30 YEARS
IN HYDRAULICS

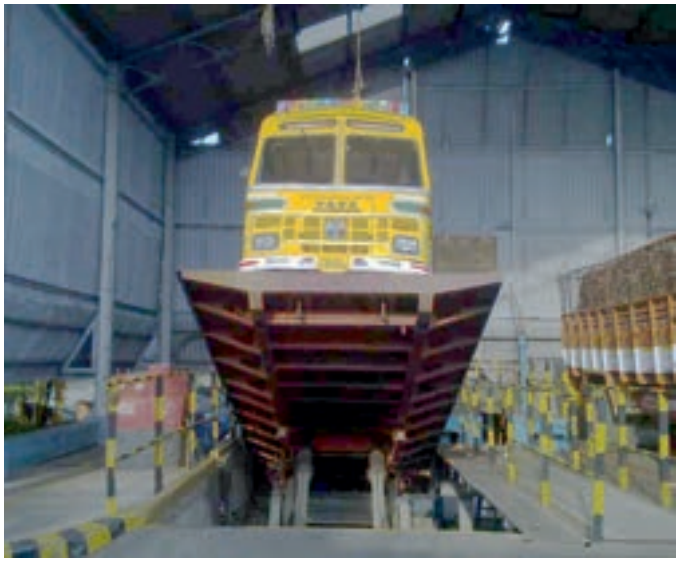
ISHA
ENGINEERING & Co
(Since 1992)

HYDRAULIC TRUCK TIPPLER

Introduction :

A truck tippler is used to handle freely-flowing raw materials. It finds frequent applications in unloading the below-mentioned materials:

- Coal in thermal power plants.
- Iron ore in steel plants.
- Gypsum, limestone, clinker, fly ash, etc. in cement plants.
- Sand and quartz in the glass industry.
- Food grains, wheat, corn, etc. in the agricultural industry.
- Palm kernel unloading.



PIT MOUNTED TRUCK TIPPLER

REVOLVING TYPE TRUCK TIPPLER

FLOOR MOUNTED TRUCK TIPPLER

The Working Philosophy :

- Initially, the platform is in a horizontal position. The truck or trailer to be unloaded is driven backward through a ramp (if necessary) onto a platform, and the rear wheels of the truck get support from the resting pads of the back stopper.

- During this rear movement of the truck or trailer, the retractable back stopper is retracted downwards so that the rear lights and number plates are not damaged.

- Once the rear wheels of the truck or trailer touch the lower part of the back stopper, the retractable back stoppers are hydraulically raised to support the rear wheels. The back stopper is fitted with suitable rubber pads so that truck tires are not damaged.

- After this, front anchoring chains are harnessed to the front axle using hooks attached to the locking chains. Then the front hooking cylinder, to which the locking chains are attached, is extended to take hold of the front axle.

- Now the truck is ready to be tilted backwardup to 55 degrees by means of lifting cylinders actuated through push buttons from the control panel. Material starts falling on the hopper at the rear end from a tilting angle of 30 to 55 degrees till the truck or trailer is completely emptied into the hopper.

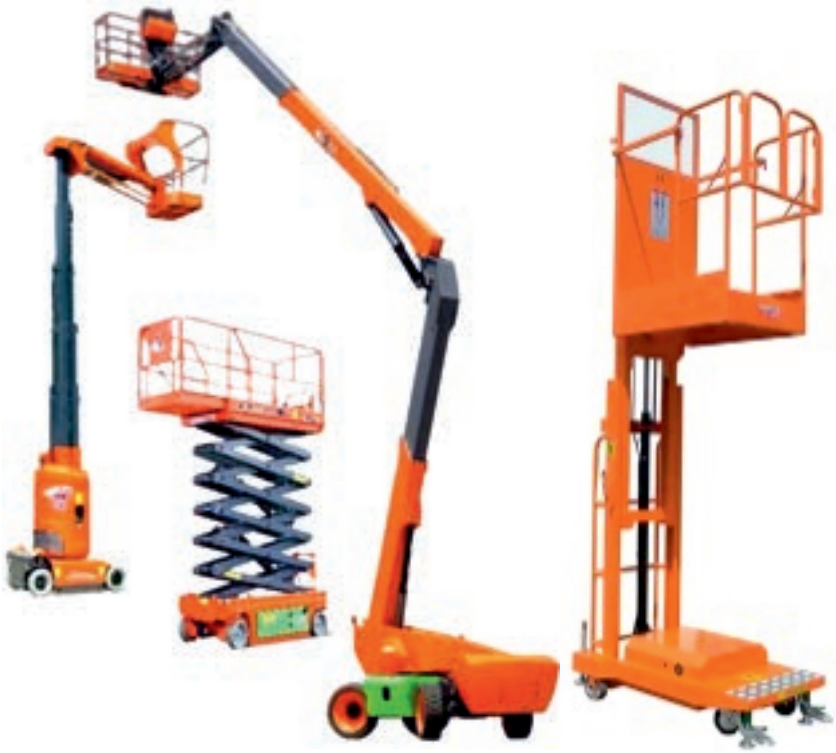
- After unloading to the hopper another push button is operated for lowering the platform back to the horizontal position. The hook chains are slackening by means of push buttons actuating the hook cylinders and front anchoring chains are detached from the front axles.

