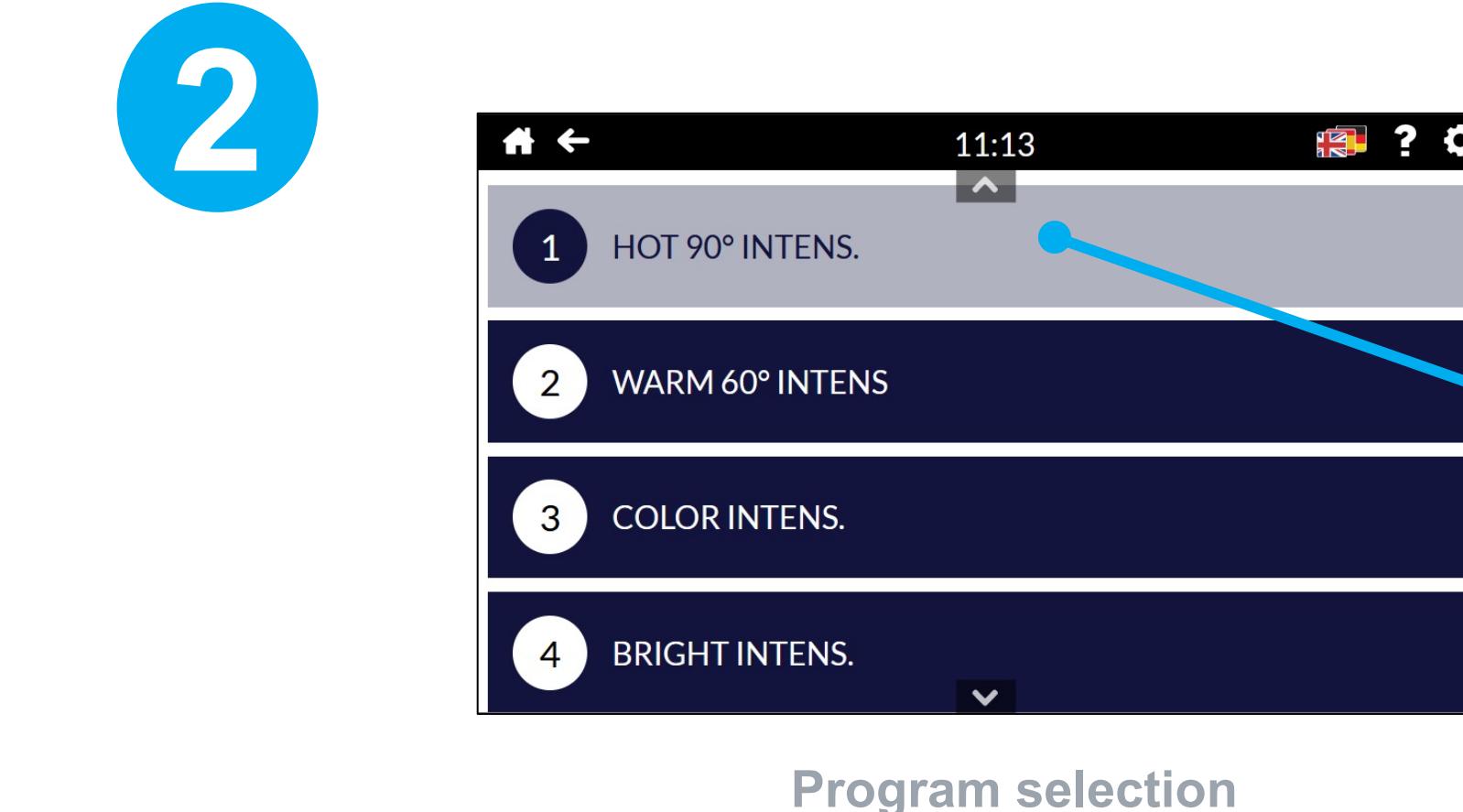
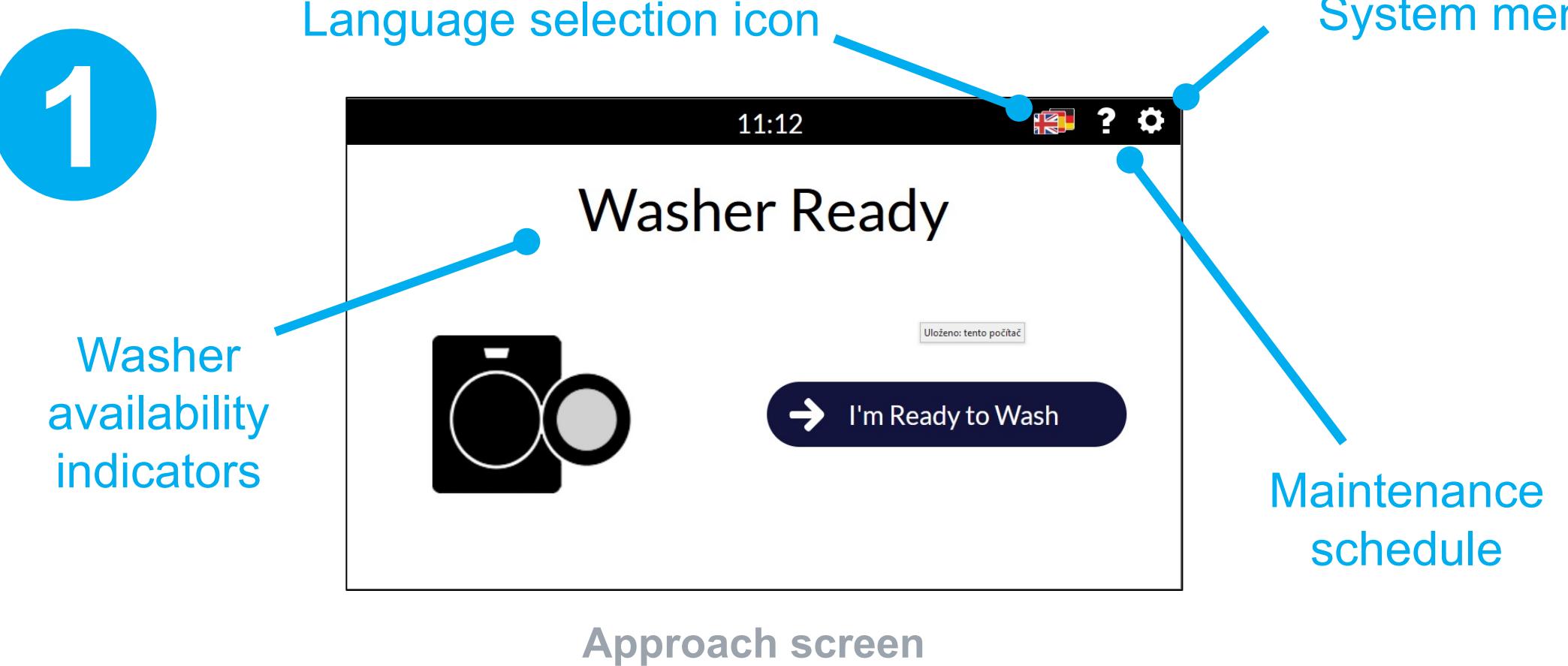


