

This publication supersedes and replaces any previous edition and revision. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without permission of Tecnicam s.r.l. (Bologna - Italy). The technical data, the images and the diagrams are exclusively indicative and not binding, they might be modified without notice.



**CAM** ALWAYS BY YOUR SIDE

# MX

## HIGH SPEED BLISTER PACKAGING MACHINE WITH PLATE SEALING



This publication supersedes and replaces any previous edition and revision. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without permission of Tecnicam s.r.l. (Bologna - Italy). The technical data, the images and the diagrams are exclusively indicative and not binding, they might be modified without notice.



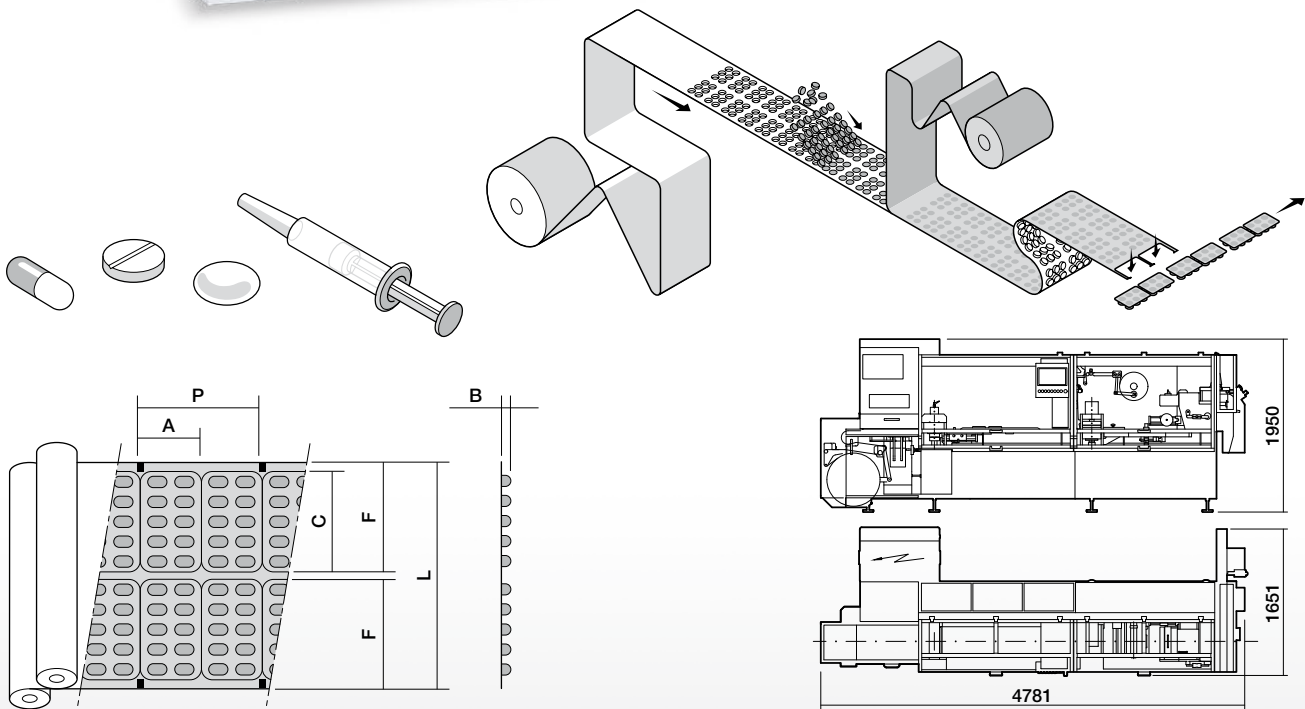
**EASE OF USE,  
VERSATILITY,  
SOLID STRUCTURE  
AND MECHANICAL  
RELIABILITY**

This publication supersedes and replaces any previous edition and revision. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without permission of Tecnicam s.r.l. (Bologna - Italy). The technical data, the images and the diagrams are exclusively indicative and not binding, they might be modified without notice.



