



ROAD MARKING

MACHINES AND EQUIPMENT



CATALOG



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KONTUR 50

THIN- LAYER MARKING WITH PAINTS

Kontur 50 is designed for airless cold paint application. With its compact size, Kontur 50 is perfect for applying markings in the city without hindering traffic. The airless marking technology allows using high-viscosity paints with high solids content. The control panel enables to program for 10 different marking line types in the manual, semi-automatic, and automatic modes. Carefully selected components ensure reliability and long service life of equipment. The high-quality components of leading companies like Graco, Danfoss, Festo, Fini, and Kamber are installed in the machine.



STANDARD CONFIGURATION:

- ☒ liftable pointer;
- ☒ auxiliary panel with the motor hour counter;
- ☒ fine paint filter;
- ☒ flashing Light On A Retractable Rod;
- ☒ handheld Paint Gun;
- ☒ marking Unit Light;
- ☒ paint Pressure Surge Compensator;
- ☒ handheld gun with 10 m hose.

MAIN SPECIFICATIONS

SPECIFICATION	KONTUR 50
Engine type	petrol
Engine power output, kW	9,6
Engine power, HP	13
Engine capacity, cm³	420
Compressor	piston
Maximum operating road gradient, %	10
Maximum gradeability, %	20
Transport speed, km/h	8
Glass beads tank , l	17
Glass beads tank, kg	28
Pre-set programs	up to 7
Marking material	paint
Maximum marking speed, km/h	5
Fuel tank capacity, l	6,6
Oil tank capacity, l	18
Lines applied simultaneously	2
Number of guns (applicators, extruders)	2
Double line width, mm	up to 150
Single line width, mm	up to 250
Overall machine dimensions (L x W x H), mm:	
- operating position	3000x1200x1300
- transport position	2200x1200x1300
Unloaded weight	500
Total weight	650



OPTIONS:

- LED Position Lights And Turn Signals;
- removable Tank, 45 L;
- handheld Paint Gun Extension, 50 Cm.

KONTUR 100

THIN- LAYER MARKING WITH PAINTS

Kontur 100 Road Marking Machine is designed for airless cold paint application. With its compact size, it may be used for marking in urban streets, car parking slots and parking areas. High-quality components ensure reliability and long service life of the equipment. The high-quality components of leading companies guarantees reliability and long service life of the equipment. One load of marking materials is sufficient to apply 300 m² of markings.



STANDARD CONFIGURATION:

- ☑ central marking unit, with three paint gun and glass beads gun pairs;
- ☑ thumb switch, duplicating the «Start» button on the marking control panel;
- ☑ handheld air jet gun for air cleaning of working equipment;
- ☑ right-side marking unit, without guns;
- ☑ marking control panel;
- ☑ foot switch, duplicating the «Start» button on the marking control panel;
- ☑ paint flow sensor;
- ☑ handheld gun with 10 m hose;
- ☑ roof-mounted flashing lights;
- ☑ spotlight for the marking unit;
- ☑ operator workplace light;
- ☑ paint pressure surge compensator.



OPTIONS:

- additional fourth pair of a paint gun and a glass beads gun on the right-side marking unit;
- left side marking unit, without guns;
- handheld paint gun extension, 50 cm.

MAIN SPECIFICATIONS

SPECIFICATION	KONTUR 100
Engine type	petrol
Engine power output, kW	17,2
Engine power, HP	23
Engine capacity, cm ³	627
Compressor	piston
Maximum operating road gradient, %	10
Maximum gradeability, %	20
Transport speed, km/h	12
Glass beads tank , l	60
Glass beads tank, kg	100
Control panel screen diagonal, inch	5,7
Pre-set programs	up to 24
Marking material	paint
Maximum marking speed, km/h	6
Marking material quantity, kg	150
Fuel tank capacity, l	35
Oil tank capacity, l	34
Lines applied simultaneously	2
Number of guns (applicators, extruders)	3
Double line width, mm	up to 150
Single line width, mm	up to 300
Overall machine dimensions (L x W x H), mm:	
- operating position	4700×2000×2100
- transport position	2800×1300×2100
Unloaded weight	1100
Total weight	1350

KONTUR 300

THIN- LAYER MARKING WITH PAINTS

Kontur 300 Road Marking Machine is designed for airless cold paint application. The compact size of the machine allows applying markings without hindering the traffic in the city. The hydraulic wheel drive ensures smooth running. The high-quality components of leading companies guarantees reliability and long service life of the equipment. One load of materials is sufficient to apply 600 m² of markings.



STANDARD CONFIGURATION:

- ☑ central marking unit, with three paint gun and glass beads gun pairs;
- ☑ thumb switch, duplicating the «Start» button on the marking control panel;
- ☑ right-side marking unit, without guns;
- ☑ marking control panel;
- ☑ foot switch, duplicating the «Start» button on the marking control panel;
- ☑ paint flow sensor;
- ☑ handheld gun with 10 m hose;
- ☑ roof-mounted flashing lights;
- ☑ spotlight for the marking unit;
- ☑ operator workplace light;
- ☑ hydraulic drive for raising/lowering the central marking unit;
- ☑ hydraulic drive for raising/lowering the pointer;
- ☑ handheld air jet gun for air cleaning of working equipment;
- ☑ rear platform for a support worker and road cones;
- ☑ paint pressure surge compensator.

