

## INNOVATIVE DESIGN

Innovative features for changing bonding die configuration in a matter of seconds.

## HIGH QUALITY BUILT

The BT-N type thermal bonders are built with a very high-quality benchmark resulting in a stable and robust design with minimal cost of ownership.

## SOFTWARE

Easy to use interfacing software with recipe control. Barcode scanners are support as standard.

## CONTACT

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[www.mpt.com](http://www.mpt.com)

Robust and stable thermal bonding machine designed to provide the user with an effective and reliable production machine for bonding all sorts of balloon and catheter components with minimal cost of ownership.

The BT-N2X and BT-N3X machines are thermal bonding machines based on the hot-jaw principle. The small stainless steel dies used in the machines have accurate temperature control and heat up very fast.

A turning knob at the front of the machine allows for selection of the cavity to be used. The BT-N3X has a maximum of three cavities that can be at two different temperatures.

The dies and closing gripper are mounted in an exchangeable unit. This allows for very fast switching between dies by replacing this unit with another unit with a different set of dies. Alignment is accurate and therefore the machine can be operational again in minutes.

- 10" color touch panel interface with parameter setting and recipe control
- Standard color camera with recipe driven crosshair options for easy alignment of the products by the operator.
- Quick exchange die-unit for easy switching between various products
- Stable product table keeps the product fixated during the bonding process.

A small camera allows the operator easy and repeatable alignment. The camera image is projected on the user interface. Horizontal and vertical crosshairs can be added to aid in the alignment.

The machine is recipe controlled and temperatures, welding times, crosshair positions, colors and more are part of the recipe. When switching between cavities (but actuating the turning knob at the front) parameters are automatically loaded according to the recipe setup.

The machine can be optionally equipped with a servo-pneumatic axial compression unit. This allows for the application of a small axial force (max. 10N) during the welding process to aid in reflow.

### SAFETY

Heated parts safely shielded from the operators

### HEATING

Fast heating and stable stainless steel dies. Automatic temperature adjustment when switching to different die cavity.

### USER INTERFACE

Large 10" full color touch screen user interface for easy overview of the machine behavior.

### AXIAL COMPRESSION

Optional axial compression unit available for applying low constant force during the bonding process.

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### Technical Specification BT-N3X Thermal Bonding Machine

Die system	Two split dies with quick exchange units
Maximum temperature	240C (optional higher temperatures possible)
Number of cavities	Max 3
Temperature zones	2 temperature zones
Product handling	Product fixed on a table with interchangeable inlays and clamps
Product alignment	Optical with the aid of color video camera and software crosshairs (both horizontal as vertical)
Axial compression	Optional axial compression unit to be mounted to the product table providing max. 10N of axial pressure during the welding
Air cooling	Optional air cooling to allow for fast cooling of the welded product
GUI	10" colour touch panel
Control software	Recipe based Password levels (operator, engineer, calibrator) Remote support option
Ethernet	1x
USB	4x
Required air pressure	7 bar minimum
Power supply	115 / 240VAC / 0.5kW