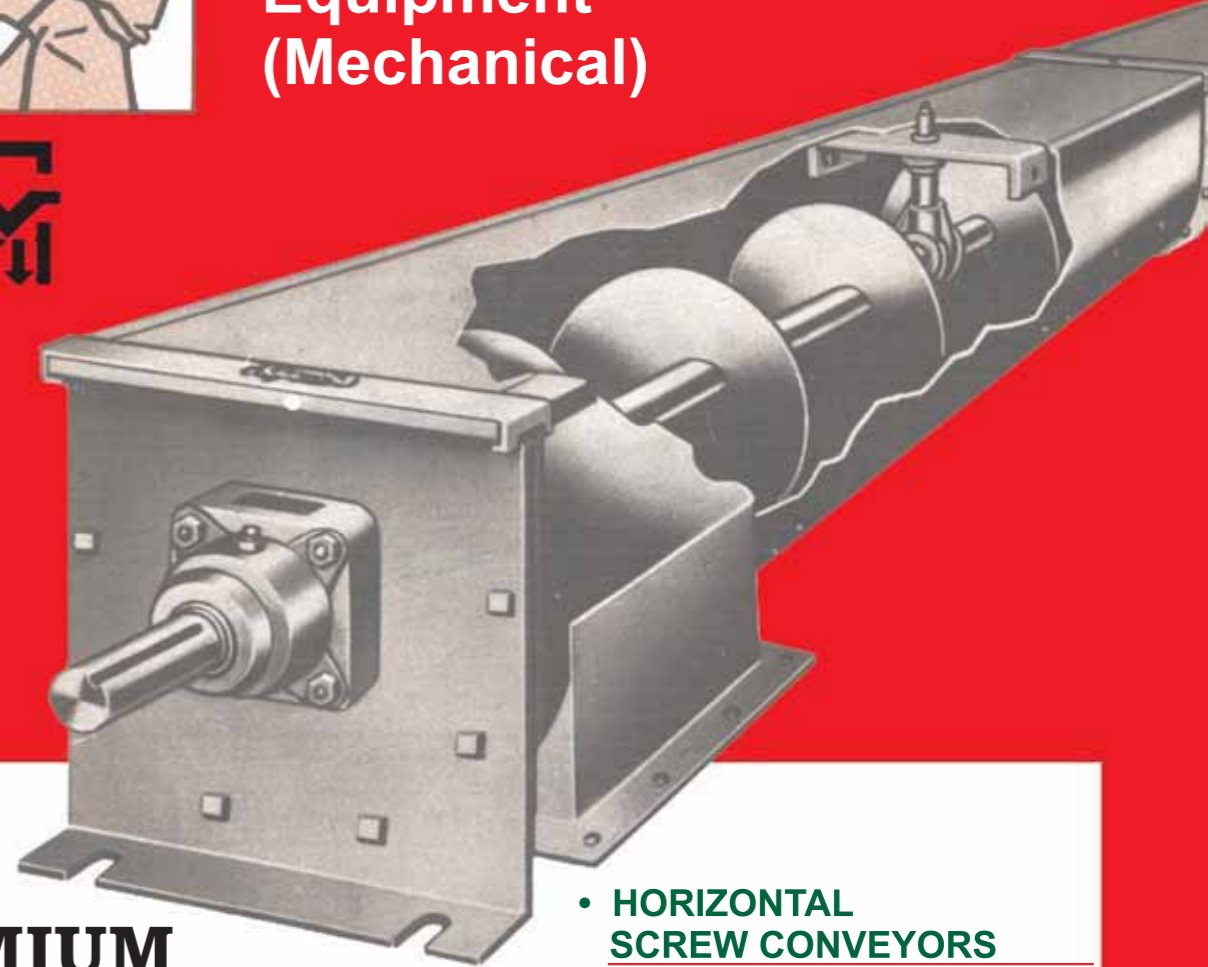


**MATERIAL TABLE**

MATERIAL	AV. WT. IN LB./CU.FT	CAPACITY CHART
Alfalfa - Meal	15	A
Alum - Pulverized	45 - 50	B
Alumina - sized	65	C
Aluminium - Hydrate	15 - 20	A
Arsenic - Pulverized	30	B
Asbestose - Shredded - Minus 1/4"	20 - 25	A
Ashes - Wet - Minus 1/2"	45 - 50	C
Ashphalt - Top Dressing	80 - 85	A
Bakelite and similar Plastics-Minus 3/8"	30-40	A
Barley	36	A
Beans - Castor	36	A
Bentonite	51	A
Bone Meal	55 - 60	B
Borax	50 - 55	B
Bran	16	A
Calcine Flour	80	B
Cement - Bulk	75 - 85	B
Chalk - Crushed	85 - 90	B
Charcoal - Ground	18 -28	A
Coal - Anthracite - 1/4" to 4"	60	B
Coal - Bituminus - Minus 1/4"	45	A
Coal - Cinder	40	C
Coal Lignite	40 - 55	B
Cocoa - Beans	35 - 40	B
Coffee - Beans (Green or Roasted)	22 - 32	B
Coke - Breeze	15 - 34	C
Copper - Ore	115 - 140	C
Copra - Meal	40 - 45	A
Corn - Germ	21	A
Corn - Sugar	30 - 35	A
Cornmeal	40	A
Cottonseed - Dry Delinted	25	A
Cottonseed - Cake	40 - 45	A
Cottonseed - Hulls	12	A
Cottonseed - Meal	35 - 40	A
Dolomite - Granular	80 - 100	B
Feldspar - Minus 1/8"	65 - 75	B