MAIN SPECIFICATIONS

SPECIFICATION	KONTUR 300
Engine type	diesel
Engine power output, kW	24,5
Engine power, HP	33
Engine capacity, cm ³	1123
Engine environmental class	Euro Stage IIIA (TIER 1)
Compressor	piston
Maximum operating road gradient, %	10
Maximum gradeability, %	20
Transport speed, km/h	12
Glass beads tank, l	60
Glass beads tank, kg	100
Control panel screen diagonal, inch	5,7
Pre-set programs	up to 24
Marking material (main / optional)	Paint / spray-plastic 100:2 (external mixing)
Maximum marking speed, km/h	7
Marking material quantity, kg	300
Fuel tank capacity, l	40
Oil tank capacity, l	45
Lines applied simultaneously	2
Number of guns (applicators, extruders)	3
Double line width, mm	up to 150
Single line width, mm	up to 300
Overall machine dimensions (L x W x H), mm:	
- operating position	5000×2000×2100
- transport position	3150×1300×2100
Unloaded weight	1410
Total weight	1900



OPTIONS:

- additional fourth pair of a paint gun and a glass beads gun on the right-side marking unit;
- left-side marking unit, without guns;
- «Pass This Side» sign;
- handheld paint gun extension, 50 cm;
- cold spray plastic 100:2, external mixing option for one line.

KONTUR 600

THIN- LAYER MARKING WITH PAINTS

Kontur 600 Road marking machine is designed for airless cold paint application. With its compact size, the machine can be used for marking on urban and suburban roads without hindering traffic. The hydraulic wheel drive ensures smooth running. The pointer can be raised or lowered from the operator workplace. The high-quality components of leading companies guarantees reliability and long service life of the equipment. One load of marking materials is sufficient to apply 1,200 m² of markings.



STANDARD CONFIGURATION:

- ☑ central marking unit, with three paint gun and glass beads gun pairs;
- ☑ thumb switch, duplicating the «Start» button on the marking control panel;
- ☑ right-side marking unit, without guns;
- ☑ marking control panel;
- ☑ foot switch, duplicating the «Start» button on the marking control panel;
- ☑ paint flow sensor;
- ☑ handheld gun with 10 m hose;
- ☑ roof-mounted flashing lights;
- ☑ spotlight for the marking unit;
- ☑ operator workplace light;
- ☑ hydraulic drive for raising/lowering the central marking unit;
- ☑ hydraulic drive for raising/lowering the pointer;
- ☑ handheld air jet gun for air cleaning of working equipment;
- ☑ rear platform for a support worker and road cones;
- ☑ paint pressure surge compensator.

MAIN SPECIFICATIONS

SPECIFICATION	KONTUR 300
Engine type	diesel
Engine power output, kW	45,5
Engine power, HP	61,9
Engine capacity, cm ³	2216
Engine environmental class	Euro Stage IIIA (TIER 2)
Compressor	piston
Maximum operating road gradient, %	10
Maximum gradeability, %	20
Transport speed, km/h	12
Glass beads tank, l	2x55
Glass beads tank, kg	170
Control panel screen diagonal, inch	5,7
Pre-set programs	up to 24
Marking material (main / optional)	Paint / spray-plastic 100:2 (external mixing)
Maximum marking speed, km/h	7
Marking material quantity, kg	600
Fuel tank capacity, l	50
Oil tank capacity, l	75
Lines applied simultaneously	2
Number of guns (applicators, extruders)	3
Double line width, mm	up to 150
Single line width, mm	up to 300
Overall machine dimensions (L x W x H), mm:	
- operating position	5000×2000×2100
- transport position	3150×1300×2100
Unloaded weight	1820
Total weight	2600



OPTIONS:

- additional fourth pair of a paint gun and a glass beads gun on the right-side marking unit;
- left-side marking unit, without guns (not available with the Cold Spray Plastic 100:2, External Mixing option);
- «Pass This Side» sign;
- handheld paint gun extension, 50 cm;
- cold spray plastic 100:2, external mixing option for one line.

SHMELOK HP

MARKING WITH COLD PLASTIC

Shmelok HP is a walk-behind road marking machine designed for applying flat lines or variable profile lines, using cold plastics, with the possibility of sprinkling retroreflective glass beads. The machine is equipped with quick-release marking units to apply lines 100, 120, 150, 200, 240, 250, 300, 400 and 500 mm wide. No tools are required for replacement of marking unit. The glass bead unit can be adjusted for the width of specific marking unit.



