



YOUR SMART
LAUNDRY
PARTNER

Hardmount washer-extractors

IA 80 – 105 – 135 – 180 – 240 – 280 – 332 – 520

Product sales guide



Design Update



IA-line by end of 2020



IA-line in 2021



Cabinet

Part	Material
Front panel	Stainless steel
Side panels	Black (Stainless steel optional)
Top panel	Stainless steel
Ornamental plate	Stainless steel
Facial panel	Stainless steel





Side panels



- Black skin-plate side panels
- Stainless steel option



Cross and bearing house

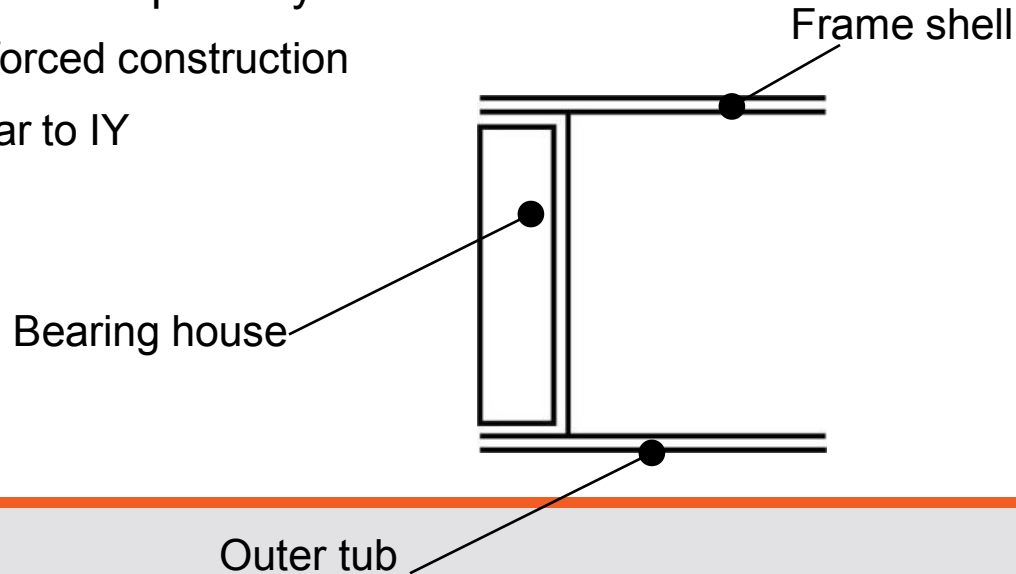
- Modular bearing house design
- Star shape cast steel out of 1 piece
 - Sand blasted and degreased
- Red painted
- 3 arms for 65-280 L / 4 arms for 332-520 L

Advantage: long lifespan & easy service



Bearing house construction

- Bearing house is mounted at back of the tub inside the frame shell
- Vibrations are optimally diverted to the frame
 - Reinforced construction
 - Similar to IY





Bearings

High quality bearings SKF

Advantage: easy to replace bearings





Seal



Seals



Detail of seal

- 3 radial seals FKM
- 1 hardened sleeve
- Long lifespan
- Easy service
 - Quick replacement time



Drain

- Directly under the tub
 - Low water consumption
 - No wasted chemicals
- Standard 3" drain valves (2x drain for 332-520L)
 - Small objects are evacuated
- 90° drain valve
 - Auto-rinsing effect behind the valve
- Flow amount
 - 210 l/min
- Easy service
 - Access from the front of the machine
- Option
 - 2nd drain valve for water recuperation
 - Drain pump (only for IA 80)



Pulley



IA135

- Main pulley: aluminium
- Motor pulley: black steel
- Easy service



IA240



Water inlets

- Standard 2 inlet valves
- Optional 3rd
- $\frac{3}{4}$ " inlet valves (1" for 520 L)
- IA280-332 are equipped with 2 high capacity water inlets (option for IA180-240)
- Direct water flow to outer tub (520 L)
- Easy to remove filter without having to remove the valve: service friendly

