



# PRODUCT BROCHURE



EVERYTHING SUPPLIED IS FOR TRAFFIC SAFETY

**ZHENGZHOU TOURAN TRAFFIC CO., LTD**

## About TOURAN TRAFFIC

We understand the importance of professionalism, service and innovation.

The founder and Key team members of Touran have over 15 years' industrial experience. Touran always commits its professionalism, service and innovation in the industry with its quality products, customer satisfaction and solution service understanding, and has been indexing its target to sustainable growth and development by serving customers successfully each year since its establishment.

We always do our best to provide best products and services to customers through continuous investment and become the “Reliable Solution Partner” since its establishment, TOURAN has established the joint venture factories on road marking machine and road marking paint, and become the main shareholder of manufacturers of traffic safety facilities, such as road studs, traffic cones, speed bumps, traffic signs and signals, and so on, got franchises and has built the strongest sales network in order to become your “Trusted Partner” in this industry in the world.

We are continuing to pursue our leadership in the sector with our quality products, customer satisfaction and solution service understanding created in the first day. Our professionalism, service and innovation perspective that we have created with the slogan “Our Line is Sincerity, Our Principle is Quality, Our Value is Creation”.



## Company Profile

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### Thermoplastic Road Marking Paint

**TOURAN TRAFFIC** manufactures and supplies a full line of durable thermoplastic road marking paint in C5 hydrocarbon resin formulations engineered to meet your specification whether **AASHTO, BS3262, EN1871, Chinese Standard, or other commercial based.**



#### Description of Touran's THERMOPLASTIC ROAD MARKING PAINT.

Thermoplastic road marking paint is a 100% solid, environmentally and user safe compound containing binder, pigments, glass beads, performance additives, and fillers, which becomes liquid when heated over 180 ~ 200°C (356 ~ 391°F). Pigments provide color and chromaticity performance; fillers, such as calcium carbonate, add bulk and provide a certain strength and anti-skid performance; and binders, performance additives, provide toughness, flexibility and bond strength while holding all the components together. Intermixed and drop-on glass beads provide retroreflectivity for nighttime visibility of the pavement marking. There are generally four types of applications.



#### Benefits of using TOURAN's THERMOPLASTIC ROAD MARKING PAINT

Superior performance:

- Excellent adhesive property, Abrasion resistant for durability,
- Stability and long-term reflective ability
- Mechanically adheres to all asphalt pavements
- Adhesive bond to concrete (requires primer for application)

Extended durability results from:

- Intermix beads for maintained retroreflectivity
- Flexible application thicknesses
- Strictly abide by the construction process

Flexible application performance:

- Fast dry, < 3 minutes at temperatures as low as 25°C(77°F).

Engineered

- to minimize lane interruptions and closures
- Applied by spray, extrusion, screed to realize flat line, dot line, ribbon line, convex line.

Complete thermoplastic product line available in lead-free yellow

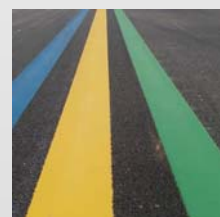


#### There are two kinds of packaging for option

One is 25kg compound-plastic bag, It is general packaging methond. Another is a kind of EVA melted bags, It can be melted with thermoplastic paint, and can improve the performance of the paint to a certain extent. It is customized packaging.

#### Standard Color:

Both White & Yellow are commonly used color. Besides, a specially formulated black, Blue or Green thermoplastic paint, used with white or yellow combination, enhances visual contrast on concrete or light-colored asphalt.





# PART ONE 1.1

## THERMOPLASTIC ROAD MARKING PAINT



From Parking lots, Urban road to Express Way, Mountain Road, and more, TOURAN TRAFFIC can help you determine the right Touran's Thermoplastic specification for the actual demand of customer's road marking project.

**What kind of paint specification should be selected for different application methods?**

### Formulated to meet AASHTO-M249 or BS3262/EN1871

- User-friendly formulation for fast melting.
- Excellent performance in wide range of application conditions.
- Applied by conventional extrusion, ribbon extrusion, or spray.
- Economical refurbishment for touching up worn quickly by spray application.



### Formulated to meet Chinese JT/T280

- Cost-effective alternative for use in wide range of application conditions.
- Durable alternative to paint for skip lines, edge lines, or center lines.
- Especially for use on new asphalt road, cost-effective is more obvious.
- Applied by conventional screed with the proper glass beads, adds additional retroreflectivity.



### Formulated to CONVEX LINE [PROFILED LINE], to meet Chinese JT/T280

- Specialized formulation provides improved durability, crack resistance, abrasion resistance, compression resistance and adhesion in adverse conditions.
- Convex (profiled) markings to enhance wet-reflective visibility.
- Delivers an audible delineation and "rumble" to alert motorists of lane departure.



### Glass Beads for Road Marking

**TOURAN TRAFFIC** manufactures and supplies a full line of glass beads for road marking purpose according to different national and regional standards, such as **AASHTO M247**, **BS6088**, **GB/T24722**, also accept customized production in accordance with customer requirements.



#### Description of Touran's GLASS BEADS FOR ROAD MARKING PURPOSE.

The glass bead used for road marking is a kind of fine glass beads which is made of glass sand after high temperature melting through flame floating process. Microscopically, they are colorless, transparent spheres with diameters ranging from 90 microns to 1,400 microns. Now, glass beads have become an irreplaceable reflective material in road safety products.



#### The role of GLASS BEADS IN ROAD MARKING

Glass beads as a reflective material intermixed or drop on road marking paint, can provide retro-reflection for nighttime visibility of the road marking, improve the safety of driving at night, has been confirmed by the traffic management departments of various countries all over the world.

When the vehicle is driving at night, the light of the headlights is reflected on the road marking line with glass beads, but the light of the headlights is reflected back in parallel to driver through the reflection of the glass bead, so that the driver can see the way forward clearly, and improve the safety of driving at night.

#### Packaging

25kg plastic woven bag with PE inner.  
Store in a dry, ventilated, cool environment away from rain and moisture.



#### The Type of Glass Beads:

Generally, glass beads for road marking purpose are divided into **Intermixed type** and **Drop-on type**. Intermixed glass beads is used for premixing in road marking paint during production of road marking paint. Drop-on type glass beads is used for dropping on surface of road marking line when road marking paint is applied on road surface to enhance the reflective performance of the marking line.



### Hand-push Thermoplastic Road Marking Machine

**Model Number:** TR-HTP55 and TR-HTP100

**Application Method:** Screeding Application

#### Product Description:

Hand-push type is the most classic type of thermoplastic road marking machine, has advantages of low investment, light weight, easy loading, easy operation and maintenance, has the best flexibility, suitable for the marking work in all kinds of roads, vehicle parks, schools, factories etc. In which, based on TR-HTP55 type, TR-HTP100 type increase its capacity of tank, equipped with infrared furnace to improve the heating efficiency, can be used for heating paint, suitable for small area marking construction.



#### Main Parts & Characteristics:

- DURABLE HARD TUNGSTEN ALLOY BOTTOM KNIFE
- HIGH-STRENGTH PLATE WELDING OR ALUMINIUM DIE-CASTING MATERIAL BIN
- SPECIAL WEAR-RESISTANT WHEEL AND PUNCHING RIM
- SYNCHRONOUS GLASS BEADS DISPENSER
- QUICKLY CHANGING MARKING SHOE
- DURABLE SURFACE TREATMENT

#### Technical Data:

Model Number	TR-HTP55	TR-HTP100
Paint tank capacity	55/	100 L
Glass beads bin capacity	12L	12L
Heating and insulation method	Direct-fired liquefied gas stove, double insulation	Direct-fired liquefied gas infrared stove, double insulation
Marking width	Standard 150mm(optional 100/120/200/250/300)	
Marking thickness	1.2-3.0mm(adjustable)	1.2-3.0mm(adjustable)
Dimension	1210x890x970 mm	1220x990x1100 mm
Weight	160kg	175kg





### Hand-push Thermoplastic Road Marking Machine

**Model Number:** TR-HTP55S

**Application Method:** Screeding Application

#### Product Description:

Hand-push type is the most classic type of thermoplastic road marking machine, has advantages of low investment, light weight, easy loading, easy operation and maintenance, has the best flexibility, suitable for the marking work in all kinds of roads, vehicle parks, schools, factories etc.