MAIN SPECIFICATIONS

SPECIFICATION	SHMELOK HP	SHMELOK HP 240
Marking material	cold plastic	cold plastic
Application method	screed box	screed box
Material consumption, kg/m ²	up to 7,2	up to 7,2
Line width*, mm	100, 120, 150, 200, 240, 250, 300, 400, 500**	100, 120, 150, 200, 240
Number of interchangeable units in the basic set	1***	1***
Glass beads tank (bin) capacity, l (kg)	16 (25)	10 (15)
Plastic tank diameter, mm	200 - 280	200 - 280
Glass beads application method	by gravity	by gravity
Glass beads sprinkling width adjustment, mm	by gates, 50 mm increments	by gates, 50 mm increments
Glass beads consumption adjustment	available, replacement friction coupling	available, replacement friction coupling
Marking thickness, mm	1,5 ... 3	1,5 ... 3
Overall dimensions (L × W × H), mm:		
- operating position	2000×800×1100	2000×625×1100
- transport position	1200×800×1100	1200×625×1100
Weight without the marking unit and replaceable parts, kg	95	83
Marking unit weight (depending on size), kg	8, 9, 10, 11, 12, 13, 15, 18	8, 9, 10, 11, 12
Chute overall dimensions (L × W × H), mm	380×480×280	380×480×280
Operating personnel, persons	2	2

* Depends on type-size of the replacement marking unit

** Execution with a maximum width of 500 mm is negotiated when ordering

*** Type-size is specified when ordering

SHMELOK HP STRUCTURE

MARKING WITH COLD PLASTIC

The machine is designed for applying structured horizontal markings using solvent-free resin-based cold plastic. The plastic to be applied is prepared at the site immediately before use. Markings are applied by spraying the plastic that gets through the screed box shutter onto a spiked shaft. Simultaneously with marking, the lines are sprinkled with retroreflective glass beads. The machine is equipped with quick-release marking units (screed boxes) to apply lines 100, 120, 150, 200, 240, 300, 400, and 500 mm wide.* The glass bead sprinkling width can be adjusted to match the width of a specific marking unit. The machine is hand-pushed by the operator.



MAIN SPECIFICATIONS

SPECIFICATION	SHMELOK HP STRUCTURE
Marking material	cold plastic
Application method	sprinkling
Marking type	structured
Marking speed, km/h	2 - 3
Material consumption, kg/m ²	2,5 - 5,3
Line width**, mm	100, 120, 150, 200, 240, 300, 400, 500***
Replaceable units in the standard configuration	1****
Glass beads tank (bin) capacity, l (kg)	10 (16)
Glass beads application method	by gravity
Glass beads sprinkling width adjustment, mm	100 - 500
Glass beads consumption adjustment	available, replacement friction coupling
Overall dimensions (L × W × H), mm:	
- operating position	1900×900×1020
- transport position	1050×900×1020
Weight without the marking unit and replaceable parts, kg	70
Marking unit weight (depending on size), kg	5,9; 6,1; 6,4; 7,0; 7,5; 8,0; 9,3; 10,5
Chute overall dimensions (L × W × H), mm	600×230×240
Operating personnel, persons	2

* One type-size is included, other type-size must be ordered additionally

** Depends on type-size of the replacement marking unit

*** Execution with a maximum width of 500 mm is negotiated when ordering

**** Type-size is specified when ordering

KONTUR 90HP

MARKING WITH COLD PLASTIC

Kontur 90HP is designed for applying thick-layer horizontal road markings with two-component cold plastics and retroreflective glass beads. The machine can apply flat and structured lines. «Kontur 90HP» is a walk-behind type of machine. The hydraulic travel drive ensures infinitely variable travel speed. The marking unit is equipped with quick-release structured line applicators. Flat segment-and-gap lines are applied using a screed-box system. Cold plastic is mixed with hardener in the dynamic agitator immediately before applying marking lines. Hardener is dispensed automatically. Plastic consumption depends on the marking type and structured line pattern and ranges from 1.5 to 6 kg/m². The marking unit with an applicator and a glass beads gun is mounted on the right side of the machine. Cleaning of the agitator and the applicator is controlled from the operator panel and requires minimal attention from the support workers. Retroreflective glass beads are applied on the line directly during marking with an automatic glass beads gun through an adjustable diffuser.



STANDARD CONFIGURATION:

- ☑ one applicator for applying flat lines (the size is specified when ordering);
- ☑ automatic glass beads gun;
- ☑ M21 marking control panel;
- ☑ auxiliary machine control panel;
- ☑ main component tank with a manual agitator;
- ☑ hardener tank;
- ☑ flushing liquid tank;
- ☑ pneumatic and electric controls;
- ☑ telescopic pointer.



OPTIONS:

- marking unit spotlight;
- flashing light on a retractable rod.



KONTUR 650HPE

MARKING WITH COLD PLASTIC

Kontur 650HPE is designed for horizontal road marking with two-component cold plastics and retroreflective glass beads. The machine can apply flat lines and two types of structured lines (agglomerate and dots). The marking unit is equipped with two quick-release applicators to apply single and double lines. A different applicator is used for each line type. Cold plastic is mixed with hardener in the dynamic agitator immediately before applying marking lines. The components are dispensed automatically by variable displacement pumps. Plastic consumption depends on the marking type and structured line pattern and ranges from 1.5 to 6 kg/m². The marking unit with an applicator and a glass beads gun is mounted on the right side of the machine. The changeover time to the left side is 30 min, if done by 2 people. Cleaning of the agitator and applicators is controlled from the operator panel and requires minimal attention from the support workers. Retroreflective glass beads are applied on the lines directly during marking with automatic glass beads guns through adjustable diffusers. The machine must be transported to the site on a low-frame trailer with a load capacity of at least 3.5 tons.