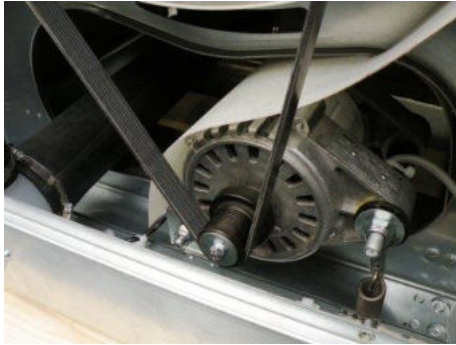


Standard water inlets



High capacity water inlets

V-belts



V-belt on motor drive



Close up V-belts

- 1 micro V-belt per machine
- IA 80: V-belt with 6 ribs
- IA 105 – 135: V-belt with 8 ribs
- IA 180 – 280: V-belt with 12 ribs
- Belts are mechanically tensioned by a spring



Soap box

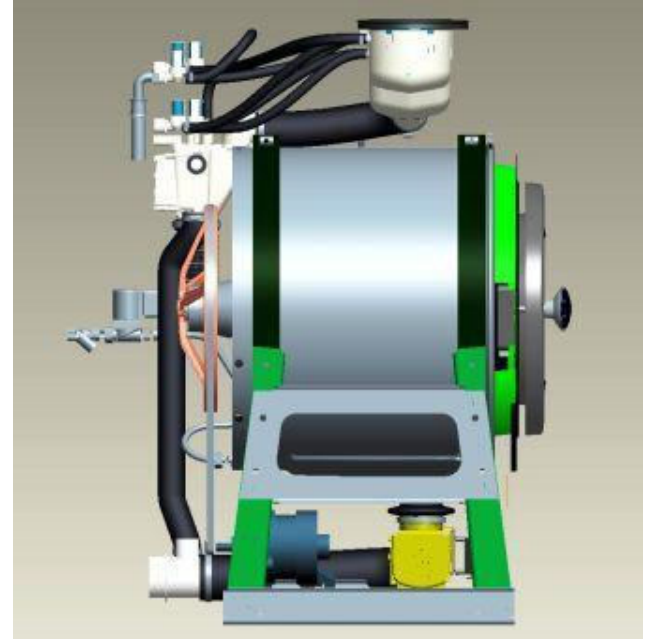
- 4 compartments on middle of the top
(no confusion, easy service)
 - 2 for powder and 2 for liquid soap
 - Deeper second compartment on IA 180 and up
 - Pre-wash, powder wash, liquid wash and softener
- Scandinavian design with black dispenser lid
- Ergonomic position: front and center
- Anti-damage protection: plastic top is fully flexible, thus preventing any damage during handling





Soap box – Connection to the tub

- No aggressive chemicals directly on the linen
- Chemicals enter the tub between the back plate of the tub and the drum



Liquid soap connections

- Soap mixer is a standard feature on IA line
- Liquid soap pumps can be connected to the mixer
- Chemicals are diluted before entering the tub
- No hot water directly on the linen
- Up to 13 liquid soap pumps possible, connected to the soap box by hose (2 x Ø19mm; 3 x Ø14,5mm; 8 x Ø11,5mm)
- Connected to liquid soap (inlets are parts of mixer)
- Holes of the liquid soap inlets must be drilled



Mixer



Liquid soap connection



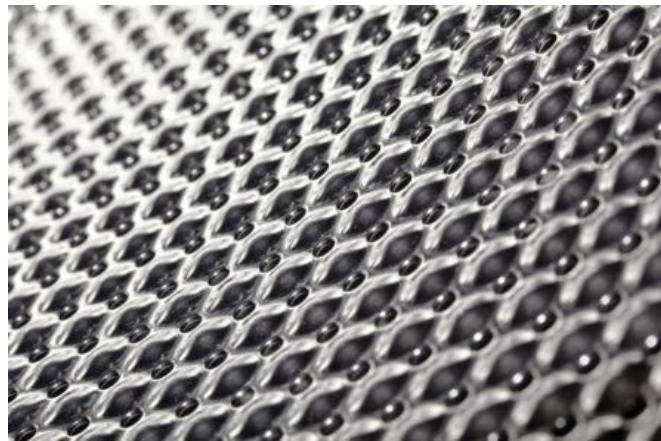
Prep for liquid soap

- Print board is an option on the IA line
 - 8 signals
- Easy service



Inner drum

- More perforations
 - Less residual water
 - Dimples hole design
- Optimized water evacuation
 - Lower rest humidity
 - Better washing results





Motor IA80-105-135

		IA 80		IA 105		IA 135	
G force		100 G	200 G	100 G	200 G	100 G	200 G
Motor power	(kW)	-	0.5	-	0.55	-	0.75
Wash speed	(rpm)	-	50	-	46	-	46
Extraction speed	(rpm)	-	820	-	760	-	760
Variant		-	IA80M	-	IA105M	-	IA135M
Availability		-	standard	-	standard	-	standard

