

# DURGA ENGINEERING



**DURGA ENGINEERING**

|| Manufacturer Of Pharmaceutical Machinery & Spare Parts ||

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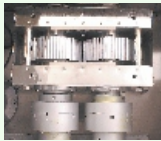
## ROLL COMPACTOR



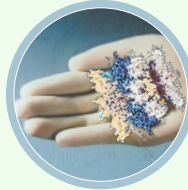
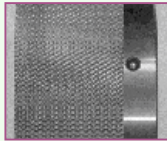
- Totally Compact design available in plain water jacketed & Flame proof model.
- It's improve the bulk density of material.
- It's improves uniform mixing of material.
- It's achieve better granulation of sieves analysis.
- It's produce uniform particle size range of granules.
- Various types of roll available to achieve maximum bulk density of out put.
- Specially designed feeding system consisting of hopper pre-densifier & variable speed drive unit.
- Feeding unit can hydraulically lift by hydraulic pump for easy cleaning.
- Specially design provide in the roller to prevent powder sticking on the roll.
- Pre-compression chamber guides the powder without any slippage or leakage.
- To prevent major accident the roll is designed to rotate reverse & forward when cleaning.
- Specially limit switch is provided to prevent major accident.
- Main roll drive is design with twin shaft gear box coupled with coupling to protect roll drive unit there fore perfectly synchronizing the roll with a constant torque



FEEDING SYSTEM



COMPACTING UNIT



MODEL	GTRC - 100 / 25	GTRC - 200 / 50	GTRC - 200 / 75	GTRC - 200 / 100	GTRC - 200 / 150	GTRC - 200 / 200
Output*	2 to 5 Kgs/hour	20 to 40 Kgs/hour	30 to 80 kg.	50 to 150 kgs./hour	75 to 250 kgs./hour	128 to 350 kgs./hour
Roll Size	100 mm Dia x 25 mm(w)	200 mm Dia x 50 mm(w)	200 mm Dia x 75 mm (w)	200 mm Dia x 100 mm (w)	200 mm Dia x 150 mm (w)	200 mm Dia x 200 mm (w)
Roll Speed (Step pulley drive)	2 to 29 RPM	5 to 20 RPM	5 to 20 RPM	5 to 20 RPM	5 to 20 RPM	5 to 20 RPM
Feed screw Speed	5 to 86 RPM	10 to 50 RPM	10 to 50 RPM	10 to 50 RPM	10 to 50 RPM	10 to 50 RPM
Roll drive Motor	1.5 HP, 1440 RPM, 440 V, 3 Phase		5 HP, 960 RPM, 440 V, 3 Phase		10 HP, 960 RPM, 440 V, 3 Phase	
Feed screw drive Motor	1 HP, 1440 RPM, 440 V, 3 Phase		2 HP, 1440 RPM, 440 V, 3 Phase		3 HP, 1440 RPM, 440 V, 3 Phase	
Overall Dimension (In mm)				1160 (W) * 1160 (B) * 2032 (H)		1160 (W) * 1160 (B) * 2032 (H)
Net Weight	700kgs.	1000kgs.	1200 kgs.	1500 kgs.	2500 kgs.	3000 kgs.

\* Depending upon the characteristics of material.

\* Output based on practical experience

Note : Specifications of the machineries are subject to change without any prior notice

## LAB TABLET PRESS

Number of Stations	GT-LAB-8 D	GT-LAB-10 B	GT-LAB-12 D-B-BB
Model	8	10	12
Type of Tooling	D	B	D-B-BB
Output-Tablets/hr.	2000 TO 14,000	2000 To 18,000	2000 To 7,200
Turret Rpm (min./Max)	10-30.	10-30.	10-30.
Max. operating pressure	6 Tons	6 Tons.	6 Tons.
Max. Tablet Dia.	23 mm	16 mm	23 mm
Maximum Depth Of Fill	17.5 mm	17.5 mm	17.5 mm
Power	2.HP x 1440 RPM x 415 v. x 50 HZ		
Overall Dimensions (mm)	840 x 635 x 1200H		
Net Weight (Approx)	375 Kgs		

- Imported needle roller bearing provided at the bottom of turret.
- Upper punch Penetration, as a standard features
- Electronic Digital Tablet cum RPM Counter, as a standard features.
- Guards of Acrylic Material.
- Grease Nipples are provided for effective lubrication, where required
- Turret of Special Grade S.G. Iron casting
- Paint free tablet manufacturing zone
- Aluminum Turret Guards
- Square GMP Table Top Model
- Anti Vibrating mount.



