CarestreamNDT

Technical Data / Reference

INDUSTREX M37 Plus

Film Processor

Non-Destructive Testing (NDT) Applications

Publication No. CHSP-9012
2021-09-10

Technical Specifications

Processing applications:	Rolls and cut sheets of all commonly used industrial X-ray films
Film thickness:	0.10–0.18 mm (4–7 mil)
Film width:	Min. 6 cm / max. 43 cm
Film length:	Min. 10 cm

Recommended Immersion Times/Developer Temps

Development Time (seconds)	Intake Speed (cm/min)	Developer Temperature
110	22	28.0 ˚C (82.4 ˚F)
90	26.4	30.5 ˚C (86.9 ˚F)

For more information on development times, see the chart to the lower right.

NOTE: To provide optimal processing conditions with INDUSTREX Films, the M37 Plus processor's firmware prevents processor intake speed of less than 39.60 cm/min (or less than a 60-second development time).

Tank Capacity

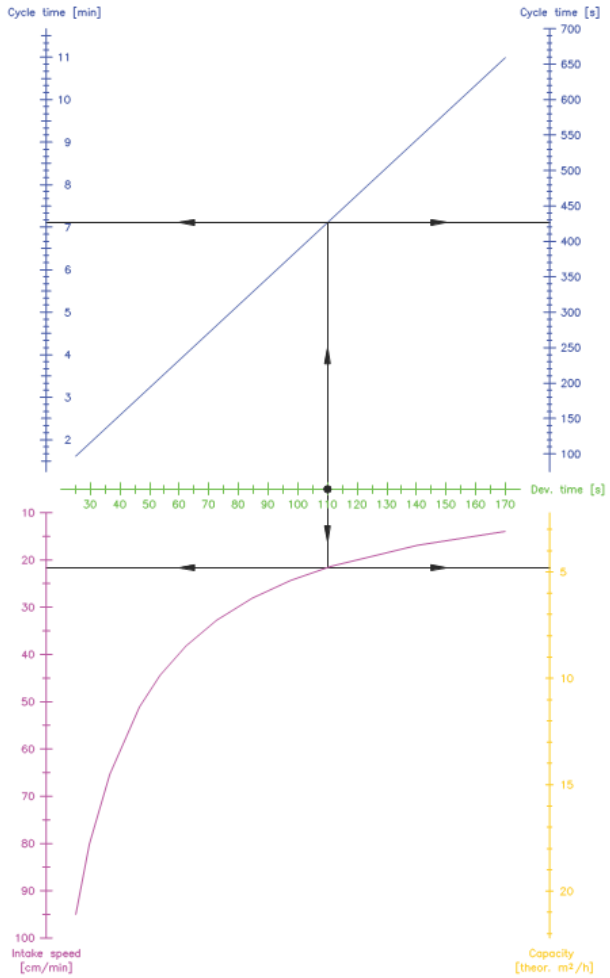
Developer	Fixer	Wash Water
7.0 L including filter	6.5 L	6.5 L

Solution heating (FIX and DEV):	Adjustable in a range of 18.0 to 43.0 ˚C (64.4 to 109.4 ˚F) (separate inline 350 W heaters)
Cooling system (FIX and DEV):	Automatic, cold water cooling system or external Chiller
Wash Tank:	Cold-water supply recirculated
Dryer:	Warm air adjustable in a range of 18.0 to 60.0 ˚C (64.4 to 140.0 ˚F)
Automatic replenishment: NOTE: Replenishment cycles are adjustable.	Microprocessor controlled and calculated from information received from sensors that measure the width & length of material entering the processor.
Wash water distribution:	Built-in 3-way magnetic valve
Wash water flow rate:	2.5 L per min when film is processed
Wash water supply pressure:	2–6 bar
Wash water supply:	Filtered at a temperature of 7.0 to 15.0 ˚C (44.6 to 59.0 ˚F) with ¾ in. hose connection
Wash water drain:	32 mm O.D. (5/4 in.) hose or tube

Weights

Empty:	160 kg (352 lb)
With solution :	180 kg (396 lb)