Pos.	Pre-set Programs	
1	Hot Intensive (90°C)	Intensive
2	Warm Intensive (60°C)	
3	Color Intensive (40°C)	
4	Bright Intensive (30°C)	
5	Woolens (15°C)	
6	Hot Wash (90°C)	Standard
7	Warm Wash (60°C)	
8	Color Wash (40°C)	
9	Bright Wash (30°C)	
10	Eco Hot Wash (90°)	ECO
11	Eco Warm Wash (60°)	
12	Eco Color Wash (40°C)	
13	Eco Bright Wash (30°C)	
14	Extraction - Low Speed	
15	Extraction - High Speed	
16	Sport 60°C	
17	Mops 60°C	
18	Horse Cloths 40°C	
19	Jeans 60°C	
20	Starching	

Navigation

DISCOVER THE DEMO:

https://aca-demo-simulators.alliancels.net/xcontrol_flex_index.html





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SUMMARY



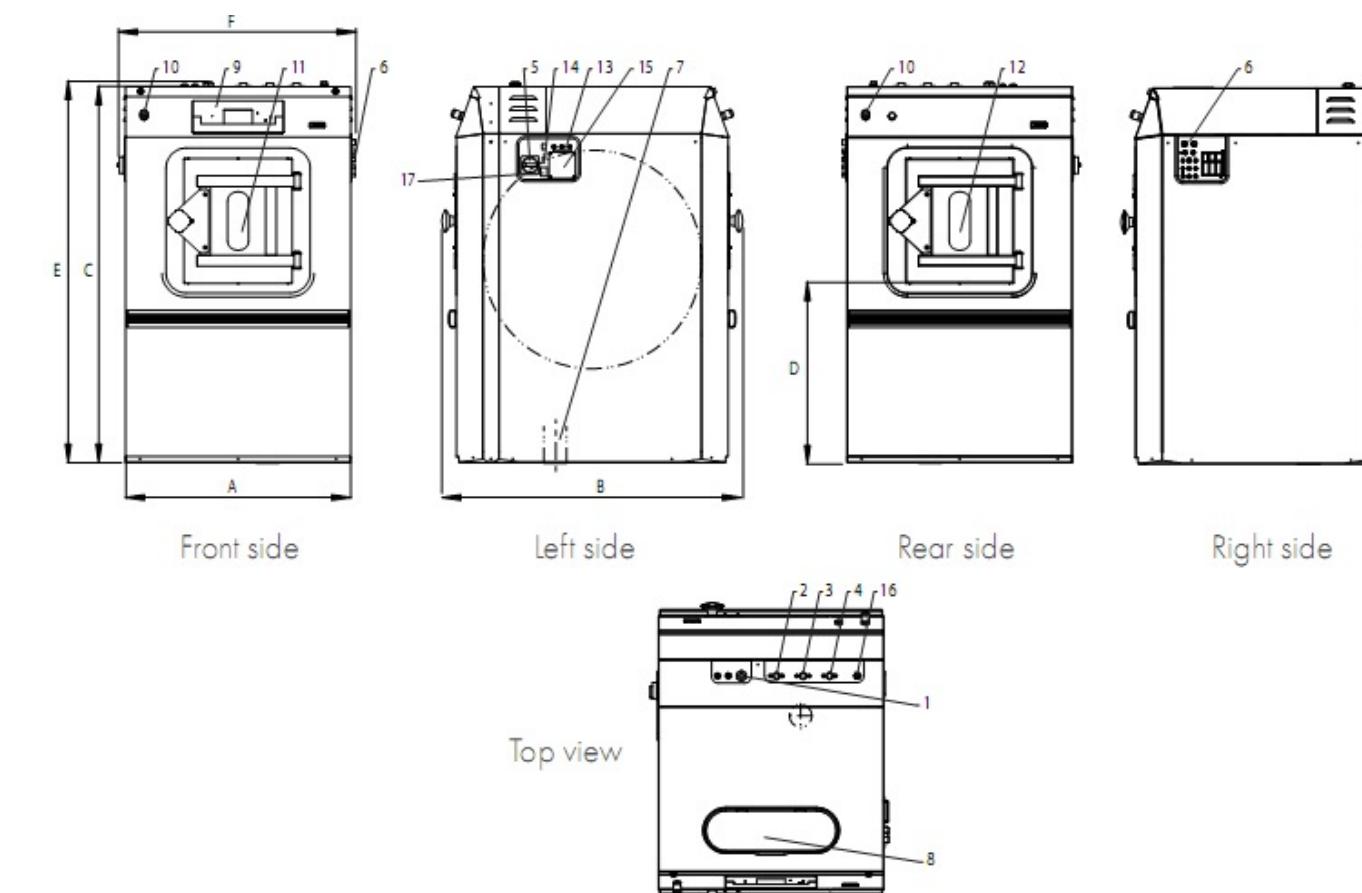
GET AHEAD IN LAUNDRY 

Voltage

Phase	Voltage (V)	Frequency (Hz)	Heating
			(kW)
1/3	200-240	50/60	0
3	200-240	50/60	12/18
3	380-415 + N	50/60	0/12/18
3	380-415	50/60	0/12/18
3	440-480	50/60	0/12/18

Dimensions

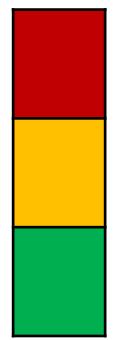
	Net weight	Gross weight	Dimensions* (HxWxD)	Transport dimensions (HxWxD)	Volume
	(kg)	(kg)	(mm)	(mm)	(m³)
180 L	430	485	1455x900x1145	1610x1010x1235	2,01
240 L	460	515	1455x1020x1145	1610x1130x1235	2,25
280 L	490	550	1455x1130x1145	1610x1240x1235	2,47



* with overhanging parts

Option: Traffic Light

- Extra visual 3-colored indicator of actual washing machines status
- Suitable for bigger laundries where staff operates multiple machines
- Can be also used for both sides (soiled / clean)



Not operating (linen can be removed)

End of cycle within 4-5 minutes

In operation (running)



The traffic light helps to know the actual status of the washing machine even from longer distance without any need to read the display



