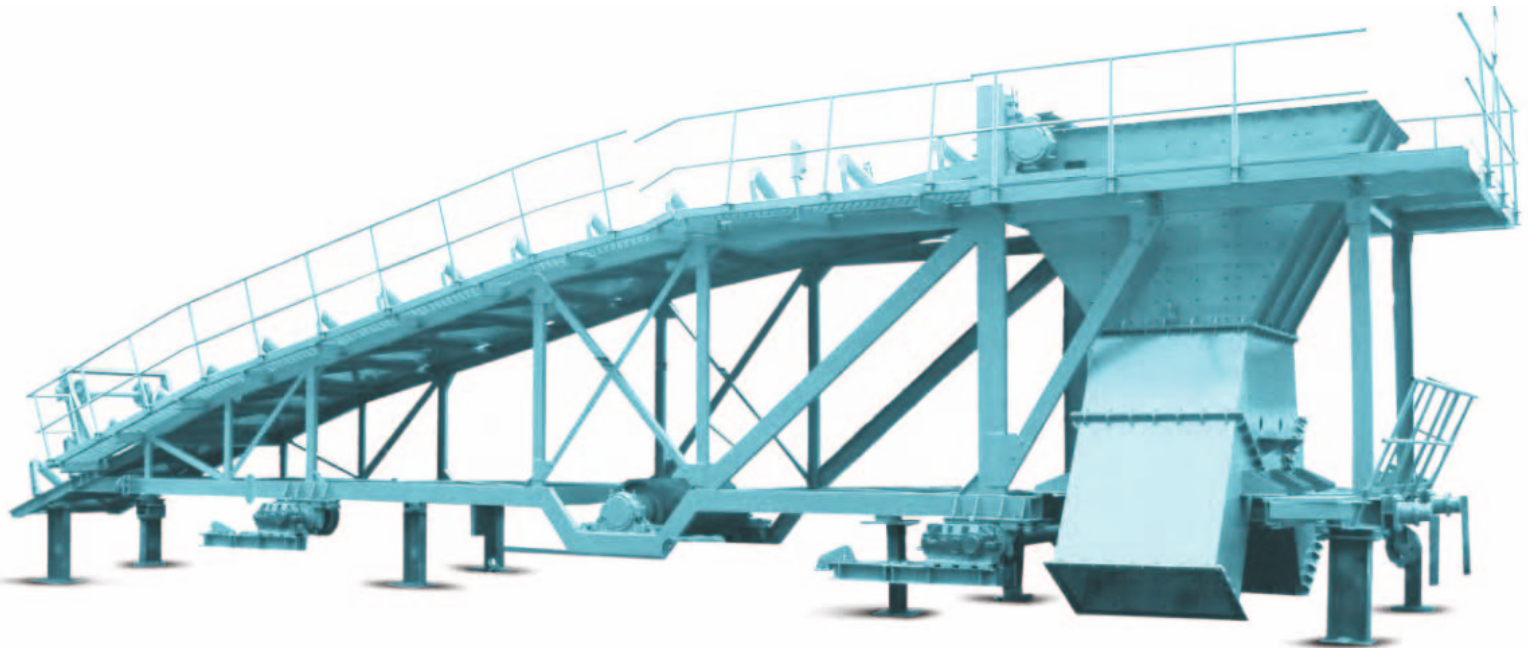


Travelling Trippers



TECHNICAL SPECIFICATIONS

- Manufactured as one-way chute, two-way chute & three-way chute
- Driven electrically
- Up to 2000 mm belt
- Material handled coal, iron ore, limestone, etc. to fill the bunker or pile of mounted on ground
- Comprises special design with concave and convex curve to minimise the un-supported length of belt

Travelling Trippers

The tripper is provided in the conveying system to stack the material at the desired location on the conveyor with the help of chute/chutes fitted to the tripper. The tripper is provided with wheels, which move on rails, placed parallel to conveyor on each side. These trippers have a rigid welded steel frame to resist shock and minimise distortion.

Motorised Tripper

Motorised trippers move on independent electric motors. It is used where continuous and uniform distribution of material along the conveyor is required or where the tripper is moved back and forth frequently. It can be automatically reversed at each end of its travel with the help of limit switches carried on the tripper and actuated by stops placed where desired along the runway. Push buttons are provided for manual control to regulate the tripper. The tripper can be moved either when the conveyor belt is moving or stationary. Each tripper is provided with a hand operated powerful, quick action rail clamp for holding it in a fixed position. The tripper is provided with a platform for the operator.

