

Specifications of "Vishvakarma" Drum Mix Plant

<u>Description</u>	<u>DM-45</u>	<u>DM-50</u>	<u>DM-60</u>
Capacity @ 3 % moisture content	<u>40/60 TPH</u>	<u>60/90 TPH</u>	<u>90/120 TPH</u>
<u>Four Bin Feeder Unit</u>			
Number of Bins	4 (Four)	4 (Four)	4 (Four)
Feeding Capacity	100 TPH	120 TPH	150 TPH
Bins Plate Thickness	5 MM	5 MM	5 MM
Bin Size	290mx2mx183m	290mx2mx183m	290mx210mx183m
Bin Belt Size	550 mm x 2.95 m	550 mm x 2.95 m	550 mm x 2.95 m
Motor	2 HP DC Drive	2 HP DC Drive	2 HP DC Drive
Gear Box	"C" SMSR	"C" SMSR	"C" SMSR
Bin's Drive	V – Belt	V – Belt	V – Belt
Bin Gathering Conveyor Motor	5 HP AC @ 1500	5 HP AC @ 1500	7.5 HP AC @ 1500
Bin Gathering Gear Box	"D" SMSR	"D" SMSR	"D" SMSR
Bin Gathering Drive	V – Belt	V – Belt	V – Belt
Bin Gathering Belt Size	600 mm x 27.3 m	600 mm x 27.3 m	600 mm x 27.3 m
Bin Vibrator Motor (Only 4 No Bin)	1 HP AC Drive	1 HP AC Drive	1 HP AC Drive
<u>Vibrating Screen Unit Size</u>			
Motor	3 HP AC	3 HP AC	5 HP AC
Drive	V – Belt	V – Belt	V – Belt
System	Rubber Pad	Rubber Pad	Rubber Pad
<u>Slinger Conveyor Size</u>	<u>6.1 m</u>	<u>6.1 m</u>	<u>7.3 m</u>
Motor	5 HP AC	5 HP AC	7.5 HP AC
Gear Box	"D" SMSR	"D" SMSR	"D" SMSR
Belt Size	550mm x 12.35 m	550mm x 12.35 m	600mm x 14.8 m
<u>Thermo Dryer & Mixing Unit</u>			
Diameter	1219 MM	1500 MM	1800 MM
Length	6096 MM	6700 MM	7010 MM
Thickness	8 MM	8 MM	10 MM
Motor	15 HP AC	25 HP AC	30 HP AC
Gear Box , Only Elecon	5 NU Worm Gear	7 NU Worm Gear	8 NU Worm Gear
Drive	Rotary Drive	Rotary Drive	Rotary Drive
Dust Collector Motor	2 HP AC	2 HP AC	3 HP AC
Dust Collector Outlet Screw Gear	"C" SMSR	"C" SMSR	"C" SMSR
Dust Collector's No. of Cones	15	17	20
Exhaust Capacity	10500 CFM	14500 CFM	18500 CFM
Exhaust Motor	20 HP AC	25 HP AC	30 HP AC
Dryer Burner Firing Rate	225 LPH	350 LPH	550 LPH
Fuel Type	LDO/FO	LDO/FO	LDO/FO
Dryer Burner's Blower Motor	5 HP AC @ 2800	10 HP AC @ 2800	15 HP AC @ 2800
Dryer Burner's Pump / Motor	2 HP AC	2 HP AC	3 HP AC
* Dryer Burner's Heater (Optional)	12 KW	18 KW	18 KW

<u>Load-Out (Hot) Conveyer Size</u>	<u>10 m</u>	<u>10 m</u>	<u>10 m</u>
Motor	5 HP AC	5 HP AC	7.5 HP AC
Gear	"D" SMSR	"D" SMSR	"D" SMSR
Belt Size	600mm x 18.06 m	600mm x 18.06 m	600mm x 18.06 m
Storage Hopper Capacity	1000 Kegs	1000 Kegs	1500 Kegs
Power Pack System (Hopper Open/Close)	2 HP AC	3 HP AC	5 HP AC
<u>Mineral Filler Capacity</u>	<u>750 kgs</u>	<u>750 kgs</u>	<u>750 kgs</u>
Motor (Screw)	2 HP DC	2 HP AC DC	2 HP DC
Gear Box	"C" SMSR	"C" SMSR	"C" SMSR
Blower Motor	5 HP AC @ 2800	5 HP AC @ 2800	5 HP AC @ 2800
Blower Rotary Valve	3" Size	3" Size	3" Size
<u>Control Panel</u>			
Microprocessor Base – DC / AC Drive	S.P.ElectroControl	S.P.ElectroControl	S.P.ElectroControl
<u>Control Cabine (Insulated) Size</u>	<u>12' x 6'</u>	<u>12' x 6'</u>	<u>14' x 6'</u>
<u>1) Fuel Storage Tank Capacity</u>	<u>10000 Ltrs</u>	<u>10000 Ltrs</u>	<u>12000 Ltrs</u>
<u>2) Fuel Service Tank Capacity</u>	<u>2000 Ltrs</u>	<u>2000 Ltrs</u>	<u>2000 Ltrs</u>
* Fuel Service Tank's Heater	9 KW (12 HP)	9 KW (12 HP)	9 KW (12 HP)
<u>*Pollution Control Unit – Extreme Turbulence Venturi Type Pollution Control Unit Dimension</u>	<u>Dust Emission Less than 150 mg/m³</u> <u>1.8x3m</u>	<u>Dust Emission Less than 150 mg/m³</u> <u>1.8 x 3 m</u>	<u>Dust Emission Less than 150 mg/m³</u> <u>1.8x3m</u>
Water Pump	2 HP Mono-Block	2 HP Mono-Block	3 HP Mono-Block
<u>Bitumen Tank–{“O” Shape OR “U”}</u>	<u>15 Tones</u>	<u>15 Tones</u>	<u>20 Tones</u>
Bitumen Tank's Burner Firing Rate	25-40 LPH	25-40 LPH	25-40 LPH
Motor	250 W	250 W	250 W
Fuel Type	<u>Only Diesel</u>	<u>Only Diesel</u>	<u>Only Diesel</u>
Bitumen Pump Type	Hot Oil Jacked Gear Type	Hot Oil Jacked Gear Type	Hot Oil Jacked Gear Type
Bitumen Pump Make	Johnson	Johnson	Standard
Bitumen Pump Motor	3 HP DC	5 HP DC	5 HP DC
Pump Capacity	160 LPM	160 LPM	260 LPM
Pump's Gear	- NA -	- NA -	3 NU Worm Gear
Hot Line Motor	1 HP AC	1 HP AC	1 HP AC
Service Tank Motor / Pump	1 HP AC	1 HP AC	1 HP AC
Open Land Required	40 x 40 m	40 x 40 m	45 x 45 m
Total Connected Load of Plant	87 KW (115 HP)	108 KW (145 HP)	132 KW (176 HP)
Recommended Capacity of Genset	100 KVA	125 KVA	150 KVA