Noise - wash	(dB)	-	49	-	49	-	48
Noise - extraction	(dB)	-	53	-	53	-	55

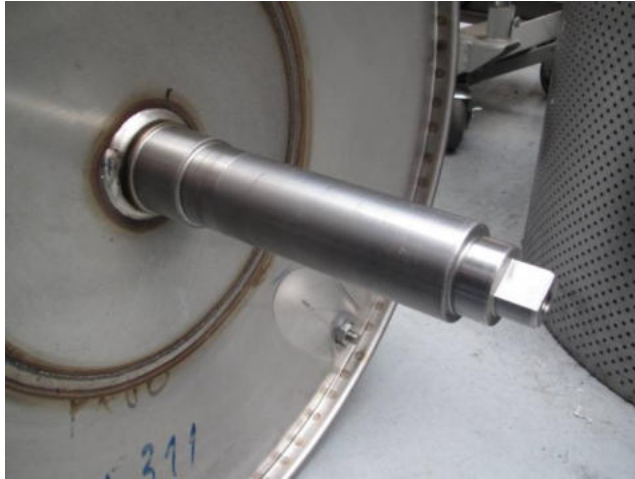


Motor IA80-105-135

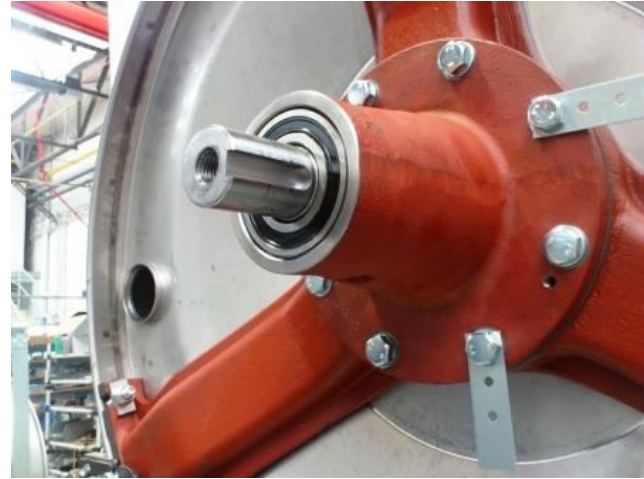
		IA 180		IA 240		IA 280	
G force		100 G	200 G	100 G	200 G	100 G	200 G
Motor power	(kW)	0.75	1.1	1.1	1.5	1.5	
Wash speed	(rpm)	42		42		42	
Extraction speed	(rpm)	490	690	490	690	490	690
Variant		IA180N	IA180M	IA240N	IA240M	IA280N	IA280M
Availability		standard	option	standard	option	standard	option
Noise - wash	(dB)	48	50	50		50	
Noise - extraction	(dB)	55	65	65		65	

Shafts

- Black steel for improved durability, strength and corrosion resistance
- Welded on the drum for long lifespan
- IA180/240/280 with 200 G factor → longer shaft with different shape



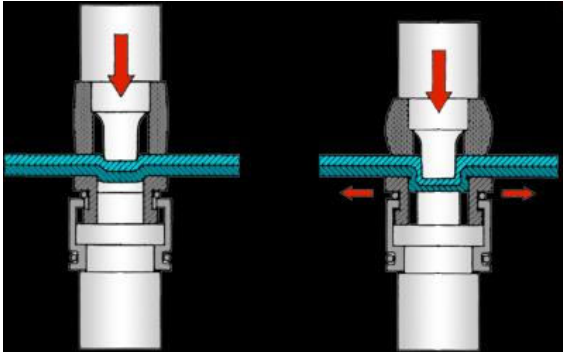
Shaft (IA80-135)



Shaft with groove (IA180-280 /100G)

Frame – Clinch technology

- Zinc plated steel
- Connected by “clinch technology” (not welded)
- Strength of the connections is same as spot welding



Frame - 200 G option (IA180-280)

- Double reinforcements (2 x 3mm plates)
- Doubled flange
- The bulge on rear panel → due to longer shaft



Two reinforcement plates



Bulged rear panel



Two flanges



Outer tub

- High quality stainless steel AISI 304
- Easy service through front panel



Outer tub (IA80-135)