Long Travel Drive Assembly

Travel drive is through direct wheel axle drive design. A hollow shaft mounted gear box is placed directly on the wheel axle. The input of gearbox is coupled with an electric motor. The brake is mounted on the rear extend shaft of the motor or between input shaft of gearbox and motor shaft. All drive components are mounted on a common drivebase which is connected with the tripper's main body with a torque arm. Alternately geared motor may also be provided with hollow shaft with inbuilt brake and torque arm arrangement to overcome space constraint. The power is supplied by a cable reeling drum mounted on tripper body or festooning cable arrangement, if the travel length is small.

Flapper Gate Drive Assembly

The gate drive is through electro mechanical linear actuator fitted with link mechanism. The actuator is supported on a trunnion-mounted bracket. In a three-way chute two flap gates are required. Both can be operated by a

single actuator either by using special link mechanism or by individual actuators whichever is required by the customer.

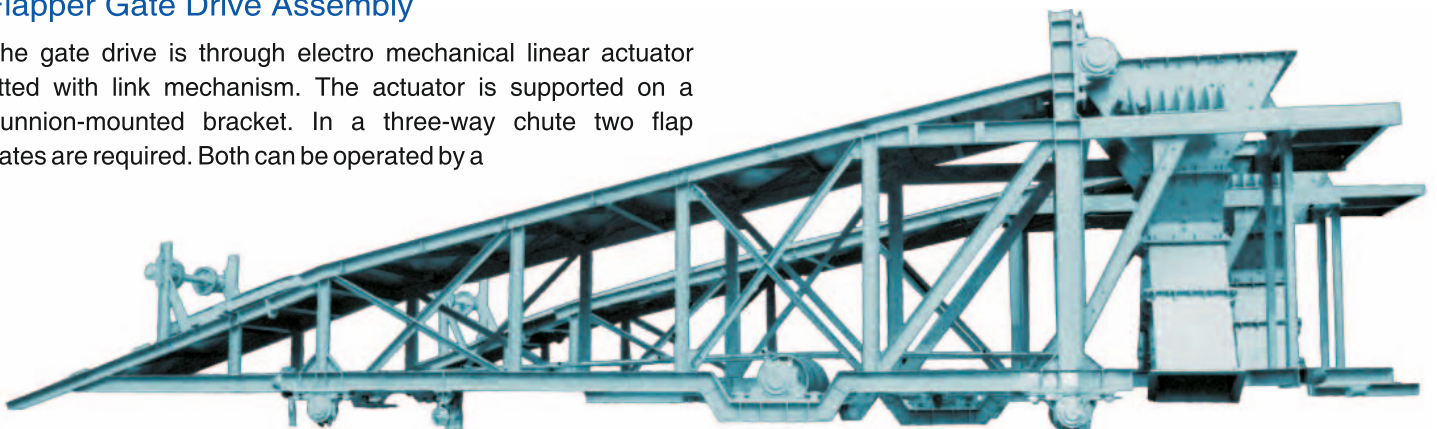
Bunker Belt Sealing

The entire bunker opening is sealed by covering with a belt. The covering belt is deflected in a particular profile with the help of a set of idlers and it is mounted on the tripper chute.

By virtue of such a belt profile, the bunker opening below the chute discharge is cleared automatically to drop the material into bunker.