STANDARD CONFIGURATION:

- ☒ one set of applicators for flat lines;*
- ☒ two glass beads guns;
- ☒ marking control panel;
- ☒ foot switch duplicating the <Start> button on the marking control panel;
- ☒ hydraulic agitator in the plastic tank;
- ☒ roof-mounted flashing lights;
- ☒ spotlight for the marking unit;
- ☒ operator workplace light;
- ☒ marking unit light;
- ☒ rear platform for a support worker and road cones;
- ☒ hydraulically lifted/lowered pointer.



OPTIONS:

- additional applicators for flat and structured lines;**
- thumb switch duplicating the «Start» button on the marking control panel;
- «Pass This Side» sign.

* One type-size is included, other type-sizes must be ordered additionally

** Type-sizes and quantity of additional applicators to be specified when ordering

ROAD MARKING MACHINES

EQUIPMENT FOR MARKING WITH COLD PLASTIC

MAIN SPECIFICATIONS

SPECIFICATION	KONTUR 90HP	KONTUR 650HPE
Engine type	petrol	diesel
Engine power output, kW	11,5	44
Engine power, HP	16	51
Engine capacity, cm ³	479	2434
Approval	-	EU Stage IIIA (TIER 3)
Compressor	piston	piston
Maximum operating road gradient, %	10	10
Maximum gradeability, %	20	20
Transport speed, km/h	5	12
Glass beads tank, l	17	100
Glass beads tank, kg	40	160
Control panel screen diagonal, inches	-	5,7
Pre-set programs	up to 7	up to 24
Marking material (main / optional)	cold plastic	cold plastic
Maximum marking speed, km/h (with main / optional material)	5	5
Marking material quantity, kg	150	820
Hardener, l	10	30
Flushing liquid, l	10	30
Fuel tank capacity, l	7,5	60
Oil tank capacity, l	39	80
Lines applied simultaneously	1	2
Number of guns (applicators, extruders)	1	2
Double line width, mm	-	100, 120, 150
Single line width, mm	100, 120, 150, 200, 240	100, 120, 150, 200, 240, 250, 300
Overall machine dimensions (L × W × H), mm:		
- operating position	3500×1200×1200	7500×2200×2600
- transport position	2000×1200×1200	4500×1600×2400
Unloaded weight, kg	480	2500
Total weight, kg	660	3600

VOLOKUSHA

PLASTIC APPLICATION DEVICE

«Vолокуша» is designed for applying plastic materials by hand for horizontal road marking. The equipment is manufactured from heat- and corrosion-resistant material and thus can be used with thermoplastic materials as well. «Vолокуша» Plastic Application Device comes in six sizes for lines 100, 120, 150, 200, 240, 250, 300, 400, and 500 mm wide and 3-5 mm thick.



MAIN SPECIFICATIONS

TYPE	Overall dimensions (L × W × H), mm		Weight, kg
	Transport position (dismantled)	Operating position	
Vолокуша 100	1350×140×260	1600×140×870	10,3
Vолокуша 120	1350×160×260	1600×160×870	10,4
Vолокуша 150	1350×190×260	1600×190×870	10,5
Vолокуша 200	1350×240×260	1600×240×870	11,1
Vолокуша 240	1350×280×260	1600×280×870	11,3
Vолокуша 250	1350×290×260	1600×290×870	11,4
Vолокуша 300	1350×340×260	1600×340×870	11,9
Vолокуша 400	1350×440×260	1600×440×870	16,5
Vолокуша 500	1350×540×260	1600×540×870	17,3

VULKAN

THERMOPLASTIC MARKING

Vulkan Series Pre-Heaters are designed to melt and mix thermoplastic material immediately before loading it to the road marking machine. The main pre-heater units are the thermoplastic tank(s) and the power unit. The heat, generated by the oil burner, can be transferred to plastic via, either an intermediate heat carrier (indirect heating), or directly through the thermoplastic tank walls (direct heating). The power unit powers the machine operating parts and components: the agitator, the burner, the automation system, and the gate drive (if any). The automation system ensures that the thermoplastic temperature settings are maintained in the required range throughout the entire material preparation cycle. The delivery package includes a draining chute, a pyrometer, a gas burner, an access ladder (only in some models), heat-resistant gloves, and a flashing light. Depending on the model, «Vulkan» Series Pre-Heaters can be equipped with loading conveyors. Pre-heaters must be installed on a truck chassis with a sufficient load capacity.



Vulkan 5000



Vulkan 5000M



Vulkan 800M

EQUIPMENT OF THE VULKAN LINE

THERMOPLASTIC PREPARATION EQUIPMENT

MAIN SPECIFICATIONS

SPECIFICATION	VULKAN 5000	VULKAN 5000M	VULKAN 800M
Thermo tanks, pcs	1	1	1
Heating method	direct	indirect	indirect
Maximum material capacity, kg	5000	5000	800
Thermoplastic tank capacity, l	2500	2500	400
Oil burners, pcs	1	1	1
Oil burners, pcs	120	160	40
Maximum oil burner fuel consumption, kg/h	11,4	15,2	3,8
Oil burner supply voltage, V	12	12	12
Power unit motor output, kW	10,8	10,8	10,8
Power unit engine fuel	diesel	diesel	diesel
Fuel tank capacity, l	60	60	100
Oil burner fuel tank capacity (if a separate tank is available), l	140	140	-
Oil tank capacity, l	60	60	60
Thermal oil volume, l	-	570	120
Overall dimensions (platform-mounted), mm:			
- Length	4400	4900	-
- Width	2400	2400	-
- Height	2600	2600	-
Power unit overall dimensions, mm:			
- Length	-	-	1200
- Width	-	-	650
- Height	-	-	1200
Thermoplastic tank overall dimensions, mm:			
- Length	-	-	1800
- Width	-	-	1400
- Height	-	-	2100
Weight (without material), kg	3400	6100	1220
Recommended truck/trailer load capacity, kg	12000 - 15000	12000 - 15000	3000
Options	-	Conveyor belt	-