Fish Meal	35 - 40	A
Flour - Wheat	33 - 40	A
Flourspar	110	B
Graphite- Flake	40	A
Gypsum - Calcined	55 - 60	B
Iron Oxide - Dry	-	B
Kaolin Clay - Minus 3"	160 - 170	C
Lime - Hydrated	35 - 45	B
Limestone Dust	75 - 85	B
Malt - Dry - Whole	27 - 30	A
Malt - Meal	36 - 40	A
Mica Flake	17 - 22	B
Oats	26	A
Peanuts - Meal	30	A
Peanuts - Shelled	35 - 45	B
Peanuts - Unshelled	15 - 20	B
Plaster of Paris	50	A
Quartz - Pulverized or Granular	110	C
Rice - Clean	15 - 50	A
Salt - Coarse	45 - 50	B
Salt - Dry - Fines	70 - 80	B
Sand - Silica - Dry	90 - 100	C
Sand - Foundry	90	C
Sawdust	13	A
Shale - Crushed	85 - 90	B
Soap - Chips	15 - 25	A
Soap - powder	20 - 30	A
soyabean - cracked	32 - 36	A
Soybean - Cake	40 - 45	B
Soybean - Flakes	18 - 26	A
Soybean - Meal	40	A
Sugar - Raw	55 - 65	B
Sulphur - Lumpy - 100 mesh	80 - 85	B
Sulphur - Powder - 00 Mesh	50 - 60	B
Talcum Powder	50 - 60	B
Wheat	48	A
Alum - Lumpy	50 - 60	B
Bauxite - Crushed - Dry	75 - 85	C
Brewers' Grain - Spent - Dry	25 - 30	A
Chalk - Pulverized	70 - 75	B
Charcoal - Broken - Minus 3"	18-25	B
Coal - Bituminus - 1/4" to 4"	50	B

