



Optimal structure and protection of concrete surfaces

# Texture curing machine

## TCM 950/TCM 1800



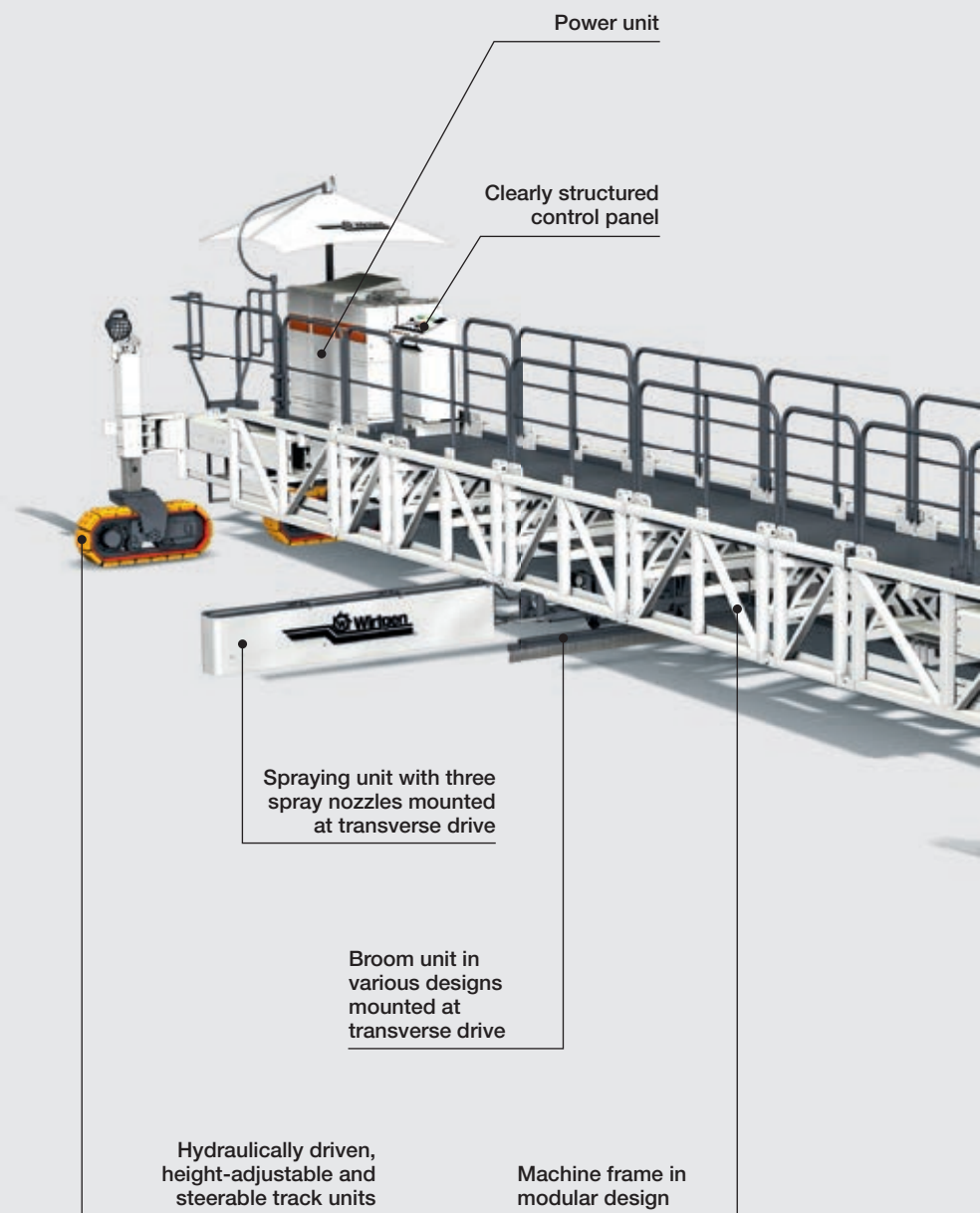
# High-quality curing of freshly paved concrete slabs