## SINGLE ROTARY TABLET PRESS

MODEL	GT-16-D	GT-20-D	GT-12
Tooling	"D"	"D"	Bolus / Slugging
No. of Station	16 Stn.	20 Stn.	12 Stn.
Operating Pressure	10 Ton	10 Ton	12 Ton
Max. Tablet Diameter	23 mm	23 mm	40 mm
Max. Depth Fill	20 mm	20 mm	25 mm
Output-Tablet/Hr.	14,400 to 40,300	21,600 to 50,400	10,800 to 15,840
Main Electric Motor	2Hp / 960 RPM / 415V / 50 Hz / 3 Ph		5Hp / 960 RPM / 415V / 50 Hz / 3 Ph

- Lower Guard of polished Stainless Steel & Upper Guards of Acrylic Material.
- Effective Dust Extraction Nozzles.
- Aluminum Turret Guards
- Reverse direction motion protection is provided to avoid accident.
- Imported needle roller bearing provided at the bottom of turret.
- Paint free tablet manufacturing zone.
- C.I. Body and C.I. Middle plate
- Turret of Special Grade S.G. Iron casting
- Electronic. Digital Tablet cum RPM Counter.
- Heavy duty square GT Model.





## DOUBLE SIDE ROTARY TABLET PRESS

MODEL	GT-D-27	GT-B-35	GT-BB-45
Type of Tooling	"D"	"B"	BB
No. of Stations	27	35	45
Max. Operating Pressure	10 Tons	6.5 Tons	6.5 Tons
Max. Tablet Diameter	23 mm	16 mm	11 mm
Max. Depth of Fill	20 mm	17.5 mm	17.5 mm
Output Tablets/Hr. *	58300 to 136000	75600 to 176400	57200 to 226800
Upper Punch Penetration	1.5 to 8 mm	1.5 to 8 mm	1.5 to 8 mm
Main Electric Motor	5Hp / 1440 RPM / 415 V / 50 Hz / 3 Ph		

- C.I. Body and C.I. Middle plate.
- Paint free tablet manufacturing zone.
- Square GMP Model.
- Turret of Special Grade S.G. Iron casting
- Electronic Digital Tablet cum RPM Counter.
- Aluminum Turret Guards.
- Double Sided lifting cams.
- Imported needle roller bearing provided at the bottom of turret.
- Effective Dust Extraction Nozzles.
- Variable Speed pulley, One shot Lubrication System, Anti Vibrating mount.
- Reverse direction motion protection is provided to avoid accident.

## HIGH SPEED TABLET PRESS

Model	GT-37-D	GT-45-B	GT-55-BB	GT-61-BB
No. of stations	37	45	55	61
Type of tooling	D	B	BB	BB
Max. Operating Pressure	10 Ton	6.5 Ton	6.5 Ton	6.5 Ton
Max. Tablet Dia.	23 mm (25.4 mm on demand)	16 mm	11 mm	11 mm
Depth of Fill	20.5 mm	17.5 mm	17.5 mm	17.5 mm
Output Tablets / Hr.*	79,920 to 2,22,000	97,200 to 2,70,000	1,18,800 to 3,30,000	1,31,760 to 3,66,000
Upper Punch Penetration	3.2 to 8 mm			
Main Electric Motor	7.5 Hp / 1440 RPM / 3 Ph			
Powder Feeder Motor	0.25 Hp / 1440 RPM / 3 Ph			

- Front and easy outside controls.
- High Speed tablet press with outstanding engineering, performance and reliability.
- Auto lubrication with fine tuning valve and timer.
- AC inverter variable drive for main and feeder motor.
- Separate control panel – safe against electric short Circuit during steam wash.
- Extremely robust quality engineering, house in an easily accessible cabinet.
- All the tablet parameters can be fine tuned during the operation of the machine from outside the tableting zone.
- Simple and convenient operation, operator protection, cleanliness and ease of maintenance.



