COLEX

Photo • Processing • Equipment

YOUR FUTURE

55" & 80" Models

State-of-the-art technology

Colex has developed a revolutionary line of American-built Roller Transport Processors. These machines incorporate unique features introduced for the first time in any processor. Environmentally safe ozone generation to prevent algae growth. Exclusive computer monitored anti-evaporation system automatically tops off solution levels. Automatic paper jam detection. A computerized speed readout displays developer time. The integral roll take-up tracks up to 5 lanes, automatically turns itself on and alerts the operator when a roll of paper emerges from the dryer. A dryer cool-down feature briefly runs the fans, after the dryer heaters shut down, to cool off the dryer compartment. Infra-red drying ensures high gloss and an even matte sheen on tough, high density black areas. A seven day timer allows automatic start-up and shut-down times to be set independently for each day of the week.

The Colex 55" and 80" processors were designed to meet the demanding needs of professional labs, such as large quantity runs of sheets or rolls and display materials.

A full line of processors to handle all the current photographic processes for Color and B&W. The RA-4 models are offered in speeds of 40-to 60-inches-per-minute to accommodate the various needs of the market-place.

State-of-the-art computer aided design practices have enabled Colex to produce the smallest processors in their class with no sacrifice in features or quality. On the average, Colex processors occupy about 20% less floor space than similar models from other manufacturers.

How does Colex do it? The staggered roller concept, exclusive to Colex, enables the racks to be thinner than other designs. The vertical "U" dryer concept enables the dryer to occupy one-third the space of "straight through" drying systems and eliminates the need for an extended catch bin.

Add these new features to such long time Colex design characteristics as solid construction, oversized transport system components, washing crossovers, submerged rollers, plus a reliable microprocessor control system and it's easy to see why the Colex processor is the machine for the 90's.

Colex Processors
Tank Configurations

Dev.	Bleach	Wash	Wash	
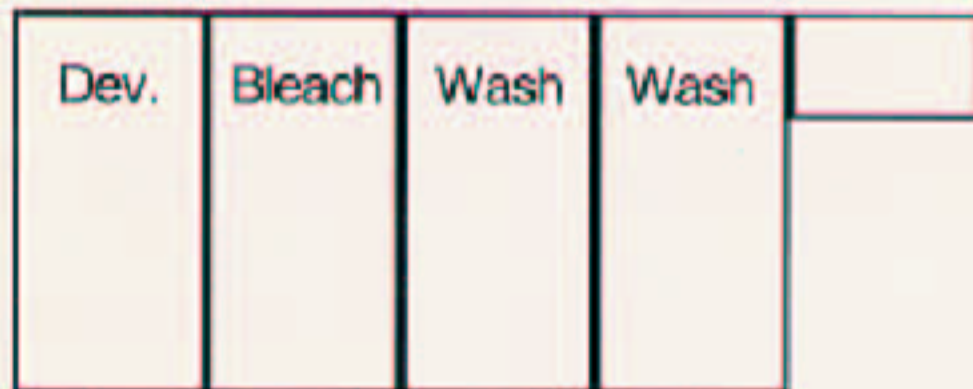
— Squeegee, included with all Colex tank configurations.

RA-4 • The tank configuration includes a squeegee whereby the material is wiped free of excess water, to provide excellent drying characteristics.

Dev.	Wash	Wash	Dev.	Wash	Blix.	Blix.	Wash	Wash	
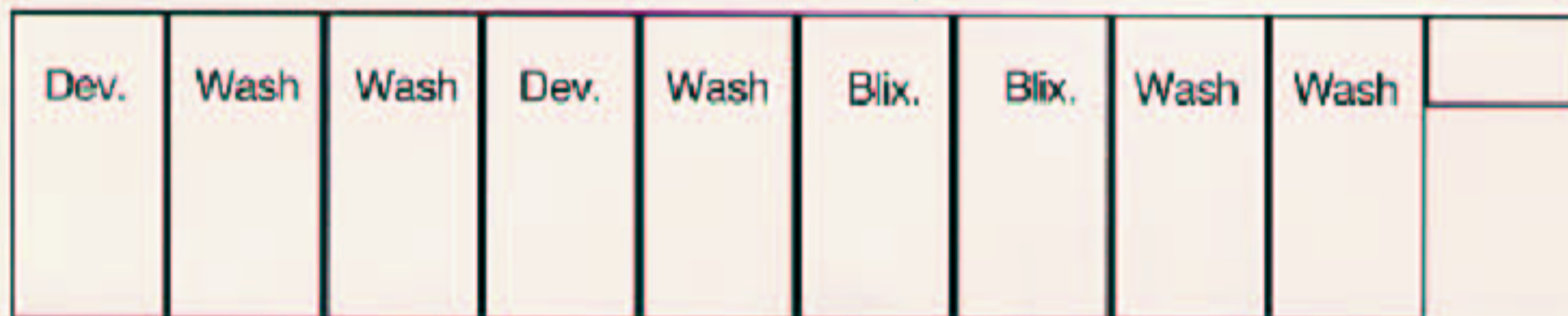
R3 • Due to the submerged rack technology the chemical surface is static; bleach sulphurization is non-existent.