Features

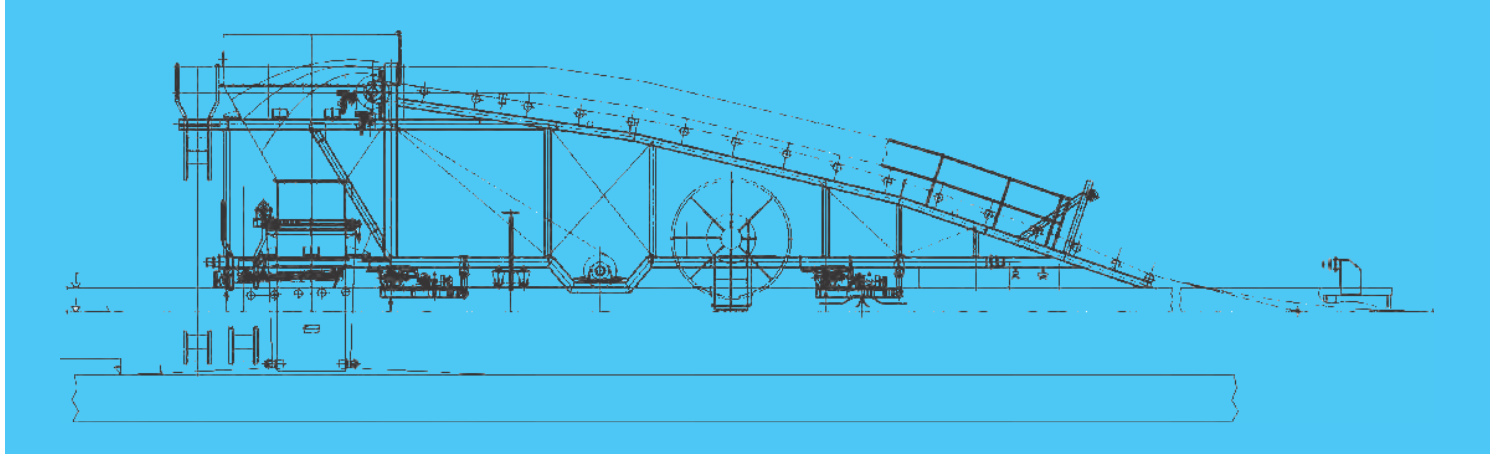
- To minimize the over hang of belt, the tripper structure has been designed with concave and convex curves.
- There are options of drive system. Drives with chain and sprocket; direct drive with hollow shaft mounted gearbox alongwith motor and brake.
- Direct drive is also given with hollow shaft mounted geared motor with an inbuilt brake.
- The machine can be controlled either by local operation from the machine or by remote operation from control station with selector switch or both.
- The machine has been provided with all safety controls and limit switches, such as over travel limit switch, chute-jamming switch, etc.
- The machine can be provided with cradle assembly, mounted on the machine to protect the conveyor belt from damage due to the impact of discharged material.



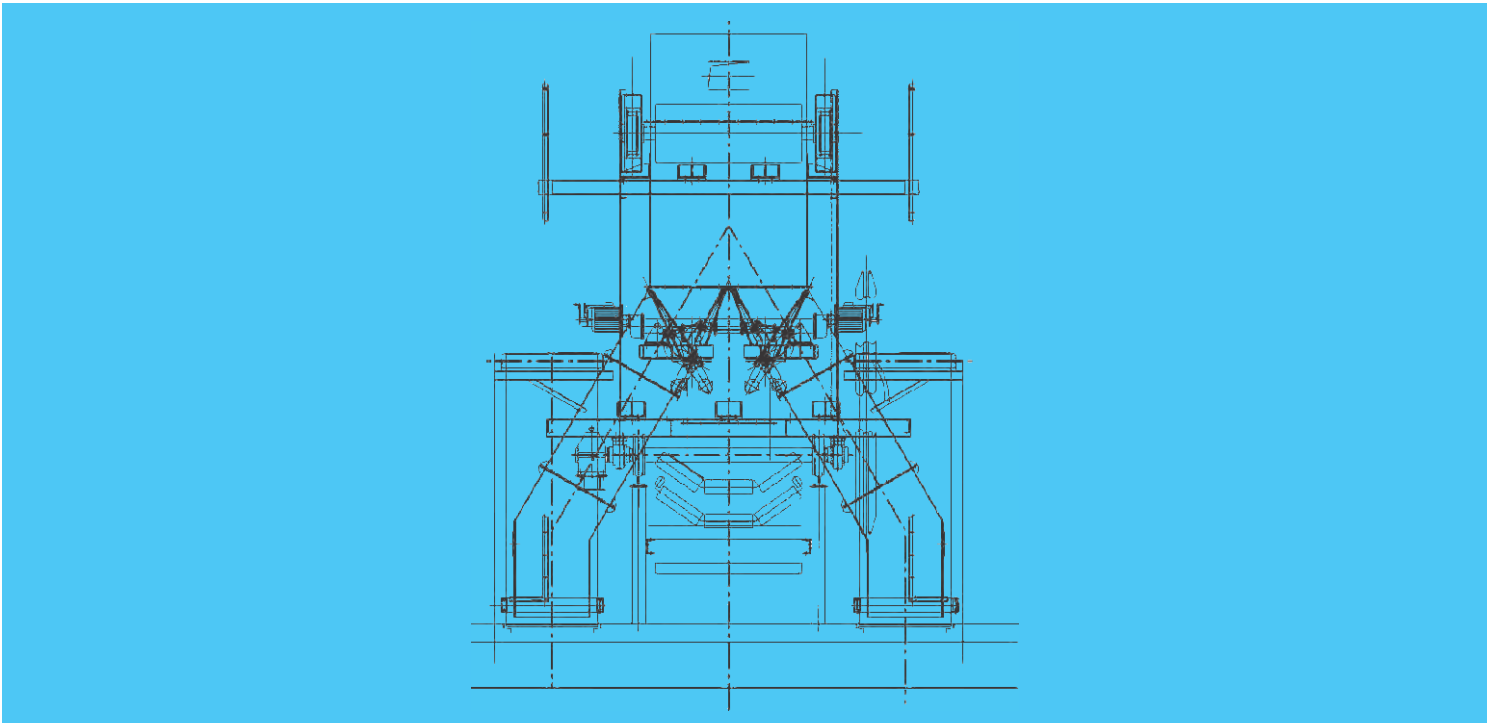
FRONT VIEW OF A ONE-WAY CHUTE TRAVELLING TRIPPER

