

DI 220400406 - 08460130

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wheelabrator

A Norican Technology

Jindal Aluminium Limited., Bangalore

Price Sheet

1.1 - 1.10 Rotary Table Shot Blast Machine Type DT 1000

2.0 Electric and pneumatic control unit

Included

1.2.1 Stepless adjustable variable speed control of the rotary table by means of frequency regulation

Included

1.10.1 Stepless adjustable variable speed control of the turbine by means of frequency regulation

Included

3.0 Dust Collector - A40/25

Included

Supervision of erection and commissioning

Included

TOTAL PRICE

Rs. 43,50,000/-

OPTION

One set of commissioning charges as per below table

Rs. 1,25,000/-

Sl. No.	Description	Qty	Unit of measurement
1	Control cage	1	Nos.
2	Blade	1	Set of 6 nos.
3	Impellor	1	Nos.
4	Wear liner (Narrow side)	1	Nos.

Free

Zubacole JAZ Engg. visit trans

Delivery : 4 months from the date of receipt of techno commercially clear order and advance

3-4 months

Rs. 27,00,000/-

FOR Bhivwadi Plant

# M/C  
# Dust collector  
# Panel  
# Dusty / Cedar  
Gruvator  
12 months  
Commissioning  
Service Support in Delhi

# Payment:

25% Advance  
65% After  
10% after commissioning  
4 months - 5 months

# Delivery:

5 to 10 days  
agent charges - Performance

5.6 mi  
For DISA India limited  
Muller  
Raghav  
22/12/2022

Zubacole

Jindal Aluminium Limited., Bangalore

### 3.0 Dust collector

Cartridge Filter – A40/2S with Secondary Filter

One Air-Shoc Cartridge filter unit Type A 40/2S with fully automatic continuous cleaning of the cartridges by means of compressed air pulses which can be adjusted in their duration and frequency according to the amount of dust produced. The cartridges are installed into solid steel sheet housing with the necessary maintenance doors. Dust discharge is through Rotary airlock valve

The necessary radial ventilator is mounted directly onto the filter housing, the filter itself is installed onto a support construction with abrasive collection hopper and bin.

This filter is having secondary filtration system to reduce the dust emission.

Volumetric capacity: approx. 1,500 m<sup>3</sup>/h

Residual dust content measured under usual conditions: ≤ 2 mg/m<sup>3</sup>

Compressed air requirement, 5-6 bar: approx. 4 m<sup>3</sup>/h,

Incl. connecting ductwork from the blast machine to the filter up to max. of 3,0 m from the blast plant.

- ID fan motor VFD	kW	2.2
- Anti-static filter cartridges	Nos.	2
- Total filtering area	m <sup>2</sup>	26
- Ventilation capacity	m <sup>3</sup> /min	25
- Static pressure at intake	mm WC	250
- Maximum dust emissions	mg/m <sup>3</sup>	2
- Quantity compressed air requirement	Nm <sup>3</sup> /h	4.0
- Cartridges cleaning pressure air compressed requirement	bar	5-6
- Explosion vent	No.	1
- Rotary airlock valve	No.	1
- Dust collection bin	No.	1

The filter on offer is a technology transfer product from Europe and is manufactured in line with European standards.  
Rotary airlock valve and explosion vent is provided for safety of the filter

**1.7 Abrasive separator**

One air wash abrasive separator, having a separation. Used abrasive and fines refuse are stored behind the fixed, but adjustable metering gate and is allowed to fall in a uniform curtain through the air wash and separation zone.

Features of this air wash include:

- Adjustable metering gate, set and locked in position to provide uniform curtain thickness and density of material flow.
- Air wash which allows for efficient separation of good abrasive and fines.
- Air wash and separation zone to allow space for efficient separation of good abrasive and fine refuse.
- Air velocity control plate located in the first separation zone.
- An adjustable skimmer plate removes fines material.
- A removable screen is provided for trapping out coarse particles.
- Only good, usable abrasive flows to the storage hopper.

**1.8 Abrasive storage hopper**

One steel plate abrasive storage hopper, located under the abrasive separator, for storing clean abrasive, complete with air operated abrasive control gate for feeding abrasive to the blast unit which is operated by means of air cylinder and solenoid valve. This gate, in combination with the acoustic spout, also reduces source noise.

**1.9 Recirculation pipe**

To reduce abrasive contamination, particularly in heavy duty industrial operations, where sand, investment and carbon etc are involved, the provision has been made for a recirculation pipe. This is designed to operate when the abrasive gate to the blast wheel is closed at the end of the blast cycle and allows the abrasive to the storage hopper to be continually recycled via the bucket elevator to the separator for a further wash. The operation can continue indefinitely between blast cycles or when the machine is not in operation.

**1.10 1 TITAN 15.3**

in double disk design, equipped with 8 insertable throwing blades and central mechanical abrasive pre-acceleration. The high quality welded housing is completely wear resistant lined and equipped with robust bearings in well proportioned dimensions.

The faces are protected with hardened plates produced of tool steel. The blast wheel can easily be dismantled on the side of the feeding pipe without detaching the motor.