#### Main Parts & Characteristics:

- STAINLESS STEEL MATERIAL TANK, HEAT RESISTANT, CORROSION RESISTANT AND RUST PROOF
- DURABLE HARD TUNGSTEN ALLOY BOTTOM KNIFE
- HIGH-STRENGTH PLATE WELDING OR ALUMINIUM DIE-CASTING MATERIAL BIN
- SPECIAL WEAR-RESISTANT WHEEL AND PUNCHING RIM
- INDEPENDENT GLASS BEADS SPREADING CONTROL ENSURES SPRAYING IN PLACE
- QUICKLY CHANGING DIFFERENT SIZE MARKING SHOE



#### Technical Data:

Model Number	TR-HTP55S
Paint tank capacity	55/
Glass beads bin capacity	12L
Heating and insulation method	Direct-fired liquefied gas stove, double insulation
Marking width	Standard 150mm (optional 100/120/200/250/300)
Marking thickness	1.2-3.0mm (adjustable)
Dimension	1210x890x970 mm
Weight	140kg





### Self-propelled Thermoplastic Road Marking Machine

**Model Number:** TR-STP65

**Application Method:** Screeding Application

#### Product Description:

It is a small thermoplastic road marking machine which is the most suitable for continuous long solid line construction, it is equipped with gasoline engine and variable speed transmission system to realize self-propelled, thus it can effectively reduce the labor intensity of operators, improve working efficiency. It can also automatically draw dotted lines with the appropriate modifications if you think it is necessary (it is customized function).



#### Main Parts & Characteristics:

- PRECISE SPEED CONTROL SYSTEM
- DURABLE HARD TUNGSTEN ALLOY BOTTOM KNIFE
- HIGH-STRENGTH PLATE WELDING OR ALUMINIUM DIE-CASTING MATERIAL BIN
- SPECIAL WEAR-RESISTANT WHEEL AND PUNCHING RIM
- SYNCHRONOUS GLASS BEADS DISPENSER
- QUICKLY CHANGING MARKING SHOE
- DURABLE SURFACE TREATMENT

#### Technical Data:

Engine	6.0HP
Drive system	Hydrostatic infinitely variable speed
Drive speed	Forward: 0-4Km/h, backward 0-3.2Km/h
Maximum climbing ability	15°
Marking application	Flat line
Paint tank capacity	65L
Glass bead bin capacity	14L
Heating and insulation method	Direct-fired high-efficiency energy-saving stove, double-layer insulation
Marking width	Standard configuration 150mm (Optional: 100/120/200/250/300/400)
Marking thickness	1.2-3.0mm(adjustable)
Dimension	1210x890x970mm
Weight	230kg



### Self-propelled Thermoplastic Convex Road Marking Machine

**Model Number:** TR-STP65V

**Application Method:** Screeding Application

#### Product Description:

It is specially used for marking thermoplastic convex line, call it profiled line as well. Thermoplastic convex line is a kind of function line-type, it is mainly used to warn drivers through "vibration and rumble" when vehicles run over convex marking lines. Besides, thermoplastic convex line has perfect reflectivity, especially at night or rainy night. This machine is not only used for marking convex line, but also mark flat line, has a wide range of uses, such as the side line of highway, speed reduction marking before the sharp curve, the tunnel entrance, the speed hump and so on. It can also automatically draw flat dotted lines with the appropriate modifications if you think it is necessary (it is customized function).

#### Main Parts & Characteristics:

- PRECISE SPEED CONTROL SYSTEM.
- AUTOMATIC CONTROL SYSTEM OF THE LENGTH AND SPACING OF CONVEX.
- DURABLE HARD TUNGSTEN ALLOY BOTTOM KNIFE.
- HIGH-STRENGTH PLATE WELDING OR ALUMINIUM DIE-CASTING MATERIAL BIN.
- SPECIAL WEAR-RESISTANT WHEEL AND PUNCHING RIM.
- SYNCHRONOUS GLASS BEADS DISPENSER.
- QUICKLY CHANGING MARKING SHOE.
- DURABLE SURFACE TREATMENT.



#### Technical Data:

Engine	6.0HP Honda Gasoline Engine
Air compressor	0.16m <sup>3</sup> /min
Drive system	Hydrostatic infinitely variable speed
Drive speed	Forward: 0-4Km/h, backward: 0-3.2Km/h
Maximum climbing ability	15°
Marking application	Convex line or flat line
Paint tank & Glass bead bin capacity	65L & 14L
Heating and insulation method	Direct-fired high-efficiency energy-saving stove, double-layer insulation
Marking width	Standard: Convex 200mm (Optional: flat 100/150/200/250/300, convex 200/250/300)
Marking thickness	Bottom line (Flat) 1.2-3.0mm (adjustable), Convex line 5-7mm (adjustable)
Dimension & Weight	1420x1070x1120mm & 260kg

# PART TWO 2.1

## THERMOPLASTIC ROAD MARKING MACHINE



### Small-size Driving-type Thermoplastic Road Marking Machine

**Model Number:** TR-DTP200

**Application Method:** Screeding

#### Product Description:

This machine is a compact driving-type(also called ride-on) thermoplastic road marking machine with high construction efficiency and strong flexibility, which can be widely used in the construction of small and medium-sized thermoplastic road marking projects.

#### Main Parts & Characteristics:

- HYDRAULIC DRIVEN CONSTANTLY VARIABLE SPEED TRANSMISSION SYSTEM
- INTELLIGENT MARKING CONTROL SYSTEM
- HORIZONTAL HYDRAULIC STIRRING SYSTEM
- SCREEDING APPLICATION METHOD ENSURES THE THICKNESS UNIFORM, EDGE STRAIGHT
- HIGH EFFICIENCY GAS HEATING SYSTEM WITH AUTOMATIC TEMPERATURE CONTROL
- COMFORTABLE RIDE-ON OPERATING EXPERIENCE
- GLASS BEADS SPRAYING SYSTEM



#### Technical Data:

Basic technical data	
Marking Method	Screeding application
Material Container Volume	200L paint tank
Glass bead container	100L
Air Compressor	0.6m <sup>3</sup> L/min
Heating and preservation Method	LPG fuel, infrared burner, conduction oil heating circulation system
Temperature Control Method	Manual or Automatic temperature control system
Marking Line Width	100/120/150/200/250/300/400mm available
Marking control method	Digital intelligent controller
Chassis information	
Engine Power	30KW diesel engine
Drive Unit	Hydraulic drive constantly variable speed transmission system
Moving speed and climbing ability	forward or backward, 0-22km/h, 10%
Overall Dimension	4000(L)x1910(W)x2100(H)
Weight	2000KG





### Big-size Driving-type Thermoplastic Road Marking Machine

**Model Number:** TR-DTP500

**Application Method:** Screeding

#### Product Description:

This machine is a compact driving-type(also called ride-on) thermoplastic road marking machine with high construction efficiency and strong flexibility, which can be widely used in the construction of small and medium-sized thermoplastic road marking projects.