KONTUR 400

UNIVERSAL MARKING WITH DIFFERENT MATERIALS

Kontur 400 is a machine with replaceable modules. The module type determines the marking material type to be used and the application method. Any module of the machine can be replaced with another module directly by the user. The machine can be completed with any additional replaceable module.



STANDARD CONFIGURATION OF THE BASIC SELF-PROPELLED CHASSIS INCLUDES THE FOLLOWING:

- ☑ slidable operator workplace with two seats, a hard roof, rear-view mirrors, and controls;
- ☑ marking control panel;
- ☑ hydraulic steering;
- ☑ standardized hydraulic oil and compressed air connections;
- ☑ glass bead tank;
- ☑ lighting components and flashing lights;
- ☑ marking unit light and operator workplace light;
- ☑ mechanical pointer;
- ☑ automation and control units;
- ☑ piston compressor;
- ☑ two fire extinguishers.



CHASSIS OPTIONS:

- rear platform for a support worker and road cones.

KONTUR 400T

UNIVERSAL MARKING WITH DIFFERENT MATERIALS

Kontur 400T is designed for applying thick-layer markings with thermoplastics and consists of the basic Kontur 400 chassis and a thermoplastic module.



STANDARD MODULE CONFIGURATION:

- ☑ heat-insulated thermoplastic tank;
- ☑ hydraulic agitator in the thermoplastic tank;
- ☑ thermal oil circulation system;
- ☑ temperature control system for thermal oil and thermoplastic;
- ☑ oil burner;
- ☑ mesh filter in the filling window of the thermoplastic tank;
- ☑ marking unit for flat line extrusion (up to 300 mm wide);
- ☑ glass beads gun;
- ☑ automation and control units;
- ☑ handheld gas burner;
- ☑ touch-free temperature gauge.

KONTUR 400K

UNIVERSAL MARKING WITH DIFFERENT MATERIALS

Kontur 400K is designed for airless cold paint application. The machine consists of the basic «Kontur 400» chassis and a paint module.



STANDARD MODULE CONFIGURATION:

- ☑ repositionable marking unit with two paint gun and glass beads gun pairs;
- ☑ paint tank;
- ☑ hydraulic agitator;
- ☑ hydraulic agitator;
- ☑ fine paint filter on the high-pressure line;
- ☑ handheld paint gun, 10 m hose;
- ☑ paint flow sensor;
- ☑ GSM/GLONASS data storage and transfer system;
- ☑ paint pressure surge compensator.



CHASSIS OPTIONS:

- additional third paint gun and glass beads gun pair;
- handheld paint gun extension, 50 cm;
- single-line cold spray plastic module, 100:2, external mixing.

KONTUR 400X

UNIVERSAL MARKING WITH DIFFERENT MATERIALS

Kontur 400X is designed for applying thick-layer markings with cold plastics and consists of a basic Kontur 400 chassis and a cold plastic module MX400. The marking unit can apply flat and structured single lines 100, 120, 150, 200, 240, 250, or 300 mm wide. Applicator sizes should be specified when ordering.



STANDARD MODULE CONFIGURATION:

- ☒ cold plastic tank;
- ☒ hardener tank;
- ☒ flushing liquid tank;
- ☒ cold plastic dispensing system;
- ☒ hardener dispensing system;
- ☒ single line marking unit;
- ☒ hydraulic agitator in the cold plastic tank;
- ☒ one flat line applicator (The size to be specified when ordering, additional applicators to be ordered separately).



MODULE OPTIONS:

- additional flat and structured line applicators (100, 120, 150, 200, 240, 250 and 300 mm wide).

