primus

SOFTMOUNTED
WASHER-EXTRACTORS
WITH XCONTROL FLEX PLUS
FS 800 | 1000 | 1200

XCONTROL FLEX+

GET AHEAD IN LAUNDRY

Primus softmount range

65 – 80 – 105 – 135 – 180 – 240 - 280 L

FX65-280

350 – 450 - 600 L

FX350-600

800 – 1000 - 1200 L

FS800-1200

- Frame: Zinc plate steel
- Joints: Clinched
- Drum perforation: 3,5 mm
- G-factor: 400 G (350 G for 280 L)
- Water inlets: ¾"
- Specials: SoftWash, Mop Wash

- Frame: Painted steel
- Joints: Welded
- Drum perforation: 5 mm
- G-factor: 360 G
- Water inlets: 1"
- Specials: Tilting forward (450-600 L)

- Frame: Painted steel
- Joints: Welded
- Drum perforation: 5 mm
- G-factor: 350 G
- Water inlets: 1½" air-operated
- Specials: Tilting forward / forward & backward

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Design

|	Primus
Front panels	
Side panels	**Stainless steel**
Central panels	
Door	

Frame

- High quality steel

- Sand blasted and degreased

- Powder painted

- High quality stainless steel

- Side panels can be removed:

  - Easy access to all parts

  - It can be removed in parts:

    - (3 panels – electrical switchboard side)

    - (3 panels – soap hopper side 800L)

    - (2 panels – soap hopper side 1000/1200L)

Over-dimensioned frame, shaft, springs and shock absorbers for smooth operation

Suspension System

- Freestanding machines: Low installation cost

- The washing unit is suspended on shock absorbers and springs

- Vibrations damped by shock absorbers

- Due to this suspension the machine runs very smoothly

- Newly added 6 more shock absorbers on the system for 1200 L version for even better stability and rigidity

Re-designed suspension system on 1200 L to meet even higher demands

Spring

Lateral Shock Absorbers
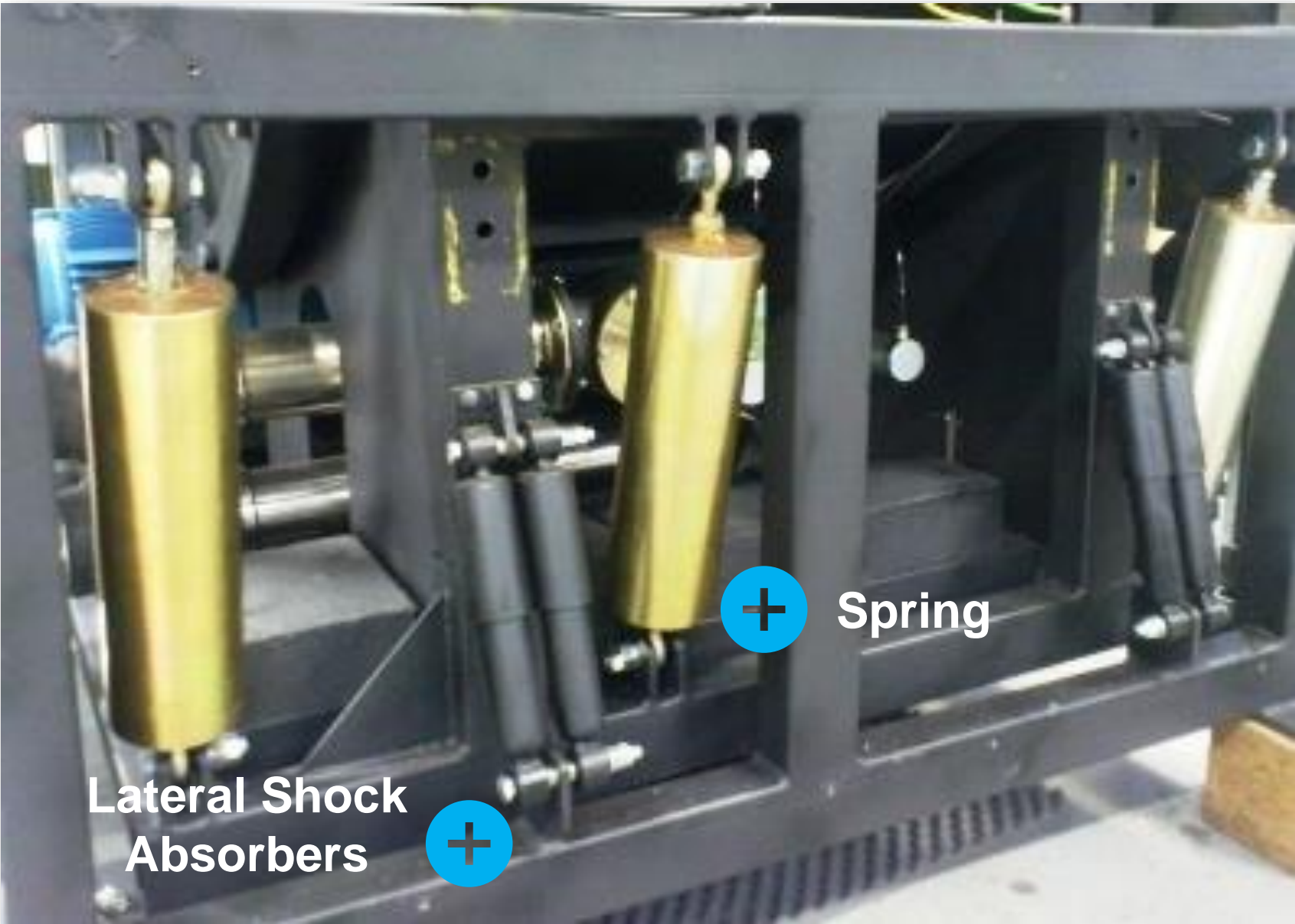
	Springs	Lat. shock absorbers
800 l	6	6
1000 L	6	8
1200 L	6	14

Seal

- Radial inox plate and 2 Viton lip seals on drum plate + 1 radial seal on front of bearing

- Viton resists to almost all laundry chemicals

- Radial seal have 2 functions:

  - Keeps out humidity and water from the bearings

  - Keeps the grease in the bearings

Bearing House

- Bearing house in cast iron out of 1 piece: No bolts or welds

- Sandblasted and degreased
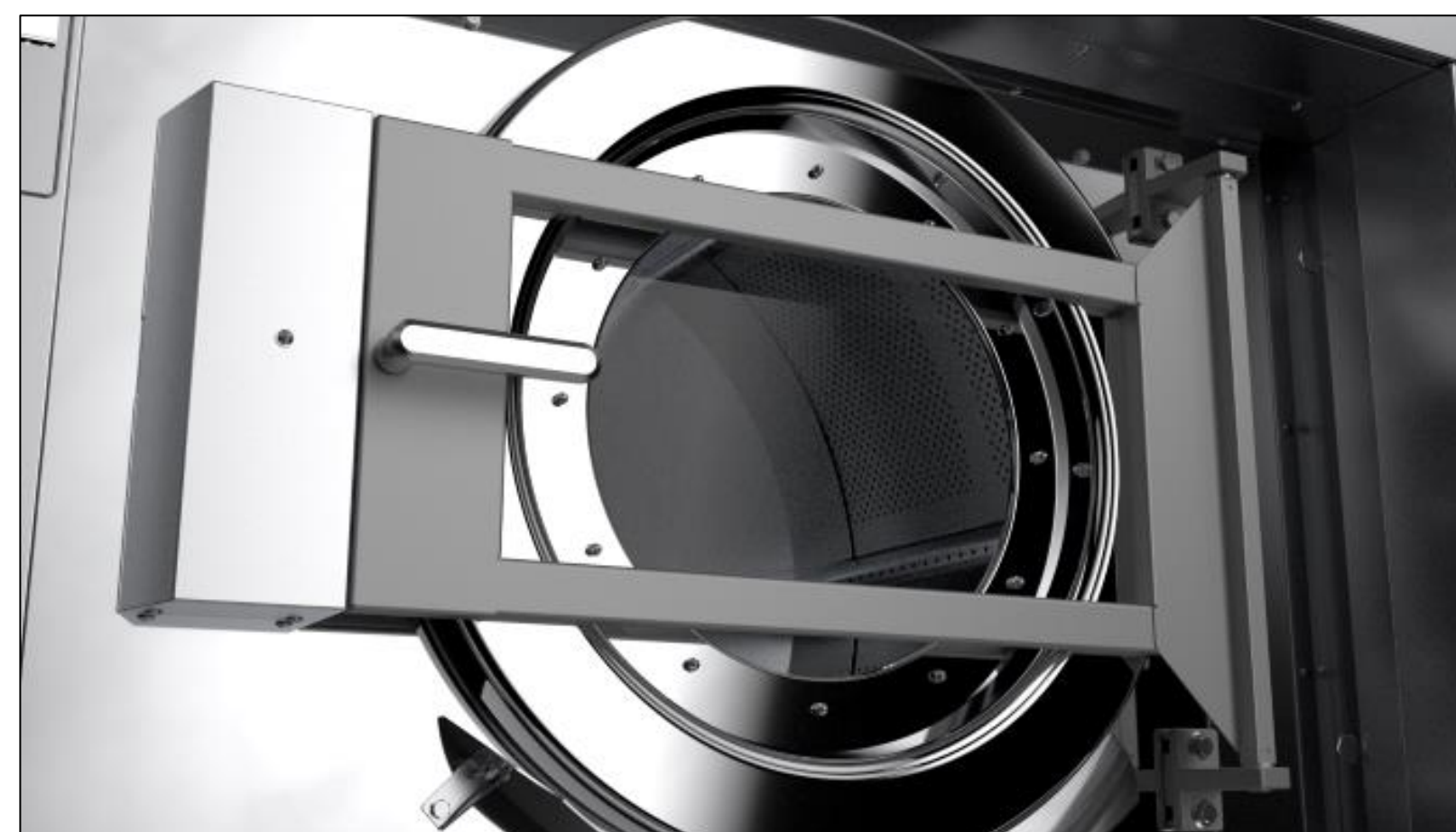
- Black painted

