



DRIVEN BY POSSIBILITY™

# CASE STUDY



## INSULATION TAPE SLITTING MACHINE DRIVE CONVERSION

### END MARKET INDUSTRY

Packaging

### APPLICATION

Insulation Tape Slitting Machine

### PROBLEM

Ahmedabad based leading manufacturer of adhesive tapes was facing downtime issues from the roller chain drive installed on Insulation Tape Slitting Machine. Productivity was low due to frequent breakdowns caused by the chain jump off. Maintenance cost was high due to frequent requirement of re-tensioning and lubrication of the roller chain. The customer also wanted to explore the possibility of increment in production speed with the change in belt drive..

### SOLUTION

After receiving the request for Risk-Free Survey and Design, Gates team visited the customer and performed an onsite survey to understand the application requirement, the system was upgraded with Gates Poly Chain® Belt Drive System. The upgraded system uses Gates Poly Chain® GT® Carbon™ 1000-8MGT-40 belt and 8MX sprockets and idlers, Poly Chain® GT® Carbon™ belts offer the highest power rating and strength in this segment.

### BENEFIT TO CUSTOMER

Savings on annual cost incurred during the replacement of roller chains. The customer will also save the cost of regular maintenance services like lubrication, re-tensioning and cleaning. Poly Chain belts are near silent during operation and can operate at higher speeds than roller chain.



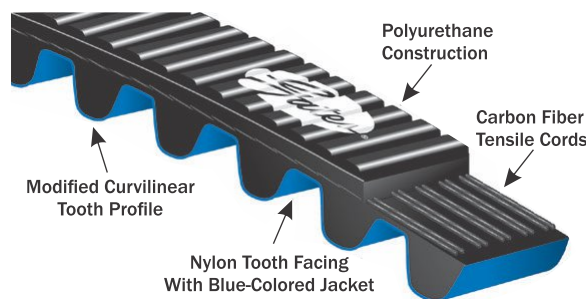
### ORIGINAL DRIVE COMPONENTS

- Chain = #40 Roller Chain
- Sprocket 1 = 18 Teeth
- Sprocket 2 = 26 Teeth
- Sprocket 3 = 26 Teeth
- Idler = 39MM OD

### RE-DESIGNED DRIVE COMPONENTS

- Belt = Poly Chain GT Carbon 8MGT
- Sprocket 1 = 8MX-23S-40
- Sprocket 2 = 8MX-33S-40
- Sprocket 3 = 8MX-33S-40
- Idler = 85MM OD

### Poly Chain® GT® Carbon™



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