



TRACK

RELEASE 2023



passion for sports grounds

**PIONIEER AND LEADER
WITH MACHINES FOR
THE INSTALLATION OF
SYNTHETIC SPORTS
SURFACES IN THE
SPORTS BRANCH.**



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TRACK OVERVIEW APPLICATION

APPLICATION EQUIPMENT



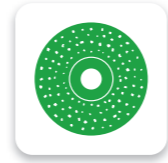
Mixing



Milling



Installation



Grinding



Spraying

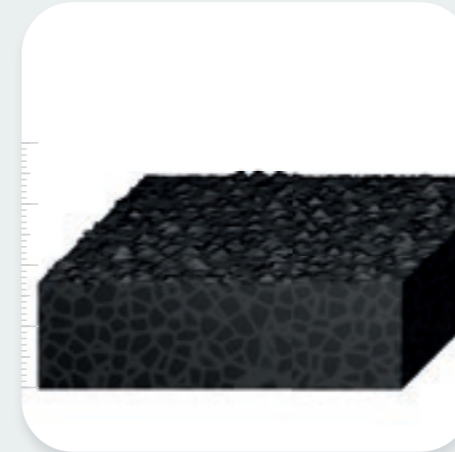


Cutting

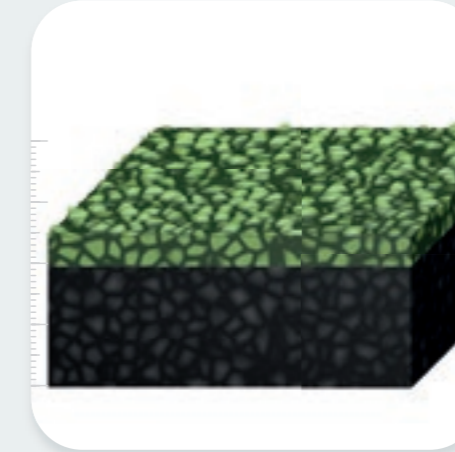


Electric motor

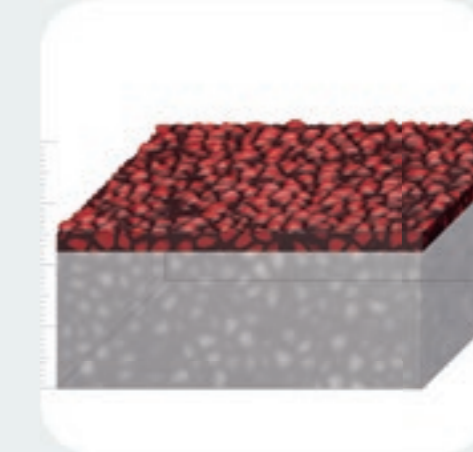
TRACK OVERVIEW TYPES



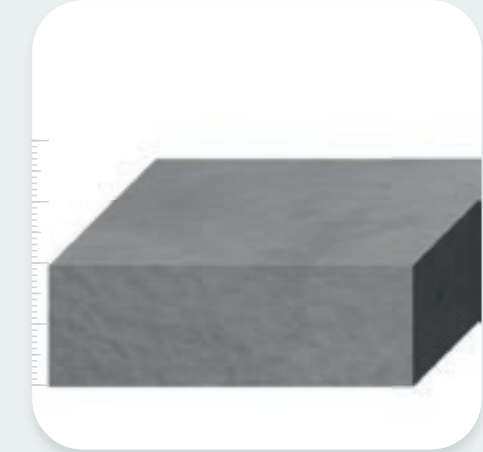
E-LAYER/
BASEMATT



MULTI-LAYER SOLID
SYNTHETIC COVERING



SPRAYCOATING



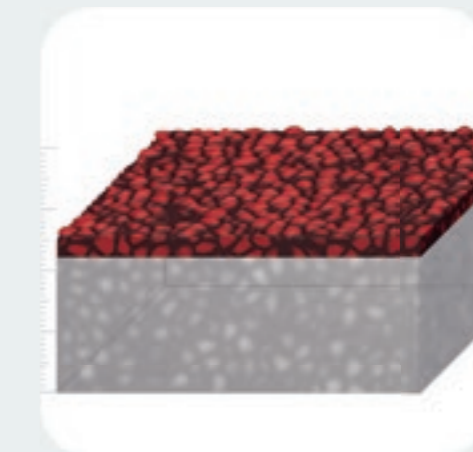
CONCRETE FLOOR



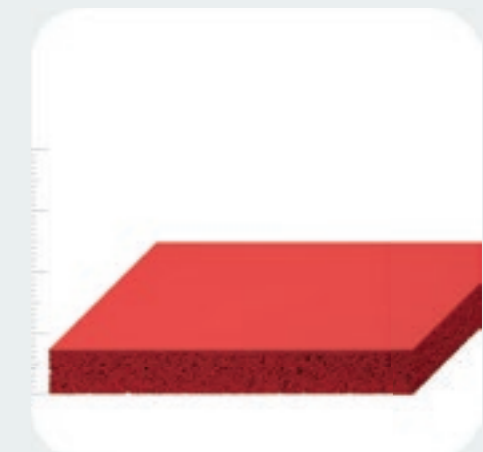
ET-LAYER



2-LAYER



SANDWICH-TOPCOAT



PUR CLAYCOURT

FULLY AUTOMATIC CONTINUOUS MIXER

FOR SYNTHETIC SPORTS SURFACES



CONTENTS

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MixMatic

M4000



Fully automatic continuous mixer for binder, rubber granules and gravel.

The MixMatic M4000 mixes rubber granules and gravel with 1-component binder (polyurethan). In particular, high-performance sport facilities require constantly exact and homogeneous material mixtures during the installation process. The calibration of the machine can be carried out through the central control panel. Afterwards the mixer-runtime is switched on manually and will stop automatically. Flow rate sensors control the material supply to the mixing tube. The container can be loaded with rubber granulate either with a Big Bag or a shovel loader. The M4000 is equipped with 2 material containers with each 3.000 l capacity. A integrated hydraulic lift allows a easy transport and handling on jobsite.

Art.-No. 6228913

Drive	3-phase current for granulate and grit drives; A.C. geared motor infinitely variable, electron. rpm
Power	23.8 kW (32.6 HP) / 400 V / 50 - 60 Hz / 63 A
Performance	600 kg/min
Weight	3,500 kg
Dimensions	L 3,500 x W 2,300 x H 2,300 mm

Subject to technical alterations

MixMatic

M6008



Fully automatic continuous mixer for binder and rubber granules; prepared for connection of the material component (gravel unit)

Our most powerful mixing machine for 1-component binder and rubber granulate is equipped with a material container with 2,500 l capacity. The container can be loaded with rubber granulate either with a Big Bag or a shovel loader. For all pumps and electric motors for the dosing of the components, mixing ratios can be precisely adjusted and consumption levels can be evaluated on the regular basis. The machine is operated by a central switch box. The mixer is switched on and off manually by means of the additional control panel. The maximum mixing capacity of the MixMatic M6008 is 400 kg/min. The continuous flow of the components are monitored by sensors and signals. An additional large material container with a capacity of 1.600 l is used for mixing of materials for elastic base layers, such as 1-component binder, rubber granulate and gravel.

Art.-No. 6400114

Drive	Electric motors infinitely adjustable by means of a frequency converter
Power	23 kW (31.3 HP) / 400 V / 50-60 Hz
Performance	400 kg/min
Weight	Basic mixer: 2,000 kg Gravel unit: 660 kg
Dimensions	Basic mixer: L 3,500 x W 1,900 x H 2,850 mm Gravel unit: L 2,450 x W 1,000 x H 2,950 mm

Subject to technical alterations



M4000

M6008

MixMatic

M6004



Fully automatic continuous mixer for binder and rubber granules, prepared for connection of additional material component (gravel or Polyol).

The MixMatic M6004 mixes rubber granules with 1-component binder (polyurethane). In particular, certified (IAAF) high-performance sport facilities require constantly exact and homogeneous material mixtures during the installation process. The calibration and the operation of the machine can be carried out through the central control panel. Afterwards the mixer-run-time is switched on manually and will stop automatically. Flow rate sensors control the material supply to the mixing tube. The M6004 is equipped with a material container with a capacity of 1.000 l. An additional material container (gravel) with a capacity of 1.000 l or a PU-unit (Polyol) can be connected. In conjunction with a modular construction system of various screw feeders, pipes and feeding adapters it is possible to get a wide variety of individual mixtures with precisely measured ratios for many different kinds of surfaces, e.g. recycled granulate base mats. EPDM granulate surfaces, sandwich-systems, PUR-coatings, structural spraying coatings, elastic subbases and others.

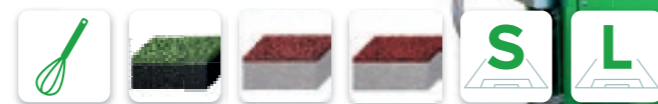
Art.-No. 6400105

Drive	3-phase current for granulate and grit drives; A.C. geared motor infinitely variable, electron. rpm	Drives pumps/mixer	3-phase current gear motor infinitely variable, electrical rpm-number
Power	Basic mixer: 12 kW (16.3 HP) / 400 V / 50 - 60 Hz / 22 A Gravel unit: 1.85 kW / 400 V / 50 - 60 Hz / 4.25 A 2nd dosage pump: 1.85 kW / 400 V / 50 - 60 Hz / 4.25 A	Power	7.5 kW (10.2 HP) / 400V / 50-60 Hz / 14 A
Performance	150 kg/min	Performance	65 kg/min
Weight	Basic mixer: 1,100 kg Gravel unit: 900 kg 2nd dosage pump: 350 kg	Weight	850 kg
Dimensions	Basic mixer: L 3,400 x W 1,100 x H 2,800 mm Gravel unit: L 2,250 x W 1,000 x H 1,800 mm 2nd dosage pump: L 1,100 x W 710 x H 700 mm	Dimensions	L 1,988 x W 808 x H 1,976 mm

Subject to technical alterations

MixMatic

M5300



Fully Automatic continuous mixer for two-component self-levelling PUR systems.

