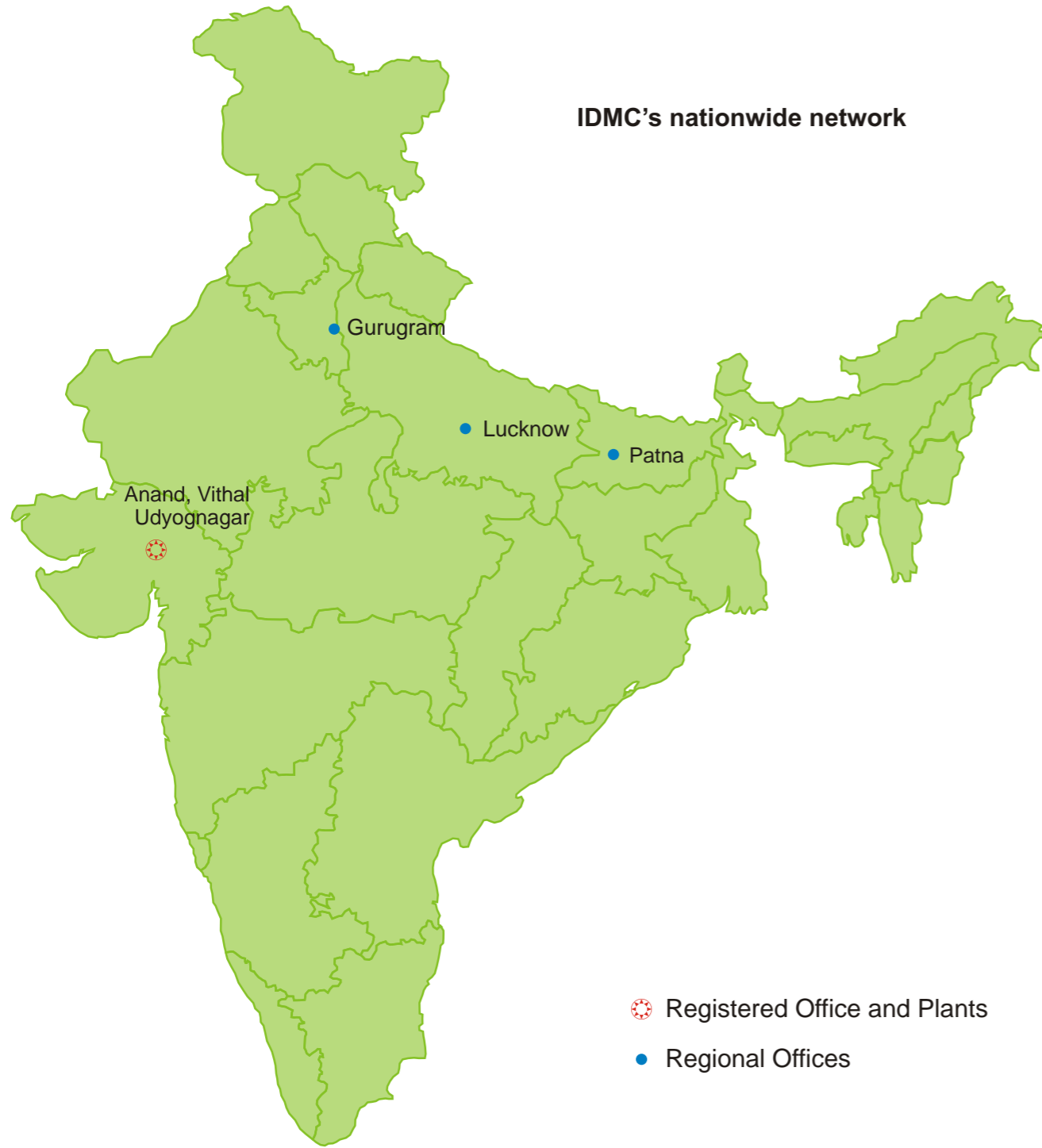




IDMC's nationwide network



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TURBO BLENDER



Application:

IDMC make turbo blender is used in the processing industry for mixing solid ingredients in liquids. It is useful for reconstituting milk with powder, making syrups, etc. It can also be used to prepare solid-liquid mixtures in pharmaceutical, cosmetics and allied industries.

Operating principle:

The turbo blender consists of a casing, cover, stuffing box and a special impeller which is mounted vertically. The suction side has a double-wall pipe that keeps the inlet of solids separate from that of liquids, thus avoiding the formation of lumps before the mix enters into the casing. The liquid enters the mixing chamber at a high speed, thereby creating a vacuum at the centre of the impeller, which causes the suction of the solid ingredients. The fall of the solids ingredients for mixing can be regulated by means of a manual butterfly valve fitted at the bottom of the hopper.

Features:

- Special impeller which creates suction for solids to flow and subsequent mixing.
- Sturdy design with base frame.
- Mirror finished hopper for easy flow of solid material.
- Complete mixing of the material.
- Cleaning can be done without disassembling the unit.
- Sanitary design.

