



Full Forced Convection Reflow Soldering System SMT Quattro Peak® S Media

The QP S Media distinguishes itself through high **process stability** and **long life cycle**. Innovative developments such as the flux cleaning system "ABS" ensure high system uptime.

Benefit from:

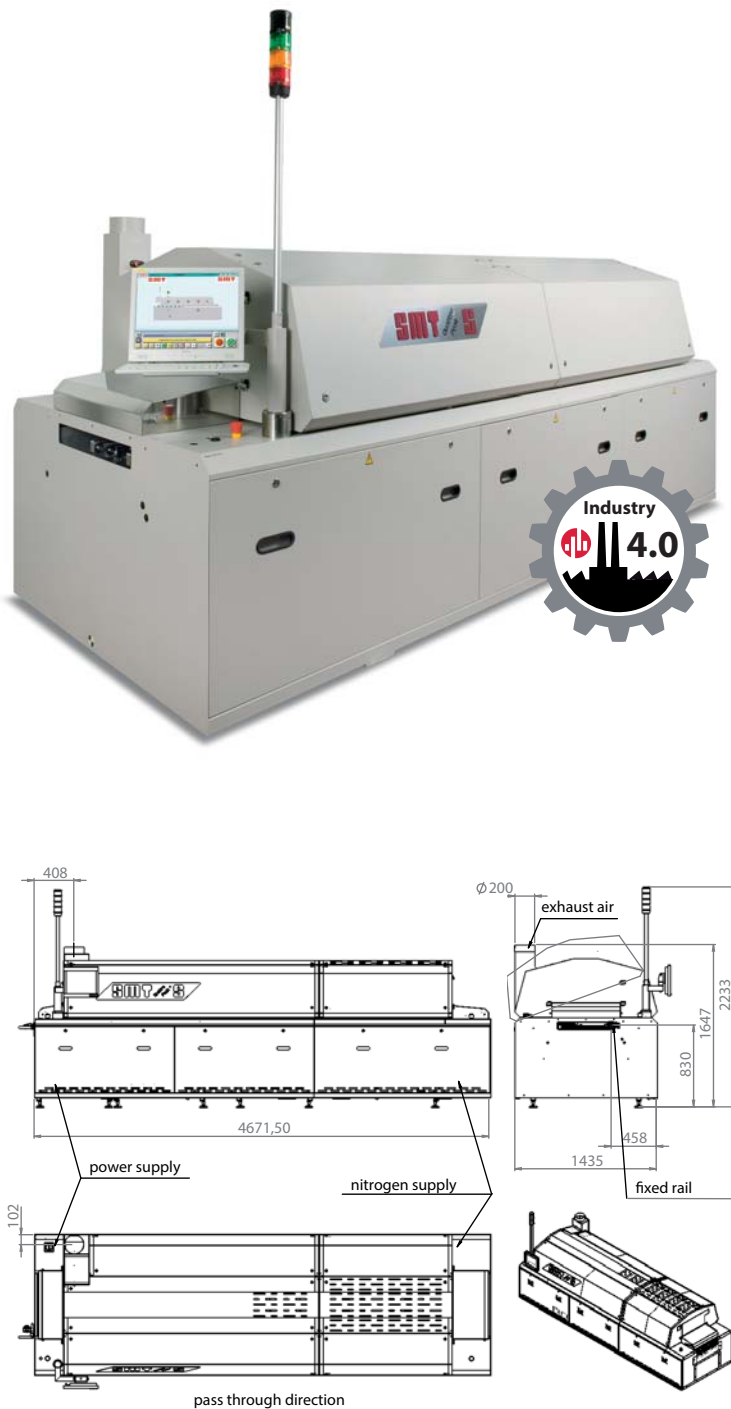
- + 28 years experience in Reflow technology
- + **Precise nitrogen control** by integrated lambda sensor technology and real-time continuous measurement of residual oxygen value
- + Maintenance free process gas cleaning system
- + Fan units more than **10 years** gas-tight and **maintenance free**
- + Lowest energy and media consumption

Basic configuration:

