

## **GTS-40E/S TUNDISH SPRAYING MACHINE**

### **1. Description**

GTS-40E/S Tundish Spraying Machine is a highly developed combined mixing unit, pump unit and spraying unit for the spraying of refractory-slurry masses for Tundish-repair in steel mills. The combination of Ø250 continuous mixer and vertical screw pump 2L7 guarantees a homogenous mix of high quality refractory masses for efficient and utmost economical coating of Tundishes. This equipment is widely used in modern steel mills with continuous casting units to ensure undisturbed operation.

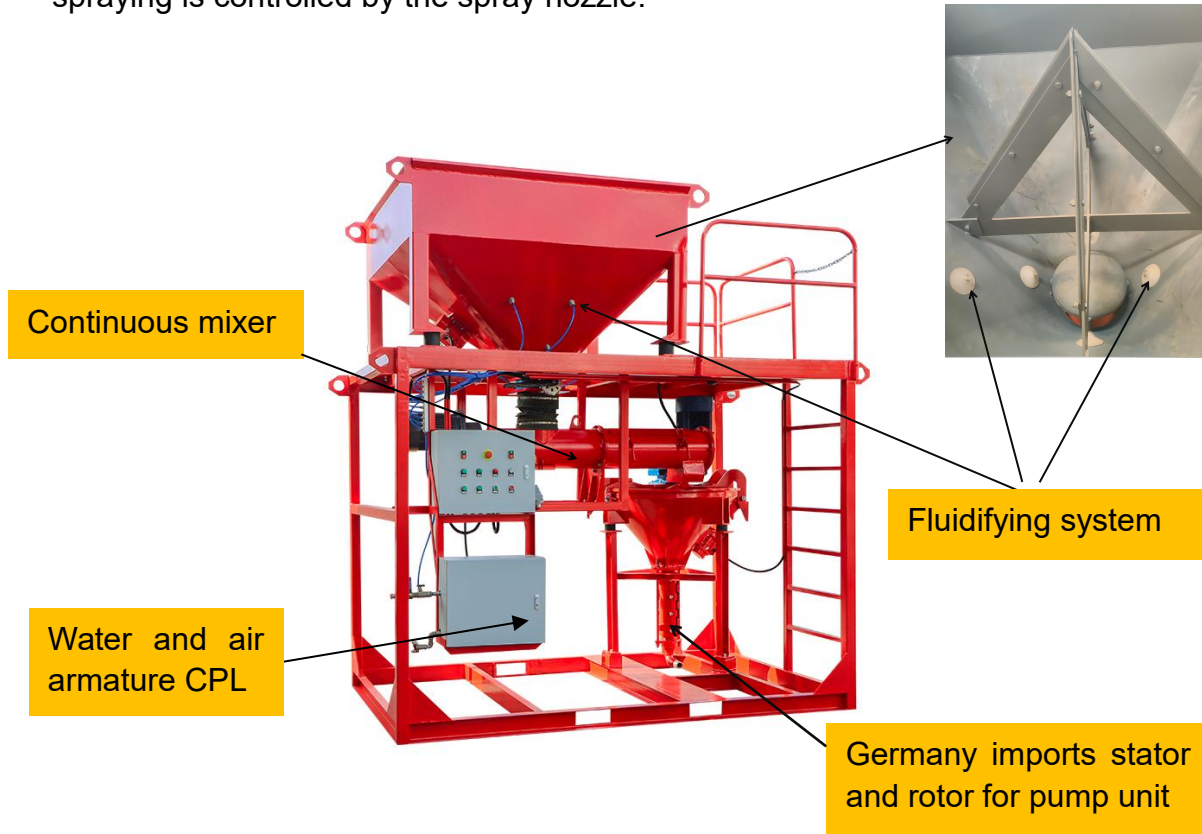


### **2. Working Principle**

The dry pre-mixed slurry masse is charged from big bags into the material hopper. The combination of a fluidization unit with a vibrator assures a steady flow of the dry material and provides a safe charging of the continuous mixer. In the continuous mixer, the dry material is continuously mixed with an adjustable quantity of water to a high quality spray slurry with constant consistency and quality.

The ready mixed wet material flows from the continuous mixer into the wet mortar hopper of the screw pump. The screw pump has a funnel shaped wet mortar hopper with a concentric pump drive. A vibrator together with the conveying shaft in the wet mortar refractory hopper is guaranteeing a trouble free steady flow of the slurry masses to the suction opening of the vertically arranged screw pump.

The screw pump is conveying the refractory material through pressure resistant hoses to the spray gun ready for further processing. The gunning material is applied manually or fully automatically and without any loss by a spray manipulator in constant layers at the inside walls of the Tundish. The spraying is controlled by the spray nozzle.



### **3. Product Feature**

◆ **Frame**

A steel frame with ladder, platform and rails detachable for transport herein included

◆ **1500L Hopper**

Dry mortar hopper with BIG-BAG-cutter detachable for transport

BIG-BAG cutter

Fluidifying system on dry mortar silo with compressed air control

OLI Vibrator for dry mortar refractory hopper

**◆ Continuous Mixer**

Transferring and stirring 2 parts

The mixing blade is made of wear-resistant steel and, which can easily replace the blade.

GEKA quick connector (water filling port)

**◆ Pump Unit**

Hopper with vibrator

Vertical mortar screw pump

Germany imports stator and rotor

Level probe for wet mortar hopper (Optional part)

**◆ Control System (safe, and easy to operate)****◆ Water and Air Armature CPL**

Air control :

Water control: for continuous mixer

**◆ 350L Water Tank (optional part)**

304 stainless steel water tank

A heating and pressurization system

GEKA quick connector

**4. Product Advantage**

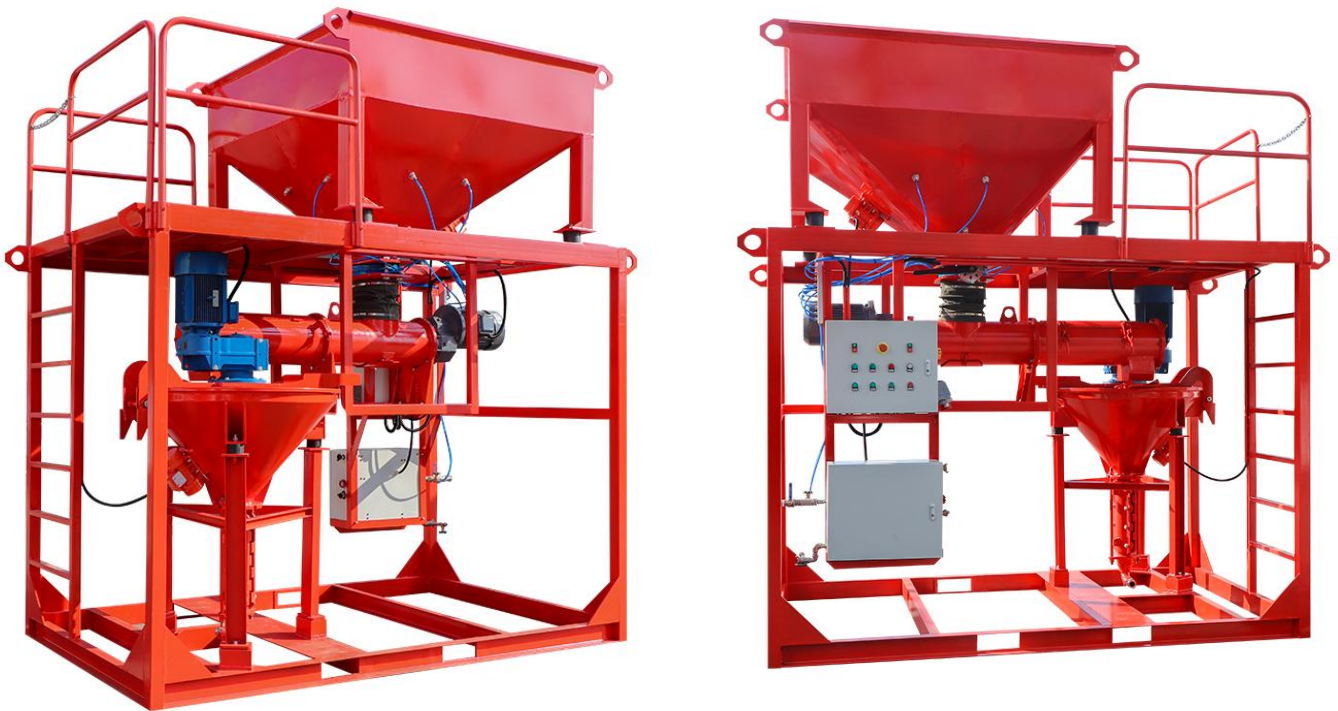
- ★ Always homogenous mix by steadily working continuous mixer;
- ★ Adjustable, controlled water-material proportion;
- ★ Constant conveying of wet material;
- ★ Long lifetime by adjustable pressure and in case of wear adjustable screw pump;
- ★ Few wearing parts and low wear because of the use of high quality materials;
- ★ No dust rising during spraying;
- ★ Fast and easy cleaning of all machine parts that have been in contact with wet mortar refractory;

- ★ Joint free, monolithic coating of Tundish linings;
- ★ Safe and easy working conditions.

## 5. Technology Sheet

<b>Technical Data :</b>	
<b>Model</b>	<b>GTS-40E/S Tundish Spraying Machine</b>
Useful volume of the hopper	1.5m <sup>3</sup>
Mixer motor	5.5Kw
Mixing output	40L/min
Pump motor	7.5Kw
Pump output	40L/min
Conveying pressure	20bar, Max. 40 bar
Conveying distance, horizontally	Max. 40m
Conveying height	Max. 20m
Max. aggregate size	6mm
Hose connection to the pump	ID32
Required water connection	ID25/3bar
Required air connection	ID25/6bar
Required compressed air	300L/min for spraying
Operating voltage	380V, 50Hz 3phase, customized voltage
Overall dimension	3000(L)× 1780(W)× 3250(H)mm
Weight	1635Kg
Note: 1. All data are tested by water. 2. We can customize products according to your requirements.	

## 6. Tundish Gunning Spraying Machine Pictures Gallery



### Gaode Equipment Co., Ltd.

Add: No.1307, R&D Building #5, Block B, National University Science and Technology Park of Henan Province, No.11 Changchun Road, High-Tech District, Zhengzhou City, China

Web: [www.gaodetec.com](http://www.gaodetec.com);

Email: [info@gaodetec.com](mailto:info@gaodetec.com)