Outer tub seal



Outer tub seal

Door handle & door lock



Door lock



Door knob

- Ergonomic door knob for easy opening
- Scandinavian design
 - 3-lobed, black knob with red ring
- Over torque system protects against destroying of the handle during operation
 - Prevents accidental damage when using greater force
- Strong door lock for safety



Door



- Opening angle 170-180°
 - Easy loading and unloading
- Black door opening
- Oversized hinges for long lifespan



	IA80	IA105	IA 135	IA180	IA240	IA280	IA332	IA520
Door opening (mm)	330	410		460			504	
Door material	Aluminium							
Floor to door (mm)	349	344		465				

Control

Aries

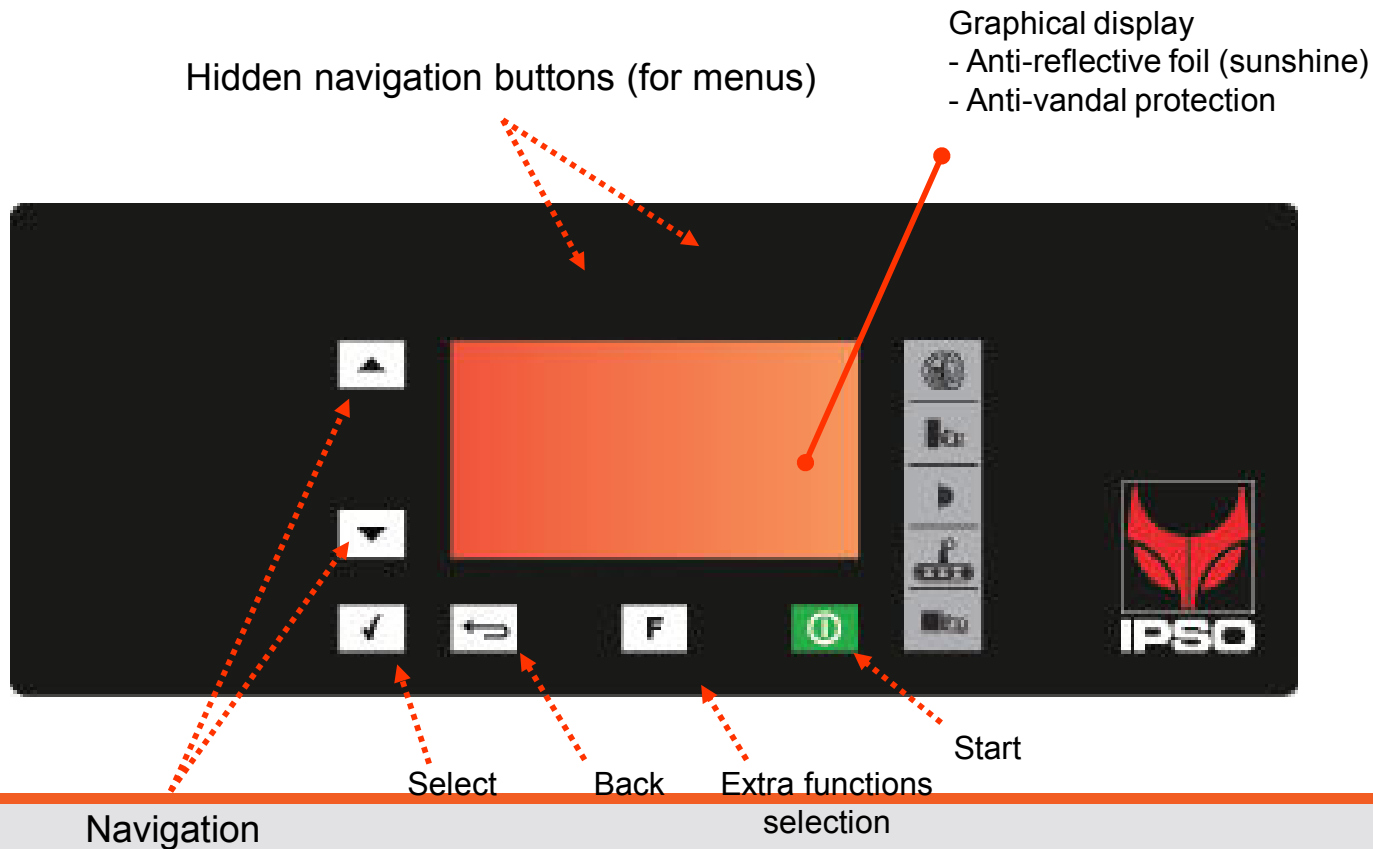
- OPL / coin version
- 15 pre-set programs (10 in coin version)
- 28 languages
- Free programmable
- Factory pre-set programs
 - 5 x Intensive
 - 4 x Standard
 - 4 x Eco
 - 2 x Extraction
- Extra wash / drain steps
 - Spray
 - Cool down
 - Soak
 - Static drain
 - Reverse drain