| Dev.	Wash	Bleach	Wash	Fix.	Fix.	Wash	Wash	

P3X • All metal components in the bleach are produced from titanium to meet the strict specifications of the material manufacturers.

Dev.	By pass Bleach	Fix.	Wash	Wash	

P4 • Available as a color-only unit, or with a special by-pass for the additional processing of Ilfochrome® black and white materials.

| Dev.	Fix.	Wash	Wash	
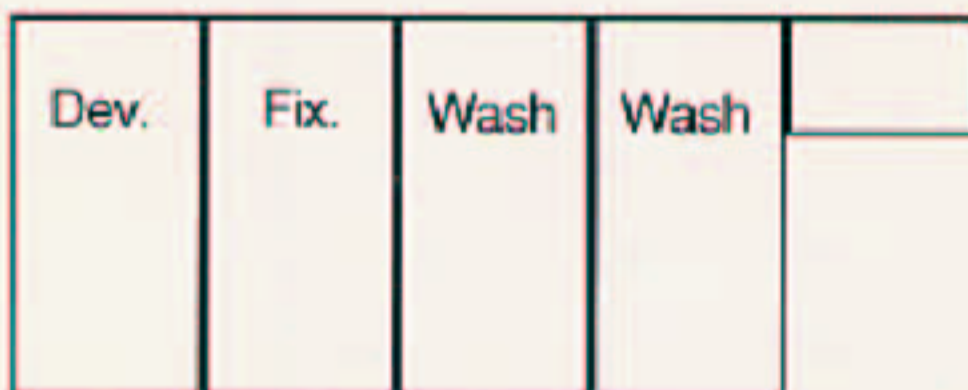
B&W • A variable speed unit with models for Rapid Access or High Capacity. Infra-red drying produces exceptional surface gloss.
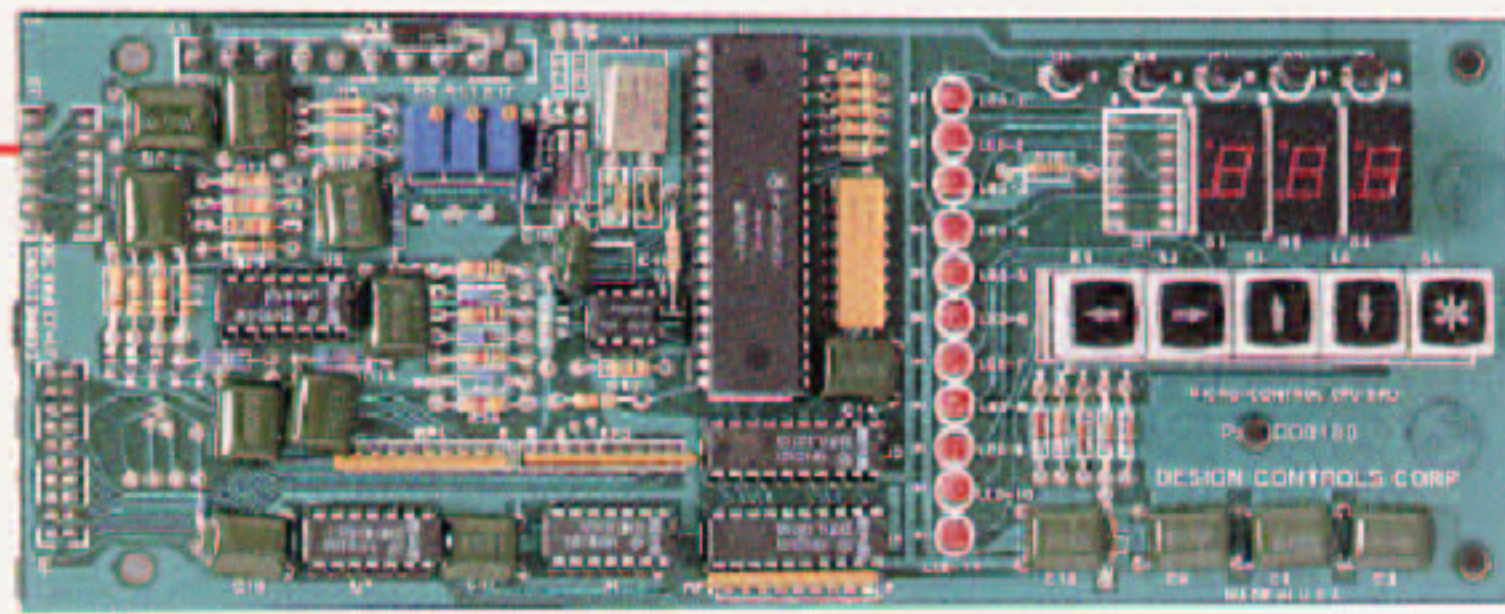
Microprocessor Controlled