## MULTI MILL



MODEL	GT-MM-200
Output*	50 T O 200 KGS ./ Hr .
Rotor Assembly Diameter	250 mm. Approx
Rotor Speed	750/ 1500/ 2300/ 2800 RPM
Screen Dimension	Inner Diameter 265 mm. / Height 140 mm
Motor	3HP./ 1440 RPM / 3Ph.
Starter	"DOL " With Reversible Switch
Material Charging Height	1460 ± 5 mm.
Material Discharging Height	760 ± 5 mm.

\* Varies according to product characteristic, rotor Speed and Screen type

- Designed for continuous wet or dry granulation.
- Beaters & scraper blades made of SS 304 (SS 316 Optional)
- Easy to dismantle and Clean
- Beater drive equipped with reversible Switch.
- Castor Wheels Provided for mobility.
- Flameproof electrical components can be provided at extra cost.

## MASS MIXER

MODEL	GT- MM-50	GT- MM-100	GT- MM-150	GT- MM-200
Capacity	50 Kgs.	100 Kgs.	150 Kgs.	200 Kgs.
Over Flow Capacity	110 Ltrs.	220 Ltrs.	330 Ltrs.	440 Ltrs.
Working Capacity	88 Ltrs.	156 Ltrs.	234 Ltrs.	309 Ltrs.
Speed Of Stirrer	28 RPM	28 RPM	28 RPM	28 RPM
Main Electric Motor	3 HP / 3 Ph	5 HP / 3 Ph	7.5HP / 3 Ph	7.5HP / 3 Ph

- R&D Model from 10 to 25 Kg. Available on customers demand.
- All contact parts are made of SS 304 (SS 316 optional)
- Easy for cleaning and operating.
- Interlocked acrylic dust cover for inspecting the mixing process.
- The tilting device provided for easy unloading of the material.



## VIBRO SIFTER

Model	GT-SIF 30"	GT-SIF 36"	GT-SIF 48"
Screen Dia.	752 mm.	914 mm.	1220 mm.
Capacity/Hour *	30 to 300 Kgs.	30 to 325 Kgs.	50 to 450 Kgs.
Charging height	1050 mm	1050 mm	1050 mm
	without Lid	without Lid	without Lid
Discharging height	670 mm.	670 mm.	670 mm.
Main Electric Motor	0.5 HP/	1 HP/	1.5 HP/
	1440 RPM/3 Ph	1440 RPM/3 Ph	1440 RPM/3 Ph

\* Varies according to product characteristic & and screen type.

- Vibro Sifter Model Available From 12" To 48"
- Compact vibratory design for high speed & dust free sieving.
- Noiseless and maintenance free machine.
- All contact parts and screen made of SS 304 (SS 316 optional)
- Low power consumption compared to reciprocating vibratory system.
- Easy dismantling and cleaning of contact parts.
- Machine available with ame proof and double / triple deck options



## COLLOID MILL

<b>Model</b>	<b>GT-CM-15</b>
Output *	150 to 1500 Liters.
Particle size reduction *	5 to 15 Microns.
Hopper capacity	15 Liters
Main Electrical Motor	3 HP / 2850 RPM / 3 Ph.

\* Depending upon material characteristics viscosity, density & micron size.

- R&D Model Available on Customer Demand.
- Totally leak proof design.
- Unique for small volume micronization.
- Modified design of stator-rotor assembly.
- Available in plain, water jacketed & flame proof options.
- Easy to dismantle for cleaning and maintenance.



