



# CONVEYOR BELT VULCANIZER

HYDRAULIC PRESSURE **ROBUST**  
PORTABLE **EASY TO HANDLE**  
**COMBINATION PLATENS**

SUITABLE FOR  
FABRIC REINFORCED  
STEEL CORD  
CROSS RIGID CONVEYOR BELTS



Synergy's Belt Vulcanizer plant at Kalyani, near Kolkata International Airport

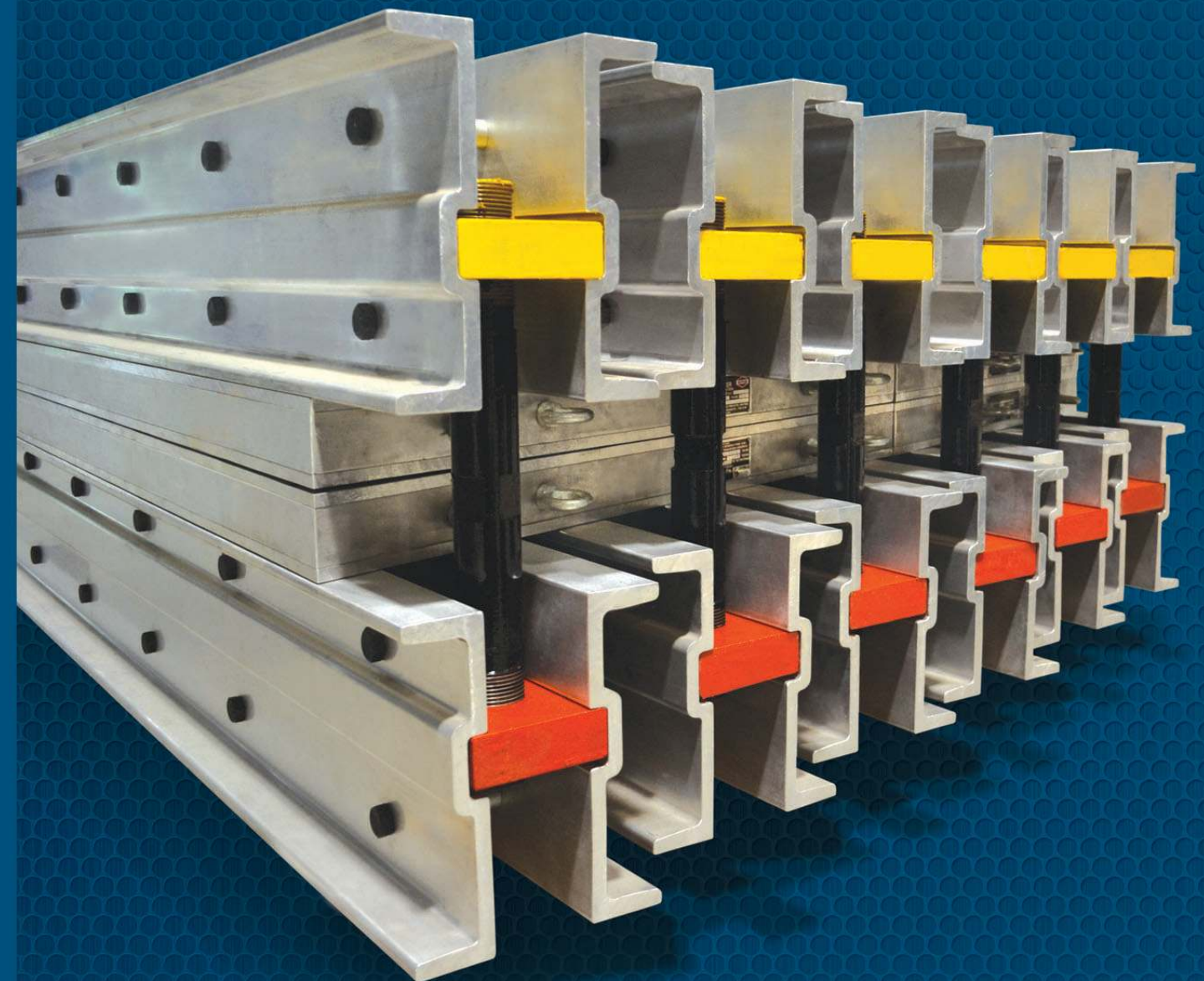
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# CONVEYOR BELT VULCANIZER

**FORTIFYING THE SPLICE**



# WELCOME TO SYNERGY

Synergy is an engineering company focused on TOTAL BELT MANAGEMENT and provides tailor-made engineering solutions and technical support for specialized conveyor systems in Mining and Material Handling sector. Long years of Marketing Association with Phoenix & Contitech of Germany sharpened the engineering skills in devising its product portfolio and work ethics.