MixMatic M5300 is the best machine for mixing of high-quality liquid polymers for such synthetic sports surfaces as synthetic surfaces or sandwich systems. In particular, certified (IAAF) high-performance sport facilities require constantly exact and homogeneous material mixtures during the installation process. The M5300 consists of each two suction pumps as well as dosage pumps. During continuous operation frequency converters enable mixing ratios of up to 10:1. A special mixing tool mixes components A and B into a homogeneous self-levelling polyurethane coating. Flow rate sensors control the suction process. The calibration of the machine can be carried out through the central control panel. Afterwards the mixer is switched on and off manually by means of the manual control panel. An optional material container also permits adding granulate or granulate powder. The tank capacity is 100 litres. M5300 has an output of up to 65 kg.

Art.-No. 6400130

Drive	3-phase current for granulate and grit drives; A.C. geared motor infinitely variable, electron. rpm	Drives pumps/mixer	3-phase current gear motor infinitely variable, electrical rpm-number
Power	Basic mixer: 12 kW (16.3 HP) / 400 V / 50 - 60 Hz / 22 A Gravel unit: 1.85 kW / 400 V / 50 - 60 Hz / 4.25 A 2nd dosage pump: 1.85 kW / 400 V / 50 - 60 Hz / 4.25 A	Power	7.5 kW (10.2 HP) / 400V / 50-60 Hz / 14 A
Performance	150 kg/min	Performance	65 kg/min
Weight	Basic mixer: 1,100 kg Gravel unit: 900 kg 2nd dosage pump: 350 kg	Weight	850 kg
Dimensions	Basic mixer: L 3,400 x W 1,100 x H 2,800 mm Gravel unit: L 2,250 x W 1,000 x H 1,800 mm 2nd dosage pump: L 1,100 x W 710 x H 700 mm	Dimensions	L 1,988 x W 808 x H 1,976 mm

Subject to technical alterations

MixMatic

CONTINUOUS MIXER



M4000



M6008



M6004



M5300

Article Number	6228913	6400114	6400105	6400130
Mixing performance	600 kg/min	400 kg/min	150 kg/min	65 kg/min
Drive	Electric motor 23.8 kW / 400 V / 50 - 60 Hz / 63 A	Electric motor 23 kW (31.3 HP) / 400 V / 50-60 Hz	Electric motor 12 kW (16.3 HP) / 400 V / 50 - 60 Hz / 22 A	Electric motor 7.5 kW (10.2 HP) / 400V / 50-60 Hz / 14 A
Mixer drive	A.C. geared motor	A.C. geared motor	A.C. geared motor	A.C. geared motor
Electrical equipment	Compact control; with switch for changing the direction of turn	Compact control; with switch for changing the direction of turn	Compact control; with switch for changing the direction of turn	Compact control; with switch for changing the direction of turn
Weight	3,500 kg	1,600 kg	1,100 kg	850 kg
Dimensions	L 3,500 x W 2,300 x H 2,300 mm	L 3,500 x W 1,900 x H 2,850 mm	L 3,400 x W 1,100 x H 2,800 mm	L 1,988 x W 808 x H 1,976 mm

Subject to technical alterations



BATCH MIXER

FOR SYNTHETIC SPORTS SURFACES



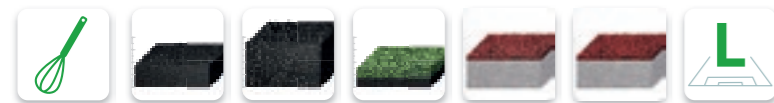
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Batch mixer for the mixing of material in track installation

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M1202	Batch mixer for binder, rubber granules and gravel; Options: charging vat, binder pump VoluMatic V40	P. 12
M250	Batch mixer for binder and rubber granules.	P. 16
M930	Automatic compulsory mixer for coating mixtures, filler and glue.	P. 17
M930S	Semi-Automatic compulsory mixer for coating mixtures, filler and glue.	P. 17

MixMatic

M2402D



Batch mixer for binder, rubber granules and gravel. Option: charging vat.

In comparison with the MixMatic M1202, extremely robust and large M2402 offers double mixing capacity and therefore is the rational solution for the instances when the quantity of mixed material needs to be increased to cover larger areas or to accomplish higher installation levels - for example, when installing medium to large sports or industrial surfaces. The MixMatic M2402 is also characterized by the same positive characteristics as M1202 model: the low filling height and strong lifting hydraulics also in this dimension for easier loading and emptying, as well as for accelerated, intensive mixing of the material.

Art.-No. 6400123

Performance	300 kg/2 min
Drive	M2402D: diesel engine 16.1 kW (21.9 PS)
Mixer drive	Hydraulic aggregate with tank, pump, oil cooler, control valve, main control block, level indicator with thermometer. Pump and oil cooler driven by the motor via twin V-belts, tank capacity 45 litres.
Electrical equipment	Compact control in a housing protected against spraying water; with switch for changing the direction of turn
Weight	1,100 kg
Dimensions	L 2,000 x W 1,590 x H 1,100 mm

Subject to technical alterations

MixMatic

M1202D



Batch mixer for binder, rubber granules and gravel.

Materials for sports surfaces, such as granulate, gravel, cork and PU-coating are homogeneously mixed by the MixMatic M1202. The M1202 is also ideal for industrial floors, e.g. for cement-bound floor screeds or epoxy resin floor coverings. The robust construction of the machines is designed to withstand the extremely tough conditions of non-stop work on job sites. Thus, the low filling lever for loading and the strong lifting hydraulics for the speedy discharging of the mixed material turn out to be key benefits. Extremely intensive mixing of the materials shortens mixing cycles. Using an extra charging vat (optional) can expedite the mixing process. The basic mixer lifting hydraulics facilitate the loading.

Art.-No. 6400077

Performance	150 kg/2 min
Drive	M1202 D: diesel engine 14.9 kW (20.2 HP) M1202 E: electric motor 8 kW (10.9 HP) / 400 V / 50 Hz / 15 A
Mixer drive	Hydraulic aggregate with tank, pump, oil cooler, control valve, main control block, level indicator with thermometer. Pump and oil cooler driven by the motor via twin V-belts, tank capacity 45 litres.
Electrical equipment	Compact control in a housing protected against spraying water; with switch for changing the direction of turn
Weight	M1202 D: 650 kg / M1202 E: 550 kg
Dimensions	L 2,300 x W 1,000 x H 1,100 mm

Subject to technical alterations



M2404D



M1202D

Batch mixer for binder and rubber granules.

A wide variety of materials in small quantities can be homogeneously mixed by the MixMatic M250. The compact mixing unit with petrol engine can save you a lot of storage space. Two wheelbarrows (supplied) used as mixing and transport container ensure a continuous and flexible flow of material.

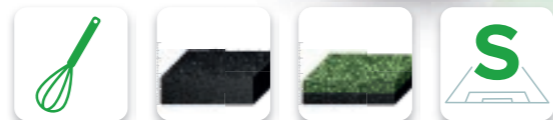
A hydraulic lifter swings the mixing head upwards. The wheelbarrow is then placed underneath the mixing unit. Afterwards the mixing unit needs to be lowered and thus the container is fixed in position. The mixing cycle starts and continues until it is switched off manually. During the mixing time of approx. 2 minutes the next mixture can be prepared in another wheelbarrow. Additional material can be safely added at any time through the filling lattice. Thus, a homogeneous mixture of all components is achieved in the shortest possible time.



Art.-No. 6400113

Drive	Petrol engine / 1-cylinder / 7.1 kW (9.6 HP)
Performance	90 kg/2 min
Mixer drive	Hydraulic aggregate with tank, pump, manual control valve, main control block, contents level display
Filling height	1,200 mm
Weight	350 kg
Dimensions	L 1,400 x W 900 x H 1,200 mm

Subject to technical alterations



MixMatic M2402D



MixMatic M1202D



MixMatic M250



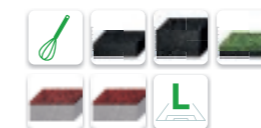
MixMatic M930



MixMatic M930S

Article Number	6400123	6400077	6400113	6400166	6229785
Performance	~ 300 kg/2 min	~ 150 kg/2 min	~ 90 kg/2 min	~ 60 kg/2 min	~ 23 kg/2 min
Drive	M2402 D diesel engine 14.9 kW (20.3 HP)	M1202 D: diesel engine 14.9 kW (20.2 HP) M1202 E: electric motor 8 kW (10.9 HP)	Petrol engine / 1-cylinder 7.1 kW (9.6 HP)	Electric motor 2.5 kW (3.4 HP) / 3 ph. / 400 V / 50 Hz / 5 A	Electric motor 0.75 kW (1.0 HP) / 3 Ph / 230 V / 50 Hz
Mixer drive	Hydraulic aggregate	Hydraulic aggregate	Hydraulic aggregate	Hydraulic aggregate	Hydraulic aggregate
Electrical equipment	Compact control; with switch for changing the direction of turn	Compact control; with switch for changing the direction of turn	-	Compact control; with switch for changing the direction of turn	Compact controller with timer
Weight	1,100 kg	M1202 D: 650 kg / M1202 E: 550 kg	350 kg	180 kg	195 kg
Dimensions	L 2,000 x W 1,590 x H 1,100 mm	L 2,300 x W 1,000 x H 1,100 mm	L 1,400 x W 900 x H 1,200 mm	L 1,050 x W 600 x H 1,000 mm	L 1,170 x W 1,050 x H 1,200 mm