SUMMARY TABLE OF PARAMETERS

ROAD MARKING MACHINES

UNIVERSAL MARKING WITH DIFFERENT MATERIALS

MAIN SPECIFICATIONS

Specification	KONTUR 400K	KONTUR 400T	KONTUR 400X
Engine type	diesel	diesel	diesel
Engine power output, kW	25 (Stage III), 36 (Stage V)	25 (Stage III), 36 (Stage V)	25 (Stage III), 36 (Stage V)
Engine power, HP	34 (Stage III), 49 (Stage V)	34 (Stage III), 49 (Stage V)	34 (Stage III), 49 (Stage V)
Engine capacity, cm ³	1500 (Stage III), 1700 (Stage V)	1500 (Stage III), 1700 (Stage V)	1500 (Stage III), 1700 (Stage V)
Approval	EU Stage IIIA (TIER 3)**	EU Stage IIIA (TIER 3)**	EU Stage IIIA (TIER 3)**
Compressor	piston	piston	piston
Optional compressor ****	-	-	-
Maximum operating road gradient, %	10	10	10
Maximum gradeability, %	20	20	20
Transport speed, km/h	20	20	20
Glass beads tank, l	75	75	75
Glass beads tank, kg	120	120	120
Control panel screen diagonal, inches	5,7	5,7	5,7
Pre-set programs	up to 24	up to 24	up to 24
Marking material (main / optional)	paint / spray plastic 100:2 (external mixing)	thermoplastic	cold plastic
Maximum marking speed, km/h (with main / optional material)	8	5	5
Marking material quantity, kg	380	400	380
Hardener, l	11	-	11
Flushing liquid, l	-	-	11
Fuel tank capacity, l	42	42	42
Oil tank capacity, l	64	64	64
Second marking material quantity, kg	-	-	-
Lines applied simultaneously	2	1	1
Number of guns (applicators, extruders)	2	1	1
Double line width, mm	up to 150	-	-
Single line width, mm	up to 300	up to 300, in multiples of 50	100, 120, 150, 200, 240, 250 300
Overall machine dimensions (L x W x H), mm:			
- operating position	6220x2350x2130	6420x1600x2280	6420x1600x2280
- transport position	3350x1350x2370	3330x1600x2100	3330x1600x2100
Unloaded weight, kg	1900	2100	1900
Total weight, kg	2400	2600	2400

* The data provided is for reference only and may differ from the actual

** EU Stage V upon request

*** Optional equipment, to be specified when ordering

KONTUR 900

UNIVERSAL MARKING WITH DIFFERENT MATERIALS

Kontur 900 is a modular machine. The module type determines marking materials to be used and the marking application method. The basic self-propelled chassis consists of a slidable operator workplace, a power unit, transmission and control units, module-mounting fasteners, marking units and glass beads tank. Replaceable modules allow for application of thick-layer and thin-layer road markings by various methods using specialized marking units. Any module of the machine can be replaced with another module directly by the user.



STANDARD CONFIGURATION OF THE BASIC SELF-PROPELLED CHASSIS INCLUDES THE FOLLOWING:

- ☑ slidable operator workplace with two seats, a hard roof, rear-view mirrors, and controls;
- ☑ marking control panel;
- ☑ hydraulic steering;
- ☑ standardized hydraulic oil and compressed air connections;
- ☑ glass beads tank;
- ☑ lighting components and flashing lights;
- ☑ marking unit light and operator workplace light for working during nighttime;
- ☑ mechanically lifted/lowered pointer;
- ☑ automation and control units;
- ☑ piston compressor;
- ☑ two fire extinguishers.



CHASSIS OPTIONS:

- «Pass This Side» sign;
- repositionable sweeper for roadway cleaning in front of the marking unit;
- rear platform for a support worker and road cones;
- hydraulically lifted/lowered mechanical pointer;
- pre-marking equipment.

KONTUR 900X

UNIVERSAL MARKING WITH DIFFERENT MATERIALS

Kontur 900X is designed for applying thick-layer markings with cold plastics and consists of a basic Kontur 900 chassis and a cold plastic module MX900. The marking unit can apply flat and structured lines 100, 120, 150, 200, 240, 250, 300 or 400 mm wide. Applicator sizes should be specified when ordering.



STANDARD MODULE CONFIGURATION

- ✓ cold plastic tank;
- ✓ hardener tank;
- ✓ flushing liquid tank;
- ✓ cold plastic dispensing system;
- ✓ hardener dispensing system;
- ✓ repositionable two-line marking unit;
- ✓ hydraulic agitator in the cold plastic tank;
- ✓ one set of flat line applicators (The size to be specified when ordering, additional applicators to be ordered separately).



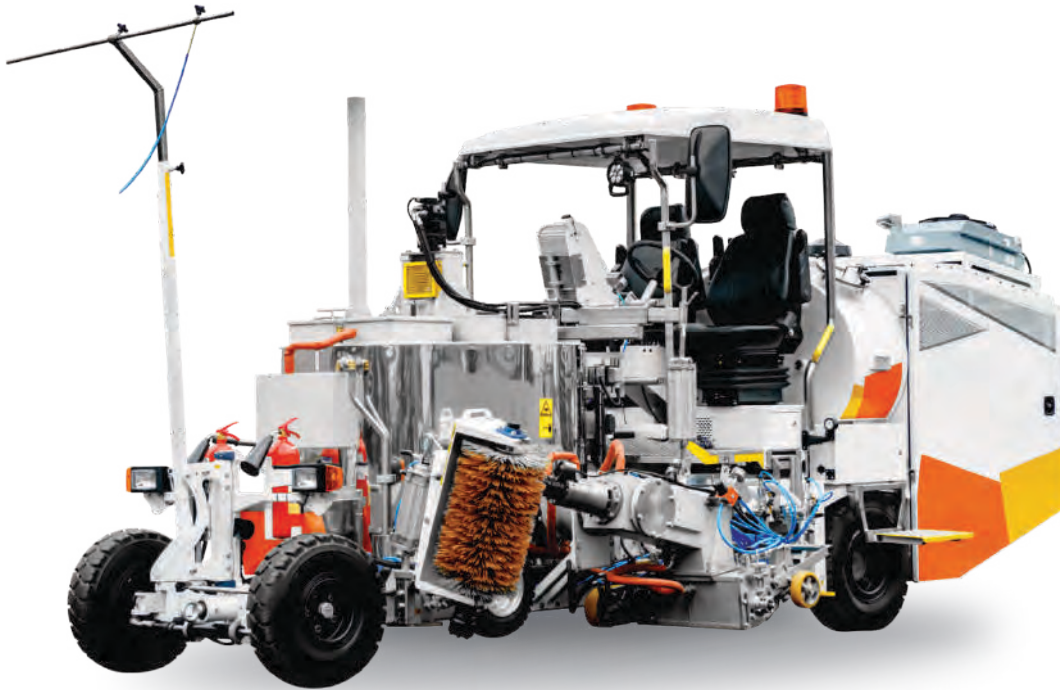
MODULE OPTIONS:

- additional flat and structured line applicators (100, 120, 150, 200, 240, 250 and 300 mm wide).

