

A close-up, high-contrast photograph of a sanding machine's sanding drum. The drum is covered in a fine, dark sandpaper. A metal support bar runs diagonally across the drum. The background is blurred, showing the internal components of the machine.

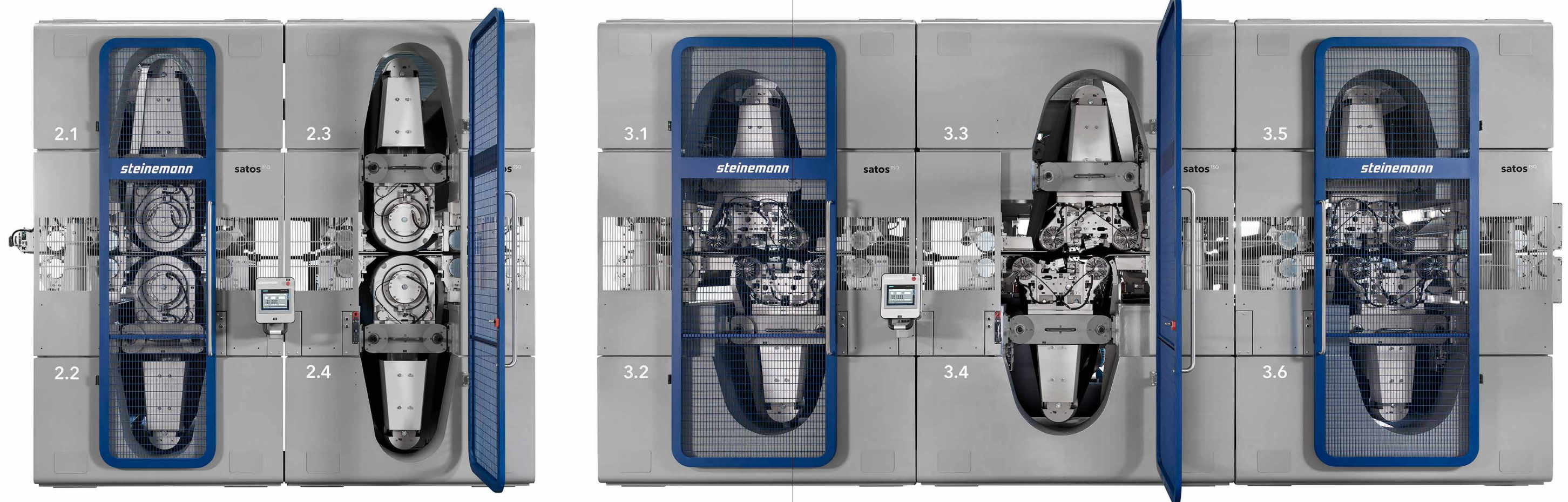
SANDING MACHINE

satos TSQ

steinemann

Satos TSQ – for highest demands in terms of availability, performance and surface quality.

satos^{TSQ}



The requirements placed on wide belt sanding machines are also rising with the ever-increasing demands in terms of capacity and quality. Steinemann has accepted the challenge and developed a machine that is setting new standards in the high-end sector. The results of over 50 years of experience are incorporated into leading-edge technology from a mechanical aspect and also with respect to a future-oriented automation concept.

This gives you the assurance you are well equipped to face the challenges of today and tomorrow. The innovative technology opens up completely new options and prospects:

- Maximum availability, safety and ease of maintenance
- Great consistency with respect to thickness tolerances and the optimum surface quality
- High investment security and low operating costs
- Pioneering technology and performance
- Integration and networking in the panel production process

Key Features

Vibration monitoring



Enables the early detection of bearing damage, clear differentiation between different types of damage and offers the basis for detailed root cause analyses.

We always include temperature monitoring; vibration monitoring is optional.

Temperature monitoring



- Intelligent and predictive maintenance
- Increase in system stability and availability

Motorized contact drum and/or sanding platen adjustment system



Fine adjustment of the contact drums and/or sanding platens through guided position monitoring and a position display on both sides.

- Position display on the HMI
- High adjustment accuracy

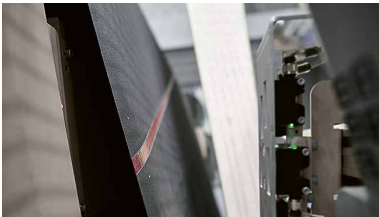
Quick lock system



Optimized design for ergonomic and simplified belt introduction.

- Sensor-monitored locking device to improve process reliability and occupational safety
- Gentler and faster sanding belt change through larger insertion openings

Self-adjusting sanding belt oscillation



Automatic machine start without manual adjustment of the individual units. Completely self-regulating.

- No belt run off
- Free of play, maintenance-free and easy to operate

Drum braking system



The rollers are gently stopped after a sanding belt rupture. This means that the safety doors can be opened faster.

- Faster response after a sanding belt rupture
- Danger from rotating parts is minimized

Optimized operation of the machine with touchpanels



Central monitor (22") has a clear overview and permits complete operation of the machine from the control room.

- Process control has been simplified
- Remote access is possible



Local control panel (7") for the on-site control unit and a quick overview of all relevant process data.