Colex's modular approach to electronic circuit design has paid off in a low failure rate and increased user serviceability. Extra strength power handling components are used for switching, to insure that no component exceeds rated loads even under abnormal conditions. All electronic components are "burned in" in the factory testing procedure. Since most solid-state component failures occur in the first few hours of operation, field failures are reduced by pre-testing. Since the boards are modular, most repairs can be made by replacing the defective board.
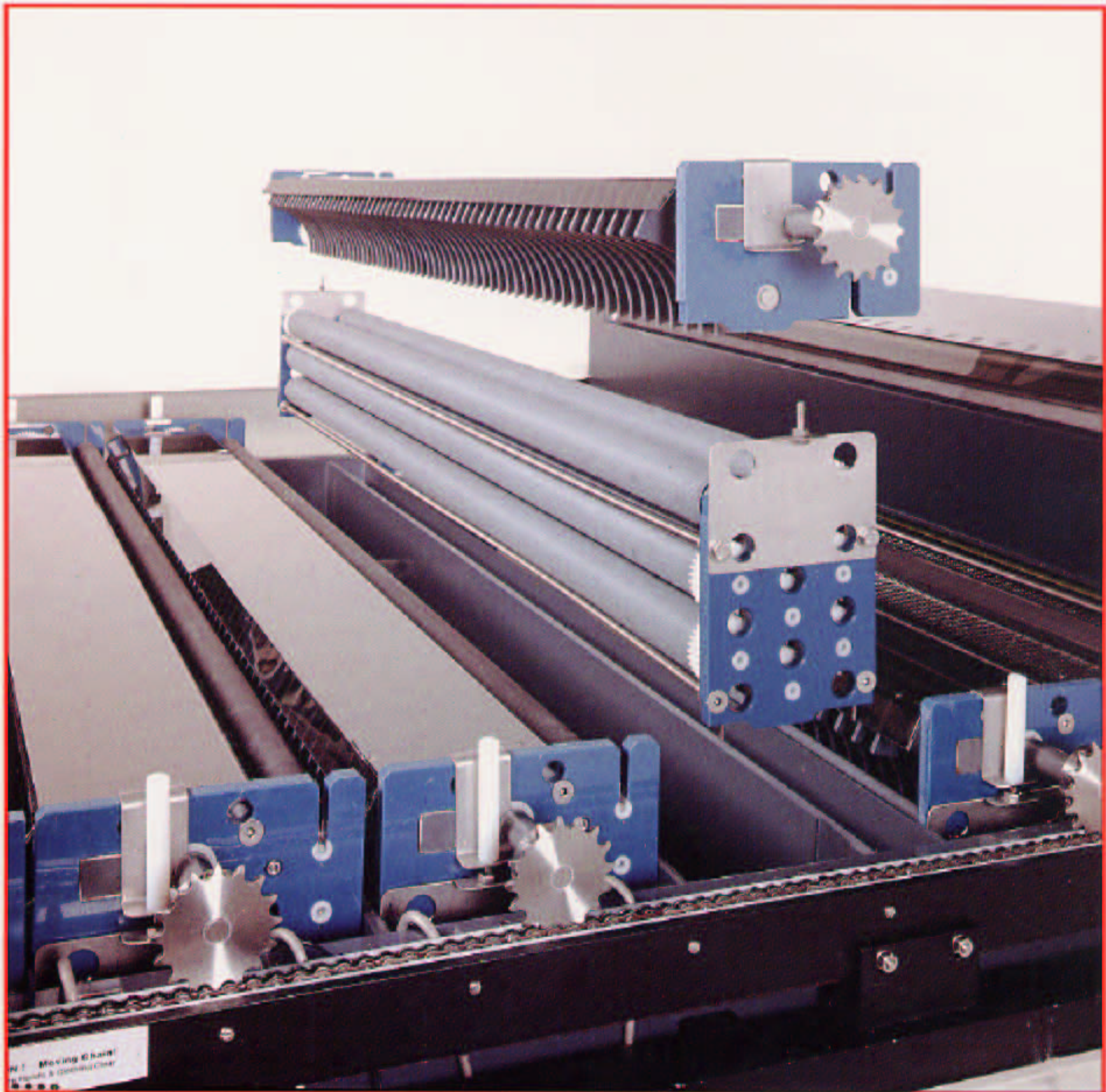
Simplified Operation and Low Maintenance Features