**1.10.1 Stepless adjustable variable speed control of the turbine by means of frequency regulation to achieve different blast intensities.**

Jindal Aluminium Limited., Bangalore

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## Characteristics of the machine and method of operation

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Table diameter:	1000 mm
Blast height:	500 mm
Max. load	1000 kg
Blast system:	Blast wheel type TITAN 15.3
Initial fill of shots (Customer scope)	350-450 Kgs

The workpieces are put on the rotary table which can be rotated by foot pedal. The door is closed manually and automatically sealed by an electro-magnetic locking device which prevents any person from unauthorised opening. The shot blast operation is started by pushing a push button at the electric switch box and runs off according to the pre-set time on the timer with simultaneous table rotation. When the blasting process stops, the door locking is maintained until the turbine wheel has come to a standstill.

After having opened the door, the workpieces can be removed from the rotary table or turned respectively.

A filter unit is installed for the aspiration of the dusty air.

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## Scope

Our offer is for design and supply of the equipment as per the offered specification in the quotation and is subject to the following terms and conditions. Customer should also submit the General Arrangement drawing and foundation load data for the equipment.

Our offer expressly excludes the items mentioned in the exclusion list which is enclosed.

## Prices:

The price is Ex our works basis. Marginal packing charges are included. The critical equipment/components will be crate packed, and the other equipment will be in roadworthy packing.

The price indicated do not include GST and any other municipal/state/central government levies. These will be on customer's account.

Present rate of GST is 18 % . Any statutory variation in government levies or additional imposition of government levies shall be to your account.

Transit insurance shall be arranged by customer. Customer to provide dispatch details by E-mal / Fax, to enable customer to arrange for Transit Insurance.

## Payment Terms:

40% advance along with the order and balance 60% on invoice, subject to inspection of the equipment at customer site. 100% taxes and duties against Proforma Invoice, prior to dispatch.

Should the dispatch be delayed after being offered for dispatch, for reasons not attributable to DISA, interest shall be charged on the over due payment @ 2% per month, for the delayed period.

## Bank Charges:

Customer bank charges to customer account, DISA bank charges to DISA account.

## Delivery Schedule:

Complete dispatch as specified in the quotation, subject to receipt of technically and commercially clear order and receipt of advance at DISA end.

The delivery period specified is on Ex-our works basis. The time required for the transportation to customer site is extra, which needs to be considered by customer at the time of Order Acceptance, subject to DISA commitments. The exact date of delivery will be confirmed at the time of advance, clarifications, if any and other commitments.

## Mode of Dispatch:

The consignment will be dispatched from our works basis, address to be furnished by customer, along with GST, LST, ECC & TIN no.

## Dispatch Documents:

DISA shall furnish the original & transporters copy of invoice, delivery challan, L/R copies and packing list against the dispatch.

## Spare Parts:

DISA will send a list of recommended spare parts, along with operating & maintenance instruction manual.



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## Exclusions

The following are expressly excluded from our scope unless otherwise agreed elsewhere:

- Buildings, foundation, foundation bolts, civil foundation and alterations to foundations.
- Foundation pockets and grouting of machine.
- Unloading arrangement at site, storage and movement of materials to works spot.
- On site installation and assembly of machine including handling equipment.
- Erection labour, tools & tackles and erection materials.
- Supply of first fill of steel shots/oils/lubricants.
- Loading and unloading facility for the products to be cleaned.
- Power, compressed air, and other utilities required during erection, commissioning and operation of the machine.
- Incoming cable & Cable laying from main control panel and from control panel to Machine Duct Collector.
- Supply of pipes for utilities and piping.
- Bins for collection of dust/iron pieces.
- Trenches and cable trays for cable and pipe.
- Production materials.
- Govt. / Statutory clearances & certificates.

for DISA INDIA PVT. LTD.,





DT. 21-12-2022

COMPARATIVE STATEMENT

JRM/PUR(IMP)/F

ITEM : SHOTBLAST MACHINE, CM SURFACE TREATMENT-MODEL-T10, QTY - 1 NUMBER

EURO = 86.15  
USD = 82.00

PLEASE REFER ATTACHED QUOTATIONS FOR MORE TECHNICAL DETAILS

Sr. no	Supplier Name	Specification & Size	QTY	Unit Price	Delivery & Payment, Delivery Time	CIF	
						US\$/EURO	Rs.
01	C.M. SURFACE TREATMENT S.p.A ITALY	"C.M." "T10" - Table Automatic Extrusion Dies cleaner:	1	€ 80,000.00	EXW 20% adv, 80% by LC 2 Months + Sailing time Appr Freight Charges	€ 80,000.00	₹ 68,92,000.00
					Total	€ 2,500.00	₹ 2,15,375.00
						₹ 82,500.00	₹ 71,07,375.00
02	Vishalabrator	ROTARY TABLE SHOT BLAST MACHINE DT 1000	1	₹ 44,75,000.00	EXW 4 Months 40% Addv, 60% against PI, Against Readiness App Transport Charges	₹ 44,75,000.00	₹ 44,75,000.00
					Total	₹ 1,25,000.00	₹ 1,25,000.00
						₹ 46,00,000.00	₹ 46,00,000.00

Prep.by: Venkappa

Checked by: Rohit M. Meshram