Synergy's portfolio of engineered products includes Portable Belt Vulcanizing Machine, Belt Changing Device and Conveyor Accessories such as Chain Scraper, Belt Scrapers, Skirt Sealing System and Impact Pad.

Synergy's tailor-made products & services, widely known for top class offering, are preferred by global companies such as FLSmidth, Takraf-Tenova, Thyssenkrupp, Tecpro Systems, Larsen & Toubro, McNally Bharat, Tata Steel, Tata Robins Fraser, Elecon Engineering to name a few.



## CONVEYOR BELT VULCANIZER

A major product from Synergy portfolio, **Portable Belt Vulcanizer** emanated from a brand **DATTAR**, which is popular in India for last forty years. With the passage of time, the engineering practices and component selection have been synchronized to suit the **International market**. Thus Synergy manufactures the vulcanizing press suitable for any type of Conveyor Belt such as Steel Cord belt, Pipe conveyor belt, Steep Angle Belt and general fabric belt.

### VULCANIZER CONSTITUTES....

#### HEATING PLATEN

Platens are made of Aluminium Alloy plate of international quality. Specially designed tubular heating elements ensure rapid & uniform heating. Platens are available in rhomboid & rectangular designs suitable for all types of conveyor belt and all possible splicing geometry. Platens are suitable for power supply ranging from 380 V to 415 V, AC, 3Ph with and without neutral.

#### PRESSURE SYSTEMS

**Hydraulic Model-WH-** Pressure exerted by inter-connected hydraulic cylinders fitted in top pressure frame by means of manual pump/power-pack. Hydraulic system ensures uniform pressure distribution on the splice area, thereby enhancing joint life.



**Mechanical Model-W-** Pressure exerted by mechanical screw & pressure shoe by means of torque wrench. This works well for fabric belts with lower belt ratings.

### TEMPERATURE CONTROL SYSTEM

Enclosures, sourced from globally renowned sources and confirming to American, European & CE standards, are used to manufacture Control Panels. User friendly panels fitted with modern safety features like ELCB & MCB, LED indicators, multi-function meters & digital temperature controllers. PT100 Sensors, fitted in platens, precisely control the temperature of the heaters.

- AT-3 - Mini enclosures with digital controllers & LED indicators. Both automatic & manual mode of operation.
- AT-4 - Enclosures with digital controllers, Multi-function meter & LED indicators. Both automatic & manual mode of operation.
- AT-E4 - Enclosures with PLC, Multi-function meter & LED indicators. PC /Laptop inter-phase enabled. Auto archiving of data is optional. Both automatic & manual mode of operation.



### TYPES OF VULCANIZING MACHINES OFFERED :

- Hydraulic Press for Belt widths upto 2400 mm in all conceivable construction
- Manual Pressure Press for Belt widths upto 1200 mm Fabric-reinforced Belt
- Hydraulic Spot Repairing machine
- Hydraulic longitudinal Slit/Edge repair machine with C-Clamps

### ACCESSORIES

Special tools & tackles suitable for Fabric reinforced/ Steel Cord conveyor belts are supplied along with standard equipment.

### RECOMENDED SPLICE LENGTH

EP/NN		STEEL CORD	
BELT TYPE	SPLICE LENGTH (mm)	BELT TYPE	SPLICE LENGTH (mm)
315/3	300	ST 800	600
400/3	400	ST 1000	600
500/3	400	ST1250	650
630/4	600	ST 1600	750
800/4	750	ST 2000	1150
1000/5	1000	ST 2500	1350
1250/5	1000	ST 3150	1650
1600/5	1200	ST 3500	2350
2000/5	1200	ST 4000	2650
2500/5	1400	ST 4500	2800

For determining the splice length of belt not listed in the chart, please refer to us or to the belt manufacturer