- 1+1 bearings per model

Advantage: cost-efficient, long-life span

Door

- Very strong door glass resistant to high temperatures

- Very large door openings for easy loading and unloading

- New sandblasted door bars to highlight industrial design

	800 L	1000 L	1200 L
Door opening Ø	530 mm	530 mm	650 mm
Opening angle	146º	150º	150º

Door lock and handle

- Safety

- Strong overdimensioned

- Easy opening

- New ergonomics shape for Primus brand

Door Hinges

- Extra strong door hinges

- Combination of stainless steel and plastic rings for long life span

Drum: overview

- High quality of stainless steel

- 6 lifting ribs for ideal mechanical action

- **PowerWash®** perforated lifting ribs: more mechanical action, lower water consumption

		800 L	1000 L	1200 L
Diameter	(mm)	1110	1200	1300
Volume	(l)	807	972	1154
Depth	(mm)	838	860	870
Perforation	(mm)		5	

Motor and Voltage

		800 L	1000 L	1200 L
Motor Power	(kW)	11	15	18,5
Wash speed	(rpm)	36	33	32
Spin speed	(rpm)	750	720	695
G factor			350	

Higher G factor helps to have lower residual humidity => shorter drying cycle => lower cost for laundry owners

Available voltage:

- 208-240V 50/60Hz 3ph
- 380-480V 50/60Hz 3ph

V-Belts

- 6 V-belts (800 L)
- 5 V-belts (1000/1200 L)
- Easy to adjust and remove
- Tension is regulated by motor shift

A correct belt tension guarantees a long-life span of a belt

Heating

Available heating versions:

- **Electrical heating**

- Positioned bellow drum in the heating chamber at the side of the drum
  - Easy access for quick service
  - Short washing programs

- **Steam heating**
  - Direct steam
  - Positioned bellow drum in the heating chamber at the side of the machine
  - Steam inlet 1"