# MX

## HIGH SPEED BLISTER PACKAGING MACHINE WITH PLATE SEALING



### TECHNICAL DATA

Production up to	BLISTERS/1'	750*
Mechanical speed	STROKES/1'	16-66*
Power absorption	kW	15
Air consumption	NI/1'	500
Air pressure	bar	6
Net weight	kg	~3300

\*Model version R

**Forming materials** PVC; PVC/PVDC; PVC/ACLAR; PVC/ALU/PA; PVC/ACLAR/PVC; COC;PETG

Production speed may vary depending on product and material

Size range	Min.	Max.
<b>L</b> Web with [mm]	90	286
<b>P</b> Stroke length [mm]	70	180 (204**)
<b>A</b> Blister width [mm]	30	90
<b>B</b> Forming Depth [mm]	3	12
<b>C</b> Blister length [mm]	60	160
<b>F</b> Blister rows across the web	1	3
<b>(N)</b> Blister rows along the pitch	1	4
<b>(G)</b> Number of blisters per cycle	1	12

\*\* Optional upgrade



Designed and constructed in accordance with the requirements of the pharmaceutical industry and in strict compliance with gmp standards, the nmx blister packer has been engineered to guarantee the following characteristics:

- Ease of use and ease of cleaning
- Versatility
- Solid structure and mechanical reliability
- Quality welding in total safety
- Guarantee that only compliant blisters will be released
- Optimization of the Primary area

#### **EASE OF USE AND EASE OF CLEANING**

The path of the web between the forming material reel and the cutting station is as short and linear as possible, thus giving the operator full vision and total control of all the main functions of the machine. The above as well as a careful design study, which has separated the

areas dedicated to the mechanical movements from the areas dedicated to products handling, enable line clearance and machine cleaning upon lot change-over to be carried-out with simplicity and ease in strict compliance with GMP standards. The forming reel change-over is made easier thanks to the presence of a cutting and junction table at the same height as the work surface permitting to pass from a forming material to another one in a few seconds.

The above characteristics and the use of quick release devices also allow unskilled personnel to carry out format change-over operations in extremely short times.

#### **VERSATILITY**

The machine can handle a wide range of forming materials, including PVC, PP, PVC-PVDC, PVC-PE-PVDC, ACLAR, PETG, ALU-PE, ALU-PP, and lidding materials including ALUMINIUM, ALUMINIUM PAPER, ALUMINIUM-PAPER-MYLAR, ALUMINIUM-PE, POLYPROPYLENE.

The operator has the possibility to pass from a forming material to another one by means of very simple operations in extremely short times.

Thanks to a complete range of feeders available, the machine can handle products such as hard or soft gelatine capsules, round and oval sugar coated pills and coated or uncoated tablets of any shape in any different presentation.

### **SOLID STRUCTURE AND MECHANICAL RELIABILITY**

According to the dimensions of the product, the machine can produce up to 12 blisters/stroke (up to 4 along the belt and 3 across).

The web transfer is carried-out by 4 mechanical grippers, the third of which acting directly on the housings, thus granting (with the use of any type of material) a correct positioning of the formed stroke between the sealing station plates.

