KORSCH

XT 600

HIGH-SPEED, DOUBLE ROTARY PRESS

XT 600

Superior Performance, Reliable, and Built for High-Volume Production

The XT 600 has been designed to provide maximum efficiency in a 24/7 production environment for both single- and bi-layer capabilities. Offering a 60 kN or 100 kN for both pre and main compression capability, a maximum press speed of 100 rpm, and an extended feeder length, the XT 600 is geared for high-speed production, with a maximum output of more than 1,000,000 tablets per hour. The exchangeable turret allows tablet formats to be changed quickly, ensuring maximum output and machine uptime.

Intuitive Controls with Smart-Touch HMI

The state-of-the-art control system offers an intuitive interface, supported by comprehensive on-board help and numerous multi-media support files for operation, maintenance, and troubleshooting procedures.

At its core, a fully integrated SIEMENS control system merges PLC and motion controls in a single platform. Its open architecture, which allows unrestricted data access, is key to enabling Industry 4.0. Additionally, it provides extensive diagnostic support - including remote access.

PharmaControl® – Press Force Control System

The XT 600 uses the proven PharmaControl® press force control system to monitor individual compression forces and to provide precise tablet weight control. The Smart-Touch HMI displays average and single forces on each punch station in real time.

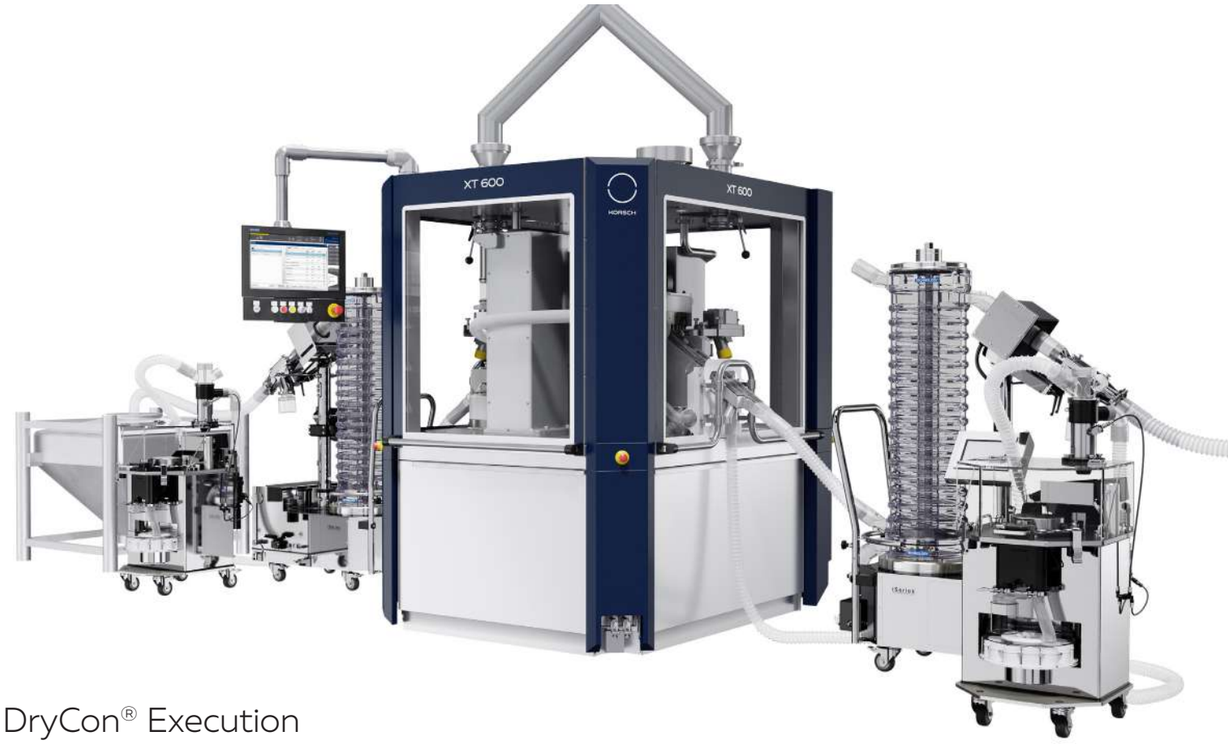
The optional single-tablet rejection system will reliably reject an individual tablet from a known punch station across the full speed range and build a reject log which may be viewed in real time and included in the electronic batch report.