#### Main Parts & Characteristics:

- HYDRAULIC DRIVEN CONSTANTLY VARIABLE SPEED TRANSMISSION SYSTEM
- INTELLIGENT MARKING CONTROL SYSTEM
- HORIZONTAL HYDRAULIC STIRRING SYSTEM
- SCREEDING APPLICATION METHOD ENSURES THE THICKNESS UNIFORM, EDGE STRAIGHT
- HIGH EFFICIENCY GAS HEATING SYSTEM WITH AUTOMATIC TEMPERATURE CONTROL
- (Standard configuration without automatic temperature control system)
- COMFORTABLE RIDE-ON OPERATING EXPERIENCE
- GLASS BEADS SPRAYING SYSTEM



#### Technical Data:

Basic technical data	
Marking Method	Screeding application
Material Container Volume	500L paint tank
Glass bead container	150L
Air Compressor	0.6m <sup>3</sup> L/min
Heating and preservation Method	LPG fuel, infrared burner, conduction oil heating circulation system
Temperature Control Method	Manual or Automatic temperature control system
Marking Line Width	100/120/150/200/250/300/400mm available
Marking control method	Digital intelligent controller
Chassis information	
Engine Power	34KW diesel engine
Drive Unit	Hydraulic drive constantly variable speed transmission system
Moving speed and climbing ability	Forward or backward, 0-22km/h, 10%
Overall Dimension	6000(L)x2200(W)x2200(H)
Weight	3500KG

### Hydraulic Double-cylinder Pre-heater

**Model Number:** TR-HDP450G

**Heating Method:** Gas heating

#### Product Description:

It is one of the required equipment for thermoplastic road line marking job, is often referred as thermoplastic paint boiler, kneader or Hot Melt kettle and so on, is mainly used for melting thermoplastic road marking paint. The quality and performance of Pre-heater often determines the construction efficiency of hot-melt road marking and the melting quality of marking paint. To choose the right pre-heater will be your first important step of doing thermoplastic road marking job well. Our pre-heater has advantages of high combustion efficiency, uniform heating distribution to ensure thermoplastic paint good and fast melted effect, and good construction performance.



#### Main Parts & Characteristics:

- HIGH EFFICENCY GAS HEATING FURNANCE.
- FILLING MULTI-LAYER HEAT PRESERVATION MATERIAL OUTSIDE TANK.
- HYDRAULIC STIRRING SYSTEM WITH OVERLOAD PROTECTION.
- 18HP SINGLE-CYLINDER DIESEL ENGINE.
- LARGE CAPACITY TANK WITH SPECIAL AGITATING VANE.
- OPTIONAL TEMPERATURE AUTOMATIC CONTROL SYSTEM.
- OPTIONAL CONDUCTION OIL JAKET OF TANK.

#### Technical Data:

Engine	18HP diesel engine Electric start and manual start.
Paint tank capacity	2x225L (about 700kg)
Stirring system	Hydraulic stirring system with overload protection.
Hydraulic Oil tank capacity	60L
Heating method	Saving-energy burner directly heating.
Heating fuel	LPG (Liquefied petroleum gas)
Fuel consumption	about 3kg/h
Applicable size of LPG tank	50kg
Heating temperature	0-300℃
Temperature control mode	Manual control
Dimension	1750x1750x1850mm
Weight	1500kg



### Hydraulic Double-cylinder Pre-heater

**Model Number:** TR-HDP450D

**Heating Method:** Gas heating

#### Product Description:

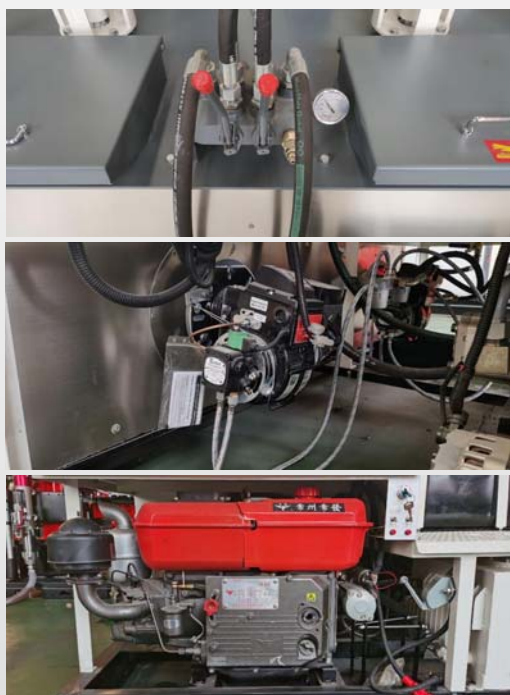
It is one of the required equipment for thermoplastic road line marking job, is often referred as thermoplastic paint boiler, kneader or Hot Melt kettle and so on, is mainly used for melting thermoplastic road marking paint. The quality and performance of Pre-heater often determines the construction efficiency of hot-melt road marking and the melting quality of marking paint. To choose the right pre-heater will be your first important step of doing thermoplastic road marking job well. Our pre-heater has advantages of high combustion efficiency, uniform heating distribution to ensure thermoplastic paint good and fast melted effect, and good construction performance.

#### Main Parts & Characteristics:

- IMPORTED HIGH EFFICIENCY DIESEL INJECTION BURNER
- FILLING MULTI-LAYER HEAT PRESERVATION MATERIAL OUTSIDE TANK.
- HYDRAULIC STIRRING SYSTEM WITH OVERLOAD PROTECTION.
- SINGLE-CYLINDER DIESEL ENGINE
- LARGE CAPACITY TANK WITH SPECIAL AGITATING VANE
- OPTIONAL TEMPERATURE AUTOMATIC CONTROL SYSTEM
- OPTIONAL CONDUCTION OIL JACKET OF TANK



#### Technical Data:



Engine	18HP diesel engine, Electric start and manual start.
Engine Start-up mode	Electric start and manual start.
Paint tank capacity	2x225L (about 700kg)
Stirring system	Hydraulic stirring system with overload protection.
Hydraulic Oil tank capacity	60L
Heating method	Imported diesel injection heater.
Heating fuel	Diesel
Fuel consumption	about 3L/h
Fuel tank capacity	50L
Heating temperature	0-300°C
Temperature control mode	Manual control
Dimension	2250x1750x1850mm
Weight	1850kg



### Hydraulic Double-cylinder Pre-heater

**Model Number:** TR-HDP450GD

**Heating Method:** Dual fuel heating system, both LPG and Diesel

#### Product Description:

It is one of the required equipment for thermoplastic road line marking job, is often referred as thermoplastic paint boiler, kneader or Hot Melt kettle and so on, is mainly used for melting thermoplastic road marking paint. The quality and performance of Pre-heater often determines the construction efficiency of hot-melt road marking and the melting quality of marking paint. To choose the right pre-heater will be your first important step of doing thermoplastic road marking job well. Our pre-heater has advantages of high combustion efficiency, uniform heating distribution to ensure thermoplastic paint good and fast melted effect, and good construction performance.



#### Main Parts & Characteristics:

- UNIQUE DUAL FUEL HEATER, BOTH LPG AND DIESEL CAN BE USED AS HEATING FUEL
- FILLING MULTI-LAYER HEAT PRESERVATION MATERIAL OUTSIDE TANK.
- HYDRAULIC STIRRING SYSTEM WITH OVERLOAD PROTECTION.
- EQUIPPED WITH SINGLE-CYLINDER DIESEL ENGINE
- 1000KG LARGE CAPACITY TANK WITH SPECIAL AGITATING VANE

#### Technical Data:

Engine	18HP diesel engine, Electric start and manual start.
Engine Start-up mode	Electric start and manual start.
Paint tank capacity	2x250L (about 1000kg)
Stirring system	Hydraulic stirring system with overload protection.
Hydraulic Oil tank capacity	60L
Heating method	Unique dual fuel heater, both liquefied gas and diesel can be used as heating fuel.
Heating fuel	liquefied gas or Diesel
Diesel consumption	about 3L/h
Diesel tank capacity	50L
Heating temperature	0-300°C
Temperature control mode	Manual control
Dimension	1980x1880x1800mm
Weight	1750kg



### Truck-mounted Cold-paint Road Marking Machine

**Model Number:** TR-TCP200

**Application Method:** Airless Spray

#### Product Description:

Truck mounted cold paint airless road marking machine is a practical marking equipment with high construction efficiency and low cost input, very suitable for the construction of road markings in countries or regions where the construction equipment is allowed to be carried on load carrying vehicle. It is equipped with one separate spraying system. It is oftentimes widely used for spraying cold-solvent paint, water-based paint and other single-component paint, can be applicable to various construction environments as well.