KONTUR 1500T

UNIVERSAL MARKING WITH DIFFERENT MATERIALS

Kontur 1500T is designed for thick-layer marking with thermoplastics and consists of the basic Kontur 1500 chassis and a thermoplastic module MT1500.



STANDARD MODULE CONFIGURATION

- ☑ heat-insulated thermoplastic tank;
- ☑ hydraulic agitator in the thermoplastic tank;
- ☑ thermal oil circulation system;
- ☑ temperature control system for thermal oil and thermoplastic;
- ☑ oil burner;
- ☑ mesh filter in the filling window of the thermoplastic tank;
- ☑ marking unit for flat lines up to 500 mm wide (10 × 50 mm);
- ☑ two glass beads guns;
- ☑ handheld gas burner;
- ☑ touch-free temperature gauge.



MODULE OPTIONS:

- draining chute for draining thermoplastic from the tank;

SUMMARY TABLE OF PARAMETERS

ROAD MARKING MACHINES

UNIVERSAL MARKING WITH DIFFERENT MATERIALS

MAIN SPECIFICATIONS

Specification	KONTUR 900X	KONTUR 1500T
Engine type	diesel	diesel
Engine power output, kW	63	71,4
Engine power, HP	85	100
Engine capacity, cm ³	3600	3800
Approval	EU Stage IIIA (TIER 3)	EU Stage IIIA (TIER 3)
Compressor	piston	piston
Optional compressor ****	screw	screw
Maximum operating road gradient, %	10	10
Maximum gradeability, %	20	20
Transport speed, km/h	12	12
Glass beads tank, l	330	330
Glass beads tank, kg	530	530
Control panel screen diagonal, inches	5,7	5,7
Pre-set programs	up to 24	up to 24
Marking material (main / optional)	cold plastic	thermoplastic
Maximum marking speed, km/h	8	8
Marking material quantity, kg	800	1460
Hardener, l	45	-
Flushing liquid, l	45	-
Fuel tank capacity, l	150	150
Oil tank capacity, l	100	100
Lines applied simultaneously	2	-
Number of guns (applicators, extruders)	2	-
Double line width, mm	100, 120, 150	up to 150
Single line width, mm	100, 120, 150, 200, 240, 250, 300	up to 500
Overall machine dimensions (L x W x H), mm:		
- operating position	8000x2300x2600	8000x2400x2600
- transport position	5700x2100x2600	5500x2400x2600
Unloaded weight, kg	4500	4600
Total weight, kg	6000	6600

* The data provided is for reference only and may differ from the actual

**** Optional equipment, to be specified when ordering

KONTUR 700TPK

MULTI MATERIAL ROAD MARKING MACHINES

Kontur 700TPK machine is designed for applying thick-layer and thin-layer horizontal road markings onto asphalt concrete and cement concrete surfaces using thermoplastics or paints and retroreflective glass beads. The thermoplastic marking unit allows application of 5 to 50 cm wide lines in various combinations. Optionally, the width and number of valves can be different. The thermoplastic tank is equipped with the automatic temperature control system, a hydraulic mixer, and a thermoplastic vapor removal system. The paint marking unit is equipped with two paint gun and glass beads gun pairs can be changed from side to side in five minutes. The hydraulic travel drive ensures smooth machine speed regulation during marking. The automatic oil burner regulation system ensures that the thermoplastic temperature setting is maintained in the desired range. All mechanisms are controlled directly from the operator seat. The extruder, the sweeper, and the operator seat can be installed on either side of the machine: left or right. The machine must be transported to the site on a low-frame trailer with a load capacity of at least 5 tons.



STANDARD CONFIGURATION

- ☑ Marking unit for 50 cm wide flat lines;
- ☑ Two glass beads guns;
- ☑ Marking control panel;
- ☑ Foot switch duplicating the «Start» button on the marking control panel;
- ☑ Hydraulic agitator in the plastic tank;
- ☑ Hydraulic agitator in the paint tank;
- ☑ Roof-mounted flashing lights;
- ☑ Spotlight for the marking unit;
- ☑ «Pass This Side» sign (700 mm) on a swivel bracket;
- ☑ Hydraulic powered sweeper;
- ☑ Paint pressure surge compensator.



OPTIONS:

- DL marking unit for flat and structured lines up to 500 mm wide (10 x 50 mm);
- Can be changed upon request to 12, 18 mm;
- Draining chute for draining thermoplastic from the tank;
- Thumb switch duplicating the «Start» button on the marking control panel;
- Handheld paint gun extension, 50 cm;
- Pre-marking equipment.