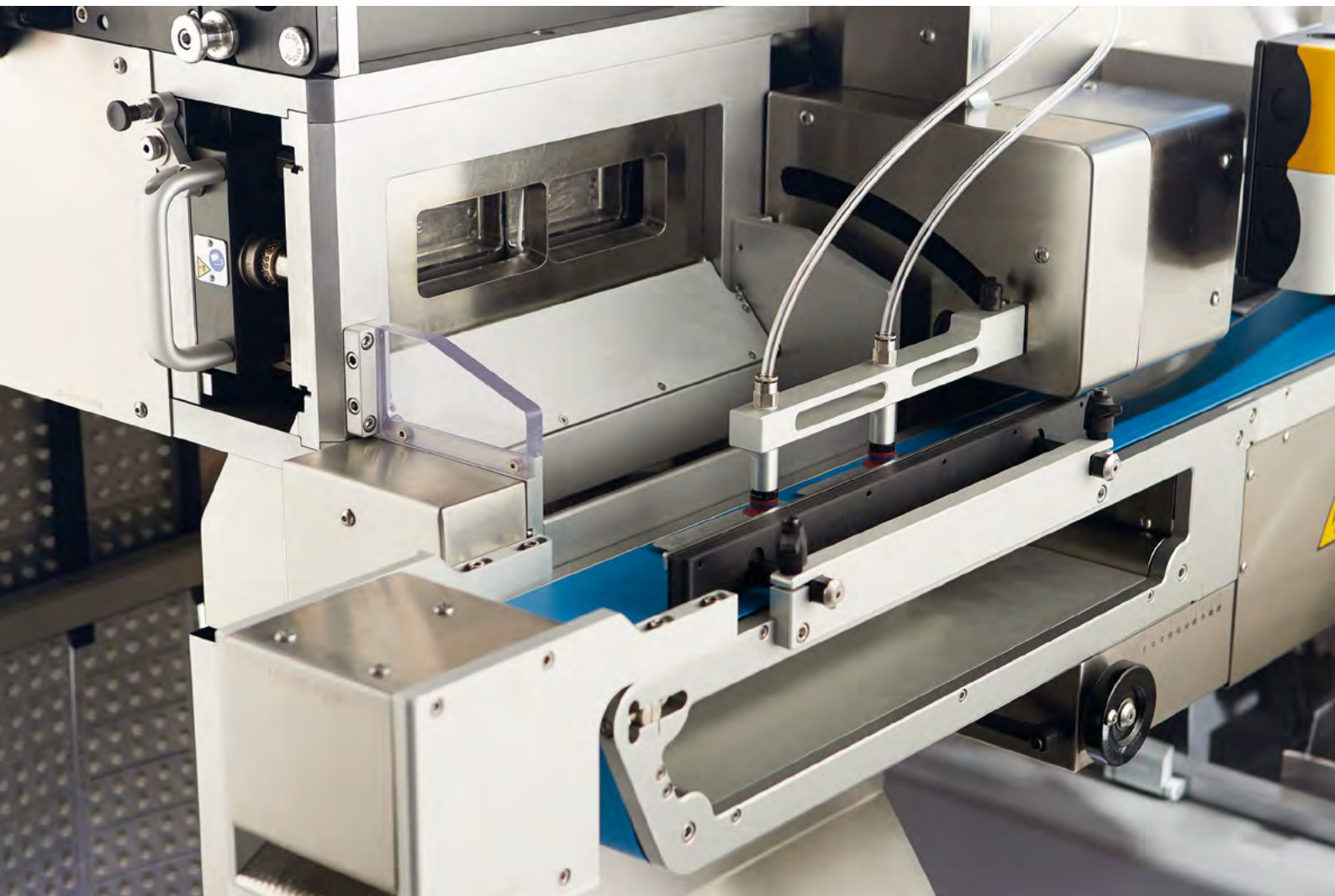
The intermittent motion of the web is generated by a

mechanical crank and slotted link device in conjunction with the motion of the feeders. The relationship between these two movements allows the housings to be loaded even during web stand-by, giving the possibility to feed product (into the housings) during the whole cycle.

Feeding throughout the complete cycle and the possibility to have up to 3 blisters across the web allows to reduce the feeding speed of each single product lane, with obvious advantages in terms of reliability and maximum performance.

### **QUALITY WELDING IN TOTAL SAFETY**

Plate welding ensures a uniform welding pressure over the whole surface. The toggle movement that exerts pressure on the plates allows to obtain very high pressure loads. In addition, **MX** is equipped with a welding safety system that allows to detect the presence of foreign bodies between the welding plates.





## COMPLIANT BLISTERS ONLY

**MX** cutting die deposits only compliant blisters on the outgoing belt; any rejections, incomplete and empty blisters, are expelled before the machine outfeed belt, with the optional possibility of separating the waste into different containers.

This feature permits to easily arrange a blister recovery system if the cartoner stops. In fact, should the cartoner stop for any reason, the blister cutting station would automatically reverse the running direction of the outfeed conveyor belt in order to recover the blisters on a temporary storage system; the blisters thus recovered can be inserted again in the packaging cycle, so that to grant the maximum line efficiency.