#### Main Parts & Characteristics:

- SINGLE PISTON TYPE HIGH PRESSURE PAINT PUMP
- AUTOMATIC RECIPROCATING HYDRAULIC CYLINDER
- DOUBLE LARGER CAPACITY PAINT TANK WITH PNEUMATIC STIRRING SYSTEM
- GLASS BEADS SPRAYING SYSTEM AS STANDARD CONFIGURATION.
- DOUBLE PNEUMATIC SPRAYING GUNS
- INTELLIGENT CONTROLLER AUTOMATICALLY CONTROL THE TYPE OF DOTTED LINE
- DURABLE SURFACE TREATMENT



#### Technical Data:

Engine	13HP gasoline engine:
Paint pump	20L/min, single super resistant alloy piston pump :
Paint pump control method	Automatic reciprocating cylinder
Working pressure	10-15Mpa
Rated Max. Pressure	20Mpa
Marking method	High pressure airless spraying application
Paint tank	1x100L with pneumatic stirring system (additional configuration)
Glass beads tank	86L
Spray gun	Standard equipped with two pneumatic spraying guns, and one manual spraying gun
Dimensions	1200x1200x1300mm (only the host dimension)
Weight	350kg (only the host weight)



### Truck-mounted Cold-paint Road Marking Machine

**Model Number:** TR-TCP200D

**Application Method:** Airless Spray

#### Product Description:

Truck mounted cold paint airless road marking machine is a practical marking equipment with high construction efficiency and low cost input, very suitable for the construction of road markings in countries or regions where the construction equipment is allowed to be carried on load carrying vehicle. It is equipped with two separate spraying system, can do two color line at one time, such as black and yellow line at airport. It can be applied to cold-plastic paint spraying (two-component 1:1 external mixing) as well. It is oftentimes widely used for spraying cold-solvent paint, water-based paint and other single-component paint, can be applicable to various construction environments as well.



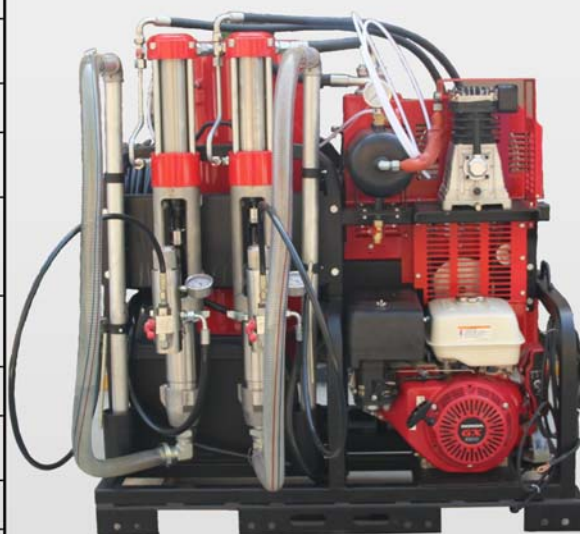
The chassis is not included in the sale.

#### Main Parts & Characteristics:

- DOUBLE PISTON TYPE HIGH PRESSURE PAINT PUMP
- AUTOMATIC RECIPROCATING HYDRAULIC CYLINDER
- DOUBLE LARGER CAPACITY PAINT TANK WITH PNEUMATIC STIRRING SYSTEM
- GLASS BEADS SPRAYING SYSTEM AS STANDARD CONFIGURATION.
- DOUBLE PNEUMATIC SPRAYING GUNS
- INTELLIGENT CONTROLLER AUTOMATICALLY CONTROL THE TYPE OF DOTTED LINE
- DURABLE SURFACE TREATMENT

#### Technical Data:

Engine	13HP gasoline engine:
Paint pump	20L/min, Dual super resistant alloy piston pump :
Paint pump control method	Automatic reciprocating cylinder
Working pressure	10-15Mpa
Rated Max. Pressure	20Mpa
Marking method	High pressure airless spraying application
Paint tank	2x100L with pneumatic stirring system (additional configuration)
Glass beads tank	86L
Spray gun	Standard equipped with two pneumatic spraying guns, and one manual spraying gun
Dimensions	1200x1200x1300mm (only the host dimension)
Weight	380kg (only the host weight)





### Hand-Push Cold Paint Road Marking Machine

**Model Number:** TR-HCP90

**Application Method:** Airless Spray

#### Product Description:

It is the most typical cold paint road marking machine, oftentimes called cold paint striper or cold striping machine as well, is widely used for spraying cold-solvent paint, water-based paint and other single-component paint, can be applicable to various construction environments as well. It has the characteristics of stable performance, flexible operation and convenient construction and so on.

#### Main Parts & Characteristics:

- PISTON TYPE HIGH PRESSURE PAINT PUMP
- AUTOMATIC RECIPROCATING HYDRAULIC CYLINDER
- NEW TYPE HYDRAULIC COOLING SYSTEM
- DOUBLE SPRAYING GUNS
- COMFORTABLE OPERATING EXPERIENCE
- DURABLE SURFACE TREATMENT



#### Technical Data:



Engine	5.5HP Honda gasoline engine
Marking method	High pressure airless spraying
Paint pump flow	9L/min
Rated maximum working pressure	20Mpa
Paint pump and control mode	Piston reciprocating, single pump
Applicable paint	Cold-solvent, water-based and other single-component paint
Marking width	100-600mm (adjustable)
Spray gun quantity	2 manual fixed spray gun
Glass beads bin capacity	10L
Dimension	1740x1000x1250mm
Weigh	150Kg

## PART TWO 2.3

### COLD PAINT ROAD MARKING MACHINE



#### Hand-Push Cold Paint Road Marking Machine

Model Number: TR-HCP120

Application Method: Airless Spray

##### Product Description:

It is the most typical cold paint road marking machine, oftentimes called cold paint striper or cold striping machine as well, is widely used for spraying cold-solvent paint, water-based paint and other single-component paint, can be applicable to various construction environments as well. It has the characteristics of stable performance, flexible operation and convenient construction and so on.



##### Main Parts & Characteristics:

- PISTON TYPE HIGH PRESSURE PAINT PUMP
- AUTOMATIC RECIPROCATING HYDRAULIC CYLINDER
- NEW TYPE HYDRAULIC COOLING SYSTEM
- DOUBLE SPRAYING GUNS
- COMFORTABLE OPERATING EXPERIENCE
- DURABLE SURFACE TREATMENT

##### Technical Data:

Engine	5.5HP Honda gasoline engine
Marking method	High pressure airless spraying
Paint pump flow	9L/min
Rated maximum working pressure	20Mpa
Paint pump and control mode	Piston reciprocating, single pump
Applicable paint	Cold-solvent, water-based and other single-component paint
Marking width	100-600mm (adjustable)
Spray gun quantity	2 manual fixed spray gun
Dimension	1780x980x1200mm
Weigh	150Kg

### Hand-Push Cold Paint Road Marking Machine

**Model Number:** TR-HCP90D

**Application Method:** Airless Spray

#### Product Description:

It is the most typical cold paint road marking machine, oftentimes called cold paint striper or cold striping machine as well, is widely used for spraying cold-solvent paint, water-based paint and other single-component paint, can be applicable to various construction environments as well. It has the characteristics of stable performance, flexible operation and convenient construction and so on.