Subject to technical alterations



PAVERS

FOR SYNTHETIC SPORTS SURFACES

PlanoMatic

SERIES

CONTENTS

Fully automatic series

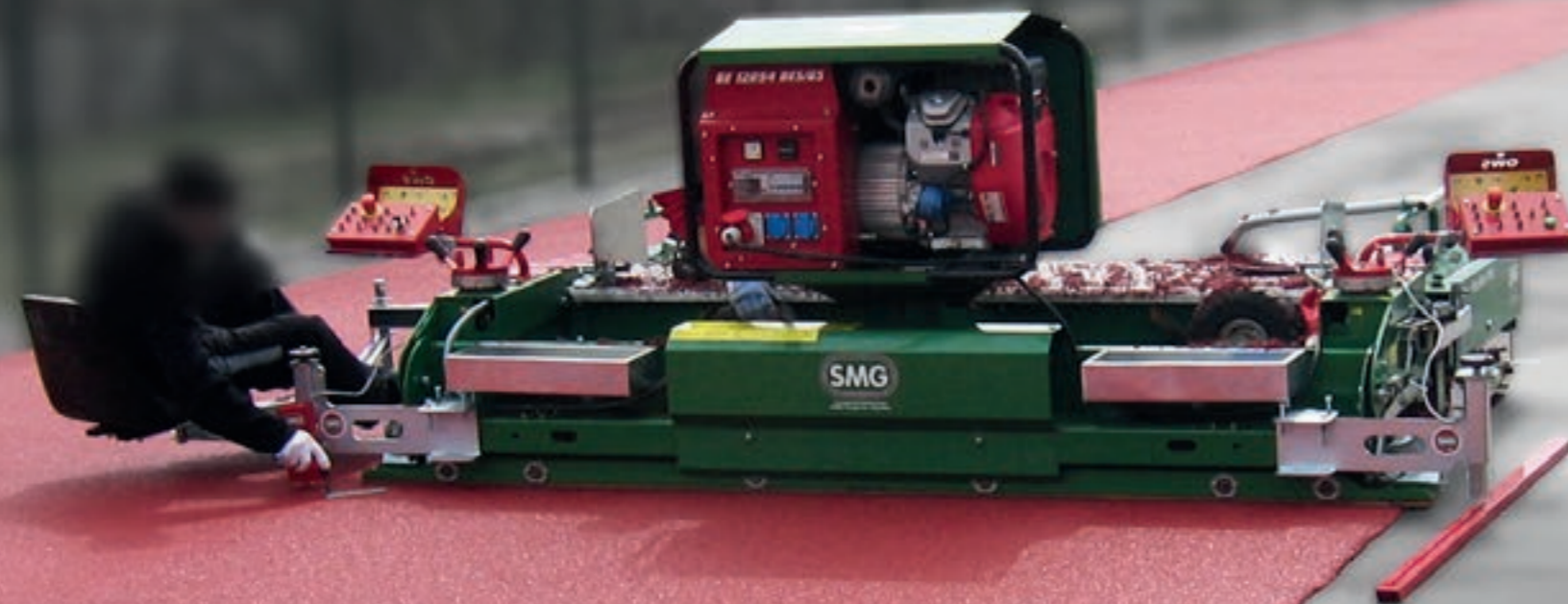
P936	Fully automatic paver for elastic layers, elastic subbases and athletic tracks.	P. 28
P928	Fully automatic paver for elastic layers, elastic subbases, athletic tracks and multipurpose sports surfaces.	P. 20
P703	Fully automatic paver for athletic tracks and multipurpose sports surfaces.	P. 20
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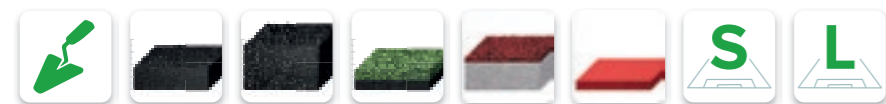
Industrial floor

P435	Fully automatic paver for bonded screed.	P. 30
P102	Semi-automatic paver for bonded screed.	P. 30



PlanoMatic

P928



Fully automatic paver for elastic layers, elastic subbases, athletic tracks and multipurpose sports surfaces.

The PlanoMatic P928 is a fully automatic paver. With continuously variable speeds of 0.8 - 4.5 m/min it provides a theoretical performance of up to 730 m²/h. Individually adjustable width of up to 2,700 mm makes it ideal for athletic running tracks and school sports facilities. P928 is equipped with an automatic curve control for running tracks and a hydraulic controlled undercarriage. P928 can come with an optional automatic levelling device (sensor/tactile unit) for smooth installation. Paving thickness settings of 6 - 50 mm can be easily changed by pressing a button located on both sides of the control panel.

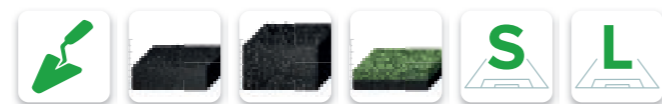
Art.-No. 6400108

Working width	up to 2,700 mm
Area performance	up to 730 m ² /h
Chain drive	with standard chains 153 x 50 mm with special chains 140 x 15 mm (optional)
Traction drive	2 infinitely variable A.C. gear motors / speed of forward movement c. 0.8 m/min. to 4.5 m/min.
Power	6.5 kW (8.8 HP) / 3 ph. / 400 V / 50 - 60 Hz / 12 A
Weight	950 kg (without optional accessories)
Dimensions	L 2,800 x W 2,000 x H 700 mm

Subject to technical alterations

PlanoMatic

P703



Fully automatic paver for athletic tracks and multipurpose sports surfaces.

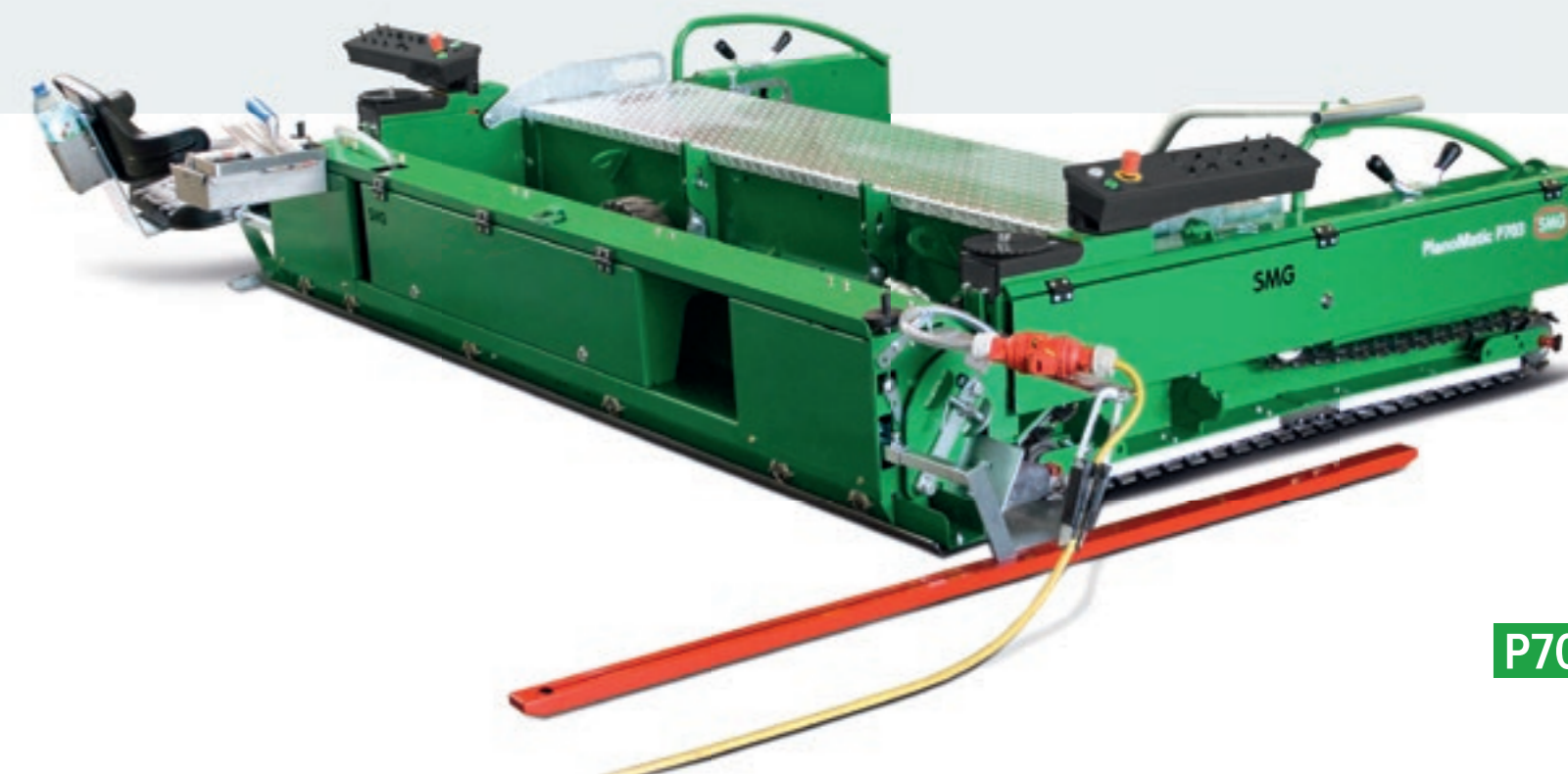
The PlanoMatic P703 is a new edition of the PlanoMatic series P700/P702. It is a fully automatic paver with a screed width of 2,800 mm enabling installation widths of maximum 2,700 mm. The highest installation speed is 4.5 metres per minute, thus providing a theoretical performance of approx. 730 m²/h. P703 is designed specifically for the professional installation of athletic running tracks. With a weight of 895 kg and a narrow chain drive unit of 80 mm, the machine is easy to manoeuvre. The installation widths can be selected individually; thicknesses are adjustable from 6 to 50 mm. An integrated automatic levelling device supports the even installation.