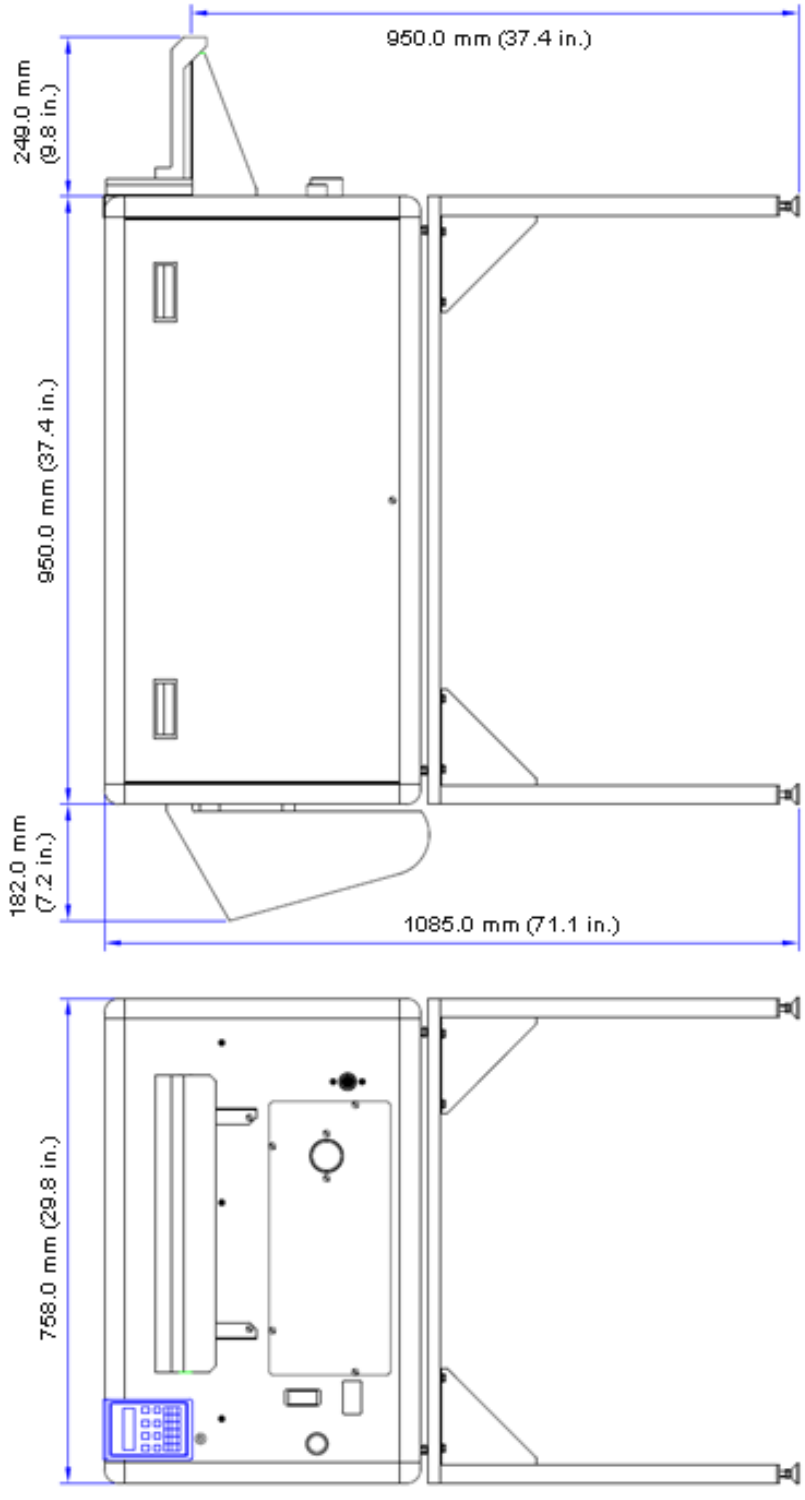
Input Speed, Development Time, and Cycle Time



