

## SYTECHS MINING TECHNOLOGY



## SYTECHS ST-B HEAVY DUTY CONVEYORS



**HEAVY DUTY  
CONVEYORS**

## SYTECHS HEAVY DUTY CONVEYORS

### FEATURES

The Sytechs heavy duty belt conveyors are designed to meet the requirements of various customers/industries. High conveying capacity, simple in structure, trouble free Heavy Duty electric drum and easy maintenance make of the Sytechs heavy duty conveyors the right solution for your mine/quarry. . Through out the years, our conveyors have been widely used in mining, metallurgical and coal transfer . The conveyors can be installed in horizontal or in slope to meet the design of different transfer lines. The conveyors can be supplied standard or heavy duty with Sidewalks and Conveyor Legs (optional).

Capacity Range: **40- 1,620 TPH**

Materials: Granite, marble, basalt, limestone, quartz, pebble, copper ore, iron ore, etc.

A drum motor is a one-component conveyor drive where the motor, gear drive and all moving parts are enclosed inside the drum. The motor and gears operate in a sealed oil bath ensuring proper lubrication and cooling. With no external motor, gear reducer, sprockets, chain or required chain guard, no external component maintenance is required.

Key features include:

#### No Maintenance

Completely sealed design – no wear parts or grease points. Robust sealing system prevents contamination. Only an oil change required after 5,000 hours of operation.

#### Lower Energy Costs

Operate at 96 percent mechanical efficiency resulting in lower operating cost. Energy savings of up to 30 percent compared to conventional exposed-drive conveyors.

#### Operator Safety

No moving parts outside of the conveyor frame. MSHA/OSHA compliant.

#### Construction

Heavy duty bolt-on construction with cast-iron components; withstands greater levels of belt tension and shock loading compared to typical motorized drives.

#### Mechanical Seals

All drum motors in this series are equipped with mechanical seals; preventing abrasive materials from penetrating the seals and bearings of the drive.

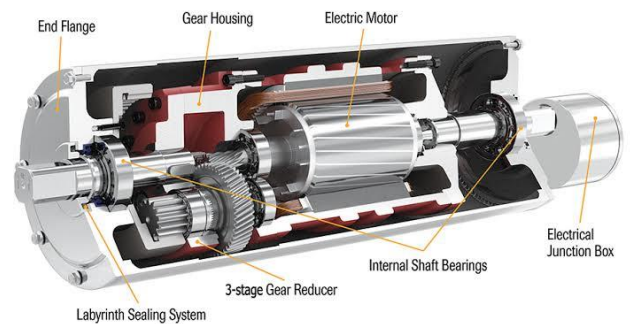
#### Benefits include:

Designed and built for the harshest, most demanding applications.

Mining-grade, advanced sealing system.

Significantly lower operating costs.

Increased operator safety – no belts or chains to guard.



**Electric Drum**





The "Heavy Duty" belt conveyor is commonly used for heavy weight industrial part applications. Additionally this conveyor series is used for assembly, inspection, and case conveying. The fully welded construction of this model produces a solid square frame for most industrial uses.

The table below shows the standard model parameters of our conveyors. In addition to these models, we can also customize new designs according to the specific needs of clients, or manufacture according to the drawings provided by clients to ensure that we always provide them with the best quality, most economical, and most energy-efficient long-distance conveying solutions

MODEL	BELT WIDTH (MM)	LENGTH (MM)	POWER (KW)	LENGTH (MM)	POWER (KW)	LENGTH (MM)	POWER (KW)	BELT SPEED (M/S)	CAPACITY (TPH)
ST-B 400	400	≤ 12	1.5	12 - 20.	2.2	20 - 25.	3	0.8 - 2	40 - 80
ST-B 500	500	≤ 12	3	12 - 20.	4	20 - 30.	5.5	0.8 - 2	78 - 191
ST-B 650	650	≤ 12	4	12 - 20.	5.5	20 - 30.	7.5	0.8 - 2	131 - 323
ST-B 800	800	≤ 6	4	6 - 15.	5.5	15 - 25.	7.5	1 - 2.	278 - 546
ST-B 1000	1000	≤ 10	5.5	10 - 20.	7.5	29 - 25.	11	1 - 2.	435 - 853
ST-B 1200	1200	≤ 10	7.5	10 - 20.	11	20 - 25.	15	1 - 2.	655 - 1,284



For more complete information on Sytechs products, dealer services, and industry solutions, please contact [sales@sytechs-minerals.com](mailto:sales@sytechs-minerals.com)  
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**ISO 9001  
QUALITY SYSTEM  
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