Art.-No. 6400159

Working width	up to 2,700 mm
Area performance	up to 730 m ² /h
Chain drive	with standard chains 80 x 40 mm
Traction drive	2 A.C. gear motors (steered by frequency converter) / max. 4.5 m/min.
Power	6.5 kW (8.8 HP) / 3 ph. / 400 V / 50 - 60 Hz / 12 A
Weight	895 kg
Dimensions	L 3,450 x W 2,800 x H 670 mm

Subject to technical alterations

P928



P703

PlanoMatic

P828

Fully automatic paver for elastic layers, elastic subbases, athletic tracks and multipurpose sports surfaces.

Working width up to 2,700 mm (variable), area performance up to 890 m²/h.

The PlanoMatic P828 is a fully automatic paver of the latest generation. The perfect fully electric symbiosis of the P928 and P703 pavers. The screed provides a theoretical performance of up to 890 m²/h with continuously variable speeds of 0,8 – 5,5 m/min and a variable stroke frequency having a constant installation quality.

The PlanoMatic P828 is equipped with a software control system. Sensors are monitoring the operating conditions of driving speed, screed grade/temperature and bearing pressure of the drive technology. All process data can be seen, adjusted and transferred together with geographical data via an integrated GPS modul. The machine supervision supported by IOT (optional) enables remote maintenance as well as the control of the service processes.

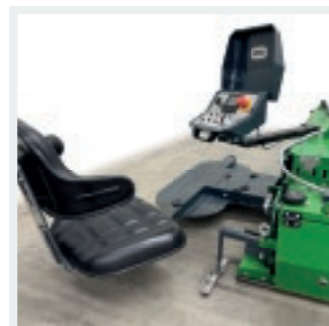
The P828 is equipped with an automatic curve control for running tracks, an automatic levelling device (sensor/tactile unit) and a variable adjustable screed grade enabling a smooth and uniform installation quality. The material consumption can be determined predictively via the sensor network. Differences in the installation process can be avoided preventively.

The heating elements of the screed can be added sideways and changed comfortably if necessary. The delimiters are placed outside of the screed thus enabling exact installation edges for jointless sports surfaces using in-situ construction methods. Swivelling and height-adjustable material deflectors ensure optimal material flow as well as constant material loads over the complete screed installation width. Adjustable guard plates protect the chain drive unit from material entry.

Art.-No. 6234951

Working width	2,700 mm (variabel)
Area performance	up to 890 m ² /h
Traction drive	feed rate approx. 1.8 m/min to 5 m/min
Power	400 V, 26.9 A, 7.22 kW, 50 Hz – Connection 32 A CEE
Weight	1,300 kg
Dimensions	L 2,150 x W 2,800 x H 1,000 mm

Subject to technical alterations



COMFORTABLE: Adjustable operator seat and control panel with digital display.



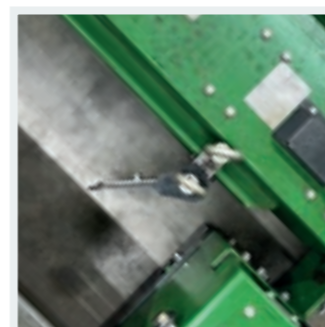
AUTOMATIZATION: Improved material guide to reduce manual shoveling.



PRECISION: Electric spindles on the screed bar with sensors and scale.



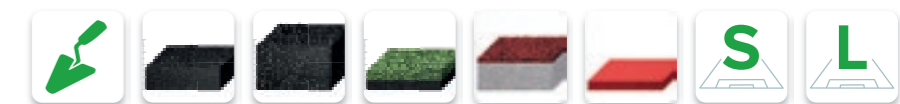
DIGITALIZATION: Control Panel with Display for IOT GPS usage.



PROCESS SECURITY: Adjustable material guide to supply material to the full width.

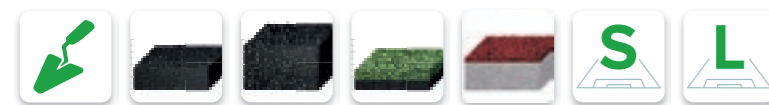


INSTALLATION QUALITY: Integrated height levelling for evenly flat installation and optional wider slide bar.



PlanoMatic

P227



Semi-automatic paver for athletic tracks and multipurpose sports surfaces.

The PlanoMatic P227 for athletic tracks is the easiest of all SMG pavers considering handling. On the basis of the proven, fully automatic model P703, the P227 convinces due to a working width of 2.700 mm and the intentional reduction to the most important features.

The variable adjustable installation speed is max. 4.5 m/min, thus providing a theoretical performance of approx. 730 m²/h. The machine is easy to manoeuvre with a weight of 830 kg and equipped with driving chains of 80 mm width.

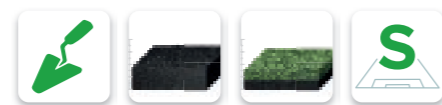
Art.-No. 6400274

Working width	up to 2,700 mm (variable)
Area performance	up to 730 m ² /h
Chain drive	with standard chains 80 x 40 mm
Traction drive	2 A.C. gear motors (steered by frequency converter) / max. 4.5 m/min.
Power	6 kW (8.2 HP) / 3 ph. / 400 V / 50 - 60 Hz / 11 A
Weight	830 kg
Dimensions	L 3,450 x W 2,440 x H 820 mm

Subject to technical alterations

PlanoMatic

P211



Semi-automatic paver for multipurpose sports surfaces, playgrounds, runways and jogging tracks.

P211 is driven by an electrical gear motor, and thanks to the frequency converters, its paving speed is variably adjustable. The steering drawbar is equipped with operating elements for driving and the oscillation of the screed. Lateral pressure on the steering drawbar determines the direction of travel of the machine.

The compaction of the material as well as the installation thickness can be changed manually. Therefore, this lightweight machine can easily be operated by one person.

Art.-No. 6400033

Working width	up to 1,100 mm (variable)
Area performance	up to 290 m ² /h
Chain drive	with standard chains 80 x 40 mm
Traction drive	Electric motor with frequency converter for variable speed from approx. 0.8 m/min to 4.5 m/min
Power	3 kW (4.1 HP) / 3 ph. / 400 V / 50 - 60 Hz / 5,5 A
Weight	410 kg
Dimensions	L 1,890 x W 2,680 x H 740 mm

Subject to technical alterations

P227



P211

PlanoMatic

P208

Semi-automatic paver for multi sports surfaces and design flooring.

Working width up to 650 mm (variable),
area performance up to 195 m²/h.

The semi-automatic paver PlanoMatic P208 is capable of a theoretical area performance of up to 195 m²/h. The installation width of 650 mm makes it the ideal solution for small areas.

The installation speed is set directly on the gear motor. The operating temperature of the screed can be regulated by using a temperature regulator. The compaction degree of the material to be paved as well as the paving thickness can be adjusted using handwheels. Installation thicknesses of 5 – 12 mm are possible.

With a weight of 200 kg and a width of just 900 mm, the P208 can be easily operated by just one person using a steering drawbar and maneuvered through doors or elevators. This makes it easy to reach even hard-to-reach or narrow spaces.

Art.-No. 6239864

Working width	650 mm (variable)
Area performance	up to 195 m ² /h
Traction drive	feed rate approx. 1.8 m/min to 5 m/min
Power	1.62 kW (2.2 HP) / 230 V / 50 Hz / 7.05 A
Weight	200 kg
Dimensions	L 1,100 x W 890 x H 1,100 mm

Subject to technical alterations



SIMPLE: Central control panel including all operating functions.



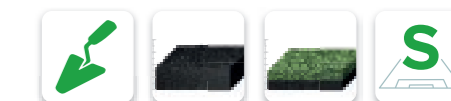
PROCESS SAFETY: Adjusted and constant material flow.



PRECISION: Spindles to adjust installation height and compaction.



TRACTION: Robust drive wheels.





PlanoMatic P936



PlanoMatic P928



PlanoMatic P703



PlanoMatic P828



PlanoMatic P227



PlanoMatic P218



PlanoMatic P215



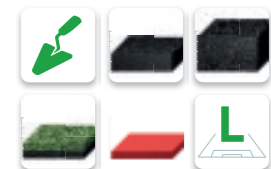
PlanoMatic P211



PlanoMatic P208

Article Number	6400117	6400108	6400159	6234951	6400274	6219543	6211491	6400033	6239864
Technical details									
Working width	up to 3,600 mm (variable)	up to 2,700 mm (variable)	up to 2,700 mm (variable)	up to 2,700 mm (variable)	up to 2,700 mm	up to 1,800 mm	up to 1,500 mm	up to 1,100 mm	650 mm (variable)
Area performance	970 m ² /h	up to 730 m ² /h	730 m ² /h	890 m ² /h	730 m ² /h	up to 490 m ² /h	400 m ² /h	290 m ² /h	195m ² /h
Chain drive	with standard chains 153 x 50 mm with special chains 140 x 15 mm (optional)	with standard chains 153 x 50 mm with special chains 140 x 15 mm (optional)	with standard chains 80 x 40 mm	with standard chains 80 x 40 mm	with standard chains 80 x 40 mm	with standard chains 80 x 40 mm	with standard chains 80 x 40 mm	with standard chains 80 x 40 mm	drive wheels
Traction drive	2 infinitely variable A.C. gear motors / speed of forward; movement c. 0.8 m/min. to 4.5 m/min.	2 infinitely variable A.C. gear motors / speed of forward movement c. 0.8 m/min. to 4.5 m/min.	2 A.C. gear motors (steered by frequency converter) / max. 4.5 m/min.	2 A.C. gear motors (steered by frequency converter) / 1.8 m/min to 5 m/min	2 A.C. gear motors (steered by frequency converter) / max. 4.5 m/min.	2 A.C. gear motors (steered by frequency converter) / max. 4.5 m/min.	Electric motor with frequency converter for variable speed from approx. 0.8 m/min to 4.5 m/min	Electric motor with frequency converter for variable speed from approx. 0.8 m/min to 4.5 m/min	Electric motor with frequency converter for variable speed from approx. 1.8 m/min to 5 m/min
Power	6.5 kW (8.8 HP) / 3 ph. / 400 V / 50 - 60 Hz / 12 A	6.5 kW (8.8 HP) / 3 ph. / 400 V / 50 - 60 Hz / 12 A	6.5 kW (8.8 HP) / 3 ph. / 400 V / 50 - 60 Hz / 12 A	400 V, 26.9 A, 7.22 kW, 50 Hz – Connection 32 A CEE	6 kW (8.2 HP) / 3 ph. / 400 V / 50 - 60 Hz / 11 A	6 kW (8.2 HP) / 3 ph. / 400 V / 50 - 60 Hz / 11 A	3.5 kW (4.8 HP) / 3 ph. / 400 V / 50-60 Hz / 6.5 A	3 kW (4.1 HP) / 3 ph. / 400 V / 50 - 60 Hz / 5.5 A	1.62 kW (2.2 HP) / 230 V / 50 Hz / 7.05 A
Weight	1,100 kg (without optional accessories)	950 kg (without optional accessories)	895 kg	1,300kg	830 kg	702 kg	460 kg	410 kg	200 kg
Dimensions	L 3,700 x W 2,000 x H 700 mm	L 2,800 x W 2,000 x H 700 mm	L 2,410 x W 3,450 x H 670 mm	L 2,150 x W 2,800 x H 1,000 mm	L 3,450 x W 2,440 x H 820 mm	L 2,640 x W 2,440 x H 820 mm	L 2,356 x W 2,680 x H 740 mm	L 1,890 x W 2,680 x H 740 mm	L 1,100 x W 890 x H 1,100 mm
Equipment									
Steering panel	two	two	two	two	one	one	Steering drawbar	Steering drawbar	Steering drawbar
Installation thickness	electro-hydraulic (levelling optional)	electro-hydraulic (levelling optional)	electro-hydraulic (levelling integrated)	electro-hydraulic (levelling integrated)	manually (hand wheels)	manually (hand wheels)	manually (hand wheels)	manually (hand wheels)	manually (hand wheels)

