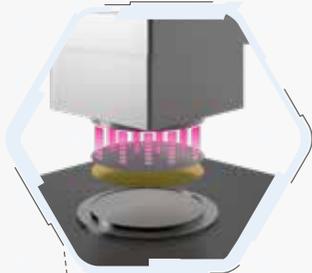
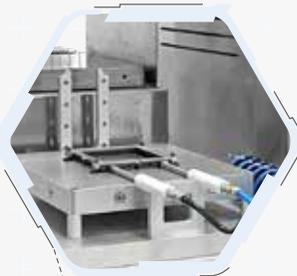
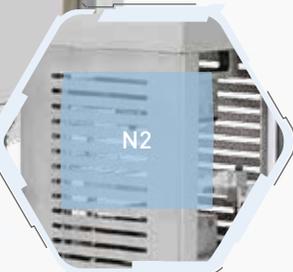


# AMX X-SINTER P50 SERIES

**PRESSURE**  
Uniform Pressure and Quality Control System.



**WAFER PROCESS**  
Wafer to wafer sintering and wafer Lamination.



**INERT ATMOSPHERE**  
N2, Vacuum, forming gas or other on request

**R&D, SEMI AUTO SOLUTIONS**  
P54 - P55

A larger tool allows to pressure sinter dies on single substrate, as entire mastercard or frame. It is possible to modulate the clamping stroke to pressure sinter thicker components like already molded packages on pin-thin heatsink.

P54 and P55 have a wide range of forces and are able to provide best accuracy both with low and high force. Thanks to the wafer level tool it is also possible to process entire wafers up to 12"Ø.

Temperature and pressure profile curves can be easily exported by FTP server or USB.



**EASY TO USE INTERFACE**  
Multi-language interface, traceability of pressure and temperature profiles and USB full data export.



AMX Automatrix srl

**Headquarter**  
Loc. Bolina 1D/1E, 25085 Gavardo (Bs) Italy  
**Registered Office**  
Via Missana 31, 25077 Roè Volciano (Bs) Italy

**VAT No.** 03754630162

**Tel.** +39 0365 1870286 **Fax** +39 0365 1870287  
**Online** amx-automatrix.it



**WORLDWIDE PRESENCE**



AMX Automatrix | All Rights Reserved



## X-SINTER P50 SERIES

POWER ELECTRONIC EQUIPMENT

04/2022 Rev 02 - ENG

## R&D, MANUAL SOLUTIONS P51 - P52 - P53

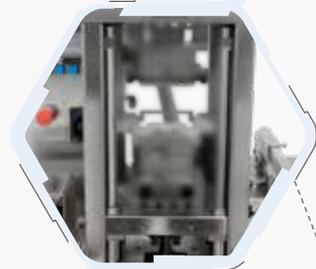
X Sinter P50 Series is a complete range of manual sintering presses suitable for R&D, prototyping and quality inspections.

Designed for Lab and clean room environment, it is the perfect solution for the first approach to the silver or copper sintering process.

X Sinter P50 Series is a completely manual press available in different configurations and able to reach the same sintering pressure and temperature of the inline one.

Key advantages are: high accuracy and reliability.

It is really flexible and has lot of possible options in order to adapt to the specific customer's needs.



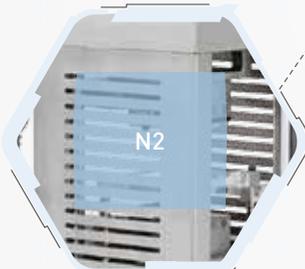
**PRESSURE**  
Uniform Pressure and Quality Control System.



**PROOF-OF-CONCEPT**  
Available for Testing at AMX Plant Facility.



**MANUAL SOLUTION**  
Easy to use for low volume production, trials and R&D operations



**INERT ATMOSPHERE**  
N2, Vacuum, forming gas or other on request

## MANUAL SOLUTIONS

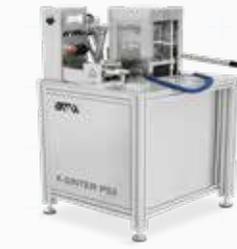
## SEMI AUTO SOLUTIONS



**P51**



**P52**



**P53**



**P54**



**P55**

|                                     |  |  |  |  |  |
|-------------------------------------|--|--|--|--|--|
| <b>SINTERING AREA</b>               | 75 x 75 mm   | 110 x 110 mm   | 140 x 140 mm   | 200 x 200 mm   | 300 x 300 mm   |
| <b>MAX CLAMPING FORCE</b>           | 16 kN  | 39 kN  | 62 kN  | 100 kN   | 100 or 300 kN  |
| <b>MAX SINTERING PRESSURE</b>       | 40 MPa   |
| <b>AMX FORCE SENSOR</b>             | Available: Continous monitoring system for quality control |
| <b>CONTROLLED ATMOSPHERE</b>        | N2, Vacuum, Forming gas other on request                   |
| <b>SINTERING TOOL</b>               | Flat plate customizable with fixture                       |
| <b>WAFER PROCESS</b>                | -  | -  | -  | -  | Wafer lamiantion and Wafer sintering                       |
| <b>MAX TEMP. (BOTH SIDE)</b>        | 350°C  | 350°C  | 350°C  | 350°C  | 350°C  |
| <b>PRE-HEATING AREA</b>             | up to 250°C  |
| <b>POST-COOLING AREA</b>            | Natural cooling  | Natural cooling  | Natural cooling  | Cooling circuit  | Cooling circuit  |
| <b>EXT. THERMOCOUPLE CONNECTION</b> | up to 2  | up to 2  | up to 4  | up to 4  | up to 4  |
| <b>INTERFACE</b>                    | AMX multilanguage easy interface                           | AMX multilanguage easy interface                           | AMX multilanguage easy interface                           | AMX multilanguage easy interface and USB data export       | AMX multilanguage easy interface and USB data export       |
| <b>TRACEABILITY</b>                 | -  | -  | -  | Database, DMC scanner available                            | Database, DMC scanner available                            |
| <b>DIMENSIONS</b>                   | W600 x D650 x H1200 mm                                     | W750 x D800 x H1400 mm                                     | W800 x D900 x H1400 mm                                     | W1000 x D1000 x H1750 mm                                   | W1300 x D1300 x H1750 mm                                   |
| <b>WEIGHT</b>                       | 150 Kg   | 225 Kg   | 450 Kg   | 1290 Kg  | 1590 Kg  |