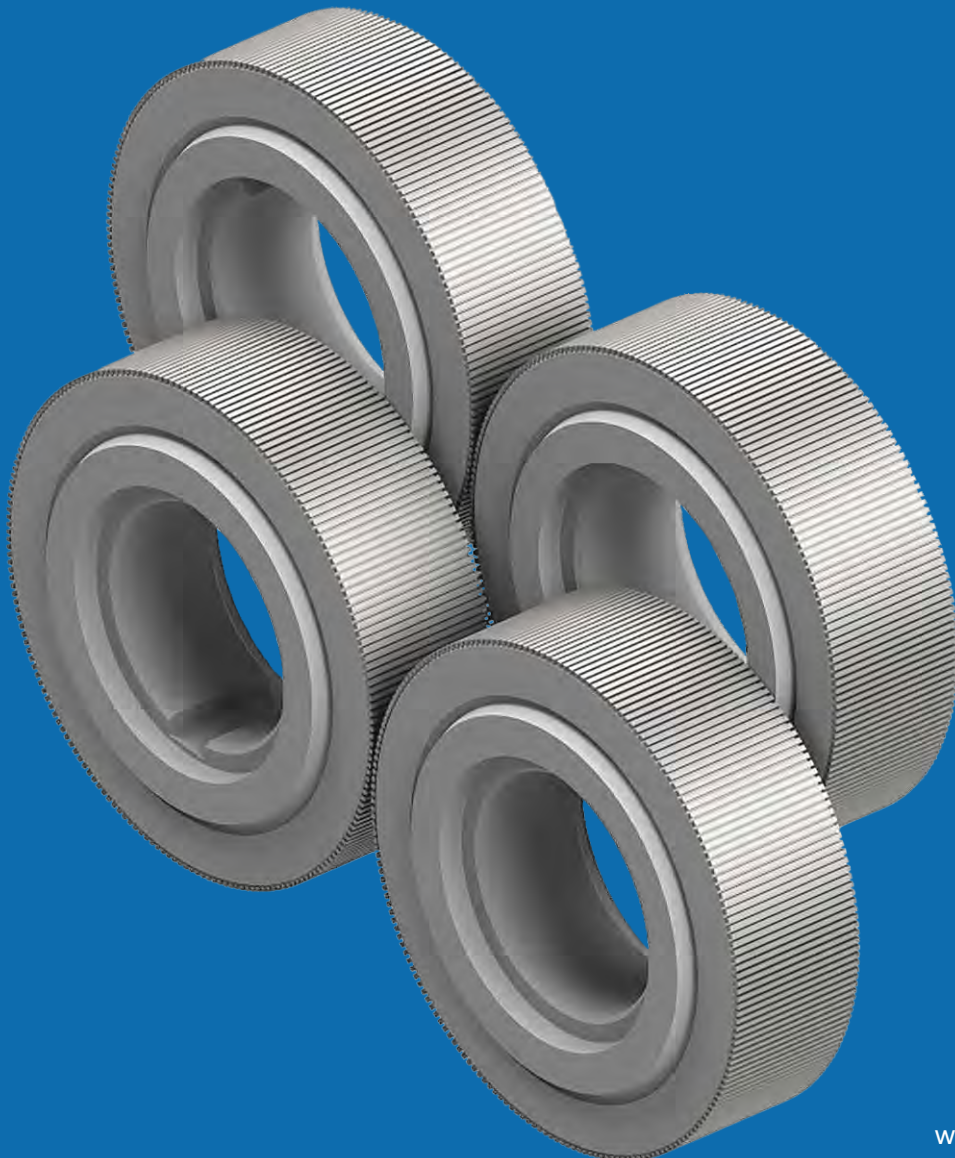


GRANULATION SYSTEM **ROLLER COMPACTOR**



JAPANESE TECHNOLOGY MADE IN INDIA

Parle Global Technologies Pvt. Ltd. founded in 1974 by Mr. Rajmal L. Mehta has over the last 48+ years grown in to a 1300+ employee strong company with 6 Manufacturing Facilities, 10 Branch Offices in India and a presence in 85+ countries worldwide.