Subject to technical alterations



PlanoMatic

P436



Fully automatic paver for bonded screed.

PlanoMatic P436 has been developed for the professional and efficiency-oriented installation of bonded screeds. Providing a working width of 3,500 mm, P436 is capable of paving up to 950 m²/h. Therefore the machine enables feed speeds of 1.0 to 4.5 m/min. Star-shaped drive wheels guarantee best traction. A connected upstream material manifold makes the manual moving of the material unnecessary. Subsequently the paddle shaft in front of the screed ensures an equal compaction. The screed can be adjusted in its slope and hence adjusted to all conditions – always assuring an optimal surface finish.

For a planar installation either a laser control or a tactile unit can be mounted. An optional petrol generator provides the necessary power for the P436 and makes the machine independent from external power sources. The PlanoMatic P436 is controlled conveniently from the control panel.

Art.-No. 6218685

Working width	3,500 mm
Area performance	max. 950 m ² /h
Traction drive	Electric motor infinitely variable by frequency inverter, for variable speed approx. 1.0 up to 4.5 m/min
Power	6.2 kW (8.4 HP) / 400 V / 50 - 60 Hz / 12 A
Weight	1,550 kg
Dimensions	L 3,700 x W 1,605 x H 1,100 mm

Subject to technical alterations

PlanoMatic

P102



Semi-automatic paver for bonded screed.

The PlanoMatic P102 is tailored to all requirements of industrial screed installation. Thanks to its high area performance and easy handling, the machine reduces personnel and effort requirements.

With controllable speeds of approx. 0.8 m/min to 1.6 m/min, the PlanoMatic P102 quickly and evenly compacts and levels any industrial floor mortar in one operation. The thickness of the installed material can be adjusted precisely to the local conditions using a handwheel. It can also be deducted via teachings. Seamlessly pre-laid and compacted coverings make smoothing the screed easier with their even surface structure.

Leveling with the laser receiver ensures that all kinds of screeds are installed absolutely flat.

Art.-No. 6400181

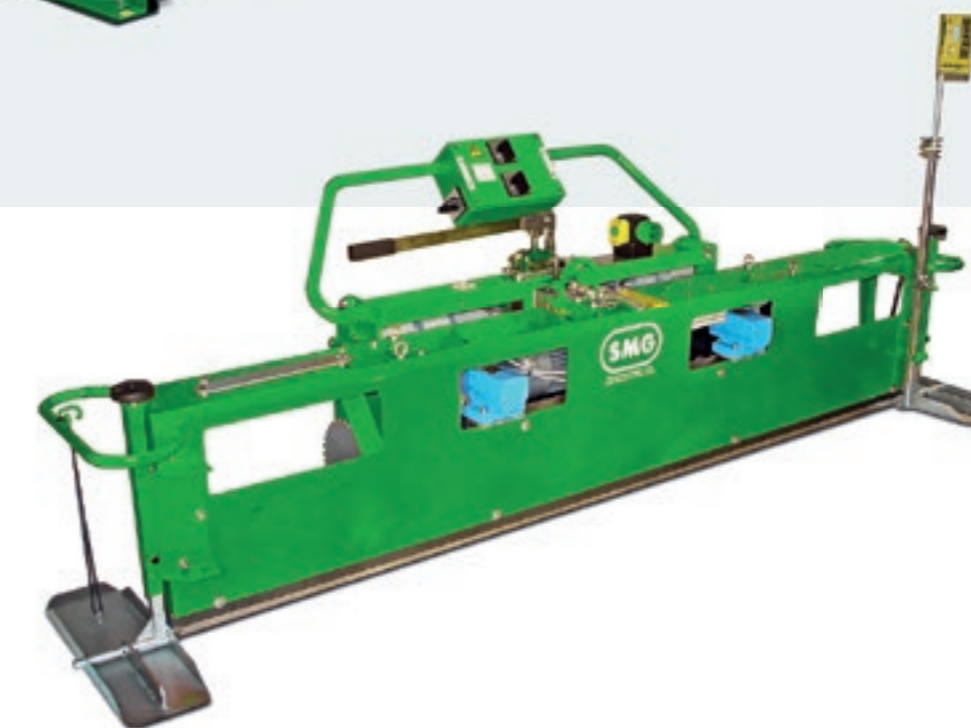
Working width	approx. 2,400 mm
Area performance	max. 230 m ² /h
Traction drive	Electro-mechanical with 2-stage gear motor for variable speed approx. 0.8 m/min to 1.6 m/min forward and backward
Power	2 kW (2.7 HP) / 400 V / 4 A
Weight	250 kg
Dimensions	L 2,800 x W 1,000 x H 900 mm

Subject to technical alterations

P436



Laser receiver (optional)



P102

APPLYING/STRIPING OF SYNTHETIC SPORTS SURFACES



CONTENTS

StrukturMatic series

S122D	Spraying machine for structured spray coatings and primer. Performance 15 kg/min	P. 34
S80B	Spraying machine for structured spray coatings and primer. Performance 14 kg/min	P. 36

GranuMatic

G402	Granules blower to broadcast rubber on polyurethane coatings.	P. 38
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LineStar series

LS1	Pocket-stripping machine for synthetic sports surfaces and artificial turf. Airless, battery-powered, 2 transport trolley 23 + 29 kg	P. 40
LS15	Striping machine for synthetic sports surfaces and artificial turf. Compressor, petrol engine	P. 40

StrukturMatic

S122D

Spraying machine for structured spray coatings and primer. Performance 15 kg/min.

StrukturMatic S122 is able to apply all structural spray coatings, solvent-based, solvent-free and water-based PU-dispersions used in the sports surfaces construction industry. The machine is robustly constructed, extremely agile and easy to manoeuvre. With its swivelling, articulated bracket for the long spray hose it has an impressive action radius.

TurboSpray TS30 spraying pistol, with different material nozzles, is well-suited to handle thick, very compact and coarse-grained materials. Controllable pump pressure and adjustable air quantity reduce the spray vapour and produce a homogeneous spray finish at highest performance. Material throughput: 15 kg/min.

All control elements are ergonomically positioned and easy to operate. Control valves, pressure control and pressure valve are also easily accessible.

S122 D Art.-No. 6400090 / S122 E Art.-No. 6400140

Spraying performance	15 kg/min.
Feeding pump	Electro-hydraulic at the TurboSpray TS30
Main drive	S122D: diesel engine 14.9 kW / 20.3 HP S122E: electric motor 7.5 kW / 10.2 HP
Drive	Hydraulic aggregate with tank, pump, control valve, main control block; pump and compressor driven by motor via double V-belts; hydraulic tank capacity 10 litres.
Weight	S122D: 550 kg S122E: 500 kg
Dimensions	L 1,900 x W 950 x H 1,100 mm

Subject to technical alterations



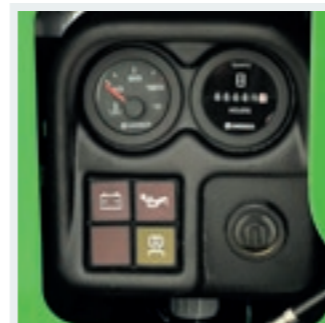
HIGH PERFORMANCE COOLER: Kubota diesel engine with combination cooler for engine and hydraulic oil temperature.



PROTECTED: Steering elements integrated in the chassis.



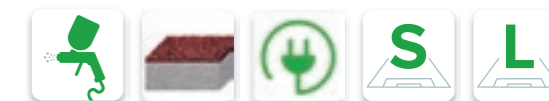
TRUSTED: Material container and mixing paddle for homogenous spray finish.



RELIABLE: Kubota Control Box.



TURBOSPRAY TS30: The spraying pistol TurboSpray TS30 with its different material and air nozzles is well-suited to handle thick, very compact and coarse-grained materials. With high performance (approx. 15 kg/min) and precise handling it produces a homogeneous spray finish.



StrukturMatic

S122D



Spraying machine for structured spray coatings and primer.
Performance 15 kg/min.

StrukturMatic S122 is able to apply all structural spray coatings, solvent-based, solvent-free and water-based PU-dispersions used in the sports surfaces construction industry. The machine is robustly constructed, extremely agile and easy to manoeuvre. With its swivelling, articulated bracket for the long spray hose it has an impressive action radius.