Aries Elite

- OPL version
- 20 pre-set programs (up to 60)
- 21 languages
- Free programmable
- Factory pre-set programs:
 - 5 x Intensive
 - 4 x Standard
 - 4 x Eco
 - 2 x Extraction
 - 5 x Special (sport, mops, jeans, ...)
- Extra wash / drain steps
 - Spray
 - Cool down
 - Soak
 - Static drain
 - Reverse drain



Aries



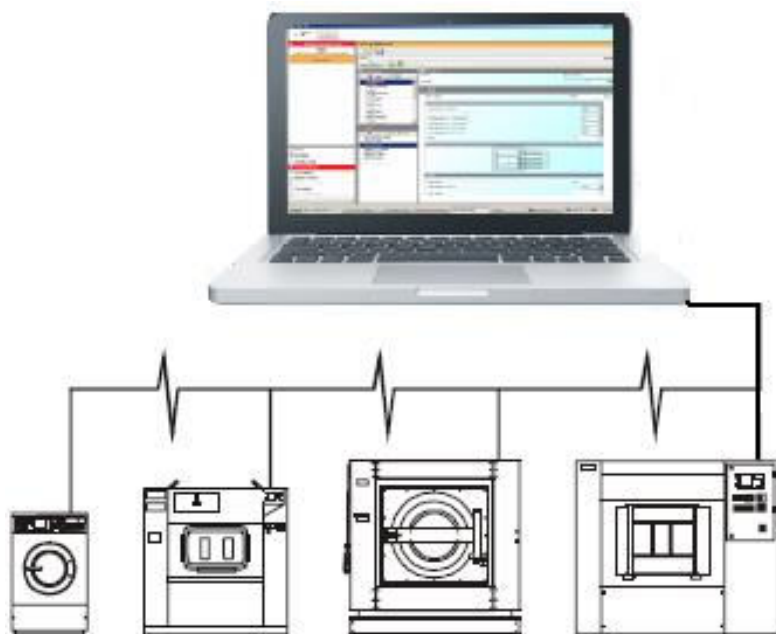


Available languages

- | | |
|----------------|----------------|
| 1. English | 15. Slovene |
| 2. French | 16. Romanian |
| 3. Spanish | 17. Croatian |
| 4. German | 18. Hungarian |
| 5. Dutch NL | 19. Russian |
| 6. Dutch BE | 20. Latvian |
| 7. Czech | 21. Turkish |
| 8. Finnish | 22. Lithuanian |
| 9. Danish | 23. Greek |
| 10. Swedisch | 24. Slovak* |
| 11. Norwegian | 25. Bulgarian* |
| 12. Italian | 26. Chinese |
| 13. Portuguese | 27. Japanese |
| 14. Polish | 28. Korean |



