

Dust Collector for Prosthetic & Orthotic Workshop Use
(On Turnkey Basis)

Code No. _____

Qty. – 01 Set

Purpose: This machine is used for extraction designed to capture, transport and separate dry materials such as wood and plastic dust and shavings.

SL. NO.	DESCRIPTION OF REQUIREMENT	REQUIRED
A	Technical specification	
1	Dimensions (WxDxH)	1500 x 850 x 1950 mm (minimum)
2	Nominal volume flow	3000 m ³ /h
3	Sound intensity level	Max. 80 dB(A)
4	Suction performance	Regulated by frequency controller
5	Chippings collection volume	Min. 95 Litre
6	Residual dust content	<0.1mg/m ³
8	Air return via filter system, with filter cassette with bag filter	yes
9	Motorised Cleaning	yes
10	Fine and Ultra Fine filter	yes
11	Dust collector should be compatible to connect 3 nos. of machines.	yes
12	Length of each hose pipe (To connect 3 nos. of machines)	Minimum 3 m each
13	Suction connector should be compatible to connect the diameter range from 100 mm to 180 mm.	Confirm
14	Touch screen controller	Confirm
15	Controller for automatic start-up of processing machines with potential-free contact	yes
16	Controller should be touch screen	yes
17	Power consumption	3 Phase 3 kv
18	Weight of machine	Minimum 500 kg
19	Electrical Accessories	
19.1	Electric Supply Phase, Voltage, Frequency	3x 400 V ± 6% , 50 Hz ± 3%
19.2	Connecting cable	Minimum 5 m connection cable
20	Warranty	24 months
B	Accessories	
1	Exhaust hose with firmly embedded steel wire spiral	yes
1.1	Flame resistant	yes
1.2	Material	Polyurethane/G.I.

1.3	Exhaust hose diameter range	100 - 125 mm
2	Wall ducting (as shown in layout)	Confirm
2.1	Pipe material	Galvanized Iron (GI)
2.2	Diameter range	140 - 300 mm
2.3	Vendor has to ensure sufficient support for wall ducting, In case the structure found weak ALIMCO may ask free of cost for replacement/repair.	Yes for clamping supports for ducting
3	All the hose pipe, ducting pipe & hose clips should be compatible to attach.	yes
C	Documentation	
1	Installation and Commissioning instruction	Each documents 3 sets of hard copy and 1 set of soft copy along with delivery
2	Operating instruction	
3	Preventive maintenance instructions	
4	Lifting instruction mentioned in packing list	
5	Detailed invoice and packing list of all items, devices and detailed prospect of machine and all other accessories enclosed in respective boxes	
D	Installation and Commissioning	
1	The complete installation and commissioning must be carried out by the supplier at the project (at the final destination/premises). Certificate of acceptance is to be signed by customer and supplier.	yes
2	All logistic, Grouting & any other Civil work has to done by Vendor (If any)	yes
3	All electrical Items should be Tropicalized	yes
E	Training at installation place	
1	Operator training	1 day
2	Maintenance course mechanical, electrical and electronics (All Inclusive)	1 day

Delivery period including installation & commissioning:

The delivery period including installation & commissioning of machine/equipment at the destination mentioned in Para 1 on page no. 02 of the tender documents will be 3 months from the date of placement of Purchase Order/work contract.

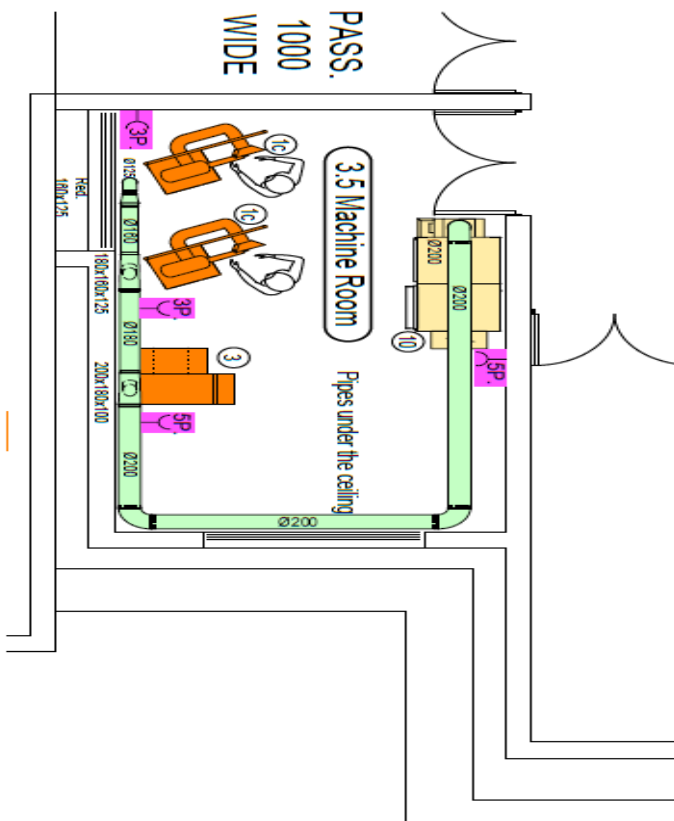
Warranty:

Machine inclusive of all system/accessories should be covered under warranty for a period of 24 months from the date of commissioning.

Note:

1. Machine shall be supplied with 3 sets of comprehensive operation and maintenance manual.
2. Breakdown calls to be attended within 48hrs.
3. Supply to be done on Turnkey Basis. ALIMCO shall provide electrical supply power source near to the place of installation. Sufficient suitable cable, cable tray and fitting to connect the machine from power source are in vendor's scope.
4. Total power consumption (in KW) to be provided by the tenderer.

Indicative layout of Dust Collector



Legend

- ⚡ Safety Socket, h=1,00m
- ⚡ CEE-Socket red, 5 Pole=400V,
- ⚡ 16 Ampere, h=1,00m
- ⚡ CEE-Socket blue, 3 Pole (2P+PE)/230V,
- ⚡ 16 Ampere, h=1,00m

Machinery and Equipment for 3.5 Machine Room

Pos.	Symbol	Article No.	Description	Rating	Equipment voltage	Power rating in kW	Total sum in kW	
1a		70194-E1	Pop-F1 2000 Vario solder cutter	165	14230V	2.2	4.4	
3		70194-G	Two speed belt sawer	188	3x400V	3.0	3.0	
1b		701230	1800 Compact Alpha-One dust collector	194	3x400V	3.0	3.0	
Total sum:							10.6	10.6

- Equipment and machinery according to order (10.07.2019)
- New equipment