S122 D Art.-No. 6400090 / S122 E Art.-No. 6400140

Spraying performance	15 kg/min.
Feeding pump	Electro-hydraulic at the TurboSpray TS30
Main drive	S122D: diesel engine 14.9 kW / 20.3 HP S122E: electric motor 7.5 kW / 10.2 HP
Drive	Hydraulic aggregate with tank, pump, control valve, main control block; pump and compressor driven by motor via double V-belts; hydraulic tank capacity 10 litres.
Weight	S122D: 550 kg S122E: 500 kg
Dimensions	L 1,900 x W 950 x H 1,100 mm

Subject to technical alterations

StrukturMatic

S80B



Spraying machine for structured spray coatings and primer.
Performance 12 kg/min.

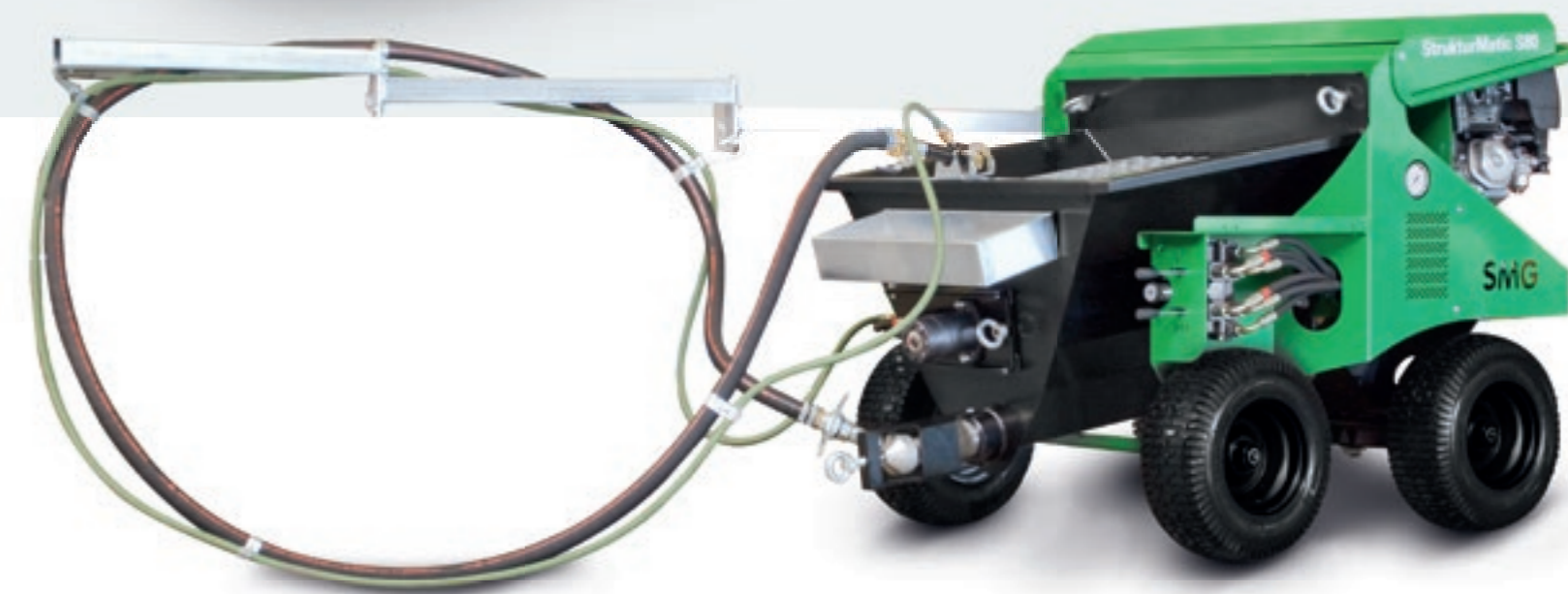
The StrukturMatic S80 is based on the well-established technology of the SMG StrukturMatic collection. Being the compact version of the S122, the S80 is an ideal replenishment for professional structural coatings on synthetic sports surfaces.

S80 B Art.-No. 6400035 / S80 E Art.-No. 6400162

Spraying performance	12 kg/min.
Feeding pump	Manual at the steering valve
Main drive	S80B: petrol engine 8.2 kW (11.1 HP) S80E: electric motor 7.5 kW (10.9 HP) / 400 V / 15 A
Drive	Hydraulic aggregate with tank, pump, control valve, control block; pump and compressor driven by motor via double V-belts; hydraulic tank capacity 8 litres.
Weight	S80B: 350 kg S80E: 380 kg
Dimensions	L 2,500 x W 2,000 x H 1,200 mm

Subject to technical alterations

S122D



S80B

GranuMatic

G402

Granules blower to broadcast rubber on polyurethane coatings.

For a perfect surface with secure coverage of the coating material, an even application layer and a sufficient quantity of granulate are absolutely essential. The special challenge faced during the careful spreading required for the installation of a running track is to provide large granulate throw widths with a high degree of accuracy. This activity is usually labour intensive and is carried out by hand, using shovels. The GranuMatic makes this work much easier.

With this spreader tube, the granulate can be scattered in precisely measured quantities in a radius of up to 12 metres. The delivery capacity is approx. 50 to 75 kg/min, depending on the specification of the granulate. The capacity of the material container is approx. 200 litres and it therefore serves as a buffer and feed container during the work operation.

Art.-No. 8100016

Drive	Diesel engine 14.9 kW (20.2 HP)
Scattering width	max. 12 metres
Performance	50 - 75 kg/min
Weight	550 kg
Dimensions	L 2,410 x W 1,140 x H 1,350 mm

Subject to technical alterations



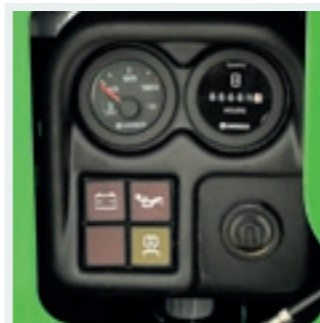
CONTINUOUS: Material hopper with a capacity of 200 kg to ensure constant material supply.



PRECISION: Powerful rotary blower for a throwing distance of up to 12 metres.



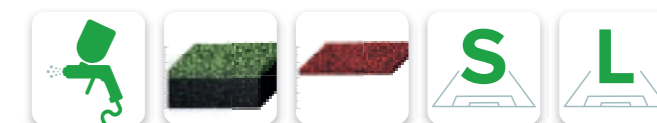
RELIABLE: Kubota Control Box.



QUALITY: Granulate spreader tube with diffuser flap for homogenous broadcasting.



PROTECTED: Steering elements integrated in the chassis.



LineStar

LS1



Pocket-striping machine for synthetic sports surfaces and artificial turf.

LineStar LS1 sprays 50 - 120 mm lines and markings on sports surfaces. Its airless pump operates on a commercially available 12V vehicle battery (not in the scope of delivery). The device is capable of utilizing the colour directly from the original container. The battery duration is up to 5 hours; then it can be recharged or replaced. Propelled self-cleaning outer discs made of spring steel produce most precise lines with no overspray. The pump components and the gun unit are large series products used worldwide. LS1 extremely compact and lightweight and can be transported in two special roller suitcases that weigh 29 kg and 23 kg. That way its weight does not exceed the general transport terms and conditions of the airlines, and its contents is not considered as dangerous goods. That way LS1 is the perfect companion for a professional lining machine operator.

Art.-No. 6214790

Drive	Electric motor / 0.55 kW / 12 V / 63 Ah
Duration/Range	5 h
Working pressure range	70 – 200 bar
Flow Rate	1.0 l/min
Weight	28 kg
Dimensions	L 720 x W 420 x H 580 mm
Transport box	Suitcase 1: 700 x 500 x 700 mm / Suitcase 2: 700 x 500 x 400 mm
Transport weight	Suitcase 1: 12 kg (29 kg brutto) / Suitcase 2: 15 kg (23 kg brutto)

Technische Änderungen vorbehalten

LineStar

LS15



Striping machine for synthetic sports surfaces and artificial turf.

Striping and marking of sports surfaces require special accuracy and therefore high precision during application. In the majority of cases, national and international standards must be complied with. The concept and function of the LineStar LS15 are optimised to meet these strict requirements. When used with professional expertise, this striping machine is capable of achieving the highest standard. Its powerful drive motor coupled to the compressor generates the compressed air required to power all functions. The pressure container for the line marking paint delivers the required quantity directly to the precision spray gun. All adjustments necessary for precise application of the paint can be made there. With the help of LS15, line widths of 4 to 15 cm can be produced with line-marking paints, exactly as required. All functions for handling the machine are arranged at the machine steering handlebar and are very easy to control. It is very easy to use and therefore significantly reduces the work load of the operator. On athletics tracks, smooth running is ensured through solid-rubber tires with precision bearings. To provide exact guidance for striping on artificial turf, an optional star wheel can be supplied.

