



TYPE HA

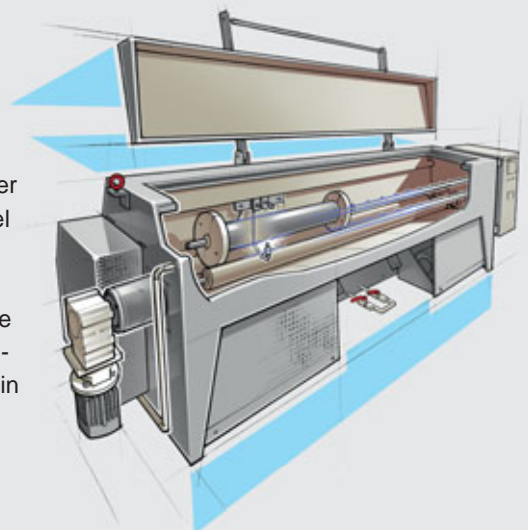
Washing machine Type HA	Size 15	Size 20	Size 25
Number of rollers / sleeves / cylinders	1	1	1
Max. diameter	250 mm	250 mm	250 mm
Max. weight	380 kg	380 kg	380 kg
Max. length of rollers / cylinders	1500 mm	2000 mm	2500 mm
Max. length sleeve	1200 mm	1700 mm	2200 mm or 2x per 900 mm
Capacity high pressure pump P2	3 KW, 10 l/min	3 KW, 10 l/min	3 KW, 10 l/min
Heating capacity	2 KW	4 KW	4 KW
	L x W x D	L x W x D	L x W x D
Dimensions mm	2870 x 1000 x 1300	3370 x 1000 x 1300	3870 x 1000 x 1300
Required space mm	4200 x 2800 x 1900	4200 x 2800 x 1900	4200 x 2800 x 1900
Clearance for installation mm	3000 x 1800 x 1800	3500 x 1800 x 1800	4000 x 1800 x 1800

Type HA

- Top-loading machine with closed, stainless steel wash cabin
- Machine made of stainless steel; operation of washing machine only possible if lid closed; opening only possible after completion of entire wash program.
- Roll turning and bearing devices consist of two stainless steel axle shafts supported at the front side of the machine; powered by external gear motor.
- No exact positioning in the machine required; lengths of wash items variable and no adjustments at the machine required.
- Wash medium system for even spraying of contaminated wash item surfaces with alkaline medium.
- Wash medium system consists of stainless steel wash medium container under wash chamber, circulation pump and a spray pump system.
- Wash medium container equipped with instant water heater (temperature up to 60°C), fill-level control (operation level, max. level) and large, removable clarifying filter.
- High-pressure system for directed spray wash of the wash item surfaces previously treated with the wash medium.
- High-pressure system is equipped with high-pressure piston pump (pressure 100 bar) with connection to customer's water network and horizontally oscillated carriage with high-pressure slot nozzle (travel adjustable).
- Blower on horizontally moving carriage to remove any remaining water from wash item surfaces.
- Control (PLC), including control elements and operating state lamps, located in timing case fitted to wash chamber. Automatic wash program includes: Spraying with wash medium – drip-off – high-pressure spray wash with longitudinal axis – blow-off with pressurized air; all operation processes take place while wash item is rotating.
- Water container for high-pressure pump including immersion heater (temperature up to 60°C), fill-level control (operation level, max. fill level) and large, removable clarifying filter.
- High-pressure pump made of stainless steel
- Clean water rinsing (only when connected to water cycle); includes separate rinsing pipe made of stainless steel, heat exchanger pipe and stainless steel piping.
- Emptying of machine container by means of diaphragm pump.

Equipment

- Separate water cycle for high-pressure system; provision of warm water in a second, separate stainless steel high-pressure water container positioned under the wash chamber. Use of warm water for high-pressure spray wash; therefore further optimization of wash result und reduction in water consumption.