## DOUBLE CONE BLENDER

Model	Gross Volume (Ltr.)	Working Volume (Ltr.)	Motor (HP)
GT-DCB -5	15	9	0.5
GT-DCB -10	30	18	0.5
GT-DCB -15	45	27	0.5
GT-DCB -25	75	45	1
GT-DCB -50	150	90	2
GT-DCB -100	300	180	3
GT-DCB -150	450	270	3
GT-DCB -200	600	360	5
GT-DCB -250	750	450	5
GT-DCB -300	900	540	7.5
GT-DCB -350	1050	630	7.5
GT-DCB -400	1200	720	10
GT-DCB -500	1500	900	10



## OSCILLATING GRANULATOR

<b>Model</b>	<b>GT-OG-1</b>
Hopper capacity	33 Liters
Screen area	388 mm (W) x 762 mm (L)
Stirrer size	Ø 138 mm x 368 mm Length
Oscillation	110 Per Minute.
Output *	30 to 90 Kgs./Hr.
Charging height	1135 + 5 mm
Discharging height	655 + 5 mm
Main Electric Motor	2 HP / 1440 RPM / 3 Ph.

\* Varies according to product characteristic and Screen type.

- Model Available From Single Stirrer & Double Stirrer
- Sturdy and noiseless design.
- Easy to operate & maintain.
- Higher ratio of desired size granules can be obtained
- Continuous oscillating stirrer drive.
- Simple screen holding and tensioning device.

## COMMINUTING MILL

### TECHNICAL SPECIFICATION

<b>Model</b>	<b>GT-CM 300</b>
Rotor speed	1000 / 2250 / 4500 RPM
Output *	25-300 Kgs. / Hr.
Main Electrical Motor	7.5 HP / 1440 RPM / 3 Ph.

\*Varies according to product characteristic, rotor speed and screen type.

### SALIENT FEATURES

- Designed to suit high speed milling needs with plain, water jacketed and flame proof options.
- Fully S.S. cladding on base & S.S. guards for all moving parts to meet GMP needs.
- Motor rails, screw and guide rods are chrome plated.
- Beater assembly bearings are housed in separate pillow blocks for ease in maintenance.
- Dynamically balanced fixed beater assembly as standard supply.
- Minimum downtime required to change direction.
- Hardened and chrome plated beaters and shaft made of SS 410.
- Fabricated to work long with very low heat, vibration & noise generation.
- Castors provided for mobility.



## TABLET INSPECTION

<b>MODEL</b>	<b>GT-DBD</b>
Motor	0.25 HP / 1440 RPM / 3 PH
Belt Width	145mm
Machine Dimension	540mm(W) x 2000mm (L) x 1270mm (H)



- Components can be easily washed or sterilized.
- Designed for effective De-Burring and De-Dusting
- Noiseless & Maintenance free unit.
- Adjustable height to suit any tableting machine outlet.
- Minimum electric power consumption.
- Suction outlet concentrated on De -Dusting zone ensures maximum ushing of removed dust

## DE-BURRING & DE-DUSTING

<b>Model</b>	<b>GT-DDM-1</b>
Output *	5,000 to 2,50,000 tablet / Hr.
Main Electric Motor	0.25 Hp. / 1440 RPM / 3 Ph.
Max. Tablet Diameter	25 mm
Min. Tablet Diameter	5 mm

\* Depending upon tablet shape & size.



ELEVATING DE -BURRING & DE-DUSTING



Model : GT-CM	12"	18"	30"	36"	42"	48"
Loading Capacity in Ltrs.	15	25	45	75	125	185
Main Electric Motor	0.5	0.5	1.0	1.0	2.0	2.0
Blower Ph.0.5	0.5	1.0	1.0	1.0	1.0	2.0
Heater Capacity in Kw.	1.0	1.0	3.0	3.0	3.0	3.0

- Hot air blowing system is with temperature control probe.
- Coating Pan is engineered to the perfection from SS 304 (SS 316 optional).
- Totally enclosed machine drive and hot air blowing system.
- 12" or 48" Coating Machine has variable speed drive. Hot air blowing system is separate.
- 60" or 72" Coating Machine has two speeds with step pulley without hot air blowing system.

## DUST EXTRACTOR MACHINE CGMP

Model	GT - DE-150 / 300 CFM
Electric Motor	1 HP / 2800 RPM / 3 Ph.
Filtration Area	1.343 Sq. Mtr.
Dust Storage Capacity	40 Liters.
Suction Capacity	150/300 CFM (500 Mtr. Cube / Hr.)

