

Case Study



Productivity boost and cost savings
with

Yamada pumps

CLIENT

Cipy Polyurethanes

Pune, Maharashtra, India

A well-known manufacturer and exporter of a range of coatings, sealants, membranes, repair mortars, adhesives and grouts for diverse markets.

Challenges

Cipy used a 2.2 kW screw pump to transfer epoxy from a storage tank to barrels of various capacities. Over time, the pump performance deteriorated – it was taking too long to transfer epoxy and there was also a considerable amount of leakage. The process of filling each barrel took almost 60 minutes and thus only 16 barrels could be filled in a day with the pump operating for two whole shifts, about 16 hours a day. There were also other challenges because of breakdown and maintenance requirements due to wear and tear of parts, mechanical seal replacement, and so on.

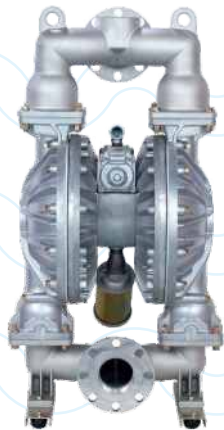
Solution

A.T.E. studied the problems at Cipy and proposed a Yamada air operated double diaphragm pump (AODD). Based on the application requirements, a 1-inch pump was selected.

Results

The epoxy filling time per barrel improved dramatically after the installation of the AODD pump. A barrel could now be filled in under 10 minutes. Cipy could now fill around 96 barrels per day, against the 16 barrels filled earlier!

Additionally, Yamada's AODD pump does not have any coupling or points of leakage, making the operation cleaner and safer. The AODD pump does not have a motor and only operates using compressed air, resulting in significant savings in energy bills.



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Cipy is delighted with the performance of the Yamada AODD pump and they are now considering replacing a few other pumps too!

Cipy saves approximately 77% in energy bill per year with Yamada AODD pump

	Screw pump (2.2 kW rating)	Yamada AODD pump (0.5 kW compressor)
Power consumed/month (16 hr/day working for 26 days)	915.2 (@ 35.2 kW/day)	208 (@ 8 kW/day)
Energy bill per month (@ Rs.7.11/unit)	₹6,507	₹1,479
Saving in energy bill per month		₹5,028
Saving in energy bill per year		₹60,338

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