- No unnecessary foot traffic
- Faster interaction of the machine operator

TECHNICAL DATA

		Satos TSQ 13	Satos TSQ 16	Satos TSQ 22	Satos TSQ 28	Satos TSQ 32
Panel thickness	mm	2.5 – 50	2.5 – 50	2.5 – 50	2.5 – 50	2.5 – 50
Max. panel width	mm	1,350	1'650	2'250	2'850	3'300
Machine opening	mm	0 – 300	0 – 300	0 – 300	0 – 300	0 – 300
Working height	mm	1,400	1,585	1,585	1,585	1,585
Feed rate	m/min	15 – 150	15 – 150	15 – 150	15 – 150	15 – 150
Contact drum diameter	mm	364	455	455	455	455

Sanding belt dimensions

Max. sanding belt width	mm	1,400	1,700	2,300	2,900	3,350
Oscillation (approx.)	mm	15	15	15	15	15
Sanding belt length	mm	2,800	3,200	3,200	3,200	3,200

Motor output

Sanding motors	kW	90	up to 132	up to 160	up to 200	up to 200
Feed motors	kW	11	11	11	15	18

Compressed air

Compressed air requirement per sanding head	m ³ /h	0.8	0.5	0.5	0.5	0.5
Operating pressure	bar	5	5	5	5	5

Extractor capacity

1 K-unit*	m ³ /h	15,000	18,600	25,500	31,600	37,200
1 N-unit**	m ³ /h	9,600	11,600	16,300	20,900	23,200

Dimensions/weights (height 3,100 mm)

K-unit*		KK Twin-column				
Length x width	mm	3,600 x 2,200	4,400 x 1,700	5,000 x 1,700	5,600 x 1,700	6,100 x 1,700
Weight (approx.)	t	19	17	19	21	23

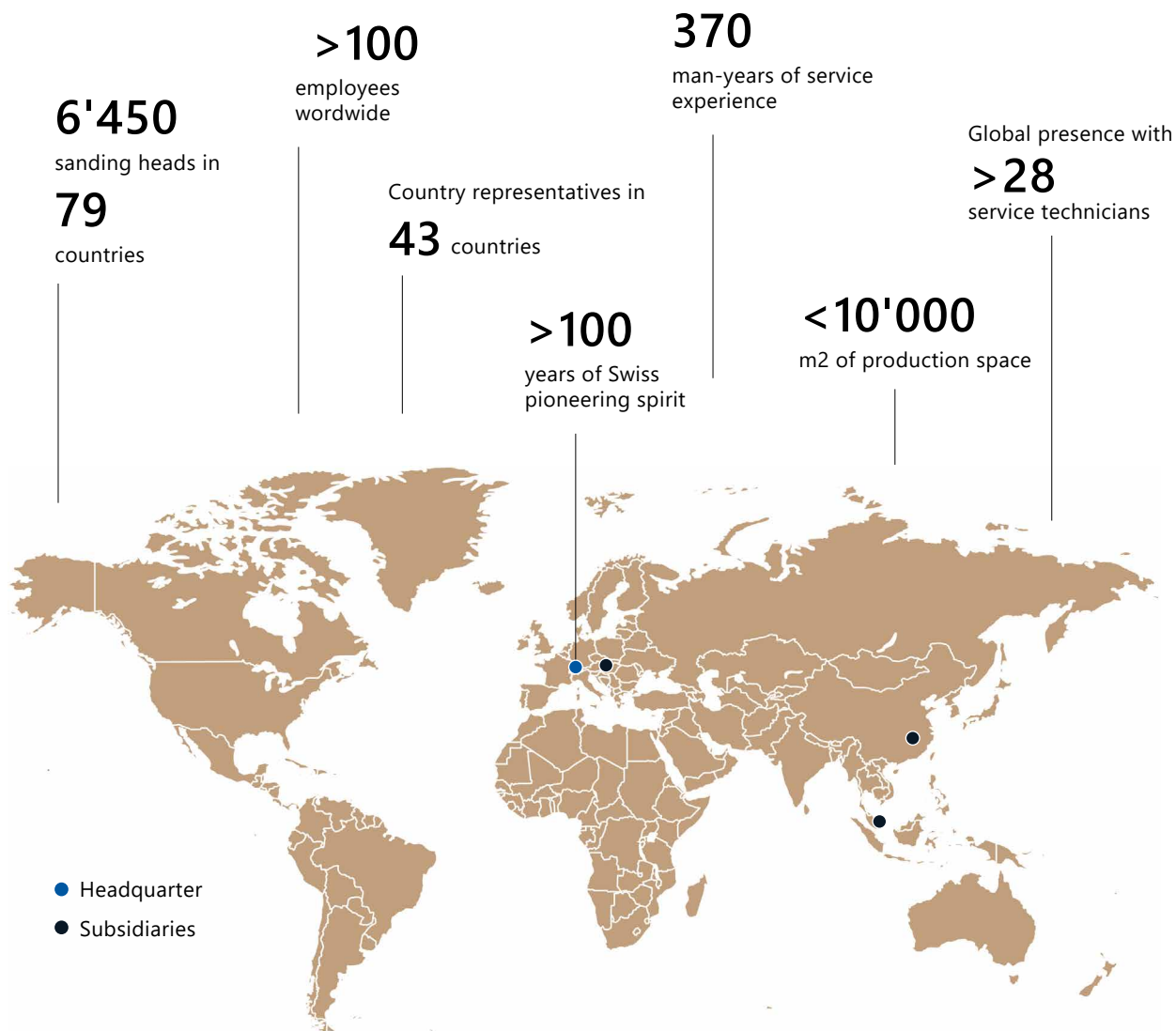
N-unit**						
Length x width	mm	3,600 x 1,700	3,700 x 2,200	4,300 x 2,200	5,100 x 2,200	5,600 x 2,200
Net weight (approx.)	t	15	17	19	21	23

Subject to change without notice

* K-unit = calibration unit with 2 oppositely disposed sanding heads
** N-unit = fine sanding with 2 oppositely disposed sanding heads

Steinemann worldwide

With the panel manufacturing industry becoming increasingly global, Steinemann is at home all over the world. Our dense network of branch offices and agencies enables us to provide rapid and reliable support for customers.



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