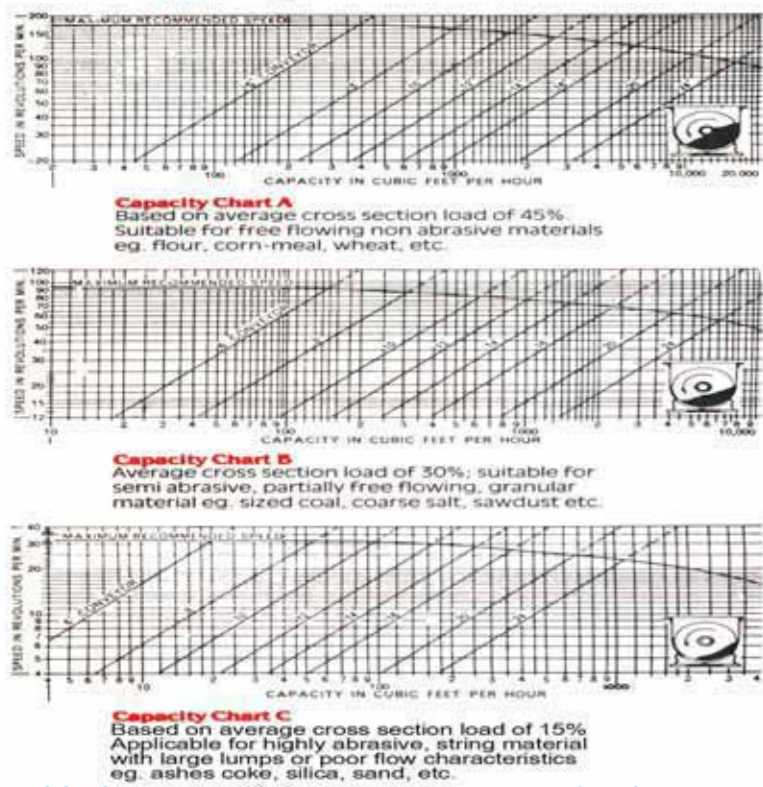


**PREMIUM Bulk Material Handling Equipment (Mechanical)**



**PREMIUM Standard SCREW CONVEYORS Parts & Systems**

- HORIZONTAL SCREW CONVEYORS
- INCLINED SCREW CONVEYORS
- TUBULAR SCREW CONVEYORS
- VERTICAL SCREW LIFTS
- SCREW CONVEYOR SYSTEMS
- OFF THE SELF SCREW CONVEYOR PARTS



**ALSO OTHER BULK MATERIAL HANDLING EQUIPMENT**

**BUCKET ELEVATOR**

Ideal for elevating a variety of dry bulk materials Economically, Efficiently and Reliably, for Bins, Silo or Machines. Standard models or custom built.

**BELT CONVEYOR**

(Troughed belt type) For handling loose materials like sand, coal, grain etc. Ideal for truck & Railway wagon loading. Standard models & custom built.

**PIPE CONVEYOR**

(Screw Type) For handling of bulk materials. Medium Duty, Dust Proof & Compact Design. Ideal for Dusty, Pungent materials like Spices. Standard models & custom built.

**RADIAL STACK CONVEYOR**

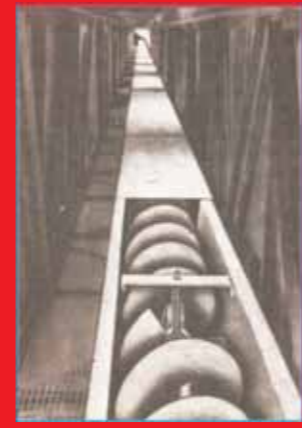
(Trough Belt Type) For handling loose materials like Salt, Sand, Minerals etc. Ideal for dumping on Floor. Standard models & custom built.

Manufactured By:

**PRECISION PRODUCTS**

Plot No. 2009, Phase-IV, GIDC Industrial Estate, Vatva, AHMEDABAD - 382 445. INDIA  
 Phone : (079) 25830836, 25831440 Fax : (079) 25830965  
 E-mail : exports@premiumprocessequipment.com / exports@premiumpulverisers.com  
 Visit us : www.premiumprocessequipment.com / www.premiumpulverisers.com