Technical specifications:

Material

Parts in contact with the product : AISI 304 / AISI 316L (As per requirement)

Gaskets in contact with fluid : EPDM (Standard)

Mechanical seal

Type of seal : Internal single seal (Standard)

Rotary and stationary parts material : SIC and SIC (Standard)

Sealing material : Viton (Standard)

Surface finish - Internal surface finish : Ra 0.8–1.6 μ m

Internal surface finish of hopper : Mirror polish for easy flow of material

External surface finish : Bright polish

Options available

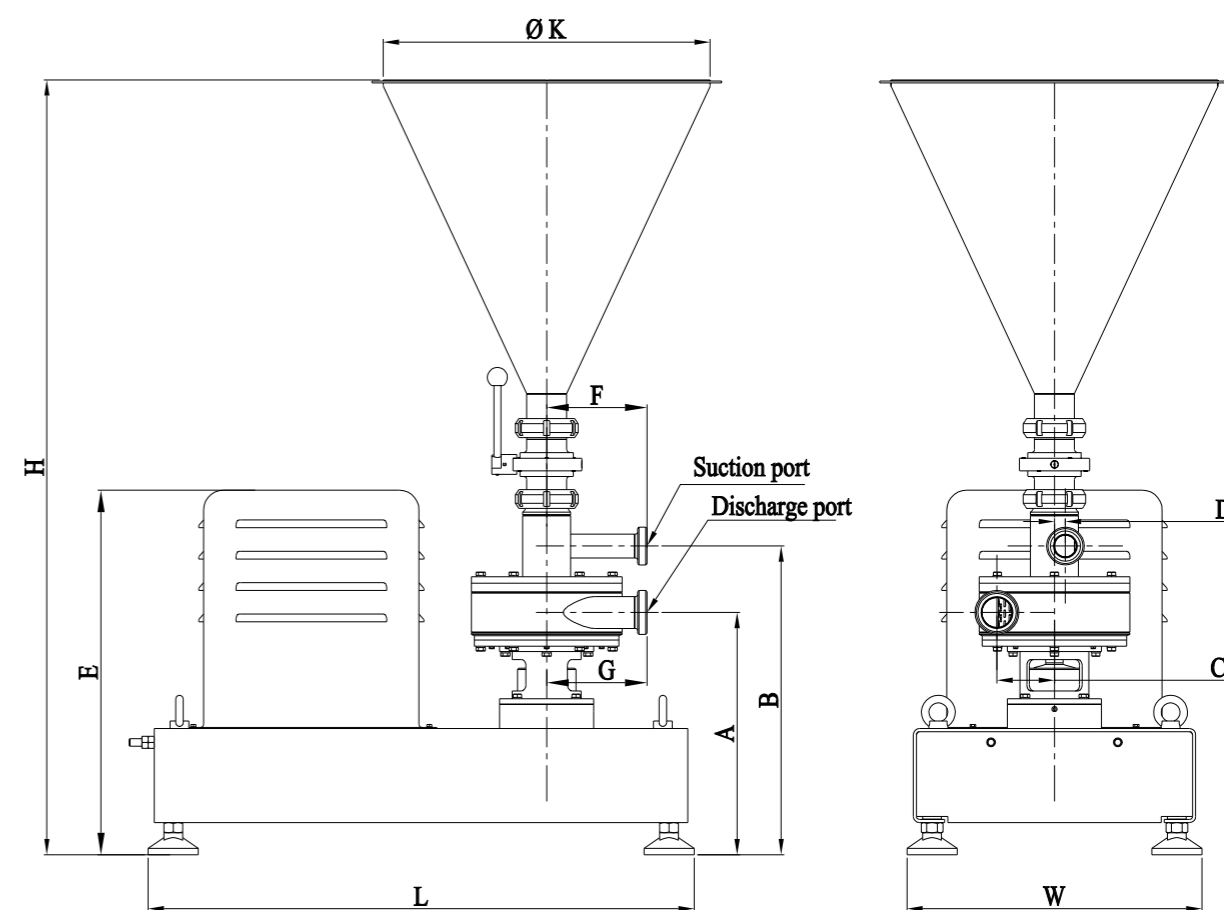
- Flame proof and IE-3 motors.
- Trolley mounted blender.

Models and specifications

No.	Parameters	Turbo blender models and specifications			
		TBL 31	TBL 41	TBL 51	TBL 61
1	Solid suction capacity (*)	500 kg/hr SMP	1000 kg/hr SMP	2000 kg/hr SMP	3500 kg/hr SMP
2	Motor power	3 hp , 2 pole	5 hp, 2 pole	10 hp, 2 pole	15 hp, 2 pole
3	Suction port SMS connect with hopper	SMS 50.8	SMS 63.5	SMS 76.1	SMS 101.6
4	Mechanical seal	SIC/SIC/ Viton Ø24	SIC/SIC/ Viton Ø28	SIC/SIC/ Viton Ø35	SIC/SIC/ Viton Ø40
5	BFV manual for hopper	SMS 50.8	SMS 63.5	SMS 76.1	SMS 101.6
6	Hopper volume (approx.)	20 litres	35 litres	65 litres	70 litres
7	Feed pump-Capacity (*)	5 KLPH	10 KLPH	20 KLPH	30 KLPH

(*) Note: The quantity of the solid mixed depends on the properties of solid handled and the features of the site installation like suction and discharge pipe size, head and piping distances. Please contact IDMC technical team to select pump.

Standard overall dimensions (TBL series):



Turbo blender model	Dimensions are in mm											SMS union (Port)	
	A	B	C	D	E	F	G	L	H	W	ØK	Suction	Discharge
TBL 31-2-3	379	459	92	17	543	140	160	820	1082	420	430	25.4	38.1
TBL 41-2-5	386	492	92	17	581	160	160	870	1235	470	518	38.1	50.8
TBL 51-2-10	391	511	90	23	703	150	174	970	1360	620	626	50.8	63.5
TBL 61-2-15	400	540	88	36	821	194	194	920	1426	620	638	63.5	76.2