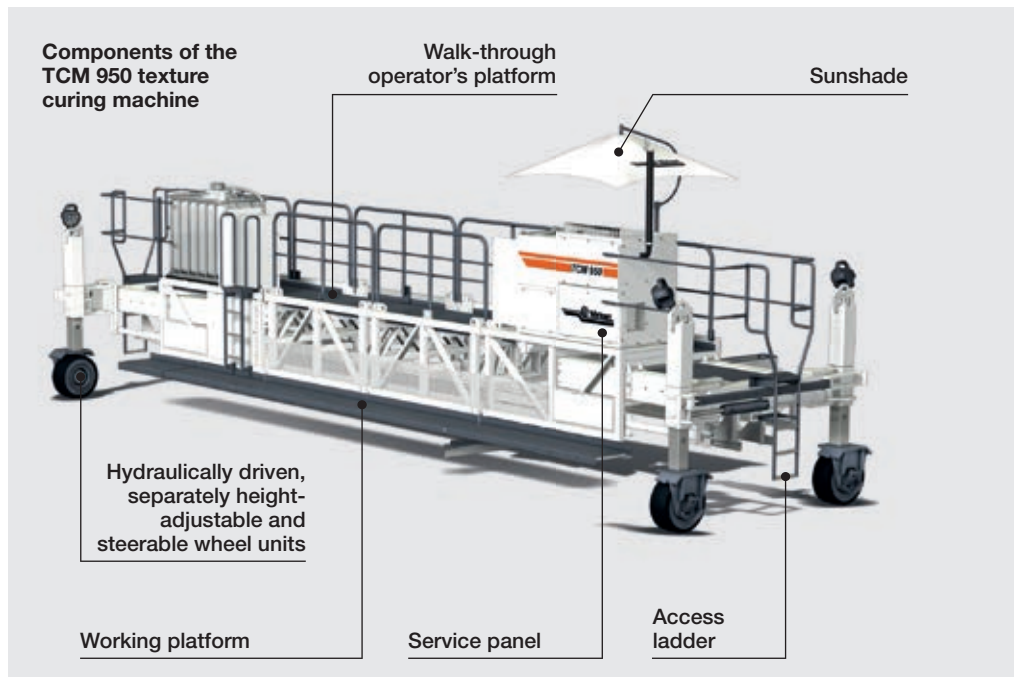
## Anti-skid surfaces and optimal hardening processes

Professional curing of concrete surfaces is guaranteed by the self-propelled TCM 950 and TCM 1800 texture curing machines from Wirtgen. Concrete needs to be protected against premature drying during the hydration process to prevent stresses from occurring that can lead to excessive cracking. The texture curing machine is therefore equipped with an automatic spraying and brooming unit, and follows right behind the slipform paver during the paving operation.

The concrete slab is given the specified texture by moving a broom across the entire concrete surface. The spraying unit subsequently applies a thin film of curing compound on the freshly paved concrete surface to prevent premature evaporation.

Components of the TCM 1800 texture curing machine





## Extended service life

The modular setup enables working widths from 4.0 m to 9.5 m with the TCM 950, and from 4.0 m to 18.0 m with the TCM 1800.

The TCM 950 is equipped with four wheels, whereas the TCM 1800 is equipped with four track units.

The track units of the TCM 1800 provide optimal traction at all times.

The TCM 950 texture curing machine is suitable for subsequent conversion into a TCM 1800 model.

# Giving the concrete pavement a fine finish





## Applying the broom finish to create an effective surface texture

Different types of brooms are available for our texture curing machines to give concrete pavements the specified surface texture and grip. Both the broom and the spraying unit are mounted on a carrier that is driven via two cable drums and guides the broom in transverse direction across the entire pavement width. The broom unit is automatically raised at both ends to prevent the concrete edge from damage. At the customer's request, the machine can also be equipped with a broom unit operating in longitudinal direction.

If specified, a burlap or artificial turf is alternatively dragged across the freshly paved concrete surface instead of applying a broom finish.

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Applying the broom finish gives the concrete surface a defined texture right after paving.

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The surface is given the specified grip while simultaneously applying a curing compound.



# State-of-the-art spraying technology facilitates optimal hydration

## Ensuring uniform hardening of the concrete

The curing compound applied on the freshly paved concrete surface reliably prevents premature drying and subsequent cracking of the concrete slab. The spraying unit with three nozzles moves back and forth automatically to evenly apply the curing compound across the entire pavement width.

Optimal application is ensured in both stop-and-go operation and “continuous advance” mode, for instance, when paving exposed aggregate concrete. Extended working time and curing compound consistency are ensured by an agitator equipped 800-l tank.





The spraying unit is guided across the entire slab width by means of a transverse drive.



Additional nozzles are switched on or off separately to spray the sides of the concrete slab.



The spray nozzles are protected from wind by a tarpaulin.



Intelligent equipment features  
make easy work





Fine-tuning the working width:  
hydraulic telescoping of the two frame  
elements left and right by 1 m each.



