

# XM 12

Certified Pre-Owned Tablet Press  
Serial Number K1530061



**KORSCH**  
The Specialist.

## 1. Tablet Press Description

### 1.1 General Description

Certified Pre-Owned KORSCH XM 12 Tablet Press, manufactured in 2017 and fully refurbished in 2021. The XM 12 is a small-scale tablet press which is ideal for single and bi-layer tablet development, clinical production, and mid-range production.

### 1.2 Key Features

- Single and Bi-Layer Execution
- 16-Station, TSM B Turret
- 18-Station, TSM D Turret
- Exchangeable Turret Capability
- Keyways in Upper Turret
- GMP Compression Zone
- Multi-Function Column (MFC)
- 40 kN Precompression Capability
- 80 kN Main Compression Capability
- Variable Speed, Zero Clearance Feeder
- Central Machine Control Diagnostic System
- Composite Cam Track Design
- Frequency Drive on Main Motor
- 3-Channel Discharge Chute
- 3-Zone Central Lubrication System
- Additional Lubrication Zone at Ejection Cam
- Full Set of Fill Cams (10 mm, 14 mm, 18 mm)
- Windows 10 Platform
- Allen-Bradley ControlLogix PLC Platform



  
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- HMI Touch Screen
- Password Login
- Product Recipe
- Event Log
- Alarm and Alarm History
- Fully Compliant with 21 CFR Part 11

## **2. Press Force Control**

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- Display of Average Force - Precompression
- Display of Average Force - Main Compression
- Display of Single Forces by Punch Station - Precompression
- Display of Single Forces by Punch Station - Main Compression
- Feedback to Dosing Cam for Tablet Weight Control
- Display of Standard Deviation of Main Compression Force
- Entry of Press Force Limits - Precompression
- Entry of Press Force Limits - Main Compression
- Press Force Trending and Storage for Batch Report
- Full Functionality with Reduced Tools Configuration

## **3. Single Tablet Rejection:**

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- Rejects an Individual Tablet at All Press Speeds
- Records and Displays Punch Station as Tablets are Rejected
- Entry of Maximum Rejects from a Single Punch Station
- Entry of Maximum Rejects from All Punch Stations
- Reject Set-Up Parameters Stored in Product Recipe
- Reject Log Report

## **4. Data Acquisition System**

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- Real-Time Display of Tamping Force Waveform
- Real-Time Display of Precompression Force Waveform
- Real-Time Display of Main Compression Force Waveform
- Real-Time Display of Ejection Force Waveform
- On-Demand Data Collection and Storage
- Data Analysis Module
  - Press Force Peaks
  - Area Under Compression Curve
  - Rate of Force Application
  - Rate of Force Decay
  - Contact Time
- Overlay Technology
- Conversion and Export of Data to Excel File for Subsequent Analysis

## 5. Machine Specifications:

| Punch Stations                   | 16                    | 18                    |
|----------------------------------|-----------------------|-----------------------|
| Press Tools                      | TSM B                 | TSM D                 |
| Main Compression Force           | 80 kN                 | 80 kN                 |
| Precompression Force             | 40 kN                 | 40 kN                 |
| Tamping Force                    | 5 kN                  | 5 kN                  |
| Maximum Tablet Diameter          | 16 mm                 | 25 mm                 |
| Press Speed, Single-Layer        | 10-120 RPM            | 10-80 RPM             |
| Press Speed, Bi-Layer            | 10-60 RPM             | 1-60 RPM              |
| Output (Tabs/Hour), Single-Layer | 115,200               | 57,600                |
| Output (Tabs/Hour), Bi-Layer     | 57,600                | 43,200                |
| Pitch Circle                     | 252 mm                | 252 mm                |
| Maximum Tablet Thickness         | 8 mm                  | 8 mm                  |
| Net Weight                       | 2,400 kg              | 2,400 kg              |
| Main Power Supply                | 480 V, 3 Phase, 60 Hz | 480 V, 3 Phase, 60 Hz |

## 6. Documentation Package:

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- Installation Qualification (IQ)
- Calibration Qualification (CQ)
- Operation Qualification (OQ)
- Operation and Service Manual
- Product Contact Parts Specification
- Lubrication Specification
- Spare Parts List
- Electrical Schematics
- Mechanical Assembly Drawings

## 7. Warranty

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The Certified Pre-Owned KORSCH XM 12 is supported by a limited 12 month warranty.

## 8. Contact

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For more information, please contact:

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