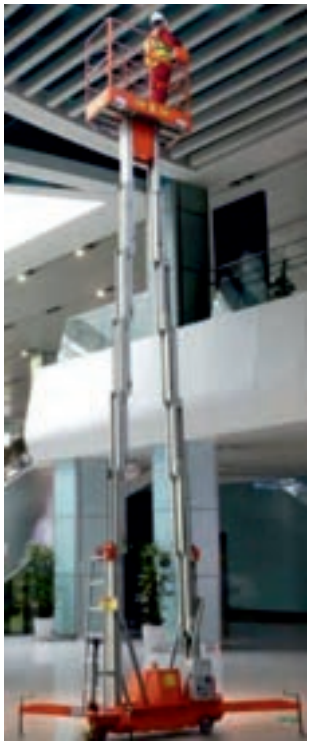
- The retractable back stopper is lowered by means of push button from the same control panel and empty truck is ready for moving out of the platform.

- The average cycle time for the unloading operation is about 7-8 minutes.

SPECIFICATION FOR HYDRAULIC TRUCK TIPPLER

S.No.	Description	40 TON	60 TON	100 TON
1	Model	ISTT4185	ISTT60	ISTT100
2	Type	Hydraulic	Hydraulic	Hydraulic
3	Platform Size	9000 x 3200 mm	9000 x 3200 mm/ 11000 x 3200 mm	16230 x 3200 mm
4	Type of trucks handled	6/10/12 Wheeler trucks	6/10/12/14 Wheeler trucks & 14/ 18Wheeler trailer	6/10/12/14/18 & 22 Wheeler truck
5	Max. Angle tilt	55 deg	55 deg	55 deg
6	Operation cycle time	6-8 minutes (Approx.)	6-8 minutes (Approx.)	6-8 minutes (Approx.)
7	Top surface	chequered plate	chequered plate	chequered plate
8	No. of tipping	7 per hour	7-10 per hour	7-8 per hour
9	Oil Tank Capacity	200 Litres	200-400 Litres	600 Litres
10	Hydraulic Oil Grade	Servo System 68	Servo System 68	Servo System 68
11	No. of Cylinder	2 Nos.	2 Nos.	2 Nos.
12	Hooking Cylinder	2 Nos.	2 Nos.	4 Nos.
13	Back Stopper cylinder	2 Nos.	2 Nos.	2 Nos.
14	Hydraulic pump capacity	60 Lpm	60-100 Lpm	100 Lpm
15	Reservoir Capacity	200-400 Litres	400-600 Litres	600 Litres
16	Operating Pressure	120 Bar	120 Bar	175 Bar
17	Design Pressure	180 Bar	180 Bar	250 Bar
18	Control System	Push button control	Push button control	Double solenoid DC Valve with push button control
19	Gross Weight	6-7 ton (Approx.)	8-10 ton (Approx.)	15 ton (Approx.)





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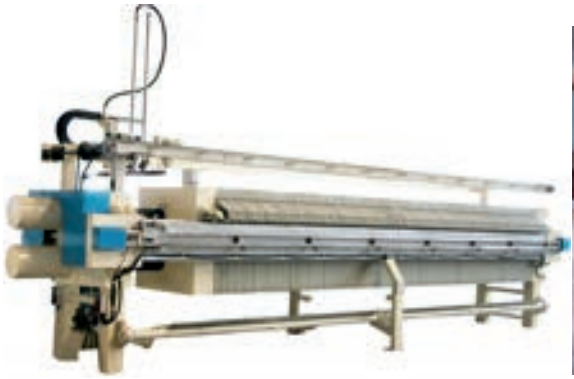
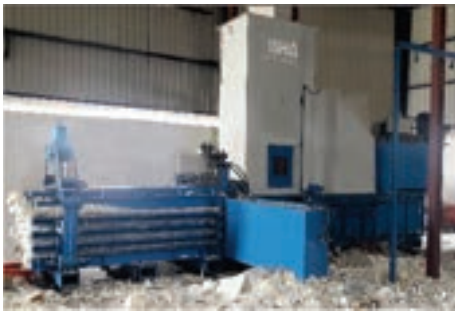
OUR OTHER PRODUCTS



MEMBRANE FILTER PRESS

MOVABLE SCISSOR LIFT
WITH TILTING PLATFORM

VERTICAL
BALING MACHINE



HORIZONTAL
BALING MACHINE

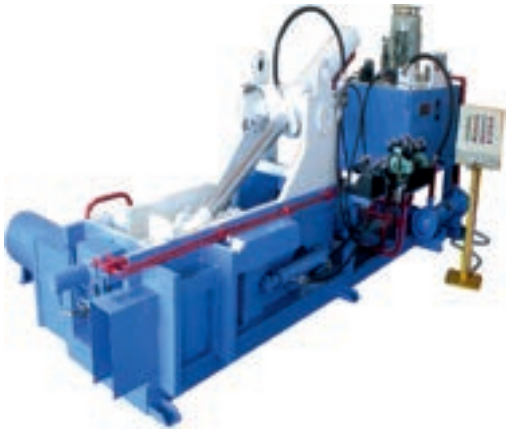
BAGASSE
COMPACTOR

HOME LIFT

TRUCK MOUNTED
SCISSOR LIFT

GOODS LIFT

DOCK LEVELLER



FULLY AUTOMATIC
IRON SCRAP BALING PRESS

TRIMMING PRESS

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