Input of Steam

Electrical Heating Elements

		800 L	1000 L	1200 L
Electric	kW	67,5	--	--
Steam	Bar	3 - 8		
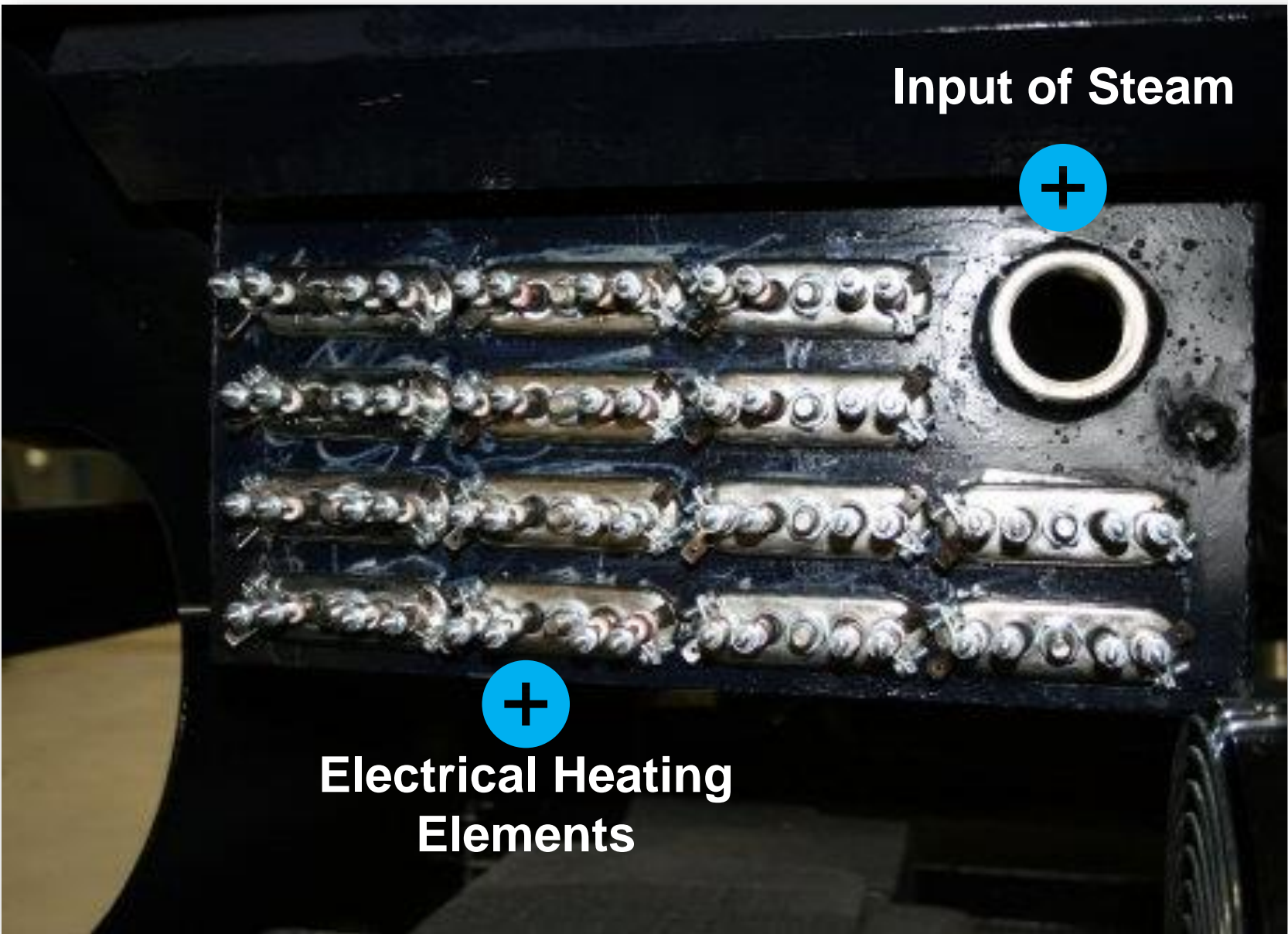
Water Inlets

- 1 ½" inlet pneumatic valves

- Standard three high volume inlet valves

- Standard cool down
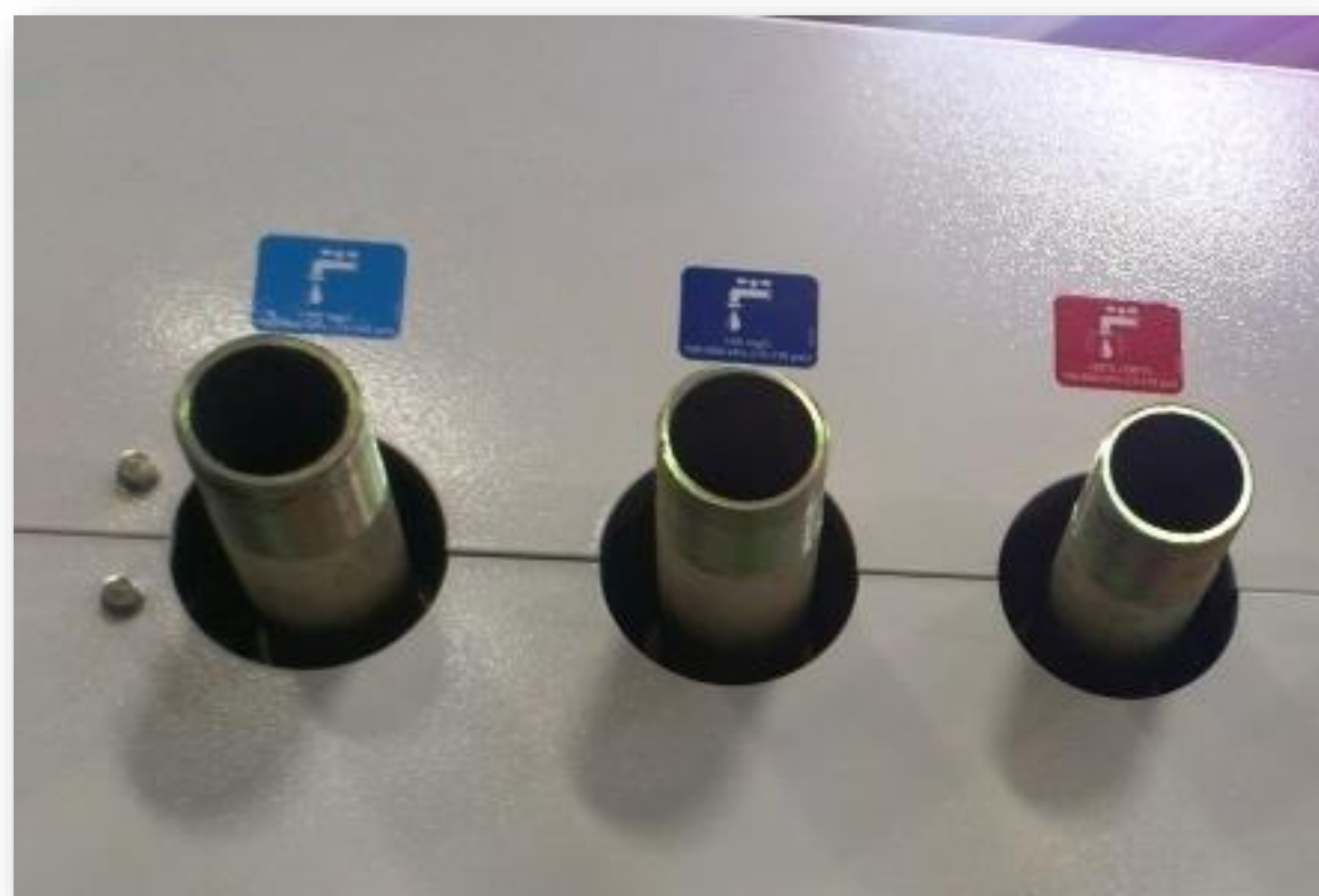
Dosing: Manual (powder)

- 5 compartments (Polypropylen cups: capacity 1 kg each)

- Positioned on right side of the machine (for operators)

- Opening angle 150˚

- Option: without the soap hopper

Dosing: Automatic (liquid)

- Liquid soap connection: 1x ½" as a standard

- Option:

  - **Manifold** – system for mixing water and liquid soaps for external dosing of detergents (up to 6 detergents can be connected to 1 Manifold)

Imbalance Switch

- 1 per machine, is positioned in front of the tub

- Steel spring is activated during high unbalances

- Is positioned in the factory

- With extreme unbalances:

  - The machine will repeat maximum

  - 10 times (is not changeable)

- Activated when unbalances occurduring:

  - Low spin

  - High spin

During installation & service always check if the unbalance switches are well positioned

Drain Valves

- Attached to the frame directly under the tub: => Lower water consumption

- Standard 2x 103 mm drain valves: small objects are removed

- 90˚ drainvalve: Auto-rinsing effect behind the valve

- Water recuperation is possible

Weighing Systems

To minimize cost / safe energy / be environemntal friendly, take advantage of 2 offered weighing systems:

- **Manual weighing system**

  - Standard feature of the touch control

  - Manual entry of loaded weight on the touch screen

- **Automatic weighing system (by weighing cells)**

  - Optional

  - Automatic sensing of loaded weight by 4 accurate weighing cells

  - Can be equipped in combination with tilting system

The control automatically adjusts water level and dosing of liquid detergents (if enabled) accordingly. Indirectly, this also reduces the energy needed for the water to heat up

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Tilting

- Tilting system helps operators during loading and unloading
- Extra wired controller for operating the tilting device
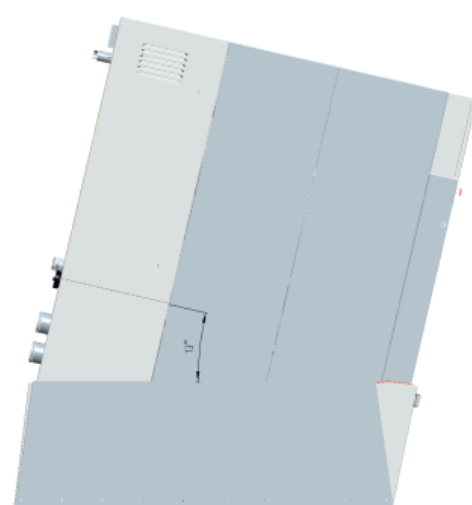
Forward

- Tilting angle 13º forward
- Fast tilting (within 15 sec)
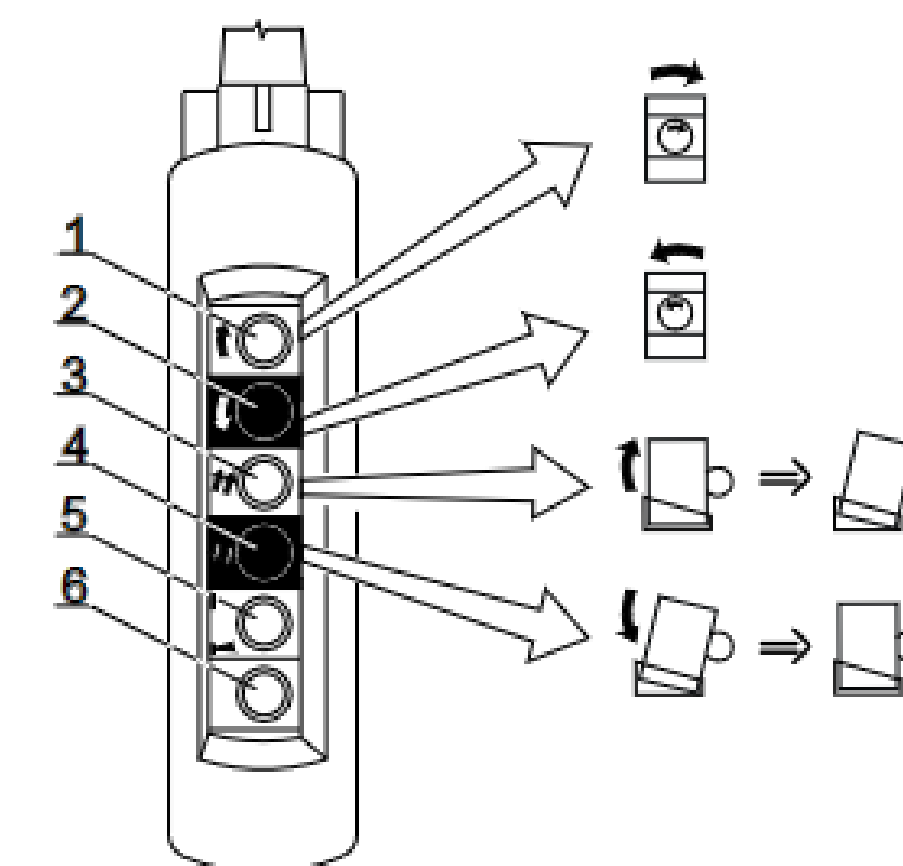- Significantly simplified unloading of heavy linen to a linen trolley after wash cycles
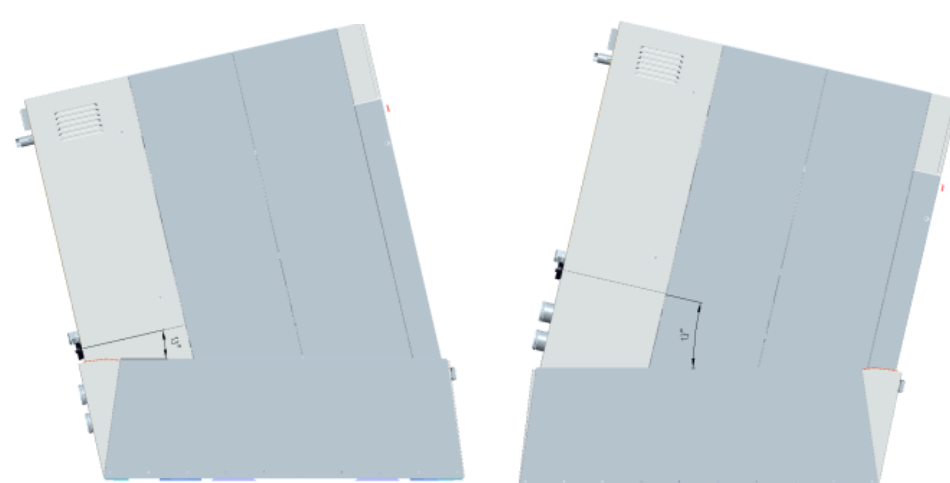
Forward & Backward (2-way)

