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# International Combustion (India) Limited

## Mechanical Vibrating Feeders



**Controlled feeding of Bulk Materials with absolute reliability :**

- Computer aided selection and design
- Rigid manufacturing standards
- Sophisticated test facilities
- Prompt After-Sales Service

## Mechanical Vibrating Feeder

IC manufactures a comprehensive range of Mechanical Vibrating Feeders, incorporating modern technology in terms of design, material specifications, manufacture and testing. The entire scope of services include :

- Engineering, including planning and, if desired, installation and commissioning.
- Instruction and training of customers' operation personnel.
- Comprehensive customer services, including spare parts and repair service.

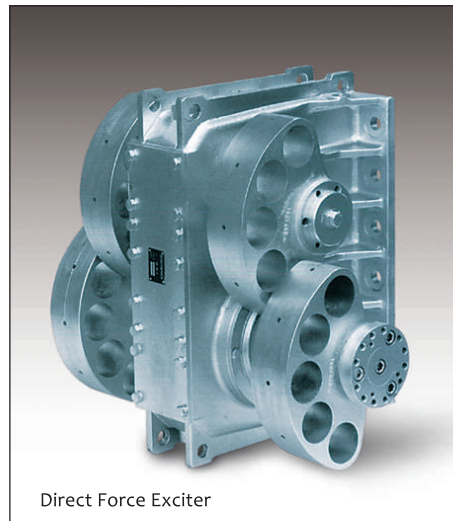
IC Vibrating Feeders are characterized by high availability, low operating costs, low energy consumption and protection of environment.

A strong technological know-how has enabled IC to successfully manufacture and supply Vibrating Feeders to capacities even over 3000 TPH, handling lumps going up to 1500 mm, to withstand high impact and high bunker loads and for equipment to operate under the most difficult environmental and operating conditions, with complete reliability.

In metallurgical plants, in coking plants, in cement, lime and gypsum plants, in quarries and crushed stone plants, in ore mining, in the fertilizer industry and recycling operations, IC Mechanical Vibrating Feeders and Conveyers handle all types of bulk solids, from very large lumps to fine grains, wet or dry.

In addition to Feeders/ Conveyers IC also supplies various designs of inlet chutes, gates, skirt arrangements. Replaceable liners are offered manufactured from wear- resistant steel, rubber, plastic or ceramic.

IC Vibrating Feeders are offered with either Direct Force Exciters or Unbalance Motor Exciters, depending upon the type and duty requirements :



Direct Force Exciter

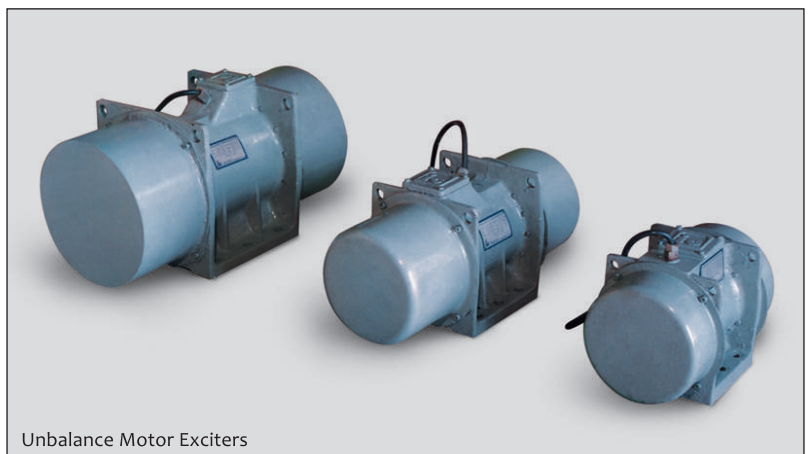
### Direct Force Exciter

It comprises two shafts fitted with unbalance masses, rotated in opposite directions through a set of gears and generates Linear Motion. These Exciters are particularly used for very heavy duty applications and fitted with special vibration duty bearings with service life. Exciters are driven by standard electric motors through a Cardan Shaft. Maintenance is limited to occasional checks of oil level/oil change, at prescribed intervals.

### Unbalance Motor Exciters

Two Unbalance Motors are used for each Vibro Feeder to generate Linear Motion. Centrifugal force can be infinitely varied through adjustment of unbalance discs. Rated for S4 duty with class "F" insulation and incorporated with IP 65 degree of protection, these Exciters give excellent service life.

Vibro Feeders with either of the above type of Exciters can be operated through frequency inverter. A brake system, if required, can be incorporated.



Unbalance Motor Exciters

VIBRATING FEEDERS	TYPE	MAXIMUM CAPACITY (M <sup>3</sup> /h)	TROUGH SIZE RANGE (mm)
	SAN/SAS	480	400 x 1250 To 1600 x 3500
	SRC	840	400 x 1250 To 2400 x 4500
	HEAVY DUTY AND HIGH CAPACITY FEEDER	>1000	TO SUIT APPLICATION
	SPR SPREADER FEEDERS	200	TO SUIT APPLICATION
VIBRATING CONVEYORS	TYPE	MAXIMUM CAPACITY (M <sup>3</sup> /h)	TROUGH SIZE RANGE (mm)
	SPF/SPG	265	400 x 3600 To 1250 x 6000
	SPK/SPL	90	220 dia x 4000 To 500 dia x 5000
	FURNACE CHARGING FEEDERS	AS PER APPLICATION REQUIREMENT	AS PER APPLICATION REQUIREMENT

## Principal Fields of Activity

### **Steel Industry**

Feeding in sinter and pelletizing plants : Feeding of return fines and hearth layer material.

Vibro Feeders for crusher relief and under deep bunkers in wagon/car unloading systems.

Vibro Feeders in blast furnace burden plants.

Vibro Conveyors for dust under electro filters.

Tubular Vibro Feeders for charging rotary kilns.

### **Foundry**

Vibro Conveyors for used sand and new sand.

Vibro conveyors for cooling of castings.

Vibro Conveyors as picking belts

Vibro Feeders for additives for furnace charging.

Knock - outstations

Vibrating Tables to compact core sand.

Mobile Vibro Feeders with feed chute for furnace charging.

### **Quarries and Sand/Gravel Industry**

Very large Vibro Feeders for crusher relief.

Vibro Feeders for feeding skips and railway wagons.

### **Cement, Lime & Gypsum Plant**

Vibro Conveyors and Feeders for limestone, raw meal, also tubular feeders for dust.

Vibro Feeders for feeding bunkers with limestone, slag gypsum.

Vibro Feeders feeding grinding mills.

### **Mining Industry (Coal, Ore)**

ROM Grizzly feeders.

Discharge Vibro Feeders for coal and coke.

Vibro Feeders and Grizzly Feeders

### **Chemical Industry**

Vibro Conveyors for heat exchange

Conveying of dust (for example soot, flue dust etc.)

Conveyors for plastics and rubber industries.

Vibro Conveyors for soap powder and detergents.

Vibro Feeders in the explosives industry and for abrasives.

### **Food Processing**

Vibro Feeders for conveying dried food products.

Vibro Conveyors with air cooling for powdered milk.

Vibro Conveyors for dried root vegetables.

### **Air and Water Pollution Control**

Vibro Feeders for extracting refuse and charging incinerator.

Vibro Conveyors for transporting slag, flue dust, screening of refuse.



## **International Combustion (India) Limited**

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