

TECHNICAL PROPOSAL

of

Floor Shot Blasting Machine Model: MQGLM350



M & M INTER COMPANY LIMITED

A. DESCRIPTION

The MQGLM is a powerful self-propelled shot blasting system, ideal for medium to larger sized jobs. Whether improving traction and skid resistance or prepping for coatings and overlays, the versatile MQGLM Series strips, cleans and profiles concrete and asphalt, or horizontal steel surfaces in one easy step.

The AC inverted drive-motor for self-propelled operation features an integrated brake which helps maintain speed on ramps and inclines. This improves productivity and promotes a more even and consistent blast pattern and surface profile. Attached to the DC dust collector, it operates virtually dust-free. A slide-out wash separator in the shot hopper facilitates the removal of large debris.

MQGLM Series have highly visible and manageable controls with the drive control on the steering handle. The MQGLM Series all electrical components and panels are UL certified, part of the safety protocol. Perfect for industrial floors, warehouses, road and airport maintenance, and parking garages, this shot blaster is an environmentally sound choice for high productivity in surface preparation.

B. WORKING PRINCIPLE

Closed circuit media blasting machines throw a large amount of steel abrasive media by centrifugal force at the surface. After the steel abrasive hits the surface, the shot blaster recycles the media. Dust and contaminants are removed by an air wash separator and are removed to a dedicated DC dust collector. This makes the process almost dust-free in operation.

C. FEATURES AND BENEFIT

- Easily maneuverable, self-propelled machine-forward and reverse.
- AC inverted drive-motor with integrated brake for even, down-slope operation on ramps and inclines.
- Quick-lift rear caster assembly for easier transporting, loading and off-loading.
- Highly versatile and appropriate for medium to large job sites.
- Excellent for industrial floor prep, road and airport maintenance, ship decks, decontamination, and more.
- Labor and time-saving shot blasting process strips, cleans and profiles in one step-cost effective and friendly to the environment
- Operates virtually dust-free when connected to the DC dust collector-healthier for the operator and coworkers



Production rates achieved will be affected by variables specific to each job site. These figures are not guarantees of performance. For proper operation, the shot blasting unit must be used in conjunction with an appropriate dust collection device.

D. GENERAL PARAMETERS

Item	Unit	MQGLM350
Blasting Width	mm	350
Travel Speed	m/min	0-20
Production Capacity	m ² /h	~120 on concrete
Blast Motor	kw	11*1
Walking motor	kw	0.55
Voltage		According to end user' power supply
Dust Hose Connection	mm	150-200
Dimensions	mm	(L)1590*(W)435*(H)1020
Weight	Kg	230
Dust Collector		DC-1230
Filter Cartridge	pcs	4
Fan power	kw	3
Air compressor motor	kw	2.2
Total Power	kw	16.75
Surface		Steel/Stone/Concrete/Asphalt

E. INCLUDING

No.	Item	QTY.
1	Floor Shot Blasting Machine	1 set
2	Dust collector	1 set
3	ø150mm suction hose	20 m
4	Magnetic Sweeper	1 set
5	Small trailer for suction hose	15 set
6	Impeller (with blades)	1 pcs
7	Control cage	1 pcs

F. QUICK-WEAR PART

No.	Item	Service life
1	Impeller	More than 38000 square meters
2	Control cage	More than 75000 square meters
3	Guard plate	More than 110000 square meters
4	Steel shot	1 square meters consumption 2-3g Specifically applied to movable shot blaster

G. SPARE PARTS LIST

No.	Item	Specification/Character
1	Impeller	High chrome wear resistant cast iron
2	Control cage	High chrome wear resistant cast iron
3	Side linear	High chrome wear resistant cast iron Including left side liner and right side liner
4	Hood linear/cover protection board	High chrome wear resistant cast iron
5	Skirts brushed	Including front, back ,left and right side brush with skirt
6	Abrasive	2000 kg
7	Motor belt	Germany imported motor belt

No.	Item		Specification/Character
8	Magnetic Sweeper		to collect the shot, keep it used cycle, prevent loss shot save. Using the principle of strong magnetism
9	Abrasive storage system		Supply abrasive
10	Walking system		The machine walks automatically, save body force
11	Dust collector system	Suction hose	Ø150mm/20m, imported from Germany
12		Dust collector	Including dust bag capacity, Switch button, fan
13		Back flushing system	Including high effective air compressor, gas bag, pulse valve

H. SPARE PARTS LIST



Switch button



Air compressor



Pulse valve



Dust bag capacity



Fan







I. DC DUST COLLECTOR FEATURE

- Medium size but compact dust collector for dust free working environment.
- Standard silencer for low sound level.
- Automatic air pulse jet cleaning system.
- Large dust bin option of 150 liters with easy hand click system and third wheel to remove the dust bin.
- Connection of 150mm&200mm dust hose.
- 1 ergonomic lifting point on top of the machine for easy transport.
- All components are inside the body, so no risk of damage during work and transportation.
- Continuously working even while changing the dust bag capacity.
- Fan and compressor are able to be switched on and off separately, this enables more effective cleaning
- of the filters, without having to run the fan unit.