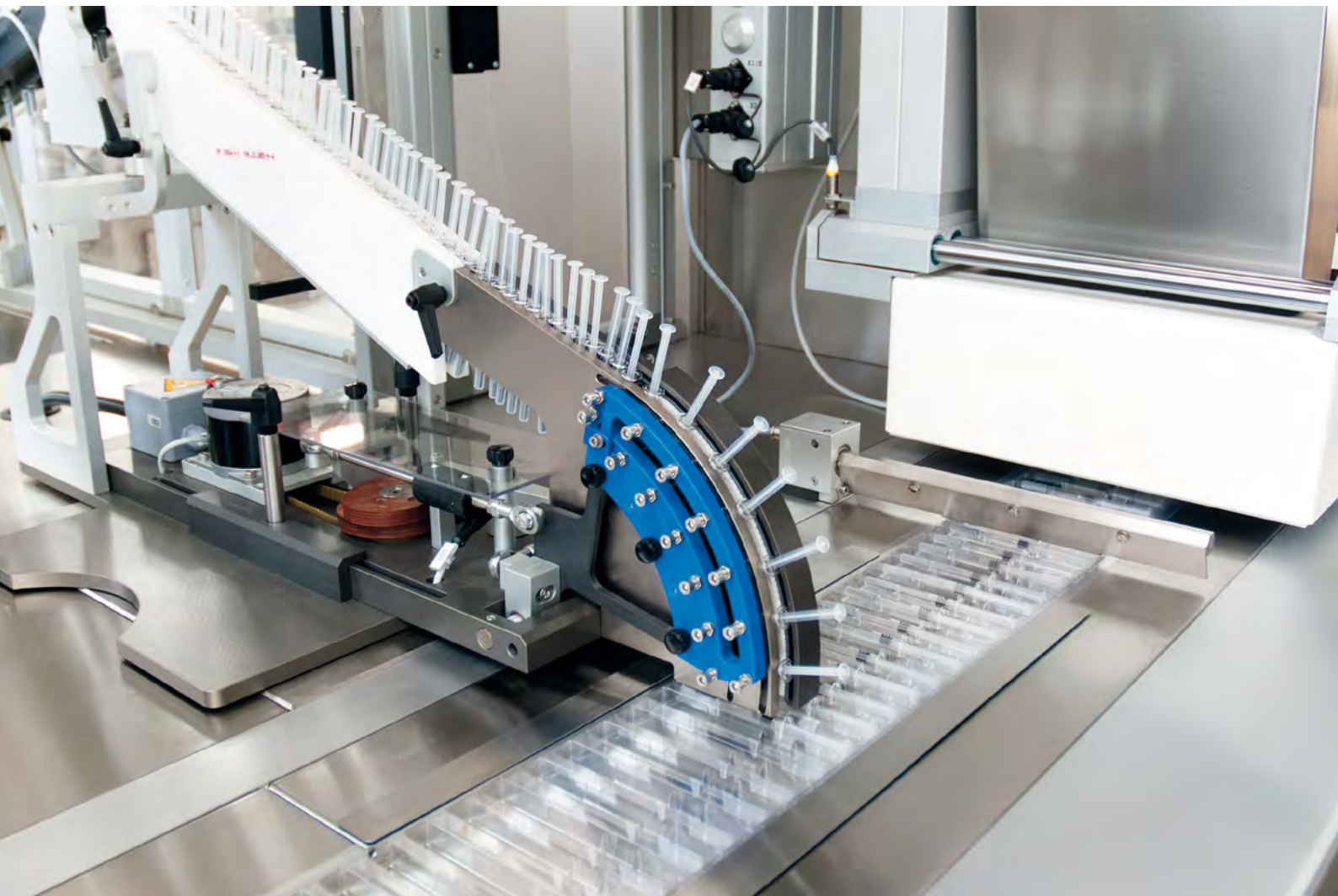
## OPTIMIZATION OF THE PRIMARY AREA

The blister cutting station is both available in the integrated version within the blister packer basement and in the stand-alone version.

This solution is particularly interesting for those production solutions requiring the separation between the primary and secondary phases by means of a cleanroom. In fact, the stand-alone version of the cutter permits to keep the only phases necessary to pack the product in blisters on the controlled atmosphere blister packer, and sends a continuous belt of blisters to the secondary area with the product already sealed.

The blister machine without blister cutting reduces its length by about one meter. The result is a cleanroom with optimized dimensions, hence a reduction in production and management costs, as well as a simpler handling of the product leaving the cleanroom itself.

This publication supersedes and replaces any previous edition and revision. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without permission of Tecnicam s.r.l. (Bologna - Italy). The technical data, the images and the diagrams are exclusively indicative and not binding, they might be modified without notice.



This publication supersedes and replaces any previous edition and revision. All rights reserved.  
No part of this publication may be reproduced, stored in a retrieval system or transmitted  
in any form or by any means, electronic, mechanical, photocopying, recording or otherwise,  
without permission of Tecnicam s.r.l. (Bologna - Italy).  
The technical data, the images and the diagrams are exclusively indicative and not binding,  
they might be modified without notice.



# COMPLETE PACKAGING LINES

[www.campackaging.it](http://www.campackaging.it)