Low Noise and Vibration due to Patented Design

The combination of compression roller stations and an isolated carrier plate eliminates all vibrations from the headpiece and the machine base. As a result, noise emissions are reduced to below 80 dB(A), and no vibrations are transmitted to individual machine components or to the floor.

Containment Solutions

As a system provider KORSCH offers customized, fully integrated containment solutions, including related peripherals and make/break connections, with centralized negative pressure control and dust collection system. KORSCH coordinates all utility interfaces, including but not limited to integration with centralized dust collection systems, supply water, and waste drain connection.



DryCon® Execution

- OEB 3/4
- Ergonomic placement of glove ports and RTP permits contained access to the compression zone
- Negative pressure control and integrated vacuum wand for dry cleaning
- KORSCH misting allows the bonding of surface dust with purified water
- Eliminates requirements for PPE in production
- Formal SMEPAC testing for containment level certification

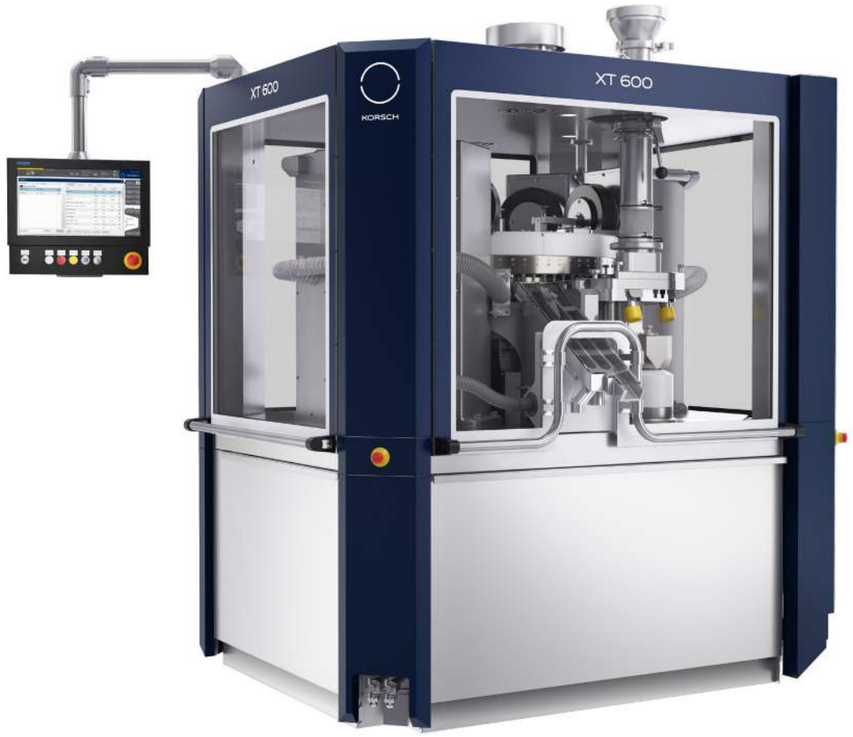
Contamination free machine base and multi-function column