- Bottom side heating
- Acoustic warning signal (buzzer)
- Nitrogen version
- Chain conveyor
- Adjustable center board support(CBS)
- ABS - process gas cleaning system
- Transport width adjustment, programmable
- Handling interface, SMEMA
- 1. and 2. cooling stage
- 1 day installation service at SMT plant
- Participation at SMT Reflow Soldering training, 2 days in Wertheim, Germany

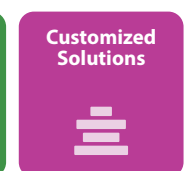
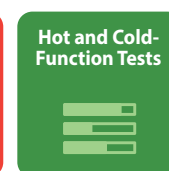
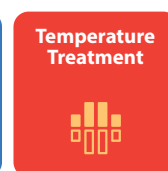
Options:

- Lambda residual oxygen measuring device
- Power cooling with internal cooling compressor



Subject to change without notice, 23/04/2015

SMT Maschinen- und Vertriebs
GmbH & Co. KG
Roter Sand 5-7
97877 Wertheim, Germany
☎ +49-9342-970-0
info@smt-wertheim.de
www.smt-wertheim.com





Technical Data SMT Quattro Peak® S Media

Overall dimensions

Length:	4671.5 mm
Width:	1435 mm
Height (in delivery condition / incl. warning light): ^{2.)}	1647 mm / 2233 mm
Inlet height, adjustable by customer: ^{2.)}	830 ... 1030 ±20 mm

Weight	approx. 2300 kg
Number / diameter foot:	10 / 80 mm
Max. floor loading:	750 kg/m ²

Process area

Length:	4350 mm
Pre-heating zones:	3
Peak zone (top/bottom):	2 peak zones with 4 heating modules (2 top / 2 bottom)
Bottom heating modules pre-heating zones:	3
Heated tunnel length, total:	2598 mm
Active convection length:	2060.5 mm
Length of cooling zone:	1752 mm
Temperature measurement:	NiCr-Ni sensores in the hot gas flow
Warm-up time:	approx. 30 min.
Warm-up time with economy switch:	approx. 60 min
Heat transfer:	100% forced convection
Process temperature (pre-heating zone/peak zone):	max. 300 °C (pre-heating zone) / 350 °C (Peak)

Transport chain conveyor

Working width usable with PCB support:	60 ... 510 mm
Usable working width with PCB support:	PIN level ...-10 mm
Working direction:	left-right
Fixed rail:	front
Pass through height (top/bottom):	30/30 mm
Max. loading	3 kg/m

Conveyor speed	0.2 ... 3.0 m/min.
-----------------------	--------------------

Average conveyor speed	0.7 ... 1.2 m/min.
-------------------------------	--------------------

Exhaustion ^{3.)}

Suction pipe:	1 x Ø 200 mm
Required exhaust air at pipe (inlet):	approx. 600 ... 800 m ³ /h
Temperature of exhaust air at the pipe:	< 50 °C
Internal exhaust air resistance of oven:	3 - 8 mbar

Continuous sound pressure level	< 70 dB(A)
--	------------

Control unit	CDIAS with RT 7
---------------------	-----------------

Nitrogen supply * 4.)

Connecting armature:	R 3/8" internal thread
Working pressure (at connecting armature):	6 ... 8 bar
N ₂ -consumption, steady state condition and transport width 220 mm:	approx. 9 m ³ /h
N ₂ -consumption, full load and transport width 220 mm:	approx. 15 m ³ /h
Readiness for the system (1000 ppm, N ₂ < 5 ppm O ₂)	approx. 15 min.

Power supply

Connecting power supply:	3~N, PE 230 / 400 V, 50 Hz
Max. current consumption per phase:	95 A
Max. current consumption per phase with economy switch:	70 A
Power consumption during heat-up:	64 kW
Power consumption steady state condition: ^{1.)}	approx. 9 kW h

1.) Machine with chain conveyor 220 mm transport width, fan regulation and no other options

2.) Infeed height 950 mm; corresponding to a changed inlet height the other heights of the reflow system are changing

3.) Connection of a flexible, heat resisting (at least 100 °C) hose (available by SMT) or tube. The waste air exhausting unit width adjustable throttle valve mounted after the suction sleeves has to be installed by the user

4.) Nitrogen supply with filters for solid and liquid parts has to be mounted by the user, recommended supply of nitrogen with oxygen content < 5 ppm

* with option nitrogen only