Material Handling, Capacity & other features of some Travelling Trippers:

MATERIAL	LUMP SIZE mm	CAPACITY RATED TPH	CAPACITY DESIGN	TYPE OF CHUTE	BELT WIDTH	TRAVEL DRIVE POWER KW
COAL	6 mm	150 TPH	165 TPH	2 WAY CHUTE	650	3.7 KW
COAL	20 mm	1600 TPH	1760 TPH	3 WAY CHUTE	1400	3.7 KW
COAL	6 mm	150 TPH	165 TPH	3 WAY CHUTE	800	3.7 KW
COAL	20 mm	750 TPH	825 TPH	2 WAY CHUTE	1200	3.7 KW
COAL	20 mm	750 TPH	825 TPH	3 WAY CHUTE	1000	3.7 KW
COAL	20 mm	750 TPH	825 TPH	3 WAY CHUTE	1000	5.5 KW
LIGNITE	(-) 6 mm	660 TPH	730 TPH	2 WAY CHUTE	1000	3.7 KW
LIME	(-) 20 mm	300 TPH	330 TPH	1 WAY CHUTE	600	2.2 KW
COAL	(-) 250 mm	1500 TPH	1800 TPH	2 WAY CHUTE	1400	5.5 KW
COAL	(-) 75 mm	750 TPH	825 TPH	2 WAY CHUTE	1000	2.2 KW
CLEAN COAL	(-) 20 mm	50 TPH	60 TPH	1 WAY CHUTE	500	2.2 KW
CLEAN COAL	(-) 20 mm	125 TPH	150 TPH	1 WAY CHUTE	650	2.2 KW
CLEAN COAL	(-) 20 mm	125 TPH	150 TPH	2 WAY CHUTE	650	2.2 KW
COAL	(-) 20 mm	210 TPH	230 TPH	2 WAY CHUTE	650	3.7 KW
COAL	(-) 25 mm	1350 TPH	1485 TPH	3 WAY CHUTE	1400	3.7 KW
CRUSHED COAL	(-) 20 mm	800 TPH	960 TPH	2 WAY CHUTE	1200	3.7 KW
L.S/DOLO	(-) 40 mm	200 TPH	240 TPH	2 WAY CHUTE	800	3.7 KW
IRON ORE/ FLUX	(-)40/(-)30 mm	500 TPH	600 TPH	2 WAY CHUTE	1000	3.7 KW
COKE	(-)25 TO 80 mm	200 TPH	240 TPH	3 WAY CHUTE	1000	3.7 KW
SINTER	(-)50 mm	400 TPH	480 TPH	3 WAY CHUTE	1000	3.7 KW
COAL	(-)30 mm	1200 TPH	1440 TPH	2 WAY CHUTE	1400	3.7 KW
CRUSHED COAL	(-)20 mm	1800 TPH	1900 TPH	2 WAY CHUTE	1400	5.5 KW
COAL	(-)20 mm	400 TPH	500 TPH	2 WAY CHUTE	1000	1.5/0.75 KW
COAL	(-)250 mm	1600 TPH	1900 TPH	2 WAY CHUTE	1600	7.5 KW
CRUSHED COKE	(-) 15 mm	250 TPH	275 TPH	1 WAY CHUTE	1000	3.7 KW
COKE	(-) 100 mm	350 TPH	385 TPH	2 WAY CHUTE	1200	3.7 KW
IRON ORE	(-) 150 mm	2500 TPH	3000 TPH	2 WAY CHUTE	1500	2 x 3.7 KW
MIDDDDLINGS	(-) 6 mm	400 TPH	480 TPH	2 WAY CHUTE	1000	3.7 KW