ROAD MARKING MACHINES

MULTI MATERIAL ROAD MARKING MACHINES

MAIN SPECIFICATIONS

Specification	KONTUR 700TPK
Engine type	diesel
Engine power output, kW	63
Engine power, HP	85
Engine capacity, cm ³	3600
Approval	EU Stage IIIA (TIER 3)
Compressor	piston
Maximum operating road gradient, %	10
Maximum gradeability, %	20
Transport speed, km/h	12
Glass beads tank, l	120
Glass beads tank, kg	190
Control panel screen diagonal, inches	5,7
Pre-set programs	up to 24
Marking material (main / optional)	thermoplastic / paint
Maximum marking speed, km/h (with main / optional material)	5 / 8
Marking material quantity, kg	700
Hardener, l	-
Flushing liquid, l	-
Fuel tank capacity, l	90
Oil tank capacity, l	115
Second marking material quantity, kg	690
Lines applied simultaneously	2
Number of guns (applicators, extruders)	2
Double line width, mm	up to 150
Single line width, mm	up to 500 (TP), up to 300 (K)
Overall machine dimensions (L x W x H), mm:	
- operating position	9100x2300x2700
- transport position	6000x2300x2400
Unloaded weight, kg	3800
Total weight, kg	4700

M15

AUXILIARY EQUIPMENT

The M15 control panel is a multifunctional device designed to control the painting equipment of any type of road marking machine (paint, thermoplastic, thermospray plastic, cold plastic, cold spray plastic) in automatic, semi-automatic, and manual modes.



MAIN CHARACTERISTICS OF THE PANEL:

- ☑ the control panel is designed to work as part of any type of road marking machine;
- ☑ aluminum casing;
- ☑ improved front panel;
- ☑ wear-resistant protective coating of the button panel;
- ☑ impact-resistant protective sealed glass;
- ☑ impact-resistant protective sealed glass;
- ☑ ability to control the operation of 16 painting and 3 spreading guns;
- ☑ ability to program the panel for any marking machine with any arrangement of painting and spreading guns, applicators, and sensors;
- ☑ all types of markings for 10 national standards are pre-installed, supporting up to 10 languages;
- ☑ pre-selection of marking conditions by the operator;
- ☑ axial city, axial track, edge, free mode;
- ☑ ability to change any marking mode on the go with a single button press;
- ☑ ability to perform marking at speeds up to 25 km/h;
- ☑ unique algorithm for repeating old markings using a photocell at the beginning of the stroke, allowing correction of geometric defects of the previous marking;
- ☑ unique algorithm for correcting marking cycle parameters, the ability to adjust parameters on the go;
- ☑ high-contrast color display;
- ☑ additional joystick and mini panel for controlling marking without taking eyes off the road;
- ☑ prompts in basic modes and a complete built-in panel operating manual;
- ☑ marking simulation mode for monitoring and training operators;
- ☑ control of the current paint consumption in kg/m² and speed according to preset limit values;
- ☑ ability to monitor the Road Marking Machine (RMM) equipped with a paint usage system;
- ☑ GPS/GLONASS receiver for accurate recording of time and geographical location of each marking step in reports;
- ☑ ability to view on the panel display the final statistics for each type of marking for any day;
- ☑ protection against unauthorized access by setting passwords for different levels of access and functions.



The user can view statistical reports anywhere using a computer or tablet and, if necessary, print tables on a printer. The data is displayed conveniently in the Global MDR web application, with the ability to export to an Excel table. The user selects the type of report table: step-by-step statistics for the day or summary statistics by types of marking. The program also allows observing the trajectory of movement and modes of operation of the Road Marking Machine (RMM) on an electronic map.



The panel saves in non-volatile memory and transmits in real-time to the server all data necessary for generating marking reports:

- date and time of marking;
- geographic coordinates of the Road Marking Machine (RMM) during marking;
- type of marking on each section;
- length of each marking section;
- total length of painted strokes;
- number of marking cycles on a given section;
- average speed of the marking machine;
- width of the marking line (set by the operator);
- total painted area;
- paint consumption for each marking section.

M21

AUXILIARY EQUIPMENT

M21 Control Panel is designed to work as part of small-sized road marking machines. The Panel controls operation of each of the two paint guns in the manual, automatic, or semi-automatic mode. In the automatic mode, the operator can use any of the six pre-set marking programs. New cycles (programs) with 1 cm increment can be easily programmed by the operator on site. The semi-automatic mode is intended for re-striping old markings. In this mode, the operator can use any of the six pre-set programs. If the operator presses «Start» in the semi-automatic mode, the Panel will send a command to paint a segment with a set length. The segment length can be easily adjusted on the go.



MAIN CHARACTERISTICS OF THE PANEL:

- ☒ if the operator presses «Start» in the manual mode, the Control Panel will open the selected gun.
- ☒ the operator can toggle between operating modes during operation without a need to stop.
- ☒ the Control Panel can adjust the distance sensor, the marking cycle length, and the segment/gap ratio.
- ☒ the Control Panel measures, displays, and stores reports containing the following data: total distance traveled and the distance painted with each of the two guns.
- ☒ the Control Panel conveniently combines an easy-to-use functional keyboard and mode on/off LED indicators.
- ☒ a remote «Start» button or a foot pedal may be connected to the Control Panel.

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