Excellent view from the ergonomically  
designed operator's platform.



## Efficient operation saves time and cost

The TCM 950 and TCM 1800 offer a surprising wealth of practical features that are reflected in considerable overall time and cost savings.

The texture curing machines consist of 2.0 m wide modules, for example, which are installed or removed in just a few simple steps to adjust the working width to conditions on the construction site.

In addition, the adjustable machine frame allows the precise curing of pavements with a central crown. Hydrostatic transmission enables the advance speed to be continuously adjusted.

Last but not least, the machine's range of applications is broadened by ancillary equipment features, such as the separate generator or a filling pump for the curing compound tank.

# Smart steering for operation and transport

## No detours during transport

The texture curing machine is equipped with an innovative self-loading feature. The sophisticated pivot steering system does not require any conversion to pivot the wheels or track units 90° from working into transport position.

The machine's flexible steering system enables small turning radii when in working position, and easy maneuvering is ensured also when in transport position. The transport dimensions adhere to international standards.





Turning the track units  
90° for transport.

Folding the spraying  
unit into transport position.



# Technical specification

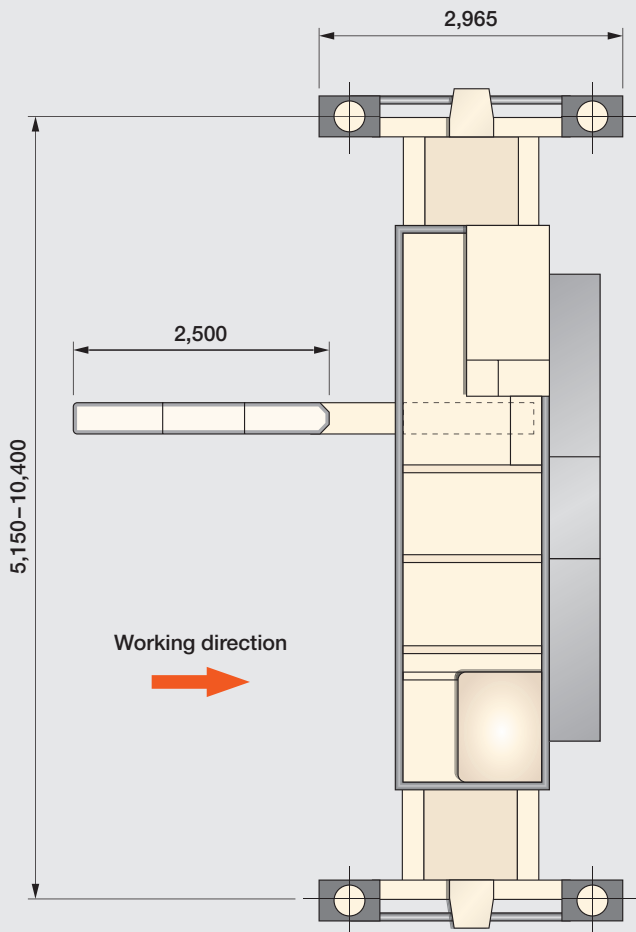
## TCM 950/TCM 1800

	Texture curing machine TCM 950	Texture curing machine TCM 1800
Working width max.	9,500 mm	18,000 mm
Working height	0 to 500 mm	0 to 500 mm
<b>Engine</b>		
Engine manufacturer	Deutz	Deutz
Type	D 2011 L04 i	D 2011 L04 i
Cooling	Air/Oil	Air/Oil
Number of cylinders	4	4
Rated power	41 kW/55 HP/56 PS	41 kW/55 HP/56 PS
Engine speed	2,300 min <sup>-1</sup>	2,300 min <sup>-1</sup>
Displacement	3,620 cm <sup>3</sup>	3,620 cm <sup>3</sup>
Fuel consumption, full load	12.5 l/h	12.5 l/h
Fuel consumption, 2/3 load	8.3 l/h	8.3 l/h
Emission standards	EC Stage 3a/US Tier 3	EC Stage 3a/US Tier 3
<b>Driving properties</b>		
Travel gear	0 to 38 m/min	0 to 25 m/min
Theoretical gradeability in travel gear	48 %	53 %
<b>Weights</b>		
Max. operating weight (depending on equipment features)	9.6 t	13.4 t