#### Main Parts & Characteristics:

- DOUBLE PISTON TYPE HIGH PRESSURE PAINT PUMP
- AUTOMATIC RECIPROCATING HYDRAULIC CYLINDER
- NEW TYPE HYDRAULIC COOLING SYSTEM
- DOUBLE PNEUMATIC SPRAYING GUNS
- COMFORTABLE OPERATING EXPERIENCE
- DURABLE SURFACE TREATMENT
- GLASS BEADS SPRAYING SYSTEM



#### Technical Data:

Engine	6.0HP Honda gasoline engine
Air compressor output	0.16(m <sup>3</sup> /min) (spraying type)
Marking method	High pressure airless spraying
Paint pump flow	2x9 L/min
Rated maximum working pressure	20Mpa
Paint pump and control mode	Piston reciprocating, double pump
Applicable paint	Cold-solvent, water-based and twocomponent(1:1 external mixing)
Marking width	100-600mm (adjustable)
Spray gun quantity	Double pneumatic spray gun
Glass beads method & capacity	Spray, 10L
Dimension	1740x1000x1250mm
Weight	220Kg





## PART TWO 2.3

### COLD PAINT ROAD MARKING MACHINE



## Hand-Push Cold-Plastic Road Marking Machine

**Model Number:** TR-HCP120DS

**Application Method:** Airless Spray, Two-component 1:1 Internal mixing.

### Product Description:

It is a high performance cold paint airless road marking machine, oftentimes called cold paint striper or cold striping machine as well, is specially designed for two-component (1:1) internal mixing, its unique transmission structure design can ensure accurate mixing ratio, equipped with unique 1:1 internal mixing pneumatic spraying gun, It has excellent spraying performance, can be also widely used for spraying cold-solvent paint, water-based paint and other single-component paint through replacing spraying gun and its frame. It has the characteristics of stable performance, flexible operation and convenient construction and so on.



### Main Parts & Characteristics:

- SINGLE AUTOMATIC RECIPROCATING HYDRAULIC CYLINDER WITH LARGE FLOW
- DOUBLE PISTON TYPE HIGH PRESSURE PAINT PUMP
- SINGLE PNEUMATIC 1:1 INTERNAL MIXING SPRAYING GUNS
- NEW TYPE HYDRAULIC COOLING SYSTEM
- COMFORTABLE OPERATING EXPERIENCE
- DURABLE SURFACE TREATMENT
- GLASS BEADS SPRAYING SYSTEM

### Technical Data:

Engine	6.0HP Honda gasoline engine
Air compressor output	0.16(m <sup>3</sup> /min) (spraying type)
Marking method	High pressure airless spraying
Hydraulic Cylinder & Paint pump flow	20L/min cylinder & 2x9 L/min piston pump
Rated maximum working pressure	20Mpa
Paint pump and control mode	One reciprocating cylinder, Two piston pump
Applicable paint	Two-component (1:1 internal mixing)
Marking width	100–300mm (adjustable)
Spray gun	One Internal mixing pneumatic spray gun
Glass beads method & capacity	Spray, 10L
Dimension	2200x800x1300mm
Weight	210Kg



### Hand-Push Cold Paint Road Marking Machine

**Model Number:** TR-HCP120D

**Application Method:** Airless Spray

#### Product Description:

It is the most typical cold paint road marking machine, mainly used for cold-plastic external 1:1 spraying application, oftentimes called cold paint striper or cold striping machine as well, is widely used for spraying cold-solvent paint, water-based paint and other single-component paint, can be applicable to various construction environments as well. It has the characteristics of stable performance, flexible operation and convenient construction and so on.



#### Main Parts & Characteristics:

- DOUBLE PISTON TYPE HIGH PRESSURE PAINT PUMP
- AUTOMATIC RECIPROCATING HYDRAULIC CYLINDER
- NEW TYPE HYDRAULIC COOLING SYSTEM
- DOUBLE MANUAL SPRAYING GUNS, FLEXIBLE ADJUSTMENT
- COMFORTABLE OPERATING EXPERIENCE
- DURABLE SURFACE TREATMENT

#### Technical Data:

Engine	6.0HP Honda gasoline engine
Air compressor output	0.16(m <sup>3</sup> /min) (spraying type)
Marking method	High pressure airless spraying
Paint pump flow	2x9 L/min
Rated maximum working pressure	20Mpa
Paint pump and control mode	Piston reciprocating, double pump
Applicable paint	Cold-solvent, water-based and twocomponent(1:1 external mixing)
Marking width	100-600mm (adjustable)
Spray gun quantity	Double pneumatic spray gun
Glass beads method & capacity	Spray, 10L
Dimension	1780x980x1200mm
Weight	210Kg

### Hand-Push Cold Paint Road Marking Machine

**Model Number:** TR-HCP40

**Application Method:** Airless Spray

#### Product Description:

It is also known as cold paint road marking machine, cold paint striper or line striping machine, has advantages of less investment, light weight, easy to ship etc. It is special designed for parking lots, schools, hospitals, factories and other small engineering construction occasions and a variety of small cold paint line marking job.

#### Main Parts & Characteristics:

- STEADY AND ABUNDANT POWER SUPPLY
- STABLE AND WEAR RESISTANCE DIAPHRAGM PUMP
- LIGHTWEIGHT ANTI-SEISMIC CHASSIS
- COMFORTABLE OPERATING EXPERIENCE
- DURABLE SURFACE TREATMENT



#### Technical Data:

Engine	5.5 or 6.0HP Gasoline engine
Paint Pump	Diaphragm type pump
Pump flow	2.8L/min
Applicable paint	Cold-solvent paint and water-based paint
Marking width	50-150mm (adjustable)
Spray gun configuration	One manual spraying gun as standard
Dimension	1800x680x930 mm
Weight	87Kg





### Hand-Push Cold Paint Road Marking Machine

**Model Number:** TR-HCP40S

**Application Method:** Airless Spray

#### Product Description:

It is also known as cold paint road marking machine, cold paint striper or line striping machine, has advantages of less investment, light weight, easy to ship etc. It is special designed for parking lots, schools, hospitals, factories and other small engineering construction occasions and a variety of small cold paint line marking job.

#### Main Parts & Characteristics:

- STEADY AND ABUNDANT POWER SUPPLY
- STABLE AND WEAR RESISTANCE DIAPHRAGM PUMP
- LIGHTWEIGHT ANTI-SEISMIC CHASSIS
- COMFORTABLE OPERATING EXPERIENCE
- DURABLE SURFACE TREATMENT



#### Technical Data:

Engine	5.5 or 6.0HP Gasoline engine
Paint Pump	Diaphragm type pump
Pump flow	2.8L/min
Applicable paint	Cold-solvent paint and water-based paint
Marking width	50-150mm (adjustable)
Spray gun configuration	One manual spraying gun as standard
Dimension	1780x690x935 mm
Weight	82Kg

### Small-size Driving-type Cold Paint Road Marking Machine

**Model Number:** TR-DCP200

**Application Method:** Airless Spray

#### Product Description:

This machine is a compact driving-type(also called ride-on) cold paint road marking machine with high construction efficiency and strong flexibility, which can be widely used in the construction of small and medium-sized cold paint road marking projects.