The Parle Group of Companies offers a One Roof Solution for Granulation, Tableting, Encapsulation, Printing, Packaging and Semi Solids for the Pharmaceutical, Food & Beverage & Cosmetic industries.

FREUND Corporation, Japan founded in 1964, became the world's first manufacturer to successfully develop the "automatic film coating device" and "film coating solution".

Freund then set out a corporate philosophy "Develop the Future through Creativity" with the intention of "cultivating markets on their own initiative to develop the future; placing importance on ideas when developing new products; and considering the need for products and building new markets."

Freund's Granulating / Coating technology is utilized in the Pharmaceutical, Food and Fine Chemical industries.

Parle Freund Machinery Pvt. Ltd. was established as a joint venture company in 2018 between Freund Corporation, Japan & Parle Global Technologies, India with the express purpose of offering world class Japanese technology manufactured in India.

Parle Freund launched their series of Dry Granulation systems with its unique design and construction philosophy, which assures excellent performance and return on investment.



FREUND CORPORATION
6-25-13, Nishishinjuku, Shinjuku-ku, Tokyo
160-0023, JAPAN
URL <http://www.freund.co.jp>



FREUND CORPORATION
6-25-13, Nishishinjuku, Shinjuku-ku, Tokyo
160-0023, JAPAN
URL <http://www.freund.co.jp>

To whom it may concerned

Dear Valued customer,

We thank you very much for your kind consideration of our proposed Roll Compactor.

Parle Freund Machinery Pvt. Ltd., India, was established as a joint venture corporation in 2019 to manufacture and sell granulation equipment in India and specified territories globally. This joint venture has brought together the manufacturing capabilities of 2 pioneering organizations in the industry. The products manufactured are in compliance with the best standards prevalent in the industry.

Our joint venture partner Parle Global Technologies Pvt. Ltd., established in 1974, manufactures pharmaceutical machinery in India and sells in India and the globe.

Parle Freund, produces the below listed machinery under complete guidance of Freund Corporation, Japan. In fact, we also do have a full time Freund Corporation, Director based out in India overseeing this operation.

The Roll Compactor Models manufactured are

- (1) TF-Mini – R&D Compactor
- (2) TF 208P – Up to 200kgs/hr
- (3) TF 3012P – up to 300kgs/hr

As per the terms of the Joint venture, the following critical components, which are considered the core of the Roll Compactor are supplied from our Japan plant :

1. Compaction Rolls
2. Roll Assembly
3. Hydraulic Drive Unit
4. Feed screw

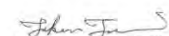
The following critical operations are performed/supported in the Indian operations of Parle Freund :

- Complete outer body manufacturing and assembly
- 21CFR Part11 compliance programming & after sales support
- Electrical wiring & assembly
- Final Product Trials & QC of the equipment
- Internal FAT in presence of Parle Freund, Trained engineers at M/S Freund Corporation Japan
- Customer FAT & technical supports
- Machine installations at customer site via online / offline methods
- Any other technical guidance to the customer and after sales services

We assure you of the technical performance of the product in compliance to you URS.

Thank you once again for your positive consideration.
Best Regards

Freund Corporation


Takumi Tominaga
Deputy General Manager,
Asia Equipment CS Division

KEY FEATURES

TF-P SERIES COMPACTOR

Maximum Processing Flexibility

R&D / Pilot model – TF – Mini P – 300 gm to 10 kg /hr

TF 208 P – Production model – Upto 200 kg /hr

TF 3012 P – Production model – Upto 300 kg / hr

Dual Roller Mounting Blocks System

Uniform Roll forces and Compaction Pressure

Stainless steel Roller Mounting blocks

Horizontally-arranged Rolls with Vertical Screw Feed System

Gravity Powder Feed assists natural feed for uniform Compaction

Unique Compaction Seal Design

Contained Compaction Zone for

Reducing the Amount of Fines

De-aeration Hopper and Screw (Option)

Vertical Hopper and Screw De-Aerates

product prior to Compaction

Color Touchscreen Control System

Manual and Auto Mode

Roll and Screw Amp

Roll and Screw Rotation control

Data acquisition through USB port

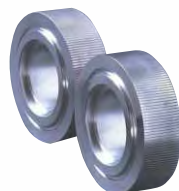
Portable Self-Contained System

Built-in control panel ; Isolatable on request



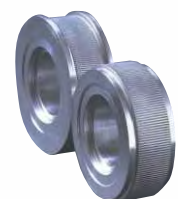
DP Rolls

Suitable to granulate powders with excessively feeding by DPS rolls, and highly adherent powders.