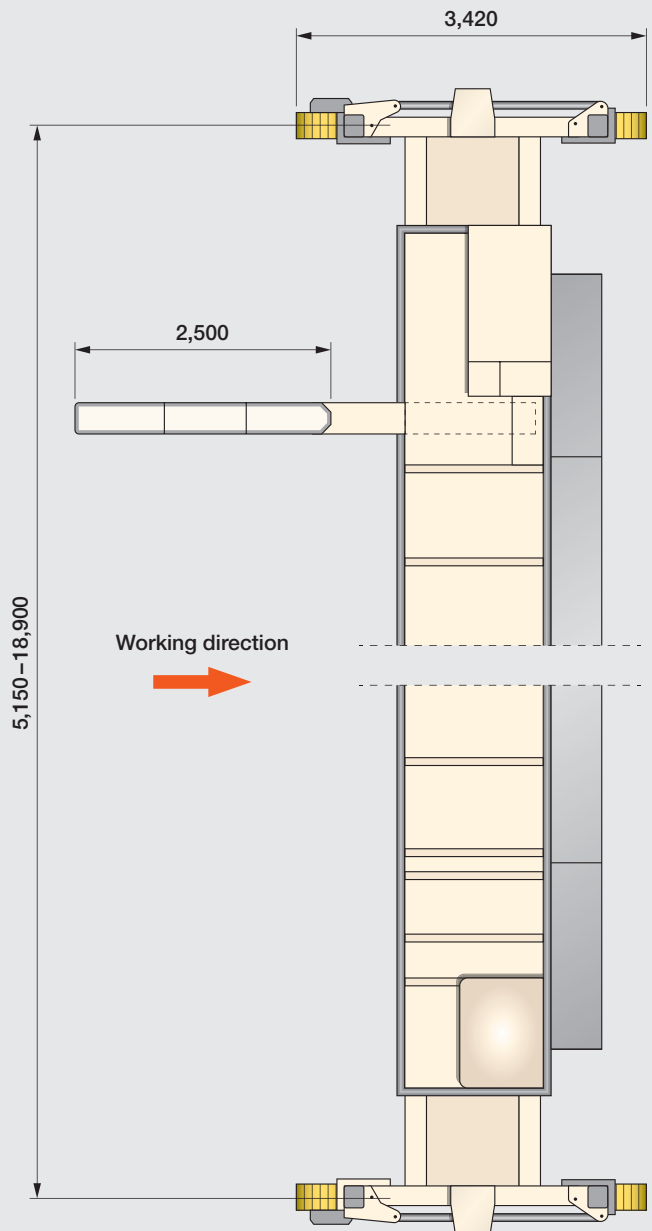
	Texture curing machine TCM 950	Texture curing machine TCM 1800
<b>Tyres</b>		
Type of tyres	Solid rubber	–
Tyre size	23/10,1 R 12	–
Number of wheels	4	–
<b>Crawler tracks</b>		
Track size (L x W x H)	–	1,340 x 260 x 54 mm
Number of crawler tracks	–	4
Height adjustment (hydraulic)	620 mm	620 mm
<b>Tank capacities</b>		
Fuel tank	110 l	110 l
Hydraulic oil tank	160 l	160 l
Curing compound tank	800 l	800 l
<b>Spraying system</b>		
Spraying pump max.	23 l/min	23 l/min
Filling pump max.	114 l/min	114 l/min
Electrical system	24 V	24 V
<b>Transport dimensions</b>		
Min. machine dimensions (L x W x H)	6,150 x 2,500 x 2,550 mm	6,650 x 2,500 x 2,550 mm
Max. machine dimensions (L x W x H)	10,150 x 2,500 x 2,550 mm	18,650 x 2,500 x 2,550 mm