- Tilting angle 13º (for both ways)
- Backward tilting helps manual loading of the machines

Tilting system also works in combination with the optional automatic weighing system by cell
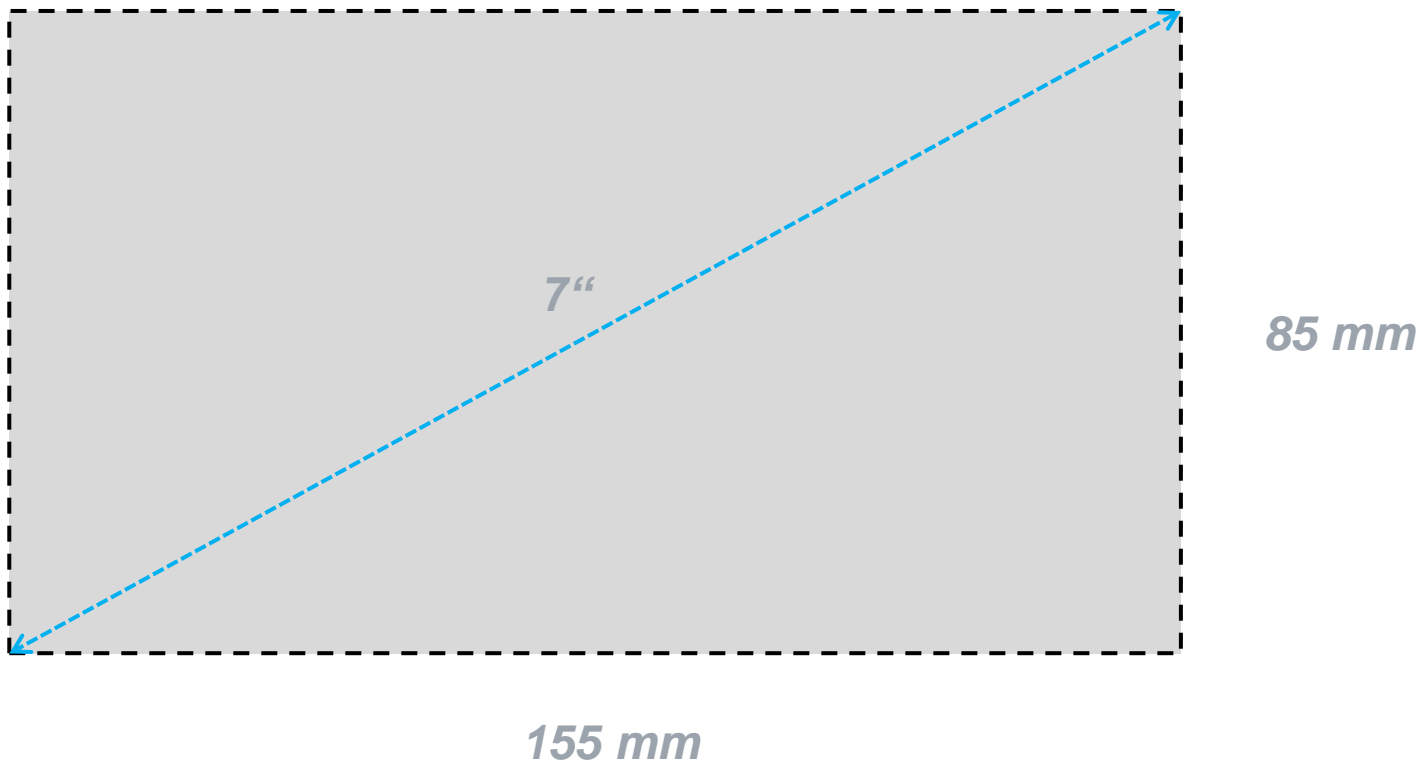

CFD944N

1. Button for drum rotating, direction of rotating is clockwise from the front view.
2. Button for drum rotating, direction of rotating is counter clockwise from front view.
3. Button for tilting, direction of tilting is forward to unload.
4. Button for tilting, direction of tilting is backward to basic position.
5. Button for permission of washer tilting - two-hand control.
6. Button for permission of drum rotation - two-hand control.

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Connected Touchscreen controls for OPL

XCONTROL FLEX PLUS

General Overview

85 mm

155 mm

7"

BACK

Colors
Warm (40°C)

+ Prewash

Wash

Rinse

+ Extra Rinse

Spin

43 minutes
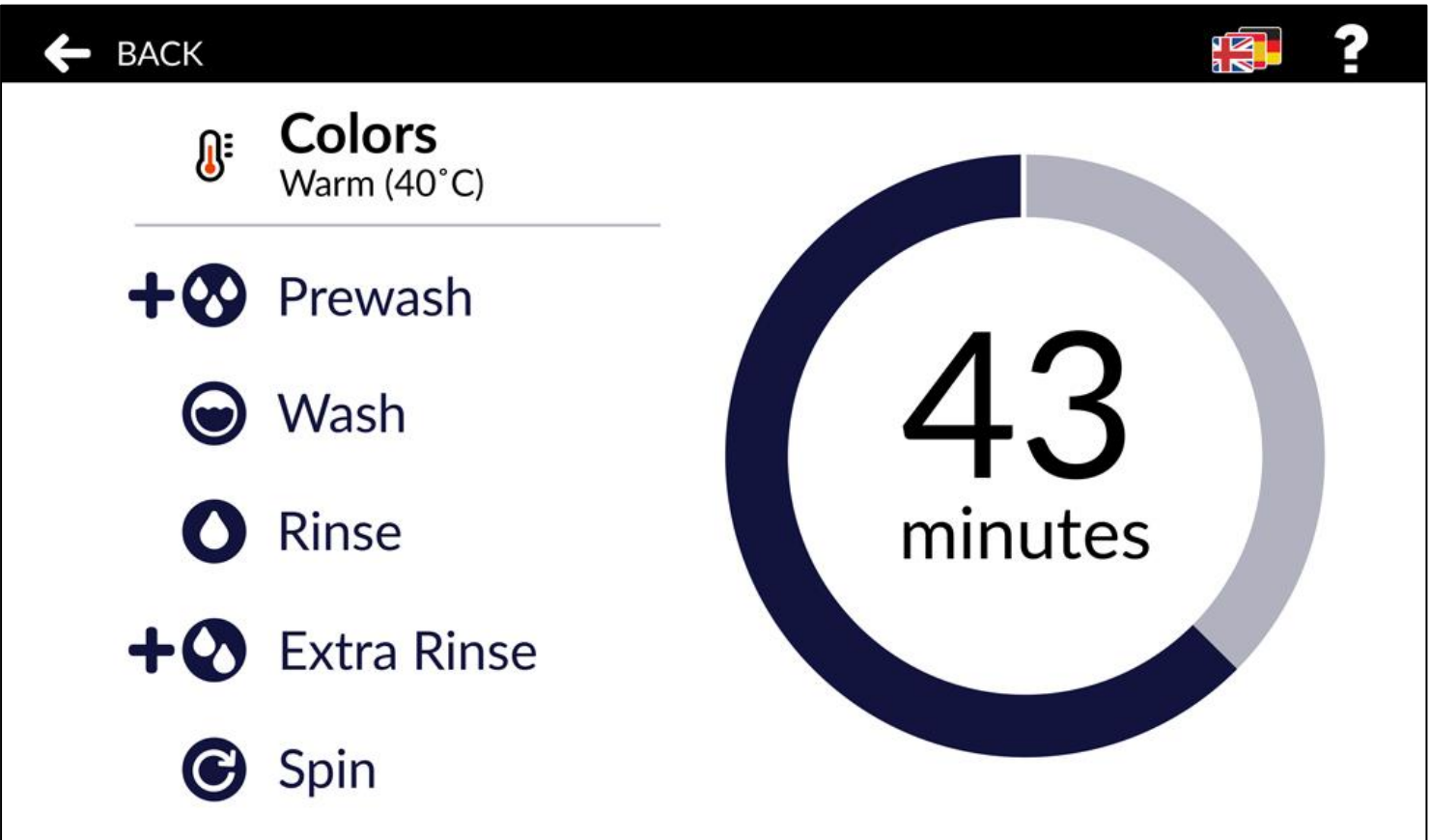
| Control size	7" diagonal	(12,9% larger than iPhone 12) (12,6% smaller than iPad mini 5)
Resolution	1024 x 600 (WSVGA)	(H:V ratio 15:9)
Luminance (brightness)	1000 nit (cd/m^2)	(625 cd/m^2 on iPhone 12) (870 cd/m^2 on Samsung S21 Plus)
Colors	+16 million colors	(equal to Samsung S21-series)
Viewing 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,…)