Clean and transparent design concept

Optimal access for cleaning

Flexible machine layout

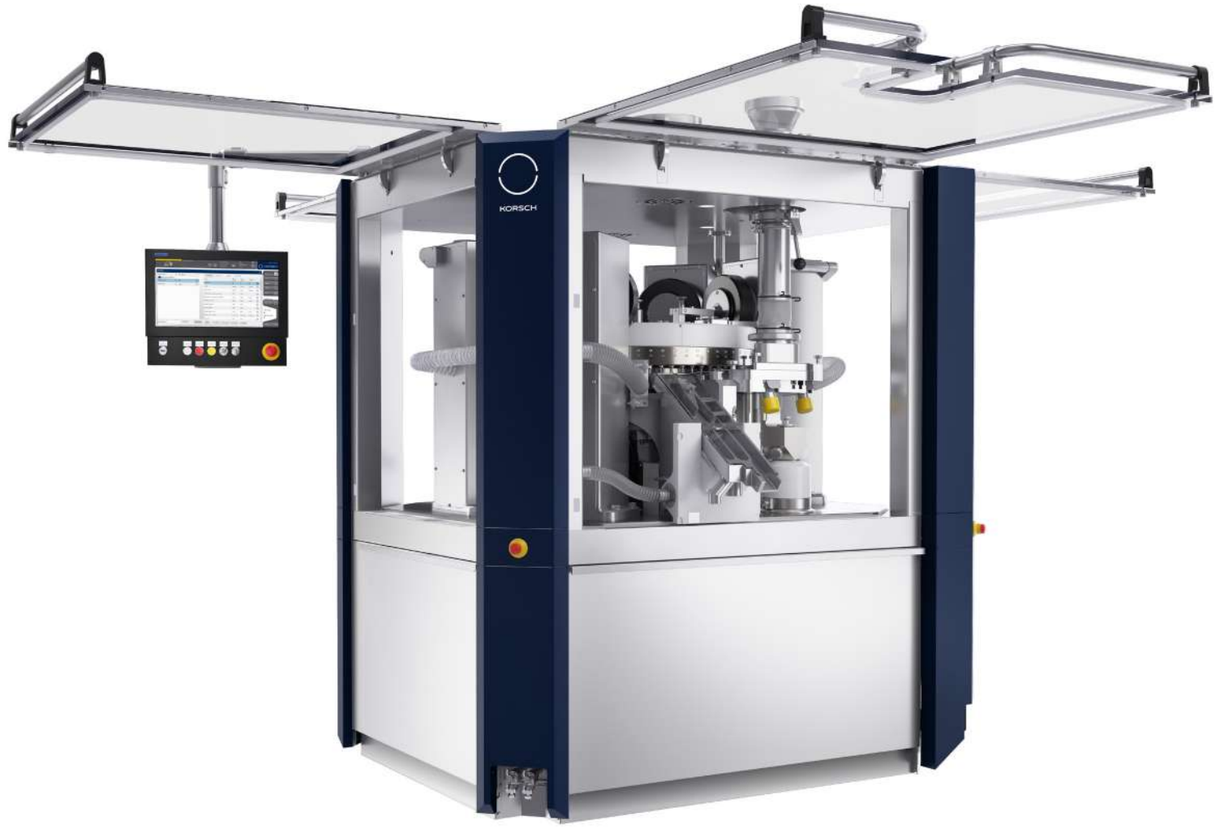
Double-Sided Rotary Press for High Output Production



The XT 600 combines key features from proven KORSCH technology in a robust, modular, and cost-efficient design. The maximum output of 1,380,000 single-layer tablets per hour (as double-sided rotary press) sets new standards when producing large batches and makes the XT 600 the ideal solution for fully automated high-volume production. It features a large feeder for extended filling dwell time which permits precision tablet weight control at the highest machine speeds. Optional dwell bars between the pre and main compression rollers extend the compression dwell time, enhancing tablet hardness for products that are sensitive to dwell time.

- Superior performance and reliability
- Long feeder filling length
- Optional dwell bars
- Robust compression column design

Bi-Layer Conversion Capability



The XT 600 has the flexibility to produce both single- and bi-layer tablets with a maximum output of 1,380,000 single-layer and 414,000 bi-layer tablets per hour. A bi-layer conversion kit can be adapted to the machine at any time, which includes the components to ensure individual layer weight control, first-layer sampling, and absolute separation of product layers.