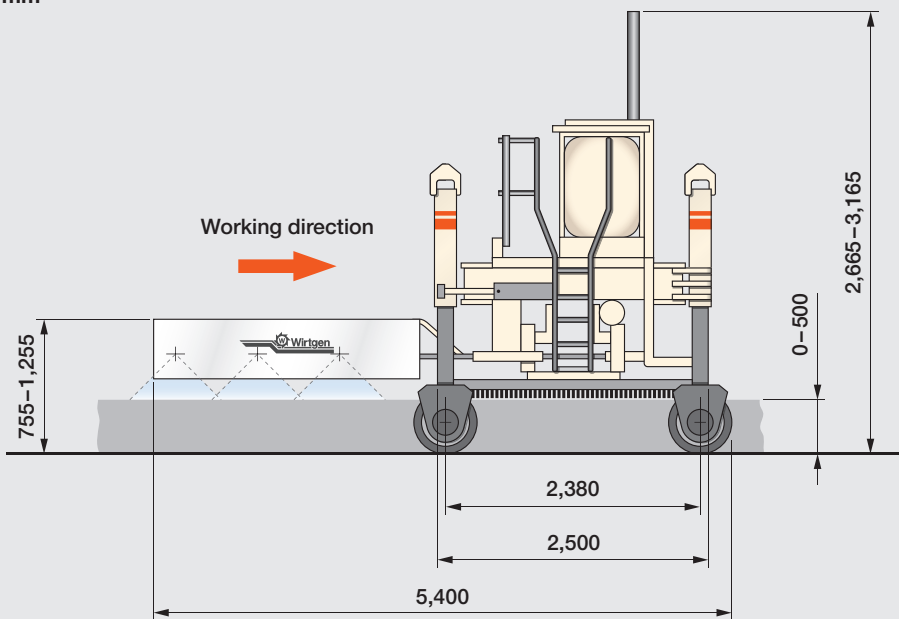
**TCM 950**  
Dimensions in mm



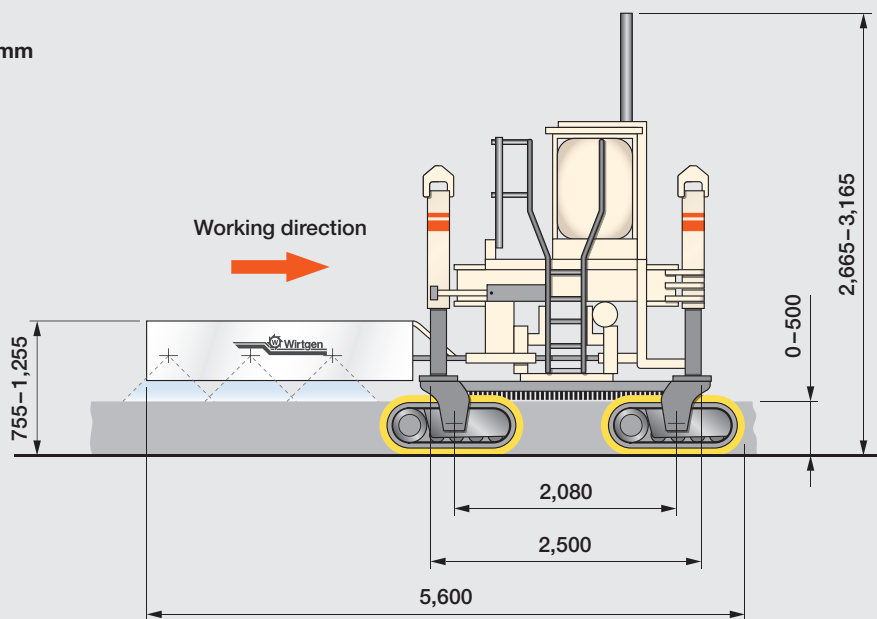
**TCM 1800**  
Dimensions in mm



**TCM 950**  
Dimensions in mm



**TCM 1800**  
Dimensions in mm



# Equipment features

## TCM 950/TCM 1800

### Standard equipment

#### Crawler tracks/Wheels

- › Wheel units (TCM 950 only)
- › Crawler track units, triple grouser track pads (TCM 1800 only)

#### Machine frame/Operator's platform

- › Standard painting in Wirtgen white
- › Mechanical telescoping feature left and right (1 m each)

#### Spraying system/Broom unit

- › Transverse drive for broom and spaying unit
- › Transverse broom unit
- › Transverse spraying unit with tank (800 l)

#### Transport

- › Self-loading feature
- › Loading and lashing lugs

#### Miscellaneous

- › Working lights
- › Tool kit
- › Soundproofing

### Optional equipment

#### Crawler tracks/Wheels

- › Crawler track units, polyurethane track pads (TCM 1800 only)

#### Machine frame/Operator's platform

- › Extension elements for machine frame as well as railing
- › Working platform with 500 mm wide walkway
- › Working platform with 1,200 mm wide walkway, hydraulically folding
- › Extension elements for working platform
- › Attachment option for burlap or artificial turf
- › Hydraulic telescoping feature left and right
- › Camber adjustment
- › Sunshade
- › Special painting

#### Levelling

- › Level control for automatic operation of the machine

#### Spraying system/Broom unit

- › Longitudinal broom unit
- › Special brooms
- › Agitator for spray tank
- › Filling pump
- › Longitudinal spraying unit

#### Miscellaneous

- › Hydraulically driven hoisting crane for curing compound tanks
- › Bracket for additional tanks (max. 2)
- › Separate generator for lighting system
- › Trigger wheel for path detection
- › Film unwinder



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