J. DC DUST COLLECTOR APPLICATIONS

The DC dust collector combines heavy duty power and performance with a compact and easy to use design, it is ideal for all types of applications, and all sizes of jobs.

K. ITEMS PICTURES

Description	Unit	Image of parts
Shot Blaster	1 set	
Dust collector	1 set	
Filter Cartridge	8 pcs	
Impeller	2 pcs	
Magnetic sweeper	1 set	
Suction hose and trailer	15 sets	

L. HOW IT WORKS

Shot blasting systems use a high performance, airless, centrifugal wheel for propelling blast media at a high velocity, in a controlled pattern and direction. Metal abrasive, thrown by the rapidly rotating blast wheel, is accelerated towards the surface being prepared. The media strikes the surface and rebounds along with removed contaminants into a recovery chamber(separator). The dust collector removes pulverized abrasive, dust and contaminants. Very little abrasive is lost and the usable media is returned to the storage hopper for recirculation by the blast wheel. Different surface profiles can be achieved by varying shot size, shot flow rate and machine travel speed.



Concrete:

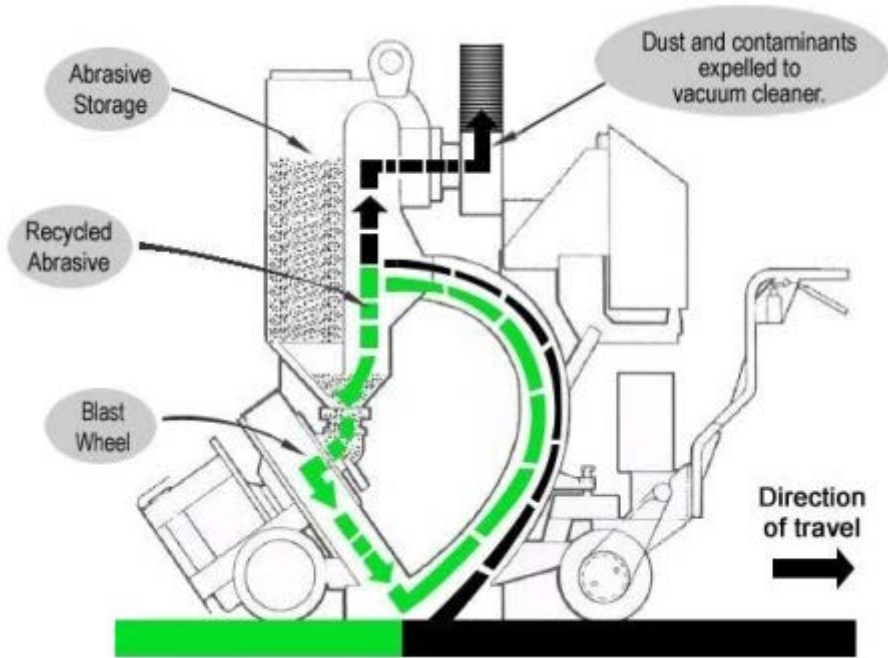
- prepares concrete for recoating or application of overlays
- removes markings, dirt and old coatings
- prepare parking lots and garage decks
- cleans factory and warehouse floors
- ideal for airport runways
- used on bridge decks, highways

Steel:

- removal paint, rust, mill scale and marine growth
- cleans ship and aircraft carrier decks
- removes nonskid coatings
- Abrasive
- cleans offshore platforms
- prepares petroleum and water storage tank surfaces

other surfaces:

- cleans brick or stone
- removes paint pavement markings from asphalt surfaces



M. PHOTOS REFERENCE





N. EQUIPMENT INSTRUCTIONS

1. Instruction manual

The instruction manual is in Chinese and English.

It contents:

Lay-out drawing: Lay-out drawing will be provided within one month after the contract is active.

Maintenance and lubricating instructions

Electric schemes

2. General

Subject to changes for the purpose of incorporating the latest technical innovations.

Remarks: All data and details are subject to change without prior notice.