Options: Overview

- Water sample tap
- Second display (clean side)
- Weighing system by cells
- 2nd drain valve or recycle valve
- Drain to the side of machine (only with a plinth)
- FPS (Fluctuation Power Supply) protection
- 2 water inlets version
- Top panel without opening for soap hopper
- 2 extra inlets for liquid soap supply in the top panel
- Extra signaling (orange light & horn)

- Extra signaling (traffic light)
- SoapLink

ACCESSORIES:

- Liquid soap pumps
- Base frame (150 mm height)
- Frame to wall
- TraceTech traceability software and networking system (wired communication)
- Cloud management systems + gateway (wireless communication)

Top benefits

1. Very compact design

- ✓ Up to 50 cm less width versus former models

2. Real pass-through model: 18 24 28kg

- ✓ High ergonomics to all models, no 90° angle model

3. Automatic positioning of the drum

- ✓ Safer, easier operation

4. Connectivity

- ✓ Wired (RS485 plug) to TraceTech management software
- ✓ Wireless (gateway) to cloud-based management systems

- ✓ USB plug with easy access in case of program load & download or firmware update needs on site

5. Traceability

- ✓ Monitoring of wash processes, including reached and maintained temperature & water level in graphs

6. Programmer

- ✓ Intuitive, 7" fully-colored touch control with wired & wireless connectivity

7. Clinching technology

- ✓ Next gen. technology => no weldings => same strong connection => faster production

**For more information, contact with your Primus expert
or visit primuslaundry.com**

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