

concrete floor milling machine and floor grinding cutter and concrete planer cutter

Concrete ground milling machine

Floor milling machine is usually used for:

1. Remove the surface of concrete floor, asphalt floor, epoxy resin ground and wear-resistant ground;
2. Remove the flooring coating, paint and a number of road markings; When the flooring is broken and soiled and it is necessary to be renovated,
3. Remove the historic ground surface, etc.
4. Waterproof remedy and roughening of bridge deck surface, flatness and water-resistant cure of high-speed railway box girder.
5. Remove airport markings, runway tire braking marks, etc., and regain the surface with excessive friction coefficient.

In China, there are many sorts and configurations of concrete floor milling machines, which are essentially decided in accordance to the milling width. At present, the common widths of concrete floor milling machines on the market are 200mm, 250mm, 300mm and 350mm. The energy is outfitted with a fuel engine or an electric powered motor, and a floor preparation milling machine with an electric powered motor is cheaper. At the same time, the velocity of the planer with electric powered motor is decrease (the maximum velocity of the 2-pole motor is 2800 RPM) and the velocity of the planer with fuel engine is greater (the maximum velocity is 3600 RPM), so the overall performance of the concrete milling machine with fuel engine is better than milling machine with electric powered motor.

Of course, gasoline milling machine has greater requirements for operators, and the requirements for the operator are enormously decrease due to the preservation of the electric powered milling machine is simpler. As for the hassle of dust collection, the interface of dust collector is reserved for concrete flooring milling machines, and customers can allocate industrial vacuum additionally.

The concrete floor milling machine outfitted with fuel engine has the energy of 5.5 HP, 9 HP, thirteen HP and 20 hp. If it is solely used to deal with the historical floor, renovate the paint and resin, it is OK to use the milling width of 200mm, outfitted with 5.5 HP fuel engine, four cutter shafts, round 70 blades and the weight of about 80kg.

In latest years, with the improvement of China domestic high-speed railway construction, many domestic floor milling machine manufacturers (such as GDT[gooddiamondtool]) have produced heavy floor grinding machines, most of which are outfitted with 6 cutter shafts with a cutter drum width of 320mm. They are appropriate for grinding a large-size floor, cleansing of concrete pavement marking lines, roughening and leveling of concrete floor, bridge surface and pavement, and cleansing of historic coating on the floor. The heavy floor grinding machine adopts heavy load design, which entirely meets the desires of high load engineering and is used for cleansing the floor of excessive hardness concrete. As a consumable part, milling machine blade has a lot of demand. For example, for milling, roughening and elevation leveling of high-grade (C50 or above) cement bridge deck or box girder, a scarifier drum width of 250mm, with 6 cutter shafts, one hundred blades, 6-8-point carbide blades provided by GDT China, additionally the planer outfitted with fuel energy power of 9-13 HP or motor power of greater than 7.5kW, and weight of about 130kg shall be used, in any other case, the milling overall performance is very poor.

Concrete floor milling machine blade

Concrete floor milling machine blade is one of the main attachments of concrete milling machine (including asphalt pavement planer blade and concrete pavement scarifier blade), and it is one of primary worn-out components of pavement milling machine; concrete floor milling machine makes use of the contact between the 8 tungsten alloy tips on the milling blade and the floor to carry out floor milling or floor surface removing.

The pin of scarifier cutter adopts isothermal quenching process, and the hard alloy is made of tungsten carbide and cobalt metal. The cutter base and scarifier cutter pins are welded. The floor scarifier cutter has the characteristics of high bending strength, strong wear resistance and good impact resistance!

The floor planer cutter life is usually about 5000-8000 square meters relies upon the special grades of concrete flooring and operators skills; If it is used for roughening concrete floor, its life can attain more than 10000 square meters;

Hardness is an important factor to determine the life of floor milling machine blade. Reasonable quenching hardness can effectively improve the life of floor planer blade!

GDT China is a professional manufacturer of concrete floor milling machines and floor planer cutter; the following table is the specification parameters of GDT China floor planner blade:

tips	TCT shape	OD (mm)	ID (mm)	Thick(mm)	Carbide tip (mm)
8	point	83mm	30mm	8mm	8
8	point	60.3mm	20mm	6mm	8
8	point	68mm	26mm	6mm	8
8	point	80mm	30mm	8mm	8
8	flat	80mm	30mm	8mm	8
8	flat	60.3mm	20mm	6mm	8
8	flat	82mm	30mm	10mm	8
5	point	43mm	16mm	6mm	8
6	point	46mm	16mm	6mm	8
6	flat	46mm	16mm	6mm	8
12	point	80mm	26mm	8mm	8
12	point	80mm	30mm	8mm	8
16	flat	82mm	30mm	10mm	8
16	flat	82mm	26.5mm	8mm	8

Edited by: GDT|Gooddiamondtool.com