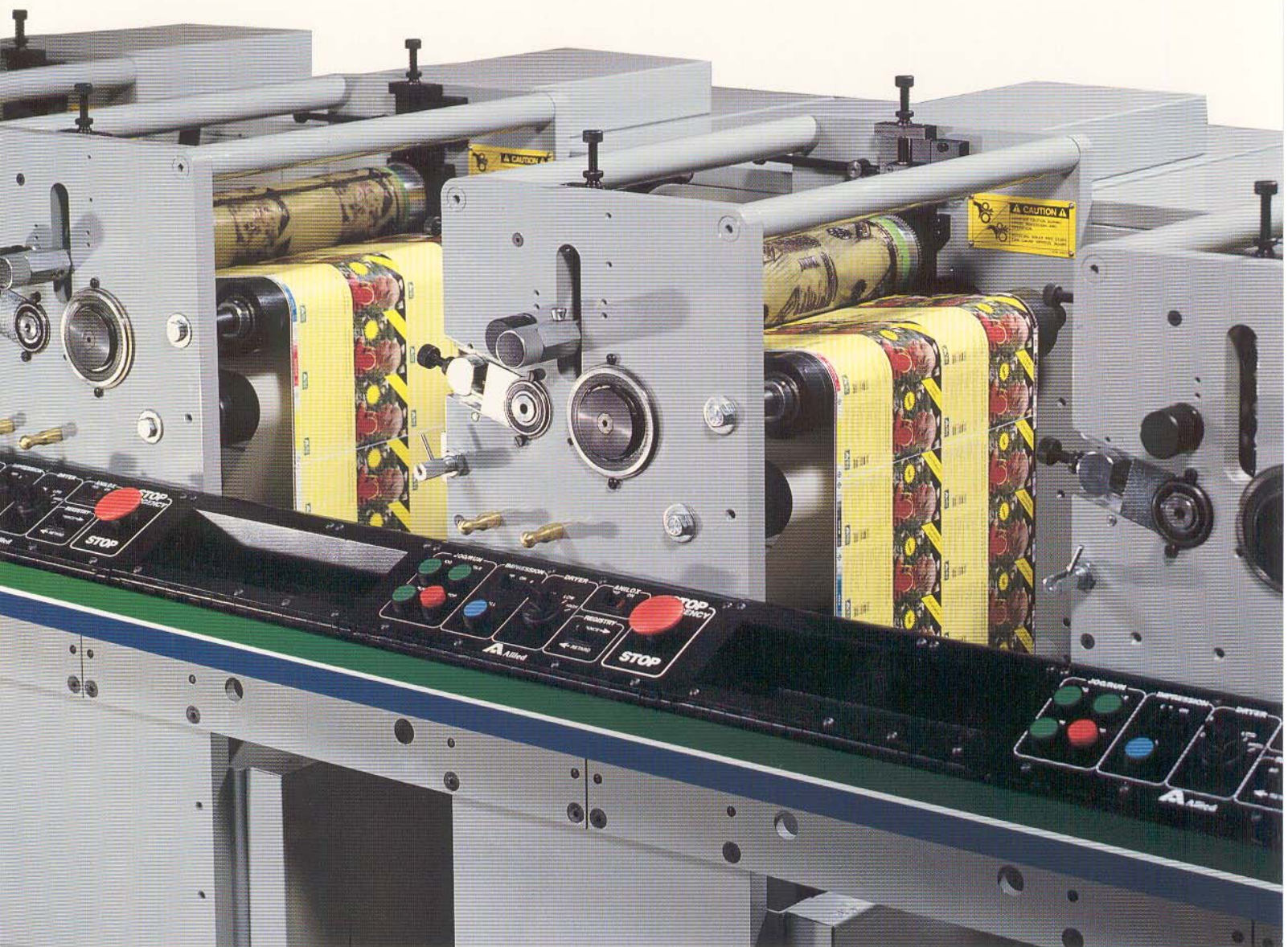


Allied 500 Series

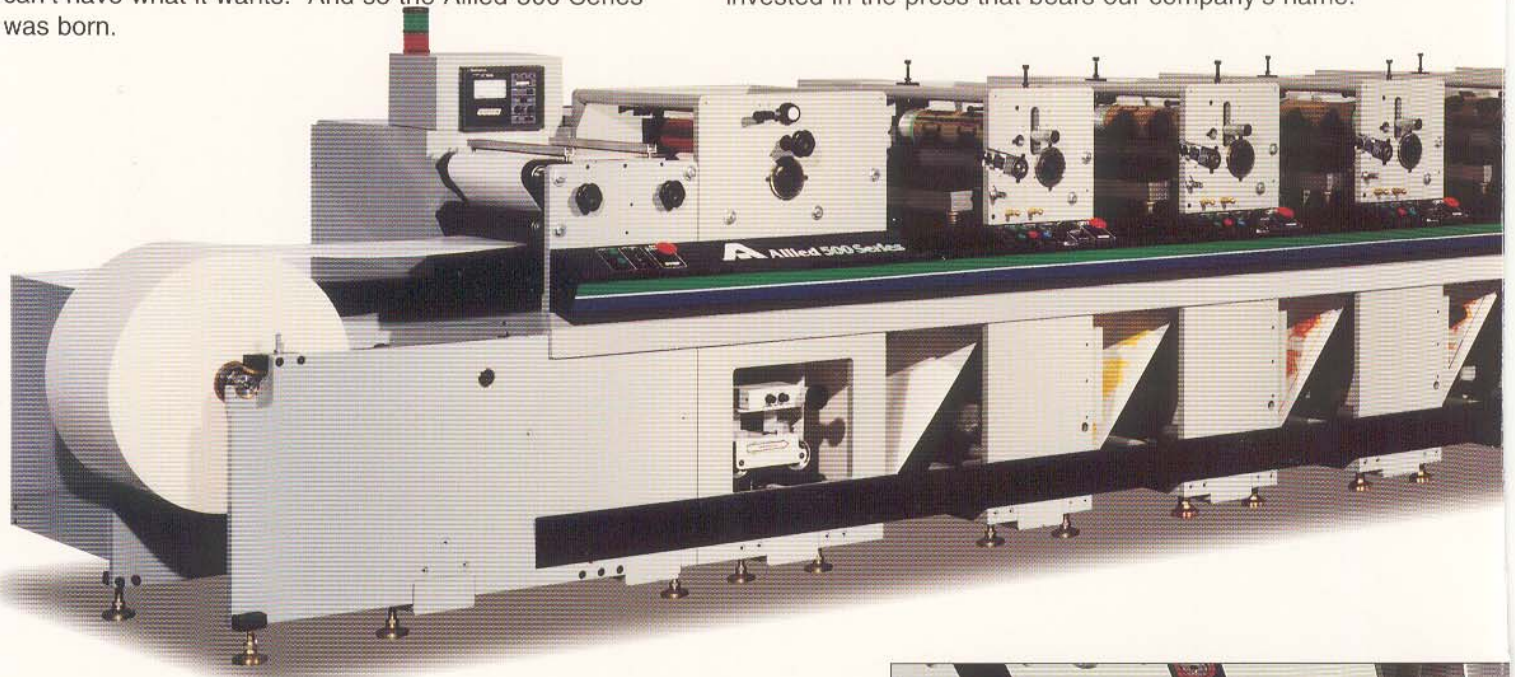
Modular Converting System

- ***Flexographic Printing***
- ***Rotary Diecutting***



We believe in meeting challenges head-on. That's why when converters like you laid out the specifications of the press you wanted, we rose to the challenge. We created a coordinated, focused team that compiled customer requests heard in sales, engineering, manufacturing, and technical service. After looking at the list, focusing always on building value into our product without compromising price sensitivity, we said, "There's no reason the market can't have what it wants." And so the Allied-500 Series was born.

Every feature has been included to give you a greater competitive edge without compromising your bottom line. Precision gearboxes, 1" thick, full-to-floor sideframes, 360 degree running lineal registration in all printing and diecutting stations, larger viewing area at the master control panel, superior web handling, innovative drying package, 500 feet/min...the list goes on and on. We're proud of the engineering, craftsmanship and attention to detail we've invested in the press that bears our company's name.

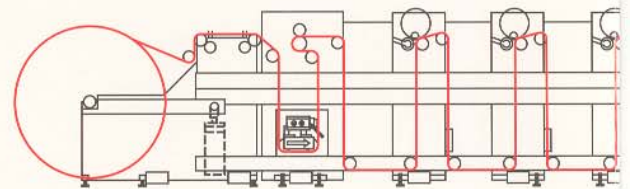


Options/Accessories:

- torque tubes
- helical gears
- dual web package
- UV units
- ceramic anilox rolls
- doctor blades
- enclosed doctor blade system
- reversible printing station
- ink pumps
- delam/relam unit
- air, mechanical, razor, or shear slitting units
- top stacker/conