



# MODULAR WEB CONVERTING TDS MACHINES

The TDS series is a flexible and modular web processing unit which represents a further development of the MED series and which has been especially conceived and designed with the aim of manufacturing products for the Pharmaceutical market.

This series of web processing units are able to manufacture Transdermal Therapeutic Systems (TTS/TDS) composed of various layers by delaminating and laminating the different materials.

Control of the different phases of the web converting is guaranteed by quality checks and in-line inspection systems such as Photocells, Sensors, sophisticated Vision Systems, etc...

Printing on the TDS patch is also available through thermal transfer dedicated printers using FDA approved ribbons as is the printing of the OCV/OCR data on the pouch complete with camera control.

Machine construction is according to GMP. Software compliance according to CFR 21 Part 11 is also available as are DQ/IQ/OQ , with or without execution.

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## DESCRIPTION

Mechanical Speed	100 m/min	Multi product pouch with zip-lock	opt
Production Speed	5-40 m/min	Ultrasonic sealing	opt
Formats	all you need	Zero gap cutting and island placing	opt
Web width	200-300 mm	Three rolls cutting system	opt
Rotary hot sealing	100 -1200 pcs/min	Software CFR Part 11	opt
Plate hot sealing	100 -1200 pcs/min	Metal detector	opt
Time for format change	15-45 min	Flexo printing in-line	opt
Multi lanes	1 to 5	Air free pouching with Nitrogen	opt
Max. coil Ø	800 mm	Centering of upper/lower pouch	opt
Axial coil adjustment	± 25 mm		
Automatic change over	opt		
Tools extraction system	opt		
Tools working pressure from HMI	opt		
Filter system and laminar flow	opt		
Quality control vision camera	opt		
OCV/OCR vision camera	opt		
Multilayers lamination	1 to 20		
Cartooning machine	opt		
Pile counting	opt		
Steaker for families	opt		



# MODULAR WEB CONVERTING ODF MACHINES

The ODF series is a flexible and modular web processing unit especially developed for the production of Oral Film Strips (ODF) or Mucocoadhesive Film Strips (MBF).

A flexibility which can be incorporated in the machine is the possibility of having a slitter&rewinder station installed at the beginning of the web converting process thus allowing the coated mother roll produced in the coating machine to be directly processed in the machine without the need of having a separated unit.

In addition to all the inspection systems available in the TDS series, for a product such as Oral Films, which is going in the mouth of the patients, an additional system for detection of small metal impurities is also available. The ODF can also be printed using FDA approved water inks.

Machine construction and documentation same as TDS series.

MEDICAL PHARMACEUTICAL NUTRACEUTICAL

## DESCRIPTION

Mechanical Speed	100 m/min	Ultrasonic sealing	opt
Production Speed	5-40 m/min	Three rolls cutting system	opt
Formats	all you need	Software CFR Part 11	opt
Web width	200-300 mm	Metal detector	opt
Rotary hot sealing	100-1200 pcs/min	Flexo printing in-line	opt
Plate hot sealing	100-1200 pcs/min	Air free pouching with Nitrogen	opt
Time for format change	15-45 min	Centering of upper/lower pouch	opt
Multi lanes	1 to 5		
Max. coil Ø	800 mm		
Axial coil adjustment	± 25 mm		
Automatic change over	opt		
Tools extraction system	opt		
Tools working pressure from HMI	opt		
Filter system and laminar flow	opt		
Quality control vision camera	opt		
OCV/OCR vision camera	opt		
Cartooning machine	opt		
Pile counting	opt		
Steaker for families	opt		
Multi product pouch with zip-lock	opt		