SEALED TANK CONCEPT • Most roller transports do not provide a cover for their chemical tanks. Because modern photochemistry often operates at high temperatures, a high evaporation rate causes frequent problems both chemically, by altered solution concentration and physically, by crystallization deposits. Colex has solved this problem by designing the covered crossover guide, which helps seal the tank from evaporation and oxidation.

INTEGRAL DEVELOPER TIME READOUT • Monitors a digital shaft encoder to show actual developer time under any conditions. This system serves as a double check to the operator when changing back and forth between two processing modes. It also allows the processor to be finely tuned to perfectly balance all processors within the laboratory.

HIGH EFFICIENCY INFRA-RED DRYER ASSIST guarantees excellent drying characteristics. This innovation ensures exceptional surface quality even on tough matte blacks.

INFRA-RED SENSORS • Scan the material, with low level infra-red light, as it is fed into the processor. The infra-red sensors turn on the transport and recirculation systems, and measure the area of the material to accurately control the replenishment metering pumps. The extreme accuracy of the replenishment system is a contributing factor to Colex's unparalleled processing consistency.

ONE TOUCH DURATRANS • Easily accessible switch-over at control panel.

SEVEN DAY TIMER FUNCTION • Fully controls automatic start-up and shut-down. The system incorporates an anti-evaporation mechanism to automatically top-off solution levels.


FEED CLUTCH MECHANISM • Permits easy alignment of mural size prints prior to entering the processor.

ALGAE PREVENTION SYSTEM • An ozone based anti-algae and anti-bacteria system (Patent Pending) utilizes a built-in regenerating air dryer to achieve adequate levels of ozone to eliminate slime build-up in both wash tanks. Ozone is introduced into a separate recirculation system via a small venturi.