Comparison Button vs Touch
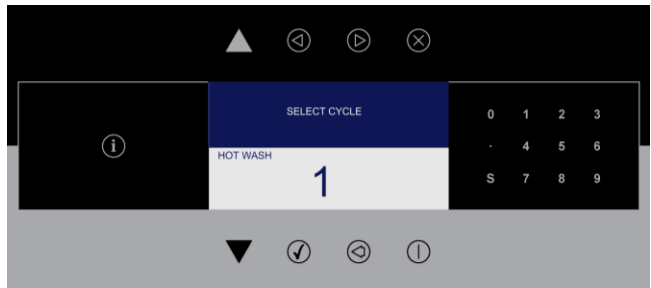
Commercial name	„Button" generation	„Touch" generation	
Display	5" monochrome	7" touch & swipe	
Colors	Blue & white	16 milion	
Program memory	99	99	
Program change	All fully programmable	All fully programmable	
Languages	21	34	
Connectivity	USB / RS485	Wireless / RS485 / USB	
Network	Local	Cloud / Local	
Updates	Via USB	OTA** / USB	
Manual weighing system	✔	✔	(Q1/2022)
Automatic weighing system by weigh.cells	✔	✔	(Q1/2022)
Traceability	✔	✔	
Count-up timer	--	✔	
Delayed start	✔	✔	
Batch number	✔ (w/ SoapLink)	✔	
SoapLink communication	✔	✔	(Q1/2022)
Banners	--	✔	(TBD)
QR codes	--	✔	(TBD)
Water leakage detection	--	✔	(TBD)

Extra

*** OTA = Over the Air*

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Comparison: competitors
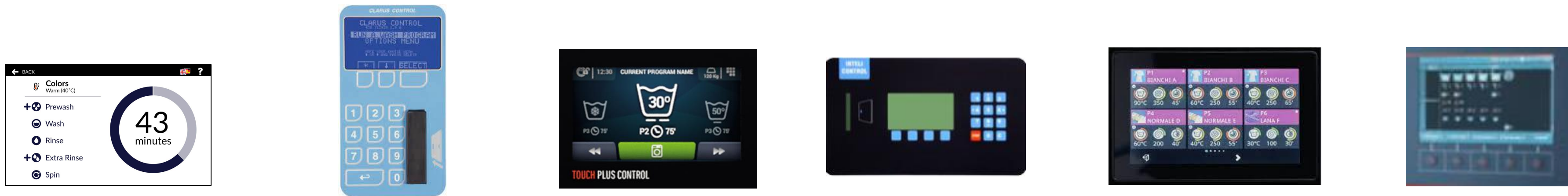
	ALS	Electrolux	Onnera	Girbau	Imesa	Tolon
Control type	MC10 generation	Clarus Control	Touch Plus	Inteli	IM11	
Display	7" Touch	Monochrome	7" Touch	Monochrome	7" Touch	7" LCD
Programs	20 pre-set 99 memory	Up to 192	29 pre-set Indefinite	20 pre-set 99 memory	Unlimited	16 pre-set 99 memory
Plug	USB RS485	Memory card	USB	Memory card		USB
WiFi	Yes	--	Yes	--	Yes	--
External dosing	8 + 8	8 + 5		12	11	

GET AHEAD IN LAUNDRY

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 advanance & 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

Intensive   Standard   ECO

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

1

Language selection icon

System menu

Washer availability indicators

11:12

Washer Ready

Uloženo: tento počítač

➡ I'm Ready to Wash
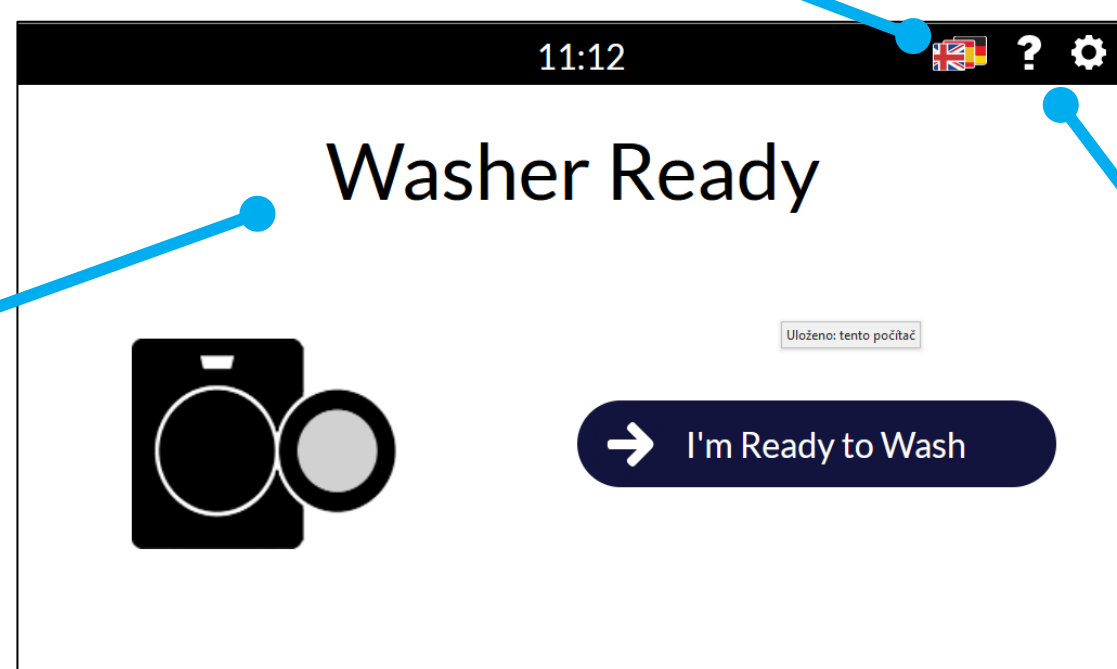
Maintenance schedule

Approach screen

2

11:13

1 HOT 90° INTENS.

2 WARM 60° INTENS

3 COLOR INTENS.

4 BRIGHT INTENS.

Swipe scrolling of available programs

(up ↓ ↑ down)

