



ENERGY

ACHE FIN FAN



MEGADYNE

ACHE FIN FAN

INDUSTRY

ENERGY

APPLICATION

ACHE FIN FAN

PRODUCT

MEGASYNC™

TITANIUM BELT

SITUATION/APPLICATION

The customer was using a PU belt from a competitor for their ACHE Fan systems. These belts were integral to the operation of the fans, which required high durability to handle frequent start/stop cycles. However, the belts needed to be replaced regularly due to excessive wear, impacting both operational efficiency and maintenance costs.

THE PROBLEM

The primary issue the customer faced was that the competitor's PU belts were wearing out prematurely, with teeth falling apart from the belt. This was a direct result of the high shock loads during frequent start/stop activities of the ACHE Fans. Since the ACHE Fans lacked soft starters or inverters to smooth out the start/stop process, the belts endured significant stress, causing them to degrade quickly. This led to frequent maintenance, extended downtime, and increased replacement costs.

MEGADYNE SOLUTION:

MEGASYNC™ TITANIUM

To address this problem, the customer decided to switch to MEGASYNC™ Titanium 2800-TTM14-20 belts. These belts are designed with a soft rubber compound, offering enhanced shock absorption compared to the competitor's PU material. Additionally, the MEGASYNC™ Titanium belts are antistatic, which is crucial for this application, whereas the competitor's PU belts are not antistatic. The flexibility of the MEGASYNC™ Titanium belts made them a more suitable choice for the high-impact, start/stop conditions present in the ACHE Fan systems. The new belts also fit into the existing pulleys (HTD/RPP/PC®), allowing for a straightforward 1:1 replacement without requiring pulley modifications. This ensured minimal disruption to operations.

THE RESULT

After testing the MEGASYNC™ Titanium belt in a successful trial, the customer placed an initial order for 30 units. The positive performance led to another order for 55 more units. The MEGASYNC™ Titanium belts successfully handled the shock loads caused by the start/stop cycles, reducing the wear and tear that had plagued the previous competitor's PU belts. The shorter delivery time of 4 weeks from Megadyne, compared to competitors' 11-12 months, provided an additional advantage. Furthermore, the longer belt life—approximately 2-3 months longer than the competitor's PU belts—allowed the customer to minimize downtime. Additionally, with the technical expertise from our local Megadyne team, they were able to arrive at the customer's location to evaluate the application and offer a value-add recommended solution.



Contact our experts
to find out more