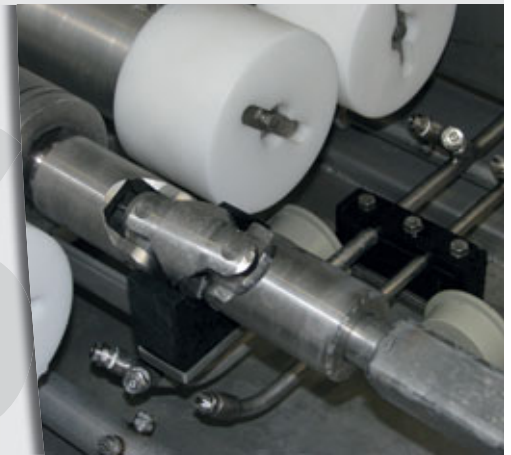
TYP HA-S

Waschmaschine Typ HA-S	Größe 20	Größe 25	Größe 30	Größe 35	Größe 40
Max. Durchmesser	300 mm	350 mm	350 mm	400 mm	400 mm
Max. Gewicht	700 kg	1000 kg	1000 kg	1500 kg	1500 kg
Max. Länge Walze / Zylinder	2000 mm	2500 mm	3000 mm	3500 mm	4000 mm
Max. Länge Sleeve	1700 mm	2200 mm	2700 mm	3200 mm	3700 mm
Anzahl Walze / Sleeve / Zylinder	Z1	Z1	Z1	Z1	Z1
Leistung Hochdruckpumpe	3 KW, 10 l/min	3 KW, 10 l/min	5,5 KW, 20 l/min	5,5 KW, 20 l/min	5,5 KW, 20 l/min
Heizleistung	4 KW	6 KW	6 KW	8 KW	8 KW
	L x B x H	L x B x H	L x B x H	L x B x H	L x B x H
Abmessungen mm	3200x1400x1350	4200x1460x1400	4700x1460x1400	5200x1460x1400	5700x1460x1400
Platzbedarf mm	5000x3200x2250	5500x3200x2300	6000x3200x2300	7400x1460x2300	7900x3200x2300
Einbringmaße mm	4000x1550x1450	4500x1600x1600	5000x1600x1500	5500x1600x1500	6000x1600x1500
Anzahl Walze / Sleeve / Zylinder	Z2	Z2	Z2	Z2	Z2
Leistung Hochdruckpumpe	5,5 KW, 20 l/min	5,5 KW, 20 l/min	11 KW, 40 l/min	11 KW, 40 l/min	11 KW, 40 l/min
Heizleistung	6 KW	8 KW	8 KW	12 KW	12 KW
	L x B x H	L x B x H	L x B x H	L x B x H	L x B x H
Abmessungen mm	3400x1460x1500	4200x1560x1500	4700x1560x1500	5200x1760x1500	5700x1760x1500
Platzbedarf mm	5000x3200x2550	6400x2200x2650	6900x3300x2650	7800x3400x2750	8300x3400x2750
Einbringmaße mm	3700x1600x1600	4500x1700x1600	5000x1700x1600	5500x1900x1600	6000x1900x1600

Typ HA-S

Ausführung analog Typ HA, jedoch mit folgenden Unterschieden:

- Drehvorrichtung für Walzen / Zylinder bestehend aus zwei Zapfenauflagen mit angetriebenen Rollenpaaren, eine Zapfenauflage verschiebbar für unterschiedliche Waschgutlängen; Sleeves können mit Abdeck-/Zapfenscheiben aufgelegt werden
- 2 Hochdruckdüsen auf Schlitten und doppelte Hochdruckpumpenleistung, doppelte Schlittengeschwindigkeit, dadurch halbe Zeit/Zylinderlänge für Hochdruck-Reinigung
- größerer Waschmediumbehälter



Einrichtungen für den sicheren Betrieb der Anlage



- Die Anlage erfüllt die Anforderungen aller zutreffenden Sicherheitsrichtlinien der EG. Das wird mit einer Konformitätserklärung bescheinigt und mit einem CE-Schild an der Maschine dokumentiert.
- Reinigungsmediumbeständigkeit aller medienberührten Teile.
- Pumpen, Rohrleitungen und Spritzdüsen geschützt vor Verunreinigungen durch Filter F1 und F2.
- Spritzen in der Waschmaschine nur bei geschlossenem Deckel möglich durch automatische Abfrage der Deckelposition und Verriegelung des Deckels während des Waschprogramms.
- Trockenlaufschutz der Pumpen und Heizkörper durch Niveauschalter LS1 / LS2.