S rolls (Standard)

Excellent to granulate highly adherent powders, powders with which lubricant cannot be used, and powders which are hard to feed between rolls.



DPS Rolls

Produce evenly compacted granules (flakes)

ROLLER COMPACTOR TF-3012P

Output Capacity

300 kg (capacity differ depending on the characteristics of material to be compacted)

Hopper Volume

60 liters

Inline Granulation

Pre-mill
Dual Rotor Granulation

Operating Interface

Color Touch screen Operator Interface Panel

Machine Dimension

1100 (L) x 1600 (W) x 22473 (H) mm

Machine Weight

3000 kg

Roll Type

“S” rolls as standard

Power Consumption

12kW (approx.)



Screw Type	:	Vertical Tapered Spiral feed screw
Screw Material	:	316L, stainless steel
Screw RPM	:	Frequency Control 10-50 rpm, Motor 415V, 50Hz, 3Ph, 2.2kW
Roll Dimension	:	300 x 105 mm
Roll Material	:	Hardened stainless steel construction
Max Roll Pressure	:	20MPa
Max Roll Force	:	20 tons
Roll RPM	:	5 to 20 RPM
Granulator Material	:	316L stainless steel

ROLLER COMPACTOR TF-208P



Output Capacity

200 kg (capacity differ depending on the characteristics of material to be compacted)

Hopper Volume

30 liters

Inline Granulation

Pre-mill
Dual Rotor Granulation

Operating Interface

Color Touch screen Operator Interface Panel

Machine Dimension

850 (L) x 1300 (W) x 2200 (H) mm

Machine Weight

1800 kg

Roll Type

"S" rolls as standard

Power Consumption

7.5kW (approx.)

Screw Type	:	Vertical Tapered Spiral feed screw
Screw Material	:	316L, stainless steel
Screw RPM	:	Frequency Control 10-50 rpm, Motor 415V, 50Hz, 3Ph, 2.2kW
Roll Dimension	:	200 x 70 mm
Roll Material	:	Hardened stainless steel construction
Max Roll Pressure	:	20MPa
Max Roll Force	:	20 tons
Roll RPM	:	5 to 20 RPM
Granulator Material	:	316L stainless steel

ROLLER COMPACTOR TF-Mini/P

Output Capacity

10 kg (capacity differ depending on the characteristics of material to be compacted)

Hopper Volume

3 liters

Inline Granulation

Dual Rotor Granulation

Operating Interface

Color Touch screen Operator Interface Panel

Machine Dimension

950 (L) x 600 (W) x 1570 (H) mm

Machine Weight

450 kg

Roll Type

“S” rolls as standard

Power Consumption

2.0kW (approx.)



Screw Type	:	Vertical Tapered Spiral feed screw
Screw Material	:	316L, stainless steel
Screw RPM	:	Frequency Control 5-50 rpm, Motor 415V, 50Hz, 3Ph, 2.2kW
Roll Dimension	:	100 x 37 mm
Roll Material	:	Hardened stainless steel construction
Max Roll Pressure	:	15MPa
Max Roll RPM	:	2-10
Max Roll Force	:	4.8 tons
Roll RPM	:	5 to 20 RPM
Granulator Material	:	316L stainless steel



