

## Portafix Universal series

The Portafix Universal is a modular steam/air fixation unit with integrated steam generator for the fixation of textile dyes.

With temperatures between 100 and 180°C and dwell times from 2 to 30 minutes, the Portafix Universal is suitable for all textile dyes. The Portafix Universal allows ageing with saturated steam conditions, with temperatures in the range 100 - 105°C, is also suitable for high temperature fixation of disperse dyes at 165 - 180°C and can furthermore be used for the hot air fixation of pigment dyes.

The huge forced steam circulation combined with the PID-controlled heating and cooling capabilities, guarantee that the selected temperature is achieved throughout the entire steam chamber with an accuracy of a few tenths of a degree, resulting in an all-over equal and reproducible colour. Regeneration of steam during the forced circulation ensures a low fresh steam consumption.

The maintenance-free chains drive all rollers thus a tensionless fabric transport is guaranteed. In addition to that a fabric bar can be attached to the chain which greatly simplifies the feed-in handling of cloth into the Portafix Universal.

The Autostart enables the unit to heat-up automatically at a pre-selected time. During production stops the steamer can also be switched to a Stand-by state in which the device, with minimum energy consumption, is kept at the selected production temperature. The optional "Autostop" function will switch off the steamer automatically when the end of the cloth is detected.

The production capacity of the standard steamer (PU3) can, also at a later stage, be doubled (PU6), tripled (PU9) or quadrupled (PU11) without any loss of quality.

The roll infeed and discharge frame units are modular units and can be selected from roll-to-roll, lorry to lorry, batch winder or a combination of these. The optional ascending batch winder for higher roll capacity is offered with an automatic transverse substrate correction and cloth-side detection for perfect straight rolls.

The Portafix Universal is available in a 1.85, 2.50 and 3.40 meter width and is made of 304 and 316 stainless steel. All necessary components are integrated in the Portafix Universal.

The Portafix Universal can also be used as a Steam-Dryer in combination with the Porta-Wash and Porta-Pad.

The Portafix Universal is **CE** marked.



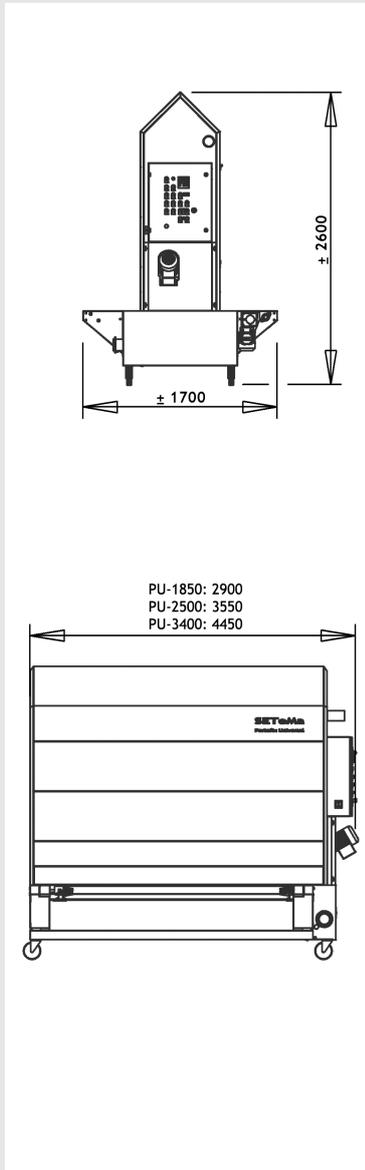
- compact modular roll-to-roll steamer
- no leaders for feed-in / feed-out
- all types of textile dyes
- low fresh steam consumption
- reproducible and uniform results
- excellent colour yields
- easy to operate
- easy to maintain
- available in 3/6/9/11 m versions
- upgradable
- available in a 1.85, 2.50 and 3.40 m width
- modular combinable for e.g. drying
- stainless steel 304 and 316

options:

- autostop
- ascending batch winder
- transverse substrate correction with cloth side detection
- scroll rollers for e.g. knitwear
- infeed / discharge frame for working from / to lorry
- water softener
- custom power / frequency



## Portafix Universal technical specifications



Type, capacity		PU3	PU6	PU9	PU11	
Fabric length inside steam chamber		3	6	9	11	[m]
Production capacity	2 min fixation process	90	180	270	330	[m/h]
	10 min fixation process	18	36	54	66	[m/h]
	30 min fixation process	6	12	18	22	[m/h]
Forced circulation		variable up to 2200				[m <sup>3</sup> /h]
Temperature range		steamtemperature		100 - 180		[°C]
		airtemperature		50 - 180		[°C]
Type, width		1850	2500	3400		
Volume steam chamber		1.90	2.40	3.30		[m <sup>3</sup> ]
Fabric	maximum width	1.85	2.50	3.40		[m]
Fabric roll	maximum weight				60	[kg]
	maximum diameter				0.55	[m]
Dwell time					2 - 30	[min]
Steam generator					11	[kW]
Steam-/air heating					selectable 6 - 18	[kW]
Slit heating		0.60	0.80	1.10		[kW]
Steam cooling					1.2	[kW]
Weights	from (PU3)	645	735	920		[kg]
	to (PU11)	735	835	1030		[kg]
					45	[kg]
Required connections		power voltage		N + 3 x 230/400		[VAC]
		power current		32		[A]
		water		15		[L/h]
		water pressure		0.5-6		[bar]
		steam/air exhaust		450		[m <sup>3</sup> /h]
		condensate wastewater		1.5		[L/h]
infeed/discharge units						