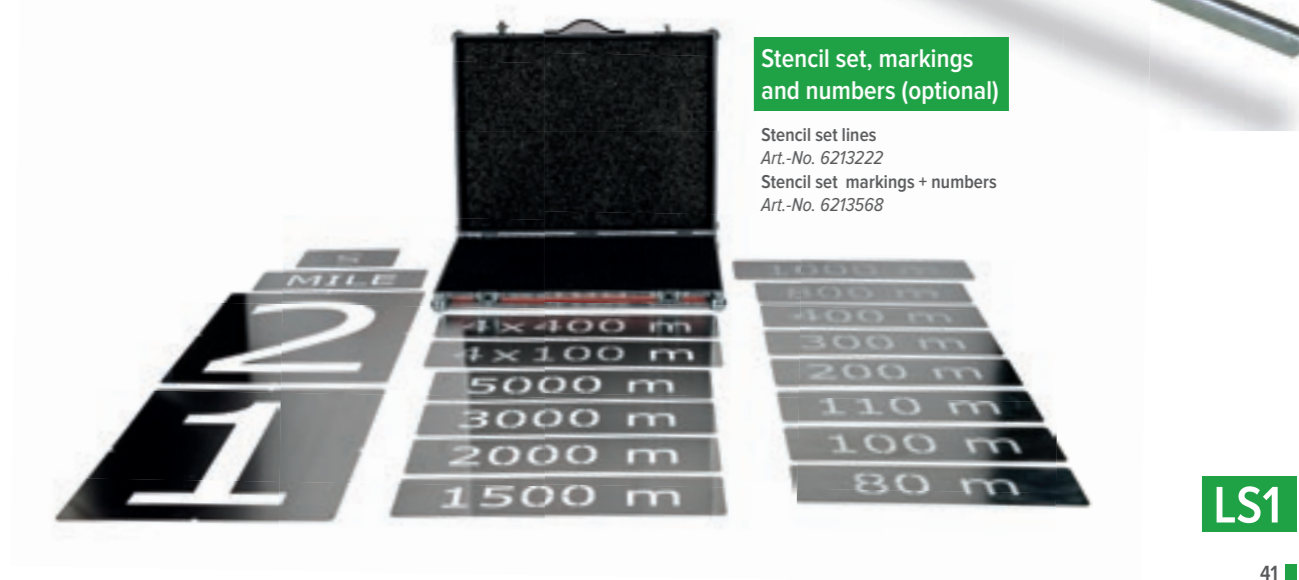
Art.-No. 6400137

Drive	Petrol engine, 4 kW (5.4 HP) at 4,000 rpm
Duration/Range	5 h
Working pressure range	70 – 200 bar
Flow Rate	1.0 l/min
Weight	140 kg
Dimensions	L 1,040 x W 473 x H 880 mm
Transport box	L 1,160 x W 670 x H 1,080 mm
Transport weight	150 kg

Subject to technical alterations



LS15

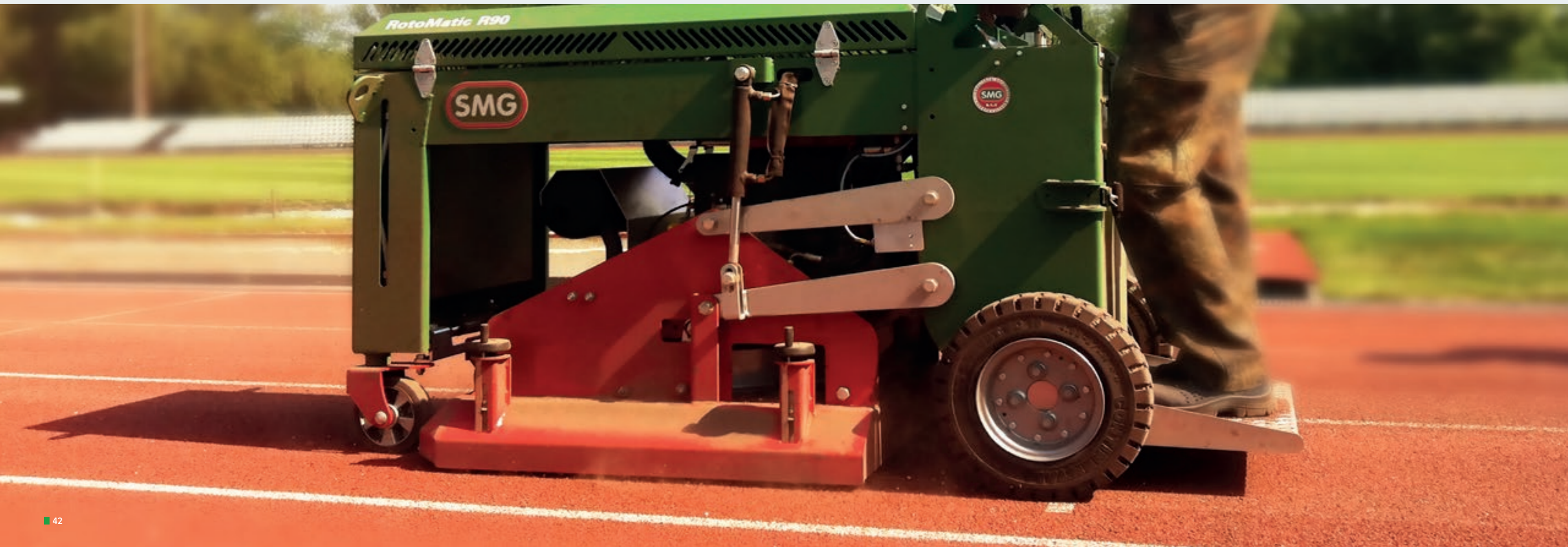


Stencil set, markings and numbers (optional)

Stencil set lines
Art.-No. 6213222
Stencil set markings + numbers
Art.-No. 6213568

LS1

RECLAMATION OF SYNTHETIC SPORTS SURFACES



CONTENTS

RauMatic

R400	Milling machine for synthetic sports surfaces. Removal depth max. 10 mm.	P. 44
R125	Milling machine for synthetic sports surfaces. Removal depth max. 5 mm.	P. 44

RotoMatic series

R90	Grinding machine for synthetic sports surfaces. Removal depth max. 2 mm; working width 900 mm	P. 46
R58	Grinding machine for synthetic sports surfaces. Removal depth max. 2 mm; working width 300 mm	P. 46

WashMatic

WM800	Ride-on machine for the cleaning of synthetic sports surfaces by high pressure water	P. 48
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ClearMatic

CM1800	Mobile plant for the treatment, filtration and sludge dewatering of dirty water when cleaning synthetic sports surfaces.	P. 50
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RauMatic

R400



**Milling machine for synthetic sports surfaces.
Removal depth max. 10 mm.**

The renovation of sports surfaces through abrasion of the surface layer and subsequent re-coating is becoming ever more important as an alternative to a complete new installation. Reason being that it cuts down the cost to a great extent and saves considerable amount of materials. The original thickness and the technical characteristics of the rubber will remain the same. The RauMatic R400 is a milling machine for milling of the surface coating from elastic PU sports surfaces.

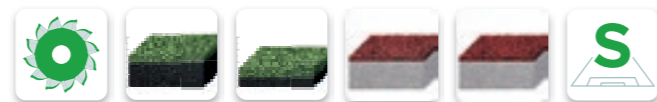
Art.-No. 6230346

Working width	400 mm
Material removal (milling depth)	10 mm
Area performance	440 m ² /h (4 mm milling depth)
Drive	water-cooled 4-cylinder diesel engine 100 kW (135.9 HP)
Weight	2,055 kg
Dimensions	L 2,855 x W 1,635 x H 1,670 mm

Subject to technical alterations

RauMatic

R125



**Manually operated milling-/cutting machine
for synthetic sports surfaces.
Removal depth max. 5 mm.**

The RauMatic R125 is a manually operated milling machine for precise (exactly to the curb stone) and efficient milling work on tracks and multipurpose playgrounds. 9 single milling discs enable different milling wide of 15/30/45 mm - 135 mm. The milling depth of the R125 is infinitely variable from 0 - 5 mm.

Art.-No. 6230346

Working width	15/30/45 mm – 135 mm
Material removal (milling depth)	0 - 5 mm
Area performance	–
Drive	4-stroke petrol engine 8.7 kW (11.8 HP)
Weight	170 kg
Dimensions	L 1,150 x W 790 x H 1,205 mm

Subject to technical alterations



R400



R125

RotoMatic

R90



Grinding machine for synthetic sports surfaces.
Removal depth max. 2 mm; working width 900 mm

The RotoMatic R90 belongs to the second generation of the SMG grinders. It is generally used to grind up synthetic sports surfaces, especially structural coatings and prefabricated structural coverings of surfaces needing renovation.

Art.-No. 6400211

Working width	900 mm
Material removal (grinding depth)	1 - 2 mm in a single operation
Area performance	160 m ² /h, dependent of type of surface and grinding removal and ambient air temperature
Drive	petrol engine 26 kW (35.3 HP) Electro-hydraulic drive unit
Weight	650 kg
Dimensions	L 2,000 x W 900 x H 1,250 mm

Subject to technical alterations

RotoMatic

R58



Grinding machine for synthetic sports surfaces.
Removal depth max. 2 mm; working width 300 mm

RotoMatic R58 is ideal for grinding of elastic synthetic sports surfaces. Its compact structure is particularly effective for small areas, boundary zones, alongside curbstones and for projecting boundary lines.

Art.-No. 6400146

Working width	300 mm
Material removal (grinding depth)	1 - 2 mm in a single operation
Area performance	70 m ² /h, dependent of type of surface and grinding removal and ambient air temperature
Drive	1-cylinder petrol engine 7.6 kW (10.3 HP)
Weight	72 kg
Dimensions	L 800 x W 400 x H 450 mm

Subject to technical alterations



R90



R58

WashMatic

WM800

Ride-on machine for the cleaning of synthetic sports surfaces by high pressure water.

The WashMatic is powered by a 18.2 kW / 24.7 HP water-cooled diesel engine. The front attachment cleans synthetic sports surfaces, e.g. nonfilled artificial grass, jogging tracks, multi-purpose playing fields or similar surfaces by high pressure water. The spray pressure can be adjusted up to 120 bar. The patent-pending front attachment gently cleans the sports surface with eight rotating high-pressure nozzles arranged at an angle.

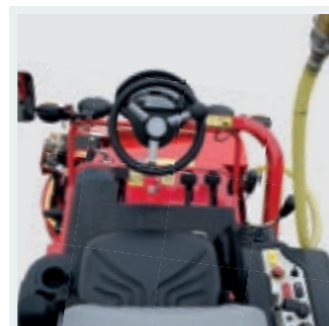
The applied water and organic contamination as well as granulate/fibre abrasion (microplastics) are suctioned off the sports surface with high efficiency using the fast rotating blades of the WashMatic and conveyed to a waste water pump. The water requirement per minute is 50 liters and is usually provided by the water supply of the sports facility. If the required amount of water is not available, the 300 liter water tank with integrated overflow valve can be used as a water buffer. In this case, an external water pump requests the fresh water from the intermediate tank to the machine.