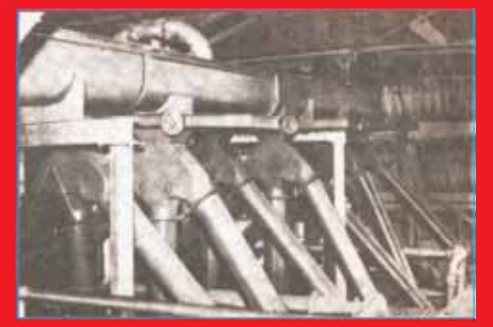
PROFESSIONALS IN PARTICLE TECHNOLOGY



Screw Conveyors Ideally suited in congested layouts

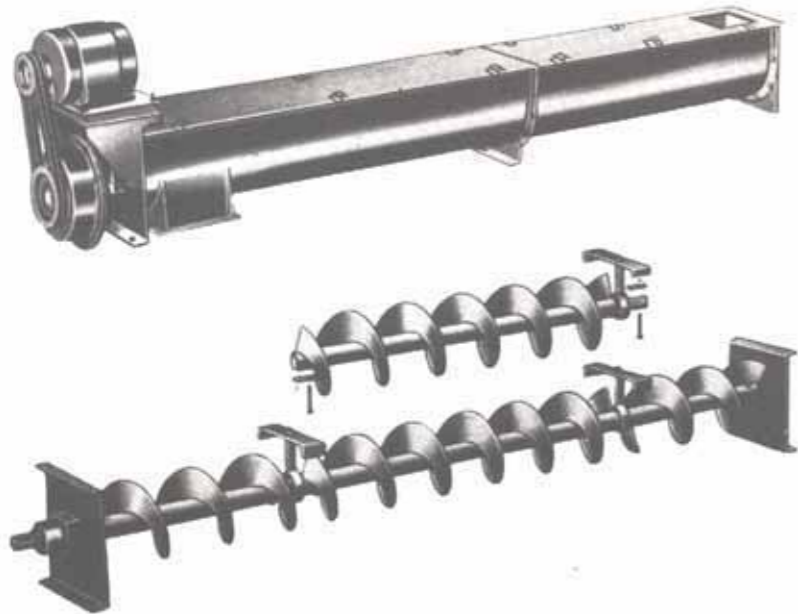


Overhead arrangement of Screw Conveyors, saving valuable floor space



Screw Conveyors with number of discharge chutes along the length.

## HORIZONTAL & INCLINED SCREW CONVEYORS



SCREW CONVEYORS form an essential part in the movement of bulk materials. Suitable for a wide range of applications. Screw Conveyors are simple & robust in design, versatile and easily maintained.

### Construction Details:

**Troughs** – Fabricated from 3/5 mm steel sheets in standard sizes and lengths or to requirement. Covers supplied with sealing material.

**Screw flighting** – Segmental flights to standard or special requirements.

**Bearings** – Flanged type end bearings are sealed for life. Intermediate hanger bearings are precision die-cast with suitable inserts.

**Drive** – Consists of geared motor, chain & sprockets on a fabricated mounting. Drive arrangement oriented to meet site requirements.

**Inlets & Outlets** – Made to customers' requirements and are factory fitted or assembled at site.

## VERTICAL SCREW LIFT



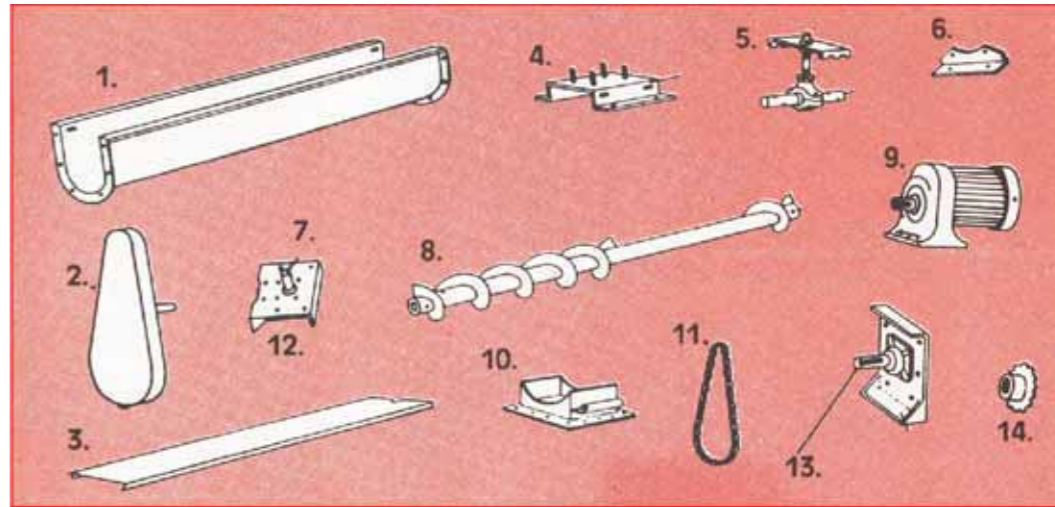
Used in elevating, distributing and reclaiming bulk materials with minimum of stagnant material and segregation, gives efficient transfer of material from horizontal to vertical with positive discharge in any desired direction.

Vertical Screw Lifts can be supplied in carbon steel (normal), SS, hot dipped galvanised etc. surface hardened flights are also available. Housing is in convenient lengths, vertically split and flanged. Special pitch tapered double flight is provided at the lower portion.

## TUBULAR SCREW CONVEYOR



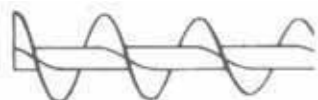
Usually used in inclined operations with greater efficiency due to round shape of the troughs. Troughs available in a range of thickness and split types also.