✓ <u>Bitumen Tank</u>	Tank main wall plate 5 mm and Glass-wood insulation – 40 mm thickness, Tank outer wall 18 gauge thickness plates and other fabrication works as per engineering standard.		
✓ <u>Dryer Unit -45</u>	✓ <u>Dryer Unit -50</u>	✓ <u>Dryer Unit -60</u>	
I Beam 250mm & 200mm Chase , Other Fabrication works as per engineering standard.	I Beam 300mm & 250mm Chase , Other Fabrication works as per engineering standard.	I Beam 400mm & 350 mm Chase , Other Fabrication works as per engineering standard.	

List of motor's load- KW(HP) of "Vishvakarma" Drum Mix Plant

Description	Drive		DM-45 40/60 TPH	DM-50 60/90 TPH	DM-60 90/120 TPH
4 Bin - 1 Bin	DC		1.5KW (2 HP)	1.5KW (2 HP)	1.5KW (2 HP)
4 Bin - 2 Bin	DC		1.5KW (2 HP)	1.5KW (2 HP)	1.5KW (2 HP)
4 Bin - 3 Bin	DC		1.5KW (2 HP)	1.5KW (2 HP)	1.5KW (2 HP)
4 Bin - 4 Bin	DC		1.5KW (2 HP)	1.5KW (2 HP)	1.5KW (2 HP)
4 Bin - Vibrating	AC		0.8KW (1 HP)	0.8KW (1 HP)	0.8KW (1 HP)
4 Bin Gathering Belt	AC		3.8KW (5 HP)	3.8KW (5 HP)	5.6KW (7.5 HP)
Vibrating Screen Unit	AC		2.3KW (3 HP)	2.3KW (3 HP)	3.8KW (5 HP)
Slinger Conveyer	AC		3.8KW (5 HP)	3.8KW (5 HP)	5.6KW (7.5 HP)
Dryer Burner Blower	AC		3.8KW (5 HP)	7.5KW (10 HP)	11.3KW (15 HP)
Dryer Burner Pump/Motor	AC		1.5KW (2 HP)	1.5KW (2 HP)	2.3KW (3 HP)
Dryer Burner Heater (Opt)*	AC		12 KW (16 HP)	18 KW (24 HP)	18 KW (24 HP)
Dryer Drum Unit	AC		11.3KW (15 HP)	18.8KW (25 HP)	22.6KW (30 HP)
Screw Conveyer (Dust)	AC		1.5KW (2 HP)	1.5KW (2 HP)	2.3KW (3 HP)
Exhaust System	AC		15KW (20 HP)	18.8KW (25 HP)	22.6KW (30 HP)
Load -Out Conveyer	AC		3.8KW (5 HP)	3.8KW (5 HP)	5.6KW (7.5 HP)
Pollution Control System *	AC		1.5KW (2 HP)	1.5KW (2 HP)	2.3KW (3 HP)
Hydraulic Power Pack	AC		1.5KW (2 HP)	2.3KW (3 HP)	3.8KW (5 HP)
Mineral Feeler, Blower	AC		3.8KW (5 HP)	3.8KW (5 HP)	3.8KW (5 HP)
Mineral Feeler Rotary Valve	DC		1.5KW (2 HP)	1.5KW (2 HP)	1.5KW (2 HP)
Hot Oil Line	AC		0.8KW (1 HP)	0.8KW (1 HP)	0.8KW (1 HP)
Service Tank Motor / Pump	AC		0.8KW (1 HP)	0.8KW (1 HP)	0.8KW (1 HP)
Fuel Service Tank's Heater *	AC		9 KW (12 HP)	9 KW (12 HP)	9 KW (12 HP)
Bitumen Tank Blower - 1	AC	250 W			
Bitumen Tank Blower - 2	AC	250 W			
*					
Asphalt Pump (Bitumen)	DC		2.3KW (3 HP)	2.3KW (3 HP)	3.8KW (5 HP)
Total Power Required			86.5 KW (115 HP)	108 KW (144 HP)	132 KW (176 HP)

Note :- * is optional equipments, as per clients requirements.

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