The dirty water is discharged via a drain hose. The working width of the WM800 is 800 mm; 200 - 250 m² can be cleaned per hour. The 300 liter water tank, external pump and hoses are placed on a compact trolley. This can be easily lowered by a electric winch over the ramp and positioned as needed. The scope of delivery includes 2 hoses (each 75 m) and 1 hose (10 m) for working on edge areas with the hand lance.

Art.-No. 6232505

Drive	Diesel engine, water-cooled / 18.2 kW (24.7 HP)
Water pressure	up to 120 bar
Working width	800 mm
Area performance	200 - 250 m ² /hour
Weight	1,600 kg
Dimensions	L 3,550 x W 1,300 x H 2,300 mm

Subject to technical alterations



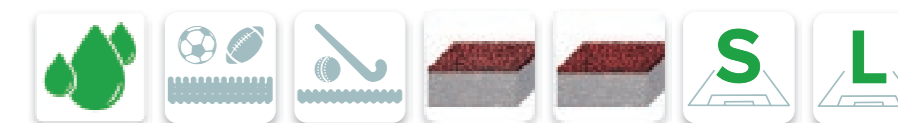
EASY HANDLING: Controls and EcoBoost Drive, clearly arranged for intuitive handling.



PRECISE: Front attachment with rotating spray lance, manometer and valve to adjust spray pressure.



INDIVIDUAL: Ramp with winch for trolley with 300 litre intermediate tank, water pump and 2x 75 mtr. hoses.



ClearMatic

CM1800

Mobile plant for the treatment, filtration and sludge de-watering of dirty water when cleaning synthetic sports surfaces.

When cleaning synthetic sports surfaces, a large number of contaminants are released, which can get into the environment via the waste water. These include larger particles such as granulate/fibre abrasions (micro-plastics) and other undesirable substances from deep-seated soiling. The WashMatic WM800 effectively removes this dirt from nonfilled artificial turf, jogging tracks, multi-purpose playing fields or similar surfaces. The cleaning process is also perfect in terms of the environment, because the waste water from the WM800 cleaning machine goes to the mobile „sister“ system ClearMatic CM1800, from where it returns clean and water clear to the closed loop. The ClearMatic CM1800 is a compact and robust system consisting of 3 tanks with pumps, dosing stations and sophisticated process water control.



Waste water tank with integrated entry inlet filter (<5 mm) as well as stirring device



Belt filter with tear-proof filter fleece (120 µm) including collecting container with float switch



Central switch box with display for controlling all pumps etc.



Storage tank and dosing station for flocculants, optionally cleaning agents etc.



Sensors for checking turbidity, flow and fill levels



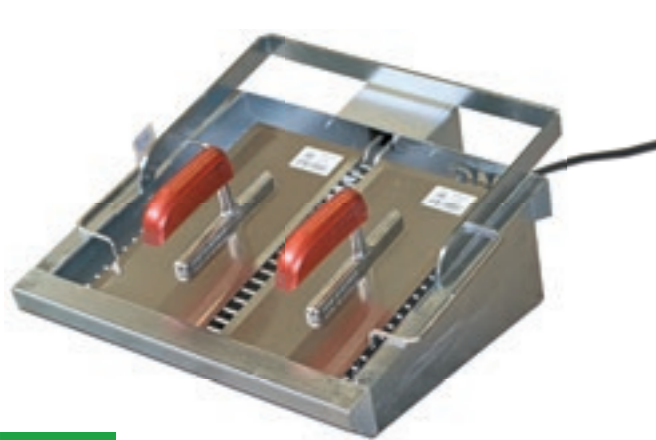
Art.-No. 6400353

Drive	2.9 kW (8.8 HP) / 3 ph. / 400 V / 50 – 60 Hz / 17 A
Weight	900 kg
Dimensions	L 2,503 x W 1,596 x H 1,883 mm

Subject to technical alterations

Tools and accessories

TOOLS AND ACCESSORIES FOR SYNTHETIC SPORTS SURFACES



HotTrowel

Electrically heated device for heat up smoothing trowels
Art.-No. 8900021



W10 and W20 (optional with weight)

W 10 (50 cm)
Art.-No. 6400169
W 20 (70 cm)
Art.-No. 6400118



HR50 and HR70

HR 50 (50 cm)
Art.-No. 8900025
HR 70 (70 cm)
Art.-No. 6400119



TestSet

PlanoTest PT2 (4 m - dismantable aluminium straight edge) to examine irregularities in range of +/- 10mm; FloorTest FT50 test for measuring thickness of elastic sports flooring, MK30 for roughness measuring, inclusive sturdy transport case.
Art.-No. 6400086



MultiSpray MS30

Spray gun for small repairs and patching works
Art.-No. 6400121



TurboSpray TS30

Spraying pistol for thick, very compact and coarse-grained materials
Art.-No. 6400089



Rolly K75

Art.-No. 6400188



FloorTest FT50

Art.-No. 6400104

Tools and accessories

TOOLS AND ACCESSORIES FOR SYNTHETIC SPORTS SURFACES



Generator E160

16 kVA / 400V / 50 - 60 Hz
Weight: 790 kg
Art.-No. 8700001



Generator E285

40 kVA / 400 V / 50 Hz
Weight: 950 kg
Art.-No. 8700008



Generator E660

63 kVA / 400 V / 50 - 60 Hz
Weight: 1,300 kg
Art.-No. 8700012



CEE Plug / Coupling 400 V / 16 A

Plug Art.-No. 3400204
Coupling Art.-No. 3400212



CEE Plug / Coupling 400 V / 32 A

Plug Art.-No. 3400237
Coupling Art.-No. 3400215



Extension cord

400 V - 25 m
Art.-No. 6307016



Adapter cord

16 A Plug / 32 A Coupling
Art.-No. 3203198



Cable reel

220 V - 50 m
Art.-No. 3202488



Drum support with handle

Art.-No. 3202284



Wheelbarrow

250 Liter
Art.-No. 3202564



Drum wheelbarrow

Art.-No. 3202487



Drum cock

Art.-No. 3200514



Drum wrench

Art.-No. 6200860

Tools and accessories

TOOLS AND ACCESSORIES FOR SYNTHETIC SPORTS SURFACES



Digital scale

inclusive transport case
Art.-No. 3202185



Hand drill

Art.-No. 3202874



Aluminium shovel

Art.-No. 3202348



Smoothing trowel (280 mm)

Art.-No. 3202338



Smoothing trowel (450 mm)

Art.-No. 3202333



Scraper

Art.-No. 3202334



Bucket

12 Litres
Art.-No. 3202332



Mixing bucket

75 Litres
Art.-No. 3200634



Wheelbarrow

85 Litres
Art.-No. 3202353



Leaves blower

Art.-No. 8900067



Leaves vacuum

Art.-No. 8900068



Snip string

Art.-No. 3202352

Tools and accessories

TOOLS AND ACCESSORIES FOR SYNTHETIC SPORTS SURFACES



Rubber wiper

600 mm
Art.-No. 3202324



Wiper blade

600 mm
Art.-No. 3202323



Measuring tape

Length: 100 m
Art.-No. 3202149



Tool box (127 parts)

Art.-No. 3204115



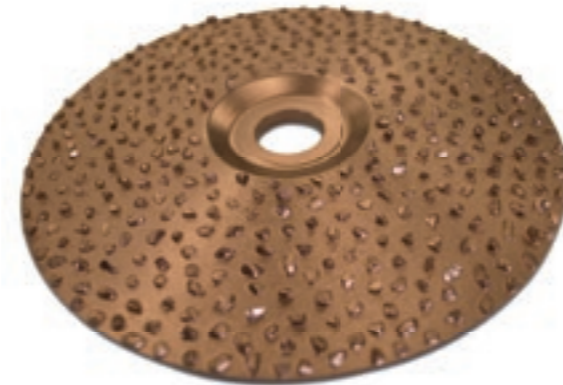
Rake

Art.-No. 3202517



Neopren-rubber stripes

3 mm Art.-No. 3202318 7 mm Art.-No. 3202134
4 mm Art.-No. 3202319 8 mm Art.-No. 3202317
5 mm Art.-No. 3202313 10 mm Art.-No. 3202321
6 mm Art.-No. 3202315



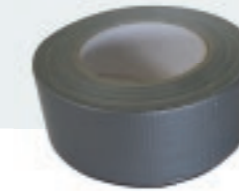
Hard metal disc

Art.-No. 6201208



Tool set

Art.-No. 1200304



Adhesive tape

50 mm Art.-No. 3202490
100 mm Art.-No. 3202491



Gloves

Art.-No. 3202340



Hand cleaning gel

for removal of paints, varnishes,
oils, bitumen and rubber com-
pounds
Art.-No. 3204446



Dust mask

Filtering half masks to protect
against dust and spray mist
Art.-No. 3204447



Eye douche

Art.-No. 3202328



Protection shoe

universal dust-tight protection shoe
with elastic band
Art.-No. 3204448



Hearing protector

for helmet mounting
Art.-No. 3204450



Hearing protector

Art.-No. 3204451



SMG Spray bottle

Art.-No. 3204243



Solid string

Length: 50 m
Art.-No. 3202794



Disposable gloves

in dispenser box (100 p.)
Art.-No. 3204365



Protective suit

Art.-No. 3202801



Safety glasses (clear)

scratchproof, adjustable, mist-free
Art.-No. 3204449



Cotton glove

knitted cotton-fabric gloves e.g. to
slip over disposable latex glove
Art.-No. 3204364



Hard hat (DIN EN 397)

safety helmet with leather sweat band,
ventilation, rain gutter, adjustable,
hearing protection
Art.-No. 3204452



passion for sports grounds

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