The WS series – economical, efficient and robust.



WASHER EXTRACTOR | WS 100, 140, 220, 290, 350, 450, 600





FREEpro Control Unit – Wash Technology Now and in the Future

- · Simple, easy and flexible programming
- · 13 standard programs included
- · 99 spaces for free programming
- · Dialogue based, simple programming
- · Easy individual program selection
- · Free and infinitely variable wash parameters
- · Machine and computer networks as well as online functions possibles
- · User navigation in plain language
- · Large selection of languages
- · Constant process monitoring
- · Visual representation of the program process
- · Possibility to retrieve extensive statistical information
- · Timer with week and week-end settings



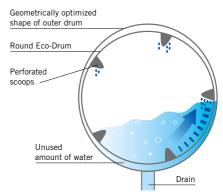
STAHL Eco-Drum:

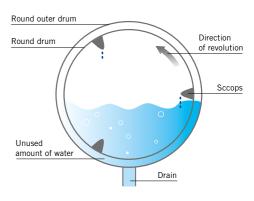
- Fast draining inclining lint
- Gentle conical perforations with soft radiuses

Washing machine WS - for high-performance, economical and gentle laundry care

- · Extremely robust construction
- · Long service life
- · Extremely stable bearing
- · Ergonomic design to promote efficiency
- · Linen saving conical perforation of the Eco-Drum
- · Perforations efficient in number and size
- · Perforated scoops for fast flooding of the wash load
- · Made in Germany for over 100 year









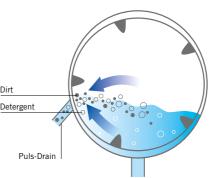
SPEED-FLOW-System by STAHL

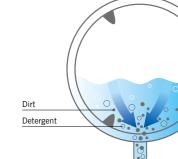
- · Water pressure increases at the narrowing on the right. The water flows quickly and with pressure onto and through the wash load (jet effect)
- More scoops = more agitation of water and wash



Conventional System

- The round drum in the round outer drum does not create any hydrodynamics
- Fewer scoops = Less agitation of wash load
- · More unused water = higher water consumption







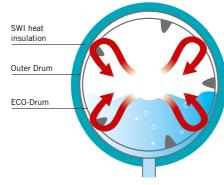
PULS – process by STAHL

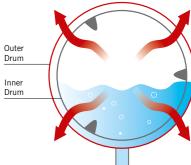
- · Dirt bound in detergent is drained via overflow (Arrow)
- Rinse bath remains cleaner = Save on rinse



Conventional rinse without PULS

- · Dirt and detergent come into contact with wash load during rinse
- · More rinses are necessary

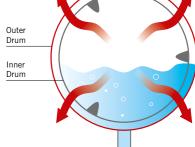






SWI heat insulation by STAHL

- SWI stops heat from radiating out (red arrow) as unused energy and keeps it inside the Eco-Drum instead. This results in marked energy savings
- No heat loss = Energy savings





- Without insulation a high proportion of the heat is radiated out (red arrow) as unused energy
- · High heat loss = Energy loss

FREEpro - the next generation technology

- · Control technology to satisfy any requirement
- Combination of powder and liquid detergents within one program
- · Intelligent cold and warm water supply
- Connection to integrated or external water recuperation system
- · Quantity control with level sensor
- · Easily adaptable to future wash processes and new textiles
- · Controlled cool down to prevent creasing
- Combined PULS/Cool-Down/SPEED-Flow/SWI technologies to save time, water and energy
- · Trigger of external dosing pumps
- Control of external energy management and trigger of peak-load switch
- · Modern sensor technology to comply with temperature curves
- · Dual heating system

WS reduces costs and is kind to the environment:

- **SWI** specially designed heat insulation keeps the heat inside the outer drum. This "thermo effect" saves approximately 30% of heating energy.
- PULS pendulum overflow rinse process reduces amount of rinse baths, detergents, wash times, wear and tear on linen and energy consumption.
- **SPEED-FLOW** hydrodynamic water flooding reduces water and energy consumption.
- · Marked additional savings in water consumption can be achieved by installing a water recuperation system.
- · WS is 100% recyclable.
- Liquid dosing system for cost reducing and ecological operation can be fitted any time.

Type WS		100	140	220	290	350	450	600
Drum volume	1	100	140	220	290	350	450	580
Load capacity (dry load)*	ca. kg	10	14	22	29	35	45	60
Spin speed variable up to	rpm	500	500	500	500	500	500	500
Number of scoop ribs		4	4	5	5	6	6	6
Connections								
Electric-heating	kW	9	12	18	18 (24)	36	36	36 (54)
Steam HP (4-6 bar)	ca. kg/h	9	9	18	18	36	45	60
Installation connections								
Water cold	DN	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Water hot (optional)	DN	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Steam HP 1/2" thread	DN	20	20	20	20	20	20	20
Water drain	mm	70	70	70	70	70	70	70
Dimensions								
Width	mm	775	775	885	885	1110	1110	1110
Depth	mm	718	868	996	1151	1100	1280	1680
Height	mm	1220	1220	1370	1370	1600	1600	1620
Net weight	kg	240	260	340	433	820	870	1100

^{*}Depending on load type



ATOLL washing machine 5,5-110 kg

D-Y 1600 pass-through washing machine 14-200 kg

T 256 tumble dryer 8-100 kg

MASTER 1610 high-power flatwork ironer 210–2010 mm roller diameter

KOMBIFOLD folding machine for towelling and dry linen

Made in Germany

Gottlob STAHL Wäschereimaschinenbau GmbH

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