#### Main Parts & Characteristics:

- HYDRAULIC DRIVEN CONSTANTLY VARIABLE SPEED TRANSMISSION SYSTEM
- INTELLIGENT MARKING CONTROL SYSTEM
- AUTOMATIC RECIPROCATING HYDRAULIC CYLINDER DRIVEN
- DOUBLE PISTON TYPE HIGH PRESSURE PAINT PUMP
- DOUBLE PNEUMATIC SPRAYING GUNS WITH ONE MANUAL SPRAYING GUN
- COMFORTABLE RIDE-ON OPERATING EXPERIENCE
- GLASS BEADS SPRAYING SYSTEM

#### Technical Data:

Basic technical data	
Air Compressor Delivery Rate	0.45m <sup>3</sup> /min
Glass Bead Dispensing Method	Sprayable (pressure adjustable)
Material Container Volume	200L
Glass Bead Container	50L
Delivery Rate of pump	Two pumps, 9L/min for each
Pump Control Method	Automatic reciprocating oil cylinder
Marking Line Width	50-500mm (adjustable)
Spray Gun Quantity	2 pneumatic spray guns and 1 hand spray gun
Chassis information	
Engine Power	22.5KW Gasoline engine
Drive Unit	Hydraulic drive constantly variable speed transmission system
Moving speed and climbing ability	forward or backward, 0-22km/h, 10%
Overall Dimension	4000(L)x1840(W)x2200(H)
Weight	2000KG

### Big-size Driving-type Cold Paint Road Marking Machine

**Model Number:** TR-DCP500

**Application Method:** Airless Spray

#### Product Description:

This machine is a compact driving-type(also called ride-on) cold paint road marking machine with high construction efficiency and strong flexibility, which can be widely used in the construction of small and medium-sized cold paint road marking projects.

#### Main Parts & Characteristics:

- LARGE CAPACITY ENSURES LONG-DISTANCE AND CONTINUOUSLY ROAD MARKING JOB
- HYDRAULIC DRIVEN CONSTANTLY VARIABLE SPEED TRANSMISSION SYSTEM
- INTELLIGENT MARKING CONTROL SYSTEM
- VERTICAL HYDRAULIC STIRRING SYSTEM
- AUTOMATIC RECIPROCATING HYDRAULIC CYLINDER DRIVEN
- DOUBLE PISTON TYPE HIGH PRESSURE PAINT PUMP
- DOUBLE PNEUMATIC SPRAYING GUNS WITH ONE MANUAL SPRAYING GUN
- COMFORTABLE RIDE-ON OPERATING EXPERIENCE
- GLASS BEADS SPRAYING SYSTEM



#### Technical Data:

Basic technical data	
Air Compressor Delivery Rate	0.45m <sup>3</sup> /min
Glass Bead Dispensing Method	Sprayable (pressure adjustable)
Material Container Volume	500L
Glass Bead Container	150L
Delivery Rate of pump	Two pumps, 20L/min for each
Pump Control Method	Automatic reciprocating oil cylinder
Marking Line Width	50-500mm (adjustable)
Spray Gun Quantity	2 pneumatic spray guns and 1 hand spray gun
Chassis information	
Engine Power	35KW diesel engine
Drive Unit	Hydraulic drive constantly variable speed transmission system
Moving speed and climbing ability	forward or backward, 0-22km/h, 10%
Overall Dimension	6000(L)x2200(W)x2200(H)
Weight	3500KG



## PART TWO 2.4

### COLD PLASTIC ROAD MARKING MACHINE



## Self-propelled Cold Plastic (Two-component) Road Marking Machine

**Model Number:** TR-STC65 & TR-STCP15

**Application Method:** Screed or Structural-type

### Product Description:

TR-STC65 Type is the most widely used two-component road marking machine. By changing the marking shoe, it is easy to realize construction of various two-component line types such as structural line, the flat line, rib lines with bottom line or without bottom line.



### Main Parts & Characteristics:

- PRECISE SPEED CONTROL AND ADJUSTMENT
- CONVENIENT TO CONTROL MIXING RATIO OF PAINT AND HARDENER
- EASY TO ACHIEVE A VARIETY OF APPLICATIONS THROUGH CHANGING DIFFERENT MARKING DEVICE.
- GLASS BEADS DISPENSER, SYNCHRONIZE WITH THE MARKING SYSTEM.
- INTEGRATED CONTROL PANEL ENHANCES AUTOMATION
- SPECIAL SURFACE COATING, DURABLE



TT-STCP15 type is a simple type, specially design for Pedestrian line marking or other wide lines.



### Technical Data:

Model Number	TT-STC65	TT-STCP15
Engine	6.0HP Gasoline engine	5.5HP gasoline engine
Drive system	Hydraulic stepless transmission system (HTS)	Mechanical drive
Drive speed(km/h)	Forward: 0-4, backward:0-3.2	Forward: 0-1
Maximum climbing ability	15°	15°
Paint tank capacity (L)	40	\
Glass beads bin (L)	14	13
Hardener bin capacity(L)	5	Pre-mix hardener
Marking width (mm)	Standard configuration:150 (Optional: 100/200/250/300/350/400/450/ 500)	Standard configuration : 450 (Optional: 300/350/400/500)
Dimension(mm)	1600x1350x1350	1300x1000x1100
Weight (Kg)	280	150 (equipped with 450mm hopper)

### Self-propelled Cold Plastic (Two-component) Road Marking Machine

**Model Number:** TR-STC65S

**Application Method:** Screed or Structural-type

#### Product Description:

TR-STC65 Type is the most widely used two-component road marking machine. By changing the marking shoe, it is easy to realize construction of various two-component line types such as structural line, the flat line, rib lines with bottom line or without bottom line.

#### Main Parts & Characteristics:

- PRECISE SPEED CONTROL AND ADJUSTMENT
- CONVENIENT TO CONTROL MIXING RATIO OF PAINT AND HARDENER
- EASY TO ACHIEVE A VARIETY OF APPLICATIONS THROUGH CHANGING DIFFERENT MARKING DEVICE.
- GLASS BEADS DISPENSER, SYNCHRONIZE WITH THE MARKING SYSTEM.
- INTEGRATED CONTROL PANEL ENHANCES AUTOMATION
- SPECIAL SURFACE COATING, DURABLE



#### Technical Data:

Model Number	TT-STC65
Engine	6.0HP Gasoline engine
Drive system	Hydraulic stepless transmission system (HTS)
Drive speed(km/h)	Forward: 0-4, backward:0-3.2
Maximum climbing ability	15°
Paint tank capacity (L)	40
Glass beads bin (L)	14
Hardener bin capacity(L)	5
Marking width (mm)	Standard configuration:150 (Optional: 100/200/250/300/350/400/450/ 500)
Dimension(mm)	1650x1360x1360
Weight (Kg)	230

### Small Road Marking Grinding Machine

**Model Number:** TR-AHR3 / TR-SBR12

**Application Method:** Horizontal rotary grinding

#### Product Description:

It is a kind of portable and economical mechanical road marking grinding equipment. It can be divided into two types of TR-AHR3 Alloy-head type and TR-SBR12 Steel-brush Type according to the different grinding head and application field. In which, TR-AHR3 Alloy-head type is mainly used for grinding thermoplastic road marking line or other road lines with a certain thickness. TR-SBR12 Steel-brush Type can not only be used for the removal of oil, mud and other heavy dirt on the road surface or road surface treatment before marking construction, but also for the removal of solvent road marking line at room temperature (before the removal, a sufficient amount of black solvent matching the intended removal mark is coated on the surface of the marking line, and the intended removal mark can be cleaned after the film is softened.)



TR-AHR3 Alloy-head type



TR-SBR12 Steel-brush Type

#### Technical Data:

Model No	TR-AHR3 Alloy-head type	TR-SBR12 Steel-brush Type
Engine	10.5hp gasoline engine	6.0/7.5HP gasoline engine
Grinding head	Combined with hard alloy	Multi-beam steel brush
Working mode	Horizontal rotary grinding	Horizontal rotary grinding
Grinding width (mm)	180-620	100-450
Grinding depth (mm)	0-2.5 (adjustable)	0-0.1 (adjustable)
The main function	Grinding thermoplastic line or other lines with a certain thickness.	Clearing solvent road marking line, or clean up the stubborn dirt of the road, etc
Overload protection	Centrifugal clutch	/
Dimension (mm)	1240×770×1100	875×505×1140
Weight	230 kg	110 kg



### Hydraulic Driver

**Model Number:** TR-HD16

**Drive Method:** Hydraulic driving

#### Product Description:

It can be used to connect to all kinds of hand-push type machines, which can effectively reduce the labor intensity of operators and improve the construction efficiency of working, to double your productivity.

#### Main Parts & Characteristics:

- HYDRAULIC STEPLESS VARIABLE SPEED DRIVE SYSTEM
- COMFORTABLE DRIVING EXPERIENCE
- DIRECTION ADJUSTABLE LIGHTING AND SAFE PARKING BRAKE SYSTEM
- GOOD ANTICORROSIVE AND ANTIRUST PERFORMANCE



Some application Scenes

#### Technical Data:

Engine	6.0HP gasoline engine
Drive system	Imported stepless variable speed system
The traveling speed (km/h)	0-16 forward and 0-10 backward
Climbing ability	15°
Connect type	Buckle type (equipped with host docking device), the connecting rod can be adjusted according to the height
Dimension (mm)	1550×720×1050
Weight	120 kg

## PART TWO 2.5

### AUXILIARY MACHINE FOR ROAD MARKING



#### Hydraulic Driver

**Model Number:** TR-HD16S

**Drive Method:** Hydraulic driving

##### Product Description:

It can be used to connect to all kinds of hand-push type machines, which can effectively reduce the labor intensity of operators and improve the construction efficiency of working, to double your productivity.



##### Main Parts & Characteristics:

- HYDRAULIC STEPLESS VARIABLE SPEED DRIVE SYSTEM
- COMFORTABLE DRIVING EXPERIENCE
- DIRECTION ADJUSTABLE LIGHTING AND SAFE PARKING BRAKE SYSTEM
- GOOD ANTICORROSIVE AND ANTIRUST PERFORMANCE

##### Technical Data:

Engine	6.0HP gasoline engine
Drive system	Imported stepless variable speed system
The traveling speed (km/h)	0-16 forward and 0-10 backward
Climbing ability	15°
Connect type	Buckle type (equipped with host docking device), the connecting rod can be adjusted according to the height
Dimension (mm)	1560×730×1040
Weight	115 kg

### Primer Spraying Machine

**Model Number:** TR-PSM33

**Application Method:** Air spray

#### Product Description:

It is a hand-push type low-pressure air-assisted spraying equipment, which is mainly used for spraying the primer on the working pavement before marking construction.

#### Main Parts & Characteristics:

- STRONG AND STABLE POWER
- HIGH PERFORMANCE AIR COMPRESSOR, STABLE AIR FLOW
- MANUAL SPRAY GUN WITH FAN-TYPE NOZZLE, REDUCE DISPERSION AND EVEN COATING FILM.
- WALKING LIGHTLY, TAIL WHEEL LOCK DIRECTION IS EASY TO WALK IN A STRAIGHT LINE, TO ENSURE FLXIBLE TURNING AS WELL
- DURABLE SURFACE TREATMENT



#### Technical Data:

Engine	6.0HP gasoline engine
Spraying method	Air assisted spraying
Air compressor	0.28m <sup>3</sup> /min, 0.8MPa
Spray width (mm)	50-300 (adjustable)
Number of spray guns	1 fixed spray gun
Bucket capacity (L)	33 (pressure tank)
Directional steering	Mechanism rear
Dimension (mm)	1380×1000×900
Weight (Kg)	113



## PART TWO 2.5

### AUXILIARY MACHINE FOR ROAD MARKING



#### Small Road Cleaning Machine

**Model Number:** TR-WFC38 & TR-RSC25

**Application Method:** Wind-force cleaning & Rolling Sweep cleaning

**Product Description:**

It is a kind of light and economical mechanical road cleaning equipment, mainly used for cleaning road dust, leaves and other sundries. According to the different ways of cleaning, it is mainly divided into TR-WFC38 wind-force cleaning machine and TR-RSC25 Rolling Sweep cleaning machine.



TR-RSC25 Rolling Sweep cleaning machine



TR-WFC38 wind-force cleaning machine

**Technical Data:**

Model No.	TR-RSC25	TR-WFC38
Engine	6.0 HP gasoline engine	6.0 HP gasoline engine
Wind force (10N/m <sup>2</sup> )	12	32
Blowing rate (m <sup>3</sup> / min)	25	38
Diameter of roller brush (mm)	230	–
Rated speed of roller brush (r/min)	2000	–
Rated speed of blower (r/min)	2800	2800
Dimension (mm)	1200×800×800	1635 ×510× 930
Weight (kg)	110	120

### Pre-marking Machine

**Model Number:** TR-PMM33

**Application Method:** Wind-force cleaning & Rolling Sweep cleaning

#### Product Description:

Before road marking job, a reference line, also known as pre-marking line, is usually required to be drawn in advance in order to ensure the straightness of the road marking. TR-PMM33 pre-marking machine is specially designed for this kind of construction operation. The machine can draw up to four pre-marking lines at the same time, effectively improving the construction efficiency of road marking.



#### Technical Data:

Number of pre-marked lines	1-4
Tank Capacity (L)	33
Directional steering	Rear Position
Dimension (mm)	1445×700×1320
Weight (Kg)	100

### Electric loader

**Model Number:** TR-EL500

**Application Method:** Wind-force cleaning & Rolling Sweep cleaning

#### Product Description:

It is used for loading and unloading small road marking machine, small marking auxiliary machinery or other construction materials, which is fixed on the transport vehicle.



#### Technical Data:

Lifting way	Electric
Motor voltage (V)	12/24
Lifting weight (kg)	500
The wire length (m)	7.6
Weight (kg)	35

## Road Studs

### Product Description:

TOURAN TRAFFIC road studs are ideal for making the road layout visible in darkness and poor weather; they can be heard and felt when they are driven over. Anchor on the underside of the road stud strengthens the structure of the body and enables it to best spread pressure onto the substructure. It also increases adhesion when the markers are stuck down.

### Key Features:

- Aluminum body or plastic-bodied with strong compression resistance.
- Aluminum alloy body ensures durability on high-impact, Plastic-bodied road studs is very durable as well for long-term use.
- Durable REFLECTIVES, consistently high reflectivity values
- Creates a “rumble effect” that can be heard and felt when driven over
- Self-cleaning effect with rain and car tyres rolling over it
- Ease of use and fitting, also has recessed grips at the sides



### Specification:

Body material: ALUMINIUM or PLASTIC.

Type of reflectives: Glass reflector, Plastic reflector, Solar LED

Colours: white, yellow, red. Dimension: 100\*100\*20mm, Length of anchor if have: 45-50mm

### Installation recommendations:

- 1. Placing security isolation facilities for installation work is most important and must not be ignored. In the whole process of dynamic construction, no matter in a new closed road or a running road, every installers shall be in the isolation area. If in a running road, the ratio between security personnel and the installing personnel shall be 1:1; If in a closed road, 1:3.
- 2. Locate the installing position and ensure it is flat. For curving, cracked or uneven pavement, straighten it prior to installation.
- 3. Clean the installation location with a brush, meanwhile ensure the location is dry.
- 4. Glue the road stud thoroughly with proper amount of epoxy glue.
- 5. Firmly mount the stud on the fixing location & ensure the reflective part is facing the right traffic direction. Do clean the spilled epoxy glue if excessive amount is used.
- 6. Inspect the installed studs within 2hrs after installation, ensuring that all the studs are fixed in correct direction or not crooked.
- 7. Remove the isolation facilities in 4hrs after the stud's installing glue is thoroughly cured.

