

PTK Tablet Presses



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Why have some of the largest pharmaceutical companies in the world decided to purchase PTK Tablet Presses?

SUREPHARM SERVICES – TABLET CONTRACT MANUFACTURER

“The machines low cost in reference to the speed, technology and reliability made this the most viable press for Surepharm. Not only increasing capacity, shorter batch times mean quicker lead times for our customers”.

“We have put 5 of our more challenging products on the PTK press to date, the reduced batch times of typically 50% have meant more output, week on week we are breaking our output records”

CASE STUDY

Surepharm Services is a 'One Stop' contract tablet manufacturer which holds a Manufacturing and Assembly Licence issued by the **Medicines & Healthcare Products Regulatory Agency (MHRA)**.

Surepharm Services purchased a Pharm Tech Korea (PTK) PR2000 Fully Automated High Speed Tablet Press in November 2008 from Casburt TMS Ltd. From installation the machine has made an instant impact on Surepharm's production capacity in line with their growing order book.



KEY POINTS

- A quicker return on investment (ROI) has been one of the top reasons
- Installations of PTK Tablet Presses in the field have shown world class uptimes
- Performance levels that match/exceed that of well known presses such as Korsch or Fette
- Ergonomically designed
- Interchangeable turret technology and a patented turret fixing method ensure substantially shorter changeovers

Steve Wood, Surepharm's Production Services Manager states,

“Our proposed installation of the PTK Press was on the 1st floor with minimal access via a lift. The Casburt engineers over came the location issue to carry out a smooth installation of the PTK Press in a short time frame. Over all the service and support of Casburt TMS has been exceptional.”

“The machines low cost, in reference to the speed, technology and reliability made this the most viable press for Surepharm. Not only increasing capacity shorter batch times mean quicker lead times for our customers.”

PTK's PIScon software is an added benefit by allowing Surepharm to learn more about their products compression characteristics which will also lead to refinement of downstream processes giving greater efficiencies and in house knowledge. Andrew Ingley, Surepharm's Production Manager commented,

"We have put 5 of our more challenging products on the PTK press to date, the reduced batch times of typically 50% have meant more output, week on week we break records for weekly output. The machine is incredibly operator friendly and our team are keen to keep trying new products and reach previously unimaginable outputs."

Steve Wood added,

"An unforeseen benefit has been that site labour costs and energy costs are reduced due to the increased speed and efficiency."

Surepharm are now upgrading their up and down stream capacities to facilitate more PTK presses in the very near future.

PRODUCT

Ibuprofen 400mg Caplet.

The collaboration of Casburt TMS, PTK and Natoli Engineering have solved all compression issues for Surepharm's Ibuprofen products, widely accepted as a difficult product to manufacture requiring expert handling.

Previous Experience

Machine = GMP 2000

Tooling type =EU D Type

Number of Stations = 20.

Batch running Time = 24 hours.

Batch to batch Changeover time = 3 hours.

Output Speed = 20,833 tablets per hour.

Output per station = 1,041 tablets per hour.

Comments using old machines:

- Tight lower punches.
- Sticking to tip face so each batch needed tooling cleaning.
- Weaknesses in tablet structure leading to lamination.
- Twinning of tablets during coating.

Experience with PTK Press

Machine = PTK PR2000

Tooling type =EU D Type

Number of Stations = 29.

Batch running Time = 7 hours.

Batch to batch Changeover time = 0.5 hours.

Output Speed = 69,600 tablets per hour.

Output per station = 2,400 tablets per hour.

Comments:

- The extra 9 stations are not the only benefit. The compression characteristics of the press and cool running temperatures mean **the output per station is increased by 230% directly equating to the Press design being 230% more efficient.**
- Sticking is eliminated by equalising compression force loading of the upper and lower punch. Improving product quality and batch to batch changeover times.
- Implementing more pre-compression and the large roll size of both compression stations gives the required dwell time to give a more cohesive tablet.
- A minor modification to peripheral tablet shape eliminated twinning during coating.



European Network

Casburt TMS Ltd. Install and support PTK under the division of PTK Europe. All our engineers are professionally trained and have successfully carried out trials, installations and successful product runs into many companies globally.

PTK also manufacture automatic coating systems, capsule filling machines and associated ancillary equipment.

PTK also supply the following: -

Film & Sugar Coating Machines / High Speed Mixing Machines / Capsule Filling Machines.

For more information on PTK Tablet Presses

please visit our website at www.ptk-europe.com or ring +44 (0)1782 332511.

or Pharm Tech Korea website at: www.pharmtechkorea.com