EXTERNAL FILTER HOUSING • Provides easy access for filter inspection and replacement.
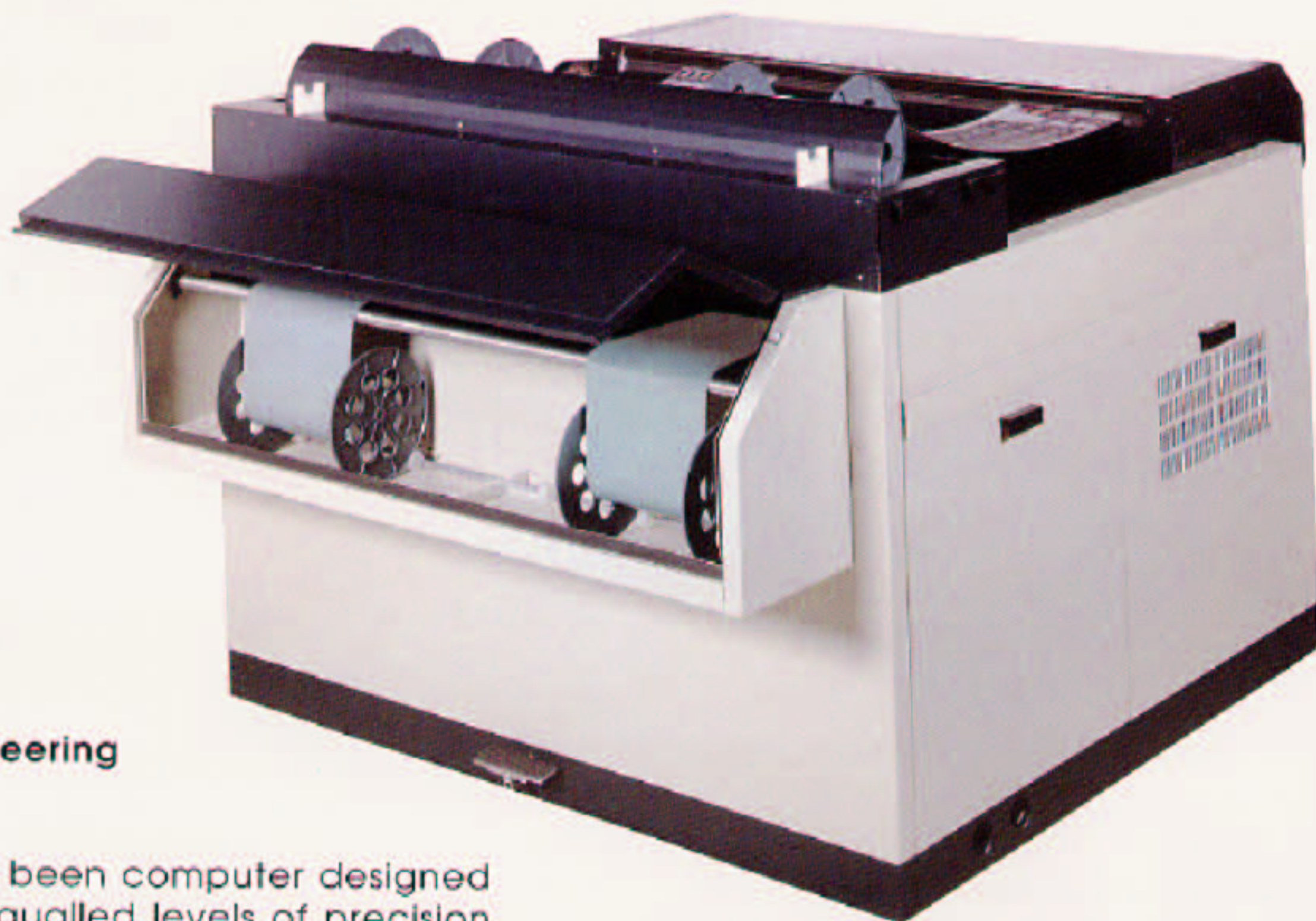
Precision engineering

The racks have been computer designed to provide unequalled levels of precision both in terms of positional accuracy of the rollers, gears and other mechanical parts, and smoothness of the actual material transport itself. As a result, Colex can claim a transport that will pass a regular one-dollar bill through the very center of an 82" wide rack, with a three point bottom turn-around. A claim backed up by the smoothest operating, most efficient drive system in the industry.

All of the engineering drawings in the world won't result in this level of performance if the factory can't make the parts that "engineering" designed. For this reason Colex has installed some of the most advanced, computer controlled machining equipment on the market today. This new equipment interfaces directly with our Cad computers and provides us with the ability to manufacture parts which perfectly replicate the on screen engineering drawings. Two immediate benefits derived from this system are a flawless interchangeability of all mechanical components, and a transport system that is so smooth it virtually eliminates leading edge damage to prints, even when running at speeds of 60 inches per minute.

Two models are available; the Colex Standard and the Colex Mural processor, in 55" & 80" widths for RA-4, P3X, R3, P4 and B&W.

Both the Colex Standard Roller Transports and the Colex Mural Processors include a rear mounted filter housing, seven day timer and one-touch Duratrans® control.