### Application area:

- Road Delineation • Accident black-spots / cluster sites • Hazardous road layouts
- Areas adversely affected by poor visibility • Cycle path • Car parks
- Railway crossings outside of urban areas • Harbour fronts and landing stages

### Packaging

Carton: 47\*26\*33cm; 60-100pcs/carton

(The quantity of each carton is different for different specifications)





### Road Signs

#### Product Description:

Road signs based on color, shape, character, graphics, etc to give information to road users, is a commonly used traffic facilities to manage traffic. Road signs should be combined with road and traffic conditions. Through road signs to provide accurate and timely information and guidance, arrive fast and smooth road users, promote smooth traffic and road safety.

#### Classification:

According to their real function, Road signs are classified into two categories of the main sign and auxiliary sign.

##### > A) main signs:

- 1) Warning signs: Warning vehicles, people pay attention to road traffic situation;
  - 2) Prohibitory signs: Prohibited or restricted the traffic behavior of vehicles and pedestrians ;
  - 3) Indication signs: Indicating the mark of vehicles and pedestrians should follow;
  - 4) Direction signs: Road direction, place, distance message sign;
  - 5) Tourist signs: Provide direction of tourist attractions, a sign of distance;Working in the
  - 6) Work area signs: Inform road construction or other works area to vehicles and pedestrians ;
  - 7) Notice signs: Inform road facilities, safety information and other information.
- ##### > B) Auxiliary sign: attached under the main sign, auxiliary instructions to main signs.

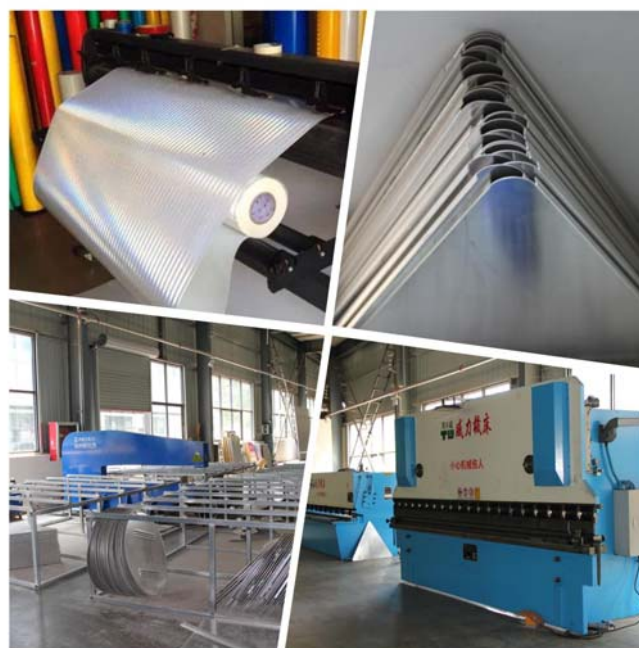


#### Advantages:

TOURAN TRAFFIC use high quality aluminum plate as the base material, choose 3M reflective film as the reflective material. High precision cutting machine cutting aluminum plate, automatic computer engraving machine cutting reflective graphics, constant temperature film workshop processing finished products. Excellent manufacturing technology and high quality

#### Packaging

Standard protective packaging to ensure the safety of long distance transportation.



## PART THREE 3.3

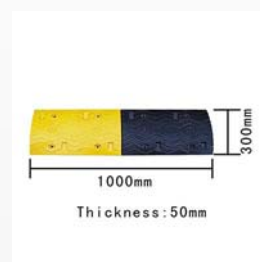
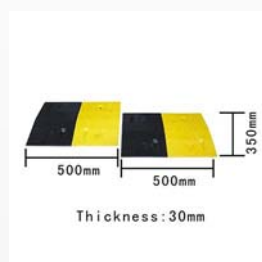
### ROAD SAFETY FACILITIES-SPEED BUMP

## Speed Bump

### Product Description:

Speed bumps, also known as speed humps, are traffic devices installed on road to slow down passing vehicles. The shape is generally strip, but also punctate. The material is mainly rubber, but also metal. Generally yellow and black to attract visual attention, so that the road slightly arch to achieve the purpose of vehicle deceleration. The ideal speed bump must ensure that when the vehicle passes, the vehicle will not lose control, the important safety parts will not fracture and other dangerous conditions, and should have high driving and structural safety.

### Specification:



Model	TR-RSB501	TR-RSB502
Length	500 mm/pc	500 mm/pc
Width	500 mm/pc	350 mm/pc
Height	50 mm/pc	30 mm/pc
Weight	16.2 kg/pc	10.6 kg/pc
Elongation at break	430%	430%
The stretching length	15.2MPa	15.2MPa
Bear the weight	20 tons	20 tons

Model	TR-RSB1001	TR-RSB1002
Length	1000 mm/pc	1000 mm/pc
Width	380 mm/pc	300 mm/pc
Height	50 mm/pc	50 mm/pc
Weight	16 kg/pc	12 kg/pc
Elongation at break	430%	430%
The stretching length	15.2MPa	15.2MPa
Bear the weight	20 tons	20 tons

### Advantages:

Touran's rubber speed bump has following features:

- Portable: they are easy to use, such as parking lot, supermarket, etc.
- Highly Visible: with eye-catching reflective film.
- Modle: Made by advanced technology, not easy to be out of shape.
- Durable: Made of new rubber material, not recycled material.

### Packaging

Plastic woven bag.



### Traffic Cone & Warning Column

#### Product Description:

**Traffic cone**, also known as conical signpost, road cone, is a road traffic isolation warning facilities. It is generally located in the need to temporarily separate traffic flow, guide traffic, guide vehicles to bypass dangerous sections, protect the construction site facilities and personnel and other places around.

**Warning column** is crash-resistant and flexible, and is used to isolate roads, buildings and parking spaces, act as a warning for moving vehicles.

#### Performance characteristics:

With good flexibility, hard impact will not be damaged, sun protection, not afraid of wind and rain, heat resistance, cold resistance, no cracking, no color -40~70°C temperature without cracking, softening phenomenon, weather resistance more than 2 years.

#### Surface features:

Cone surface reflective materials are reflective film, PVC reflective cone set, reflective powder, customers can choose according to the specific situation.

#### Application occasions:

It is widely used in expressways, crossing lanes, road construction sections, dangerous areas, stadiums, parking lots and hotels, residential areas and other places. It is a necessary important traffic safety facility for traffic management, municipal administration, road administration, urban construction, troops, shops, organs and other units.

#### Packaging

Plastic woven bag.

#### Specification:

##### Traffic Cone:

Available specification of height is 45cm, 50cm, 70cm, 90cm.

Main raw material is RUBBER/PLASTIC/PE/PVC.

##### Warning Column:

Available specification of height is 45cm, 75cm, 90cm.

Main raw material is PU/PVC/EVA.





## Convex Mirror

### Product Description:

Convex mirror is also called wide – Angle mirror, reflector, turning mirror. Mainly used for all kinds of curves and junctions. Can expand the driver's vision, early detection of vehicles on the other side of the curve, in order to reduce the occurrence of traffic accidents, also used for supermarket anti-theft, monitoring dead corner.



### Advantages:

Touran's convex mirror has following features:

- Not easy to wear, anti ultraviolet sunlight, durable endurance.
- Strong, durable performance and shatterproof performance.
- The mirror image is clear, clear and easy to install.
- The mirror is light, safe and reliable.
- Just use a soft cloth or sponge, warm water gently clean.
- Mirror material: imported PC or acrylic. Mirror back material: aging resistant glass steel.

### Specification:

#### Indoor type:

Available specification of diameter is 30cm, 45cm, 60cm, 80cm.

#### Outdoor type:

Available specification of diameter is 60cm, 80cm, 100cm 120cm.

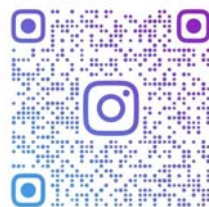
### Packaging

Carton, 2pc per carton.





WhatsApp



Instagram

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