Granulation Operation in Isolation Possible as an Option

ROLLER COMPACTOR DRY GRANULATION

Roller Compactor Granulation System

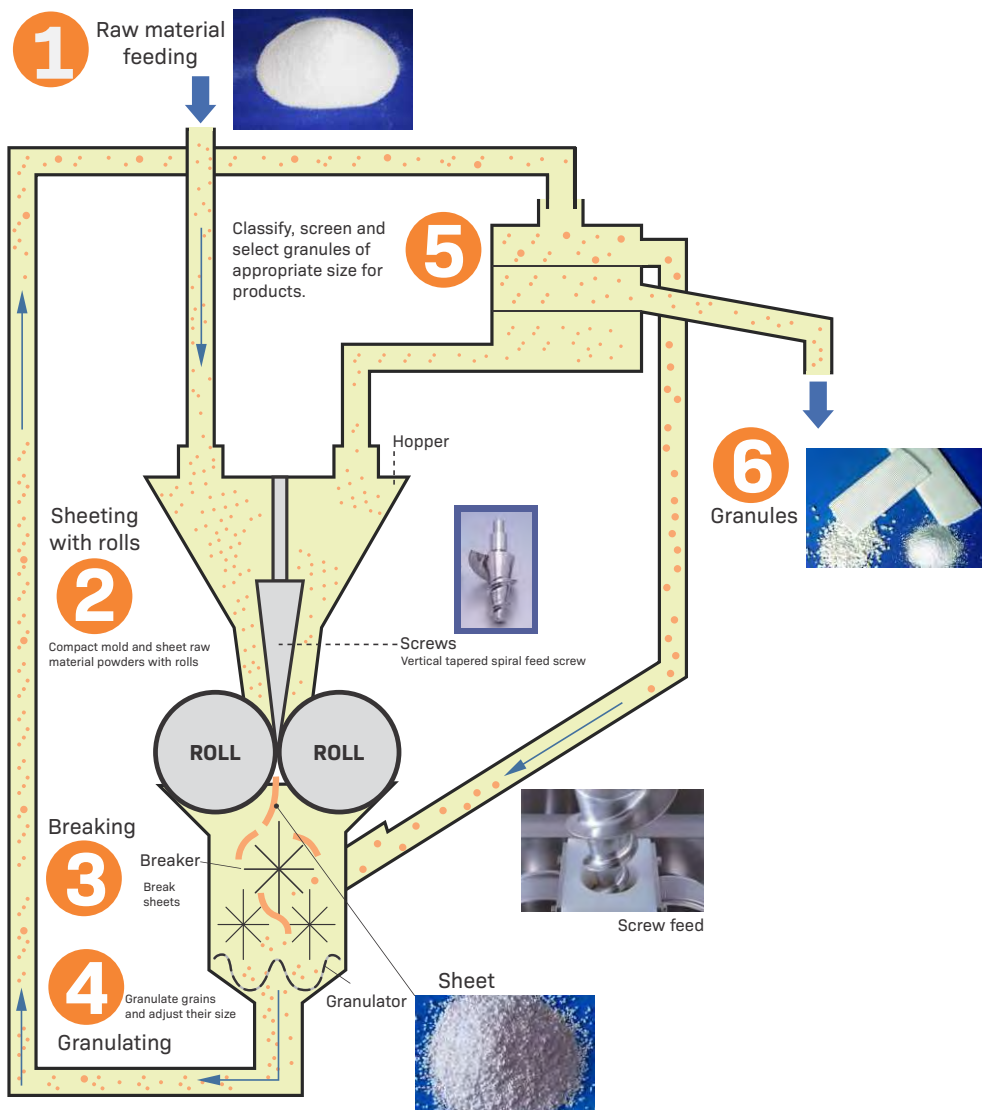
(Schematic picture showing inline recirculation and continuous sifting option)



TF 3012P
with Complete Recirculation system



TF 208P
with Complete Recirculation system





BRANCH OFFICES IN INDIA

· AHMEDABAD
· BANGALORE
· CHANDIGARH

· CHENNAI
· GOA
· HYDERABAD

· INDORE
· NEW DELHI
· RANGPO
· VISHAKAPATNAM

SCAN for
Video | Brochure

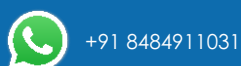


Parle Freund Machinery Pvt. Ltd.

Shripal Industrial Estate, Bldg No. 3, Behind Varun Industries, Waliv Road, Vasai East
Palghar – 401208, Maharashtra, India

Contact: +91 8484911031

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Parle Freund reserves the right to make any changes to the described specifications. No liability will be accepted for errors or omissions. Photographs shown are for representative purpose only.

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