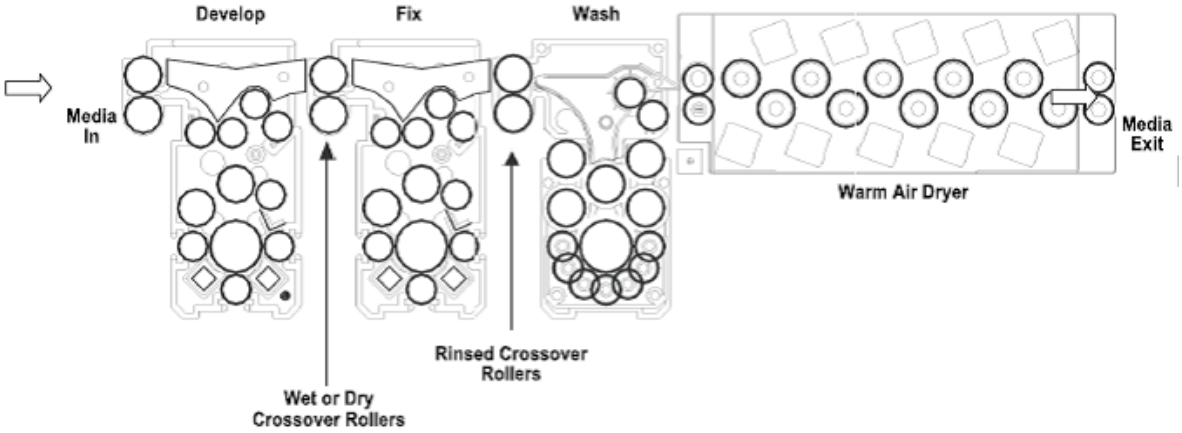
Development Time (seconds)	Intake Speed (cm/min)	Cycle Time (seconds)
25	95.04	97
30	79.20	116
40	59.40	155
50	47.52	194
60	39.60	232
70	33.94	272
80	29.70	310
90	26.40	349
100	23.76	388
110	21.60	427
120	19.80	465
130	18.28	504
140	16.97	543
150	15.84	582
160	14.85	621
170	13.98	659

Dimensions

The manufacturer recommends a minimum clearance space around the processor of 50 cm.



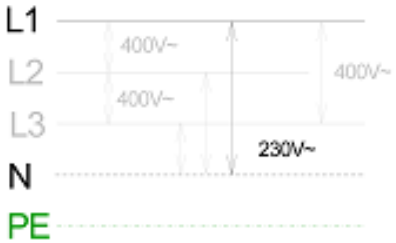
Transport System



Electrical Supply

- Single phase, 230 VAC
- 2.0 kW
- 13 A

Attention! Electrical Hazard



Attention:
Only L1-N = 1 x 230V is connected.

If the above voltages are not available at the site, contact your local dealer or Colenta for assistance.

Important!

In countries where the electrical supply is 60 Hz, the replenishment pumps must be adjusted to ensure that they deliver the recommended replenisher amount. Contact a qualified service provider to check and make adjustments if needed.

Shipment Details

Packing dimensions:	1 wooden box on pallet: 145 x 92 x 140 cm (L x W x H)
Packing volume:	1.87 m^2
Weight with packing:	225 kg (496 lb)

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Colenta Labortechnik GmbH & Co KG
Neunkirchner Str. 117
A-2700 Wiener Neustadt
Austria

© Colenta Labortechnik GmbH & Co KG 2018

Carestream is a distributor of the INDUSTREX M37 Plus Film Processor.
Carestream Health, Inc.
150 Verona Street
Rochester, NY USA 14608

CARESTREAM and INDUSTREX are trademarks of Carestream Health.

Pub. No. CHSP-9012
Rev. C

CE

Publication History:

2019: Colenta version: RDM4-43_01
2021-05-05, Rev A: Carestream branding was applied
2021-08-06, Rev B: Updated the transport system diagram. Updated the water pressure to 2–6 bar. Added note about countries with 60 Hz electrical supply.
2021-09-10, Rev C: Added note to contact service provider to help with 60 Hz sites' replenishment pumps if needed.