

PLATFORM 20/20

Inspection - Slitter - Rewinder

The Platform 20/20 is the first web processing system to combine the benefits of bidirectional inspection, fault editing and reinspection with unidirectional slitting, counting, lead & tail creation and inkjet printing - all in a single pass. This is achieved through the use of a unique, patented shuttle retrieval system, located between the unwind and outfeed nip, which buffers material and allows detected faults to be retrieved, corrected and re-inspected, without moving the unwind or rewind rolls.

Designed for the pharmaceutical and security sensitive industries, where product quality and integrity are of primary concern, the Platform 20/20 offers the highest level of quality control while providing cost effective throughput because the machine is stopped and the product reversed only when faults are present; otherwise 100% inspected product is being processed for immediate shipment. Previously, to achieve a similar level of quality control, product had to undergo multiple processes, often through different pieces of equipment, which added cost and time.

All Platform 20/20s are equipped with the Arpeco Dynatrak, advanced multi-processor machine controller with touch screen operator interface, which handles the important aspects of security count, web tension control, fault detection parameters, and machine condition monitoring. Other standard features include a hydraulic unwind roll lifter, electronic web guide, cartridge-style shear slitting, web advance unit and closed-loop rewind tension control. Optionally a variety of electronic fault detection systems including flag/splice, matrix/missing label detection, barcode scanning or 100% vision Inspection can be provided. Also available are stroboscopes, waste rewind, log reporting, core label printing, lead & tail creation systems, duplex rewind and a variety of slitting capabilities.



Specifications

Web Width	330 mm (13") 407 mm (16") 560 mm (22")
Maximum Unwind Diameter	1016 mm (40")
Maximum Rewind Diameter	457 mm (18") Optional 610 mm (24")
Maximum Speed	260 m/min (850 ft/min)
Unwind/Rewind Shaft Diameter	76.2 mm (3")
AC Motor Drive	330/407mm 3.7 Kw (5 HP) Optional 5.6 Kw (7.5 HP)
Electrical	220V Three Phase 50/60 Hz
Air	5-7 bars (80-100 PSI) Nominal Consumption
Dimensions (L x D x H)	3632 x 1245 x 1955 mm 143" x 49" x 77" 3632 x 1320 x 1995 mm 143" x 52" x 72"
Weight	Approx 1455 kgs (3200 lbs)



Lineal Die



Dual Dynatraks



Ink Jet Tower

arpeco[®]

A PRECISION AUTOMATION[®] COMPANY

Manufacturing - 1841 Old Cuthbert Road Cherry Hill, NJ USA Phone: 856-428-7400 Fax: 856-428-1270
International Sales & Service - 7405 East Danbro Crescent Mississauga ON, Canada L5N 6P8
Phone: 905-812-5150 Fax: 905-812-5171

Visit our website at www.arpeco.com

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How the Platform 20/20 Works:

1. MASTER ROLL UNWIND - WEB MOVES FORWARD ONLY

The function of the shuttle retrieval system allows the unwind roll to move in the forward direction only. This prevents tension changes normally caused when the unwind roll is used to reverse the web and allows larger unwind rolls to be processed.

2. WEB MOVES FORWARD AND REVERSE IN THE INSPECTION AREA

The bi-directional aspect of the shuttle retrieval system provides the ability to re-inspect areas of the web which have been corrected by the operator. Inspection systems can include flag/splice, matrix missing label detection, stroboscopes, barcode reader, 100% Vision, etc...

3. SHUTTLE RETRIEVAL UNIT "STORES" WEB FOR RE-INSPECTION

Upon activation of the shuttle assembly, the web from the lower section of the accumulator is retrieved to the upper section. This action reverses the web and positions faults for correction and re-inspection prior to finishing.

4. ALL WEB AFTER SHUTTLE IS 100% INSPECTED AND READY FOR FINISHING

Finishing functions such as lead and tail creation, inkjet printing, slitting, counting and rewinding can be safely performed in a unidirectional mode after faults have been removed.