- Industry 4.0 ready
- Open software architecture
- Dies or segments
- Cost and space efficient

Technical Data XT 600

Description		Turret with Dies			
Punch Stations	Number	85	77	65	53
Tooling	EU/TSM	2/2	2/2	2/2	2/2
Main Compression Force	kN	BBS	BB	B	D
Precompression Force	kN	60/100	60/100	60/100	60/100
Tamping Force	kN	60/100	60/100	60/100	60/100
Max. Tablet Diameter	mm	30	30	30	30
Max. Filling Depth, 1st Layer	mm	11	13	16	25
Max. Filling Depth, 2nd Layer	mm	18	18	18	22
Turret Speed, Single-Layer	rpm	10 - 100	10 - 100	10 - 100	10 - 80
Turret Speed, Bi-Layer	rpm	10 - 60	10 - 60	10 - 60	10 - 60
Max. Tablet Output, Single-Layer	tabs./h	1,020,000	924,000	780,000	508,800
Max. Tablet Output, Bi-Layer	tabs./h	306,000	277,200	234,000	190,800
Pitch Circle Diameter	mm	740	740	740	740
Max. Tablet Thickness	mm	8.5	8.5	8.5	8.5
Machine Net Weight	kg	6,500	6,500	6,500	6,500
Machine Dimensions	L x W x H	1,890 x 1,590 x 2,000 mm identical for all versions			
Total Connected Electrical Load	kVA	35	35	35	35
Average Power Consumption	kW	12 - 22	12 - 22	12 - 22	12 - 22

Description		Turret with Segments		
Punch Stations	Number	115	85	65
Tooling	EU/TSM	2/2	2/2	2/2
Main Compression Force	kN	D12	B	D
Precompression Force	kN	60/100	60/100	60/100
Tamping Force	kN	60/100	60/100	60/100
Max. Tablet Diameter	mm	30	30	30
Max. Filling Depth, 1st Layer	mm	11	16	25
Max. Filling Depth, 2nd Layer	mm	18	18	22
Turret Speed, Single-Layer	rpm	10 - 100	10 - 100	10 - 80
Turret Speed, Bi-Layer	rpm	10 - 60	10 - 60	10 - 60
Max. Tablet Output, Single-Layer	tabs./h	1,380,000	1,020,000	624,000
Max. Tablet Output, Bi-Layer	tabs./h	414,000	306,000	234,000
Pitch Circle Diameter	mm	740	740	740
Max. Tablet Thickness	mm	8.5	8.5	8.5
Machine Net Weight	kg	6,500	6,500	6,500
Machine Dimensions	L x W x H	1,890 x 1,590 x 2,000 mm identical for all versions		
Total Connected Electrical Load	kVA	35	35	35
Average Power Consumption	kW	12 - 22	12 - 22	12 - 22

Technical modifications reserved

KORSCH tablet presses meet all fundamental requirements of the Machinery, ATEX, EMC, and Ecodesign Directives, as well as current GMP and FDA regulations. KORSCH tablet presses are delivered with CE marking and comply with the requirements of 21 CFR Part 11.

Peripheral equipment belonging to the machine also complies with these regulations.

The technical specifications included in this document represent optimal parameters and are dependent on product quality and machine settings. The maximum compression force varies in relation to tablet/punch size, and output; the maximum output in relation to material, tablet/punch size, and compression force. The average electrical power consumption depends on the production parameters.

KORSCH

Focused on Tablets, Driven by Innovation

Specialization makes the difference: For over 100 years, we have focused on what we love and do best: tableting!

Experience is key: Thousands of successfully completed projects form the foundation of the largest and most innovative product portfolio in the industry.

We offer the perfect solution and expertise for a wide range of requirements: from special presses for R&D, to rotary presses for scale-up operations and medium batch production, all the way to high-performance presses for 24/7 operation.

Our tablet presses are successfully in use worldwide every day, supported by a global team of specialists in service, process optimization, and sales.

www.korsch.com

KORSCH Global Service Network

Europe Near East Africa	Phone: +49 30 43576-300 service@korsch.de
America	Phone: +1-800-KORSCH-1 service@korschamerica.com
Eastern Asia South-East Asia	Phone: +49 30 43576-300 service@korsch.de
Southern Asia	Phone: +91 98 19004298 service@korschindia.com