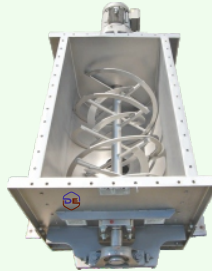
- Provided with stainless steel 316 contact parts.
- Fabricated for effective dust collection.
- Dynamically balanced blower fan ensures minimum noise level.
- Easy to maintain and operate.
- Four inlet manifolds facilitate to connect more dusting zones.
- Castor wheel provided for ease in mobility.



OCTAGONAL BLENDER cGMP



"V" BLENDER



RIBBON BLENDER



MINI COMMUNITING MILL



MINI VIBRO SIFTER



SEMI LIQUID FILLING



FILTER PRESS



ONLINE MULTI MILL



STIRRER



STORAGE TANKS



SEMI LABELLING



HORIZONTAL MAIN DRIVE



VERTICAL MAIN DRIVE



SIEVES



SPRAY GUN FOR TABLET COATING



DIES & PUNCHES



TURRET



FEED FRAME



WORM





### FLUID BED DRYER CGMP



FBD Available from 5 Kg. to 250 Kg.

### PLANETARY MIXER



### HOMOGENIZER



### TRAY DRYER

Tray Dryer Available from 6 Tray / 12 Tray / 24 Tray / 48 Tray Tray



### RAPID MIXER GRANULATOR cGMP

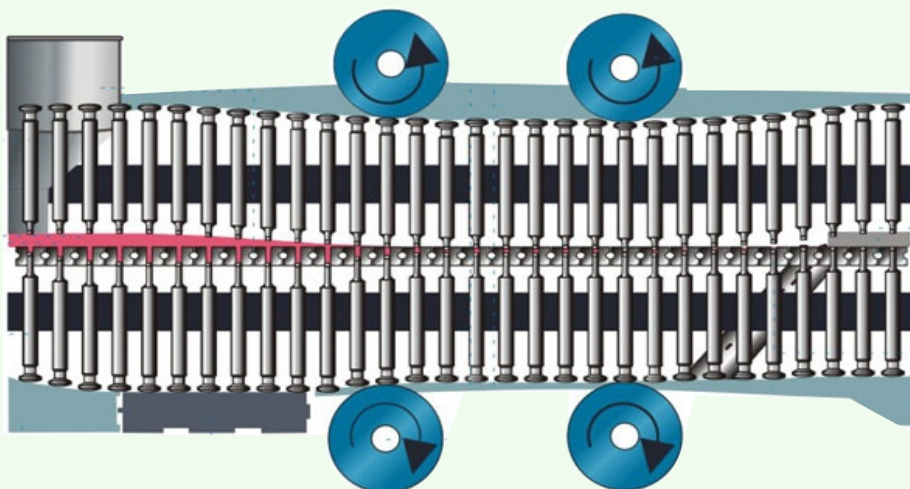
#### Salient features:

Models available from 15 Ltr to 800 Ltr working capacity Fully automatic operation based on PLC control Better productivity & lesser mixing time Contact parts are SS 316/316L Uniform mixing & granulation Less handling, more hygienic cGMP with documentation



### BLISTER PACK MACHINE cGMP

Available Single Track & Double Track



## SEMI-AUTOMATIC MACHINE



SEMI LIQUID FILLING



SEMI CAP SEALING

## BOTTLE WASHING MACHINE



AIR JET CLEANING



ROTARY BOTTLE WASHING

## LIQUID FILLING MACHINE

HIGH SPEED DIGITAL LIQUID FILLING



VOLUMETRIC LIQUID FILLING



## POWDER FILLING MACHINE

DOUBLE HEAD AUGER POWDER FILLING



AUGER POWDER FILLING



## CAP SEALING MACHINE

SINGLE HEAD ROPP/  
SCREW CAPPING



MULTIHEAD CAP SEALING

## CAP SEALING MACHINE

LINEAR CAP SEALING



INNER PLUG INSERTER

## CONVEYING

INSPECTION TABLE



PACKING CONVEYOR



FLOAT FILLING TANK



TURN TABLE

# STICKER LABELING MACHINE



WARP AROUND LABELING



TWO SIDE LABELING



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