All Mural processors include: Infra-red Dryer Assist, Automatic Dryer Jam Detection System, Dryer Cool-down feature, Feed Roller Clutch, Anti-Evaporation System, Roll Feed & Take-up and Material Exit Time Annunciator as standard features. The only options are: Water Control Panel, Rack Carrier Tray and Spare Parts Kit.

Some of the custom features of the Mural Processor can be purchased separately, as options, for the Standard Colex 55" and 80".

Duratrans® is a trademark of Eastman Kodak Co.

Colex Processors
55" & 80" Specifications
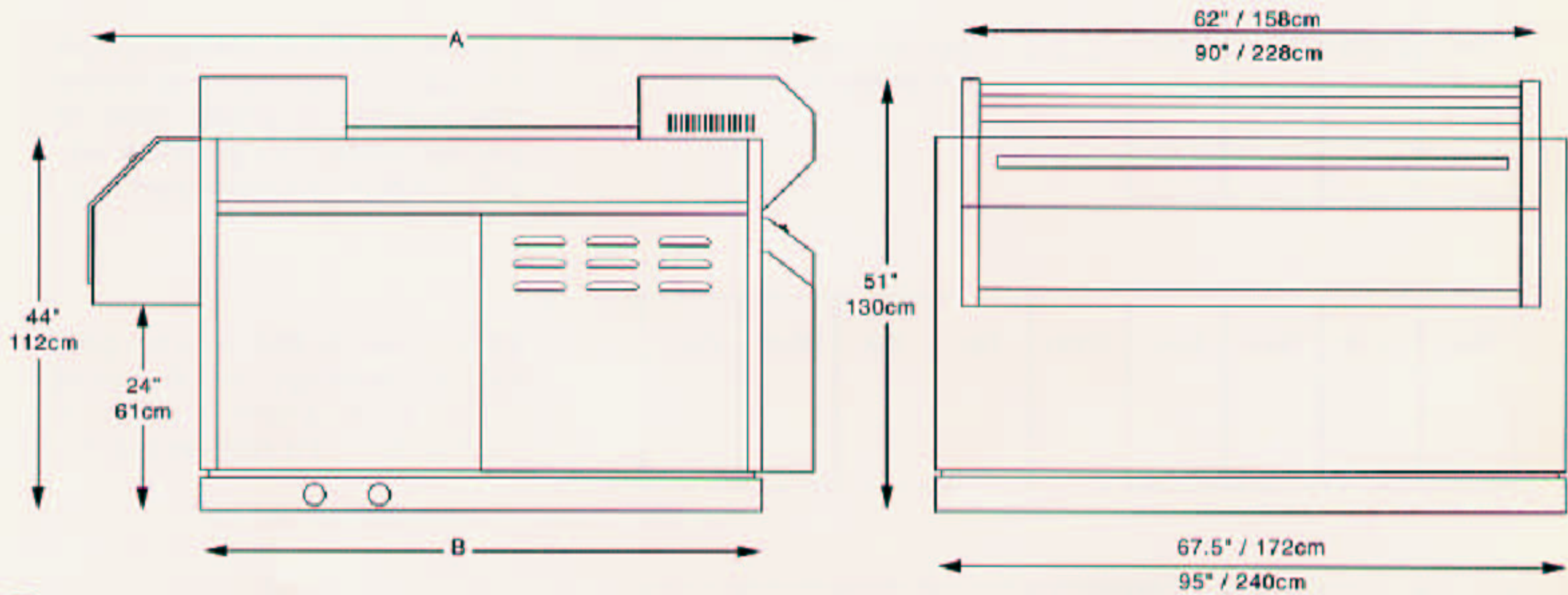
| Model	RTK55/30	RTK55/40	RTK55/60	RTK80/40	RTK80/60	RTR 55	RTC55	RTBW55	RTC55-37
Process	RA-4	RA-4	RA-4	RA-4	RA-4	R3	P3X	B&W	P4
Max.material width in inches	53.4	53.5	53.5	80	80	53.5	53.5	53.5	53.5
in cm	139	139	139	203	203	139	139	139	139
Speed, inches per minute	30	40	60	40	60	27	18	Var.	37
cm per minute	76	101	152	101	152	68	45	Var.	94
Dry to dry, in minutes	5	5	5	5	5	14	14	Var.	5
Developer in Gallons	8	10	14	15	22	12	12	10	12
in Liters	30	40	55	60	80	45	45	38	45
Water, Gallons per minute	3	3	4	4	6	6	6	3	5
Liters per minute	11	11	15	15	23	23	23	11	19
Power: 220V Three ø	60A	60A	70A	70A	80A	70A	70A	60A	70A
Dimensions A in inches	81	81	81	81	81	112.75	112.75	81	88
A in cm	205.7	205.7	205.7	205.7	205.7	286.4	286.4	205.7	205.7
B in inches	62	62	62	62	62	93.5	93.5	62	69
B in cm	157.5	157.5	157.5	157.5	157.5	237.5	237.5	157.5	157.
Weight Crated in pounds	2,780	2,780	2,890	3,645	3,825	4,225	4,225	2,250	3,225
in kilograms	1,250	1,250	1,300	1,640	1,720	1,900	1,900	1,250	1,450