Aries Assist



Main features

Washer management tool

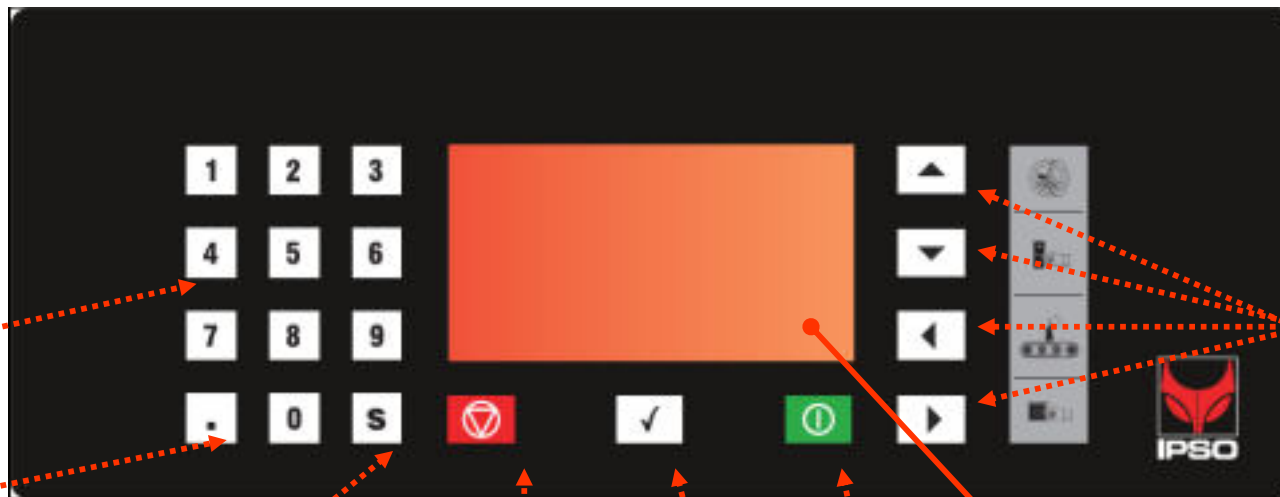
- Machine set-up
- Wash programs update
- Monitoring + alarms (email, SMS)
- Traceability
- Location management
- Sales overview
- Reports, statistics

Connection

- Wired RS485



Aries Elite



Numeric keypad

Navigation

Delayed start function

Servicing information

Stop/Back

Select

Start

Graphical display
- Anti-reflective foil (sunshine)
- Anti-vandal protection



Available languages

- | | |
|---------------|----------------|
| 1. English | 12. Portuguese |
| 2. French | 13. Polish |
| 3. Spanish | 14. Slovene |
| 4. German | 15. Romanian |
| 5. Dutch | 16. Croatian |
| 6. Czech | 17. Hungarian |
| 7. Finnish | 18. Russian |
| 8. Danish | 19. Latvian |
| 9. Swedish | 20. Turkish |
| 10. Norwegian | 21. Lithuanian |
| 11. Italian | |

Programs

	Vend	OPL		
	Aries (15 max. programs)	Aries (15 max. programs)	Aries Elite (max. 60 programs)	remark
1.	BRIGHT INTENS.	BRIGHT INTENS.	BRIGHT INTENS.	30°
2.	COLOR INTENS.	COLOR INTENS.	COLOR INTENS.	30-40°
3.	WARM 60° INTENS.	WARM 60° INTENS.	WARM 60° INTENS.	30-60°
4.	HOT 90° INTENS.	HOT 90° INTENS.	HOT 90° INTENS.	30-90°
5.	BRIGHT WASH	BRIGHT WASH	BRIGHT WASH	30°
6.	COLOR WASH	COLOR WASH	COLOR WASH	40°
7.	WARM 60° WASH	WARM 60° WASH	WARM 60° WASH	60°
8.	WOOLENS	WOOLENS	WOOLENS	15°
9.	LOW SPIN	LOW SPIN	LOW SPIN	
10.	HIGH SPIN	HIGH SPIN	HIGH SPIN	
11.		ECO BRIGHT	ECO BRIGHT	30°
12.		ECO COLOR	ECO COLOR	40°
13.		ECO WARM 60°	ECO WARM 60°	60°
14.		ECO HOT 90°	ECO HOT 90°	90°
15.		HOT 90° WASH	HOT 90° WASH	90°
16.			SPORT	
17.			MOPS	
18.			HORSE BLANKETS	
19.			JEANS	
20.			SEPAR.STARCH	

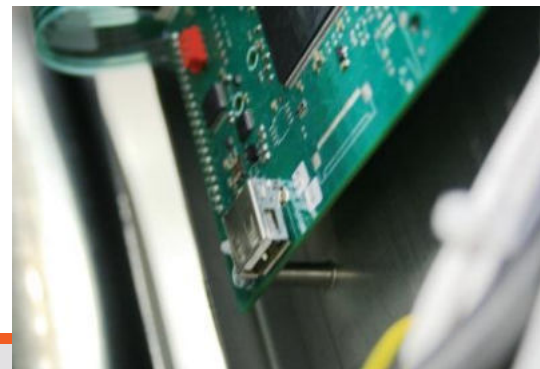


USB

- Connection inside the machine or at rear panel (option)
- 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
- Simple firmware update



Back side of the machine (option)



Inside the machine (standard)



Safety

- IA machines correspond to all CE and EMC directives, WRAS approval*
- Noise level below 65 dB
- Standard emergency button (none on coin and CPS machines)
- One main switch
- Buzzer signal at the end of the cycle