COAL	(-) 3 mm	150 TPH	180 TPH	1 WAY CHUTE	650	3.7 KW
CHAR	(-) 6 mm	300 TPH	360 TPH	3 WAY CHUTE	1200	3.7 KW
COAL	(-) 20 mm	1500 TPH	1500 TPH	3 WAY CHUTE	1400	2 x 2.2 KW
COAL	(-) 20 mm	1600 TPH	1760 TPH	3 WAY CHUTE	1400	2 x 2.2 KW
COAL	(-) 50 mm	1650 TPH	1815 TPH	1 WAY CHUTE	1600	2 x 3.7 KW
COAL	(-) 50 mm	1000 TPH	1200 TPH	2 WAY CHUTE	1200	2 x 2.2 KW
COAL	(-) 8 mm	2400 TPH	2880 TPH	2 WAY CHUTE	1600	2 x 5.5 KW
COAL	(-)5 TO (+) 5 mm	1000 TPH	1200 TPH	2 WAY CHUTE	1200	2 x 2.2 KW
COAL	(-)5 TO (+) 5 mm	1000 TPH	1200 TPH	2 WAY CHUTE	1200	2 x 2.2 KW
COAL	(-) 20 mm	1600 TPH	1760 TPH	3 WAY CHUTE	1400	2 x 3.7 KW
COAL	(-) 20 mm	2200 TPH	2420 TPH	3 WAY CHUTE	1600	2 x 5.5 KW
COAL	(-) 100 mm	2300 TPH	2760 TPH	2 WAY CHUTE	1600	1 x 7.5 KW
COAL	(-) 100 mm	2300 TPH	2760 TPH	1 WAY CHUTE	1600	1 x 7.5 KW
COAL	(-) 20 mm	2000 TPH	2200 TPH	3 WAY CHUTE	1600	2 x 5.5 KW
IRON ORE	(-) 10 mm	3500 TPH	3850 TPH	1 WAY CHUTE	1600	2 x 5.5 KW
IRON ORE	(-) 10 mm	3500 TPH	3850 TPH	2 WAY CHUTE	1600	2 x 5.5 KW
COAL	(-) 10 mm	3500 TPH	3850 TPH	2 WAY CHUTE	2000	2 x 5.5 KW
COAL	(-) 10 mm	3500 TPH	3850 TPH	2 WAY CHUTE	2000	2 x 5.5 KW
COAL	(-) 25 mm	1800 TPH	1980 TPH	2 WAY CHUTE	1600	2 x 5.5 KW
SINTER	(+)5mm TO (-)50 mm	1200 TPH	1320 TPH	3 WAY CHUTE	1400	2 x 2.2 KW
COAL	(-) 20 mm	2200 TPH	2420 TPH	3 WAY CHUTE	1600	2 x 5.5 KW
COAL	(-) 13 mm	360 TPH	435 TPH	2 WAY CHUTE	1000	2 x 3.7 KW
COAL	(-) 13 mm	600 TPH	720 TPH	2 WAY CHUTE	1200	2 x 3.7 KW
COAL	(-) 20 mm	3300 TPH	3630 TPH	3 WAY CHUTE	2000	2 x 7.5 KW
COAL	(-) 13 mm	900 TPH	1000 TPH	2 WAY CHUTE	1200	3.7 KW
IRON	85 mm	1920 TPH	2130 TPH	2 WAY CHUTE	1200	2 X 7.5 KW
IRON	340 mm	2100 TPH	2325 TPH	2 WAY CHUTE	1400	2 X 7.5 KW



FRONT VIEW OF A TRAVELLING TRIPPER



SIDE VIEW OF A TRAVELLING TRIPPER

HEAD OFFICE & WORKS

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