Roller Transport Innovative Design

The standard Colex features, not available in other competitive machines, are self cleaning crossovers, submerged racks, sealed tank concept and staggered rollers.
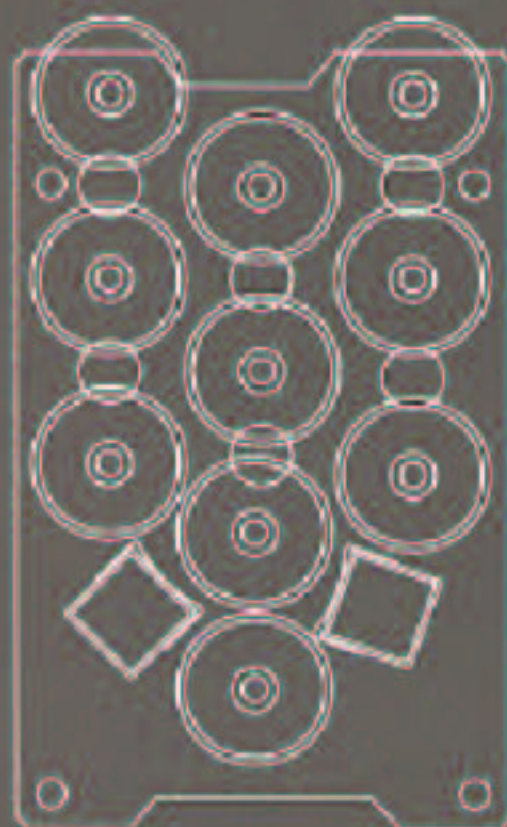
Colex Modular Rack
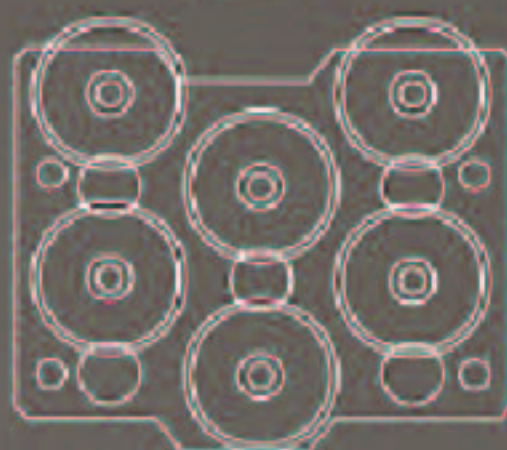
Self Cleaning Crossovers:

The material is rinsed and squeegeed as it passes from tank to tank, removing excessive carryover and reducing contamination.

Submerged Racks:

All transport rollers are located beneath the solution levels. This reduces chemical oxidation, and eliminates daily cleaning.

Staggered Rollers:

Permit the material to transport through the system without emulsion pressure, reducing the possibility of scratches and marks.

Roller Transport Features 55" & 80" Models

Microprocessor control:

One-touch Duratrans
Seven Day Timer
Developer Time Readout
Dryer Cool-down Feature
Automatic Dryer Jam Detection

Modular Rack System:

Fully Submerged Roller Design
Heavy Duty Rollers
Washing Crossovers
Heavy Duty Sideplates
Computer Design and Manufacture for Maximum Precision
Anti-evaporation System
Algae Prevention System
Top Mounted Scanner Display
Feed Roller Clutch
Integral Roll Take-up
Catch Bin
Infra-red Dryer Assist
Rear Mounted Filter Housing
Space Saving Design

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