Main switch

**Not for high capacity water*

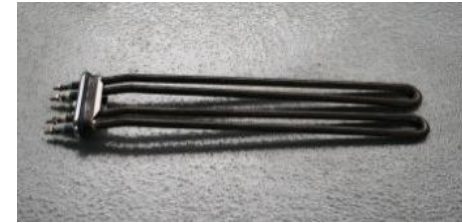
Heating

Electrical heating



Heating elements in the front

- Positioned in front of the machine
- Easy access for quick service
- Short wash cycles



Heating element (IA80-135)

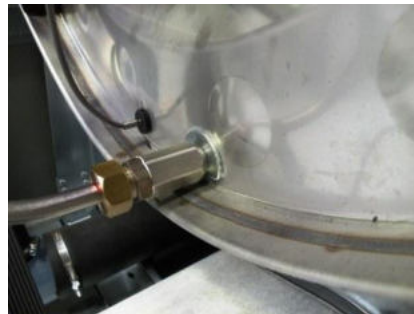
	IA80	IA105	IA135	IA180	IA240	IA280	IA332	IA520
Electrical heating (kW)	6 / 9 (4,6)	6 / 9 / 12	9 / 12	12 / 18	18	22	27	40,5



Heating

Steam heating

- Steam plug option
- Direct steam
- 1 – 8 bars
- Positioned in the back
- Connection inside the machine → a stainless steel tube
- Combination with electrical heating is possible
- Switch between steam and electrical heating is on the back panel



Steam execution IA80-135



Steam injector



Steam execution IA180-280



Coin-operated

- Electronical or mechanical coin meter
- Large integrated coin box
- Central payment as an initiative



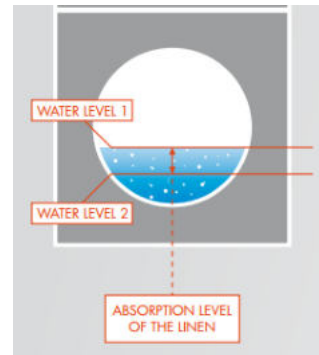
Software Unbalance System

- Total solution
 - Anti-vibration system: detects any unbalance and adapts the spin speed accordingly
- Advantages
 - The machine is optimally protected against unbalances, which results in a longer lifetime
 - The noise level is reduced even more
 - Optimized stability during the entire cycle



SmartWAVE

- Energy saving technology based on Water Absorption Verification
 - Weight of the load is measured by absorption
 - SmartWAVE automatically determines the absorption ability of the linen at the start of the cycle and consequently adjusts the water levels in every segment of the wash program accordingly



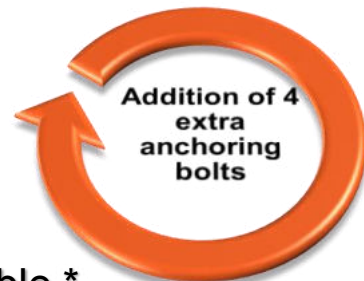


Voltages

Capacity 8 – 14 kg	Phase	Voltage (V)	Frequency (Hz)	Heating (kW)
	1	120	60	0
	1	200-240	50/60	0
	3	200-240	50/60	6 / 9 / 12
	3	380-415+N	50/60	6 / 9 / 12
	3	380-415	50/60	0 / 6 / 9 / 12
	3	440-480	50/60	0 / 6 / 9

Capacity 18 – 28 kg	Phase	Voltage (V)	Frequency (Hz)	Heating (kW)
	1	200-240	50/60	0
	3	200-240	50/60	12 / 18 / 21,9
	3	380-415+N	50/60	12 / 18 / 21,9
	3	380-415	50/60	0 / 12 / 18 / 21,9
	3	440-480	50/60	0 / 12 / 18 / 21,9

Anchoring bolts



Easily replaceable *



Options

- Stainless steel side panels
- Steam heating version
- Larger drum holes (7mm) – only for 100G models
- Aries Elite – fully programmable
- Coin-operated version
- 3rd water inlet
- Large capacity water inlets (3/4") – only for IA180-240
- USB plug (on the back panel)
- Liquid soap print - prep for liquid soap connection
- Liquid soap pumps
- Water recovery kit
- Drain pump – only for IA80
- Plinth in painted steel

Markets

Laundry



Various