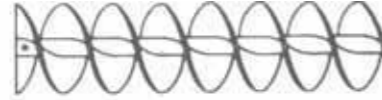
Off the Shelf Screw Conveyor parts is a scheme in which stock of Standard conveyors in component or sub assembly form is readily available to customers who need the equipment immediately.

- |                         |                     |
|-------------------------|---------------------|
| 1. Casing (Trough)      | 8. Screw Flights    |
| 2. Chain Cover          | 9. Motor            |
| 3. Cover                | 10. Outlet          |
| 4. Motor Platform       | 11. Chain           |
| 5. Intermediate Bearing | 12. Box end         |
| 6. Foot                 | 13. Drive end Shaft |
| 7. Tail Shaft           | 14. Chain Sprockets |

### TYPES OF FLIGHTS



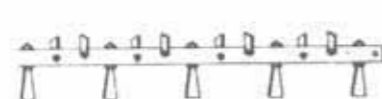
**Standard Right hand Screw Conveyors:** carrying side of the flight is free of lugs, the back is reinforced at the end to prevent flight folding back.



**Double Flight:** Incorporates two rows of flights of the same hand in the last 2 or 3 pitches prior to discharge. Provides even discharge, minimizing surges.



**Mixing Paddles:** For retarding material flow and additional mixing action, paddles are fitted.



**Paddle Conveyors:** Provides greatest stirring action with reduced conveying efficiency flighting completely eliminated.



**Cut Folded:** Creates greater agitation than only cut flights.



**Short Pitch:** Provides better conveying action with reduced capacity proportionate to pitch reduction.

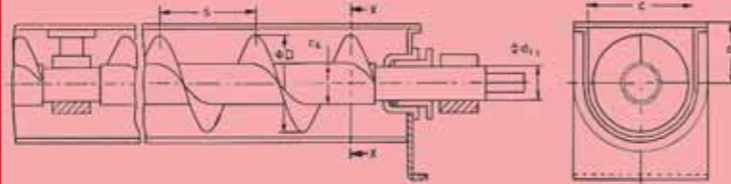


**Variable Pitch:** Used as feeder screws under long storage hoppers.



**Cut Flights:** Deep notches in flights, chops and agitates the material providing efficient mixing action.

### RECOMMENDED DIMENSION FOR TROUGH & SCREWS:



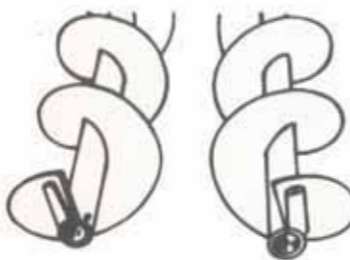
### TECHNICAL DATA

Model No.	Nom Size D	Trough height form center of screw shaft to upper Edge of the Trough a	Trough Width C	Thickness of Trough			Capacity tons/hrs. 45% Loading	
				Heavy Duty	Medium Duty	Light Duty	Flour (Indicative only) 0.5 B.D.	Grain 0.7 B.D.
PSC - 4	100	63	120	-	2.0	1.6	0.5	0.7
PSC - 6	160	90	180	5.0	3.15	1.6	1.6	2.4
PSC - 8	200	112	220	5.0	3.15	2.0	5	7
PSC - 10	250	140	270	5.0	3.15	2.0	7	11
PSC - 12	315	180	335	5.0	3.15	-	13	19
PSC - 16	400	224	420	5.0	3.15	-	32	45
PSC - 20	500	280	530	5.0	3.15	-	63	89
PSC - 24	600	355	660	6.0	5.0	-	109	153
PSC - 32	800	450	830	6.0	5.0	-	260	364

### PARTS & ACCESORIES



**SS Conveyor Screw** For use in food, drugs, industry for sanitation, corrosion resistance etc.



**Sectional Flights** Formed from steel plates and mounted on the Pipe.

**Screw Conveyors** Either right or left hand with carrying side of the flight free of lugs and the back reinforced at the ends.

**Hard Surfaced Screw Conveyor** For handling abrasive material by fusing suitable alloy on the flighting fac.



**Drive Assemblies** Either Fixed or variable speed. Drives oriented to site conditions; top mounting being standard.

