Syringe manufacturing success case: Syringe Manufacturing and Production efficiency improved along with energy and cost savings with help of Atlas Copco

*Accidental needle sticks present healthcare workers and also the public at large with the potential dangers of infections, illness, and even death.*

The pharmaceutical company has to rely on stable, dry and oil-free compressed gas in its processes. Compressed air is used in syringe production as well as for syringe filling, and thus must meet especially high requirements. The production of products associated with pharmaceutical industry without constant compressed air supply is barely conceivable. The medium compressed air is used at many points within the manufacturing and production processes of syringe, for example, **injection moulding, needle assembly, cleaning plants and containers, transporting components or at packaging systems.** For these reasons, production companies within the pharmaceutical industry pay special attention to the medium compressed air in their quality management.

Almost all companies prefer manufacturing operation that's highly automated with many processes looking forward to compressed air. When parts are moving from one place to another or down the production line, the movement is powered by compressed air. One of the example is needle retractor springs. Compressed air pushes the finished springs through a pressure tube to the location where they're fed into the needle guard body during assembly. For the operations like these Atlas Copco’s oil-free compressed air solutions are the best and preferred by many companies. Atlas Copco has developed new technologies for **zero loss drying and storing** of compressed air. Together with the most effective working features the products also ensure energy savings.

Atlas Copco’s air compressor also plays vital role in injection moulding. Compressed air is used to pressurize the Die of outer case of a Syringe full of melted medical class plastic, so that it can take proper shape required. Atlas Copco's **ZT90VSD-FF** features Variable Speed Drive (VSD) technology, which precisely matches the production of compressed air to the demand. Atlas Copco provide solutions having **great operating efficiency** with **cost** and **energy savings.**