Program selection

3

11:13

1 HOT 90° INTENS.

90 °C
msg-max-heat

98
RPM

45
minutes

DELAYED START 🌙
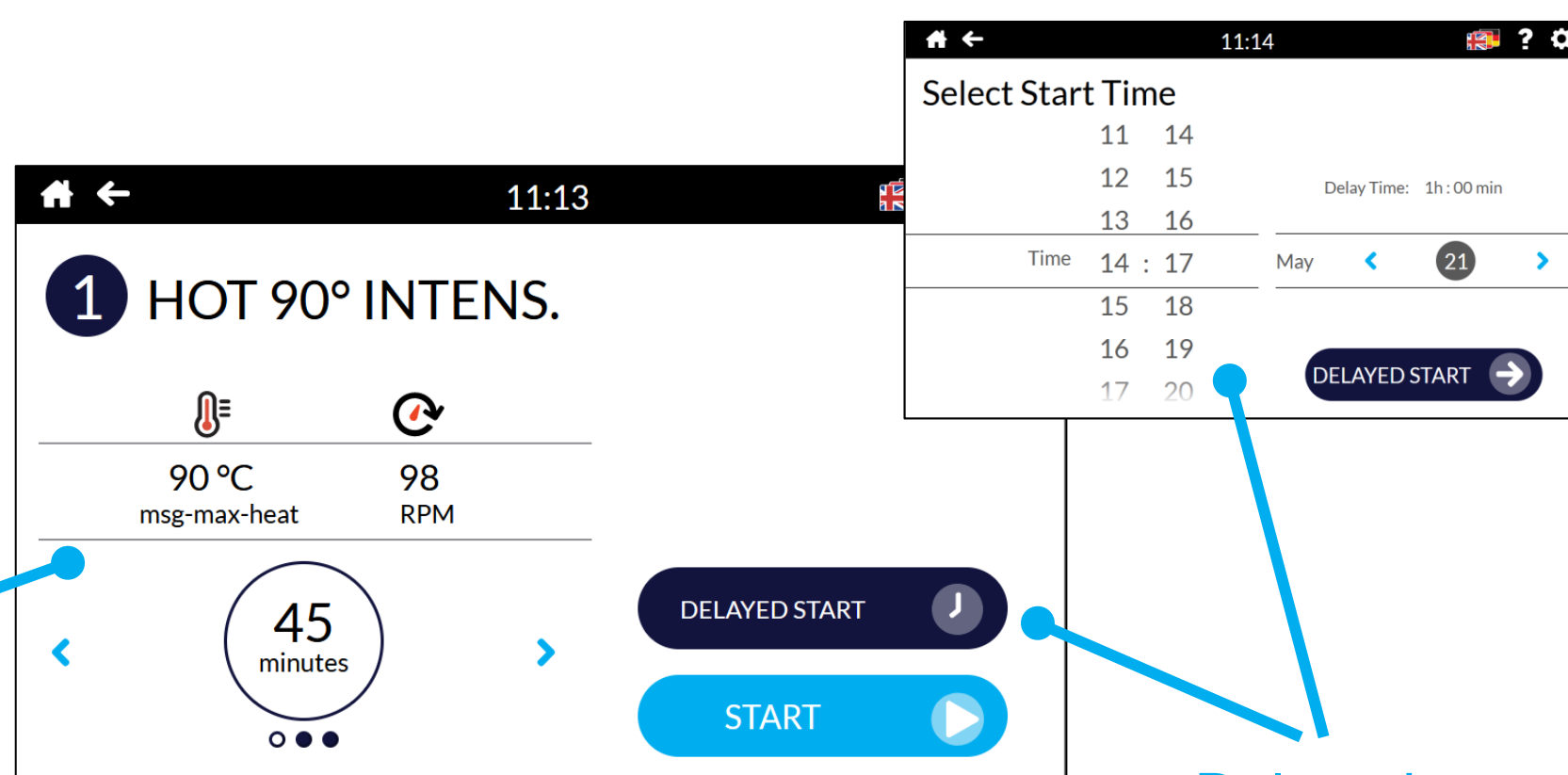
START ▶

Selected cycle summary

Cycle summary / delayed start

Select Start Time

11	14
12	15
13	16
Time 14 : 17
15	18
16	19
17	20

Delay Time: 1h : 00 min

May ‹ 21 ›

DELAYED START ➡

Delayed start menu

4

11:14

1 HOT 90° INTENS.

Current Step   16 / 22

💧 Rinse 2
Agitate

⏭

19:16
minutes
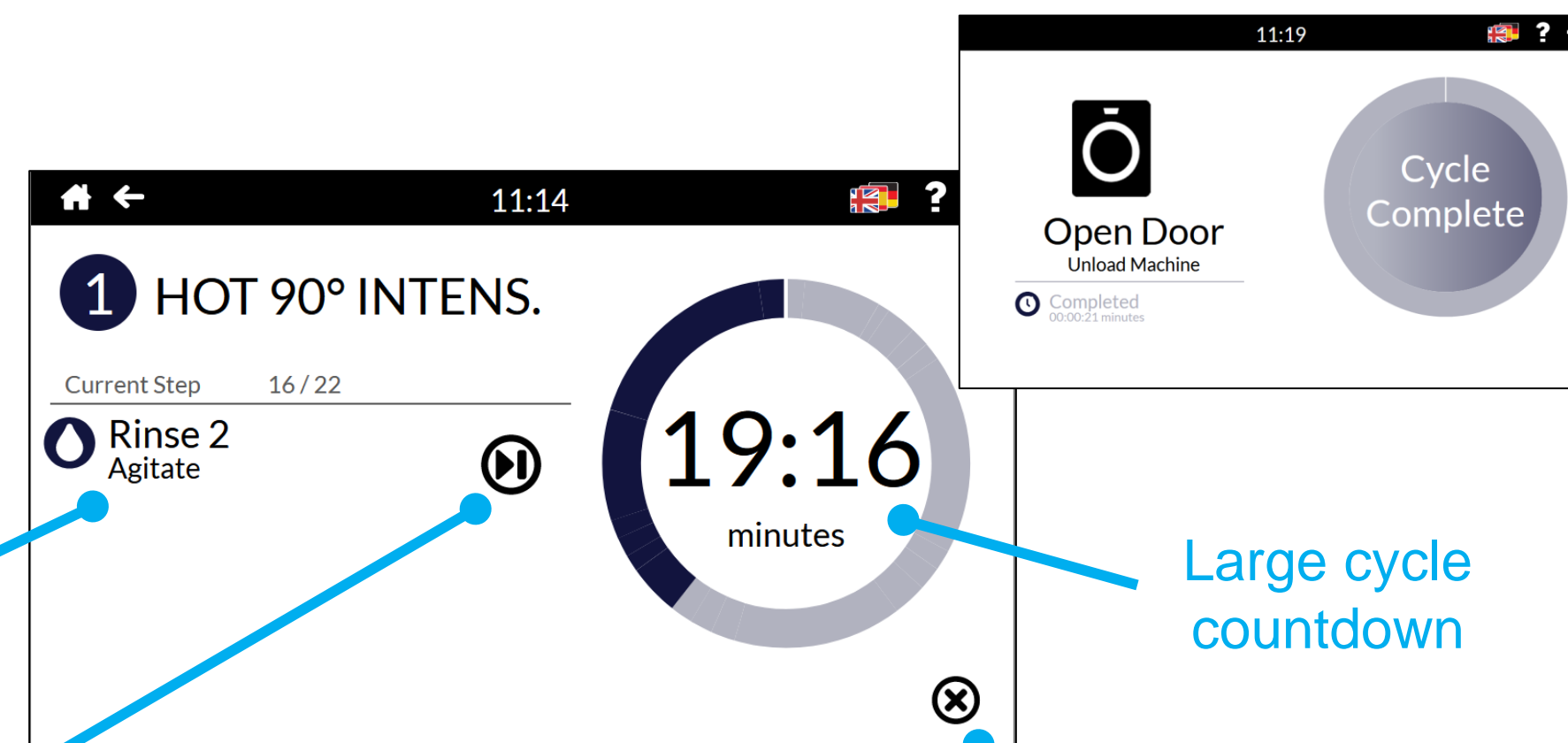
Actual step

Rapid advance

Cycle abort

Cycle running

11:19

Open Door
Unload Machine

Completed
00:00:21 minutes

Cycle Complete

Large cycle countdown

Features: Manual Weighing

- Used in laudries equipped with weighing scales for linen trolleys

- Manual entry of loaded linen weight -> the control automatically adjusts parameters accordingly

- Simplified guidance with indication of correct load / overload

Numeric keypad to enter the loaded weight

Indicated max load
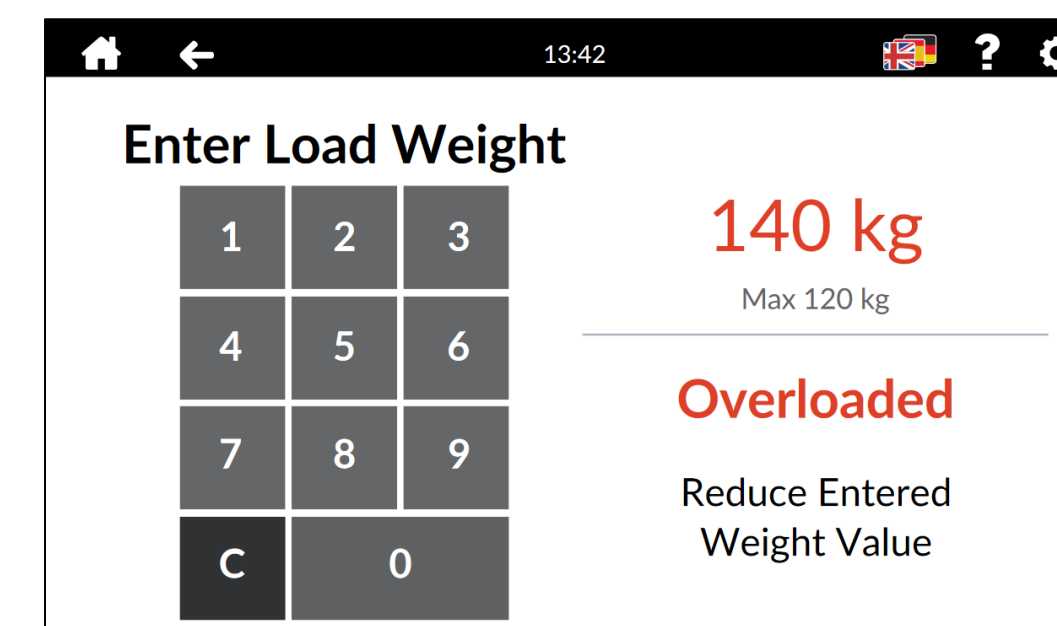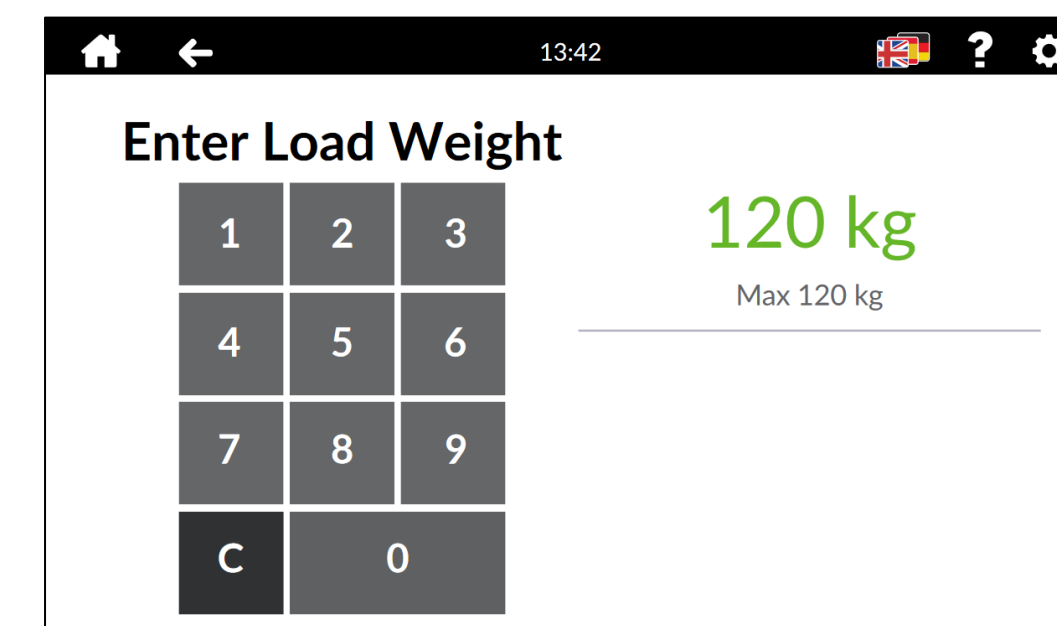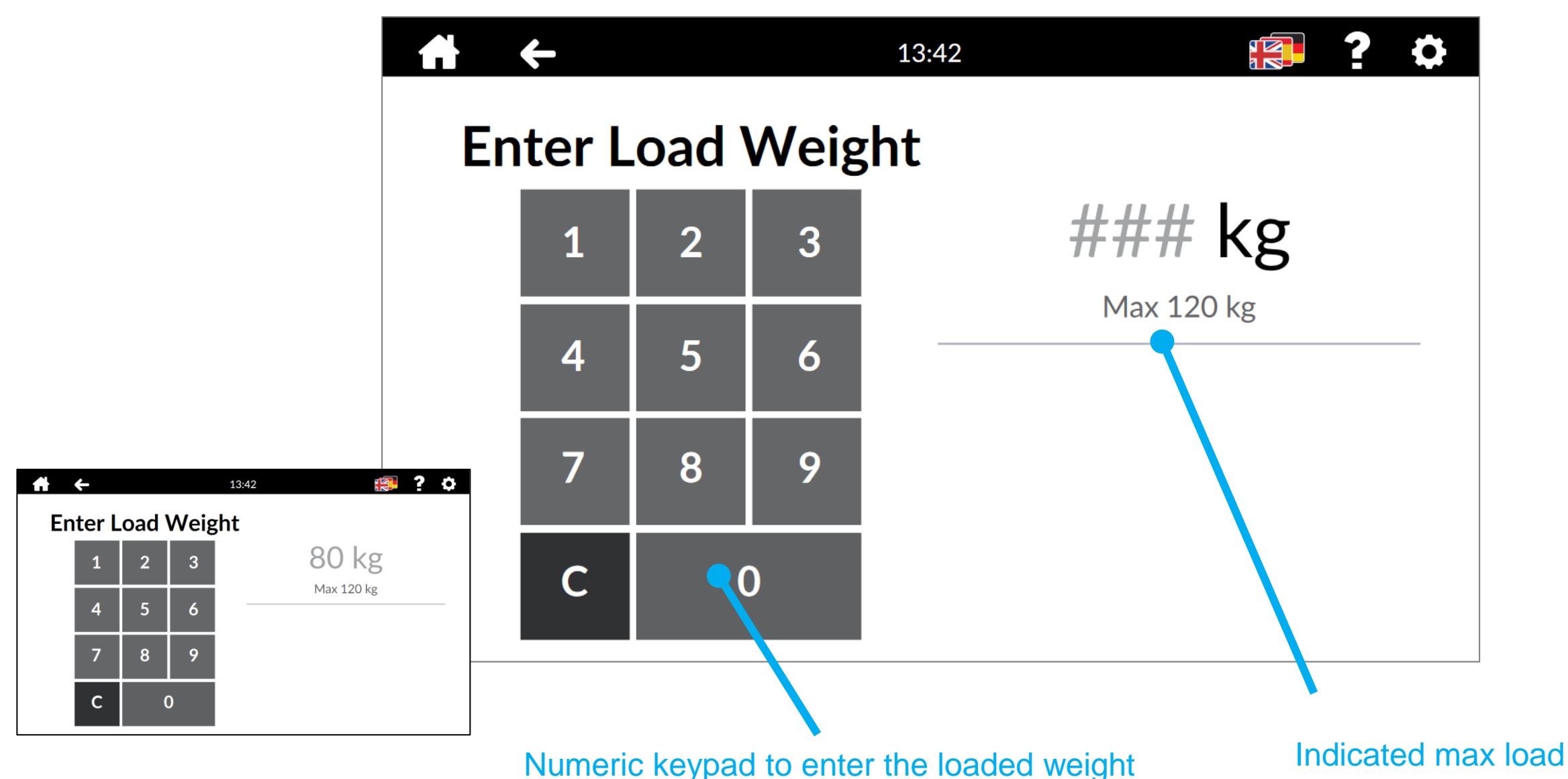
Features: Automatic Weighing

- Optional system for fully automated weighing by 4 weighing cells

- Weight can be tared and calibrated for adjustments / corrections

- Visual bar for extra indicating of loaded weight
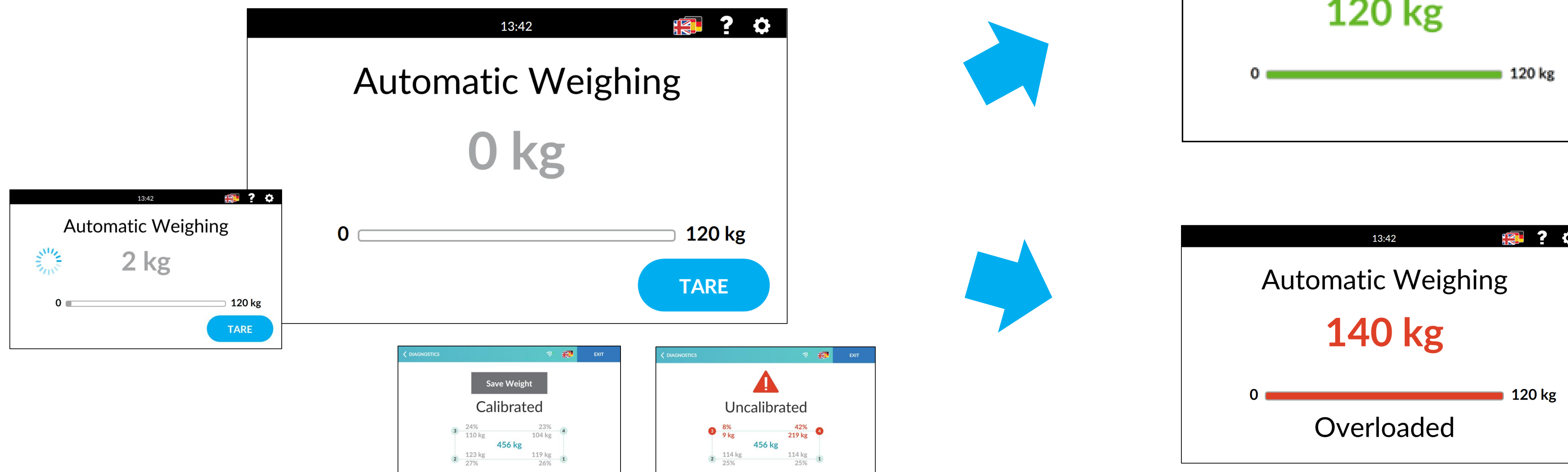
Features: Batch Entry

- New feature

- Operators can assign number to washed batch for traceability in the laundry management system

- 1 – 4 digit code for identification of customers / linen types / contracts
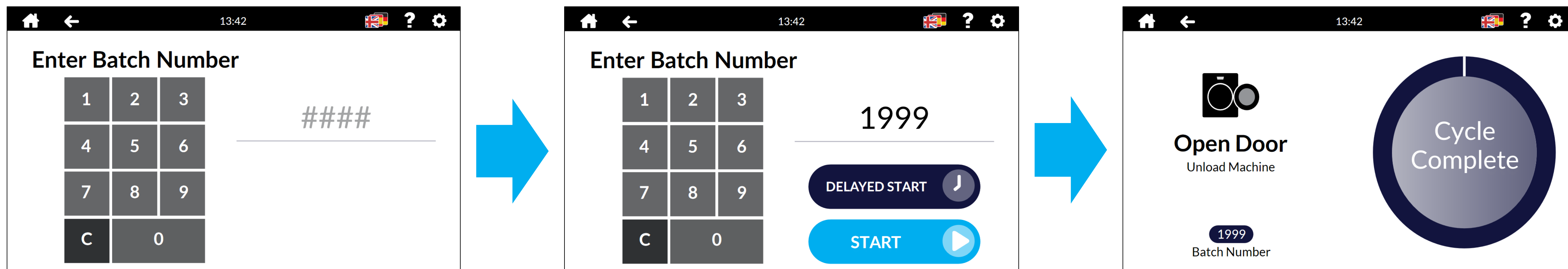
Connectivity
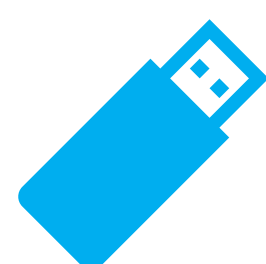
- USB plug (standard on the main board)
    - Easy loading & saving programs / settings
    - Export & Import programs to the machine
    - Optionally USB plug extension to the rear panel
    - Copy of the machine settings from machine parameters.
    - Simple firmware update
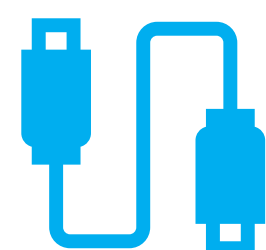
- RS485 plug (standard)
    - Communication with Trace-Tech
    - Required for online traceability in Trace-Tech

- Wireless antenna (standard)
    - Communication with cloud-based systems i-Trace

Wireless Communication

Build-in WiFi antenna as standard

- Offering remote support & services from anywhere at any time: stay connected!

- Remotely reset / reboot of machines; cycle programming; error reading, etc.

- Cloud services

OTA updates

- Machine allows wireless update of firmware called OTA (Over the Air) well known from cell phones

- For full functionality internet connection is needed

Cloud based networking

- Remote control of laundry as powerfull tool to increase efficiency of laundry business

- i-Trace

SUMMARY
FX 800 | 1000 | 1200

CONTROL FLEX

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Dimensions

Net

		800 L	1000 L	1200 L
Height	(mm)	1985	2060	2085
Width	(mm)	1495	1790	1855
Depth	(mm)	1940	2005	2085
Weight	(kg)	2640	3170	3480

Shipping

		800 L	1000 L	600 L
HxWxD	(mm)	2125x1425x1470	2125x1425x1700	2345x2000x2170
Weight	(kg)	2830	3410	3710
Volume	(m³)	7,25	9,29	10,16

Market Approvals*

*Please contact RSM for local availability

CE

- *CE logo on the serial plate*

CE + EAC

- *EAC logo on the serial plate*

GET AHEAD IN LAUNDRY

18-digit Code

P Y C 10X V **********
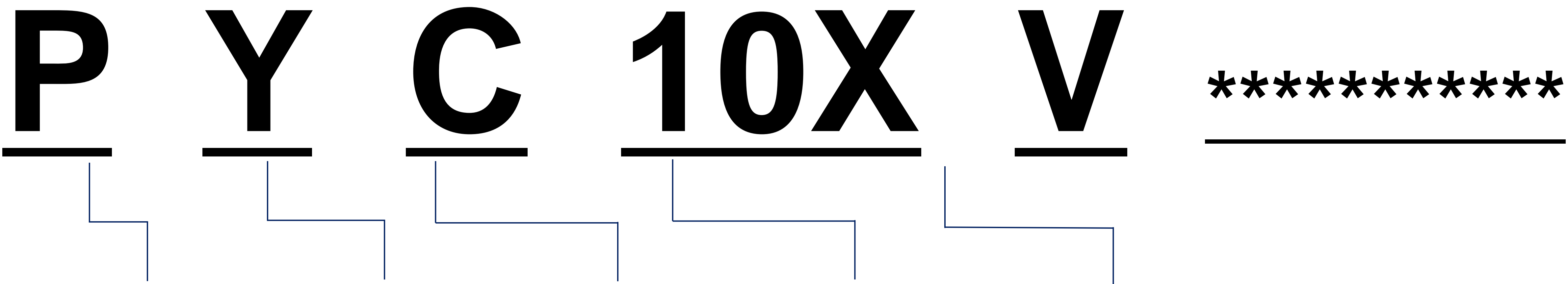
Position 1	Pos. 2	Pos. 3	Pos. 4-6	Pos. 7	Pos. 8-18
Brand	**Product Category**	**Market**	**Capacity**	**Control**	**Others**
	Y = softmounts	C = CE	350 = 35 kg	V = 7" touch with WiFi	
		U = CE + EAC	450 = 45 kg		
		M = CE + Morocco	600 = 60 kg		

Top benefits

1. **Robust construction**

   ✓ Overdimensioned frame, shaft, springs and shock absorbers for smooth operation

2. **Easy loading and unloading of the linen**

   ✓ 800/1000 L: ⌀ 53cm   1200 L: ⌀ 65cm

3. **Tilting & Automatic weighing system**

   ✓ Tilting can be in combination with the weighing system

4. **Easy access to vital parts**

   ✓ Easy to remove side & rear panels

5. **Programmer**

   ✓ Large 7" touch screen with integrated antenna for wireless communication

   ✓ Freely programmable

6. **Drain**

   ✓ Standard two drain valves (2x 4")

Top Benefits
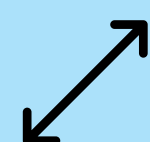
7" screen
Large high-resolution screen
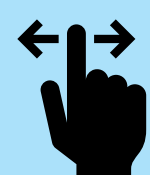
Touch & Swiping
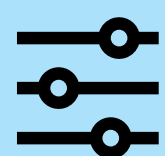
Fully programmable
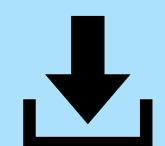Full and easy customization of cycles

Wireless antenna
Allowing wireless connectivity to cloud-based management system

1000 nit
Very high brightness = perfectly readable

20 pre-set programs (memory 99)
Large memory to store extra custom cycles

High resistance
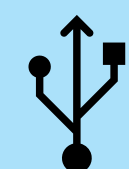Passed tests for over 25 selected chemical substances

Screen saver mode
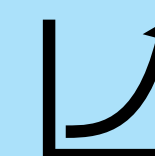ECO mode for saving energy if the machine is idle

OTA updates
Over-the-air firmware updates alike on cell phones

USB, RS485 plugs
Plugs for manual updates or wired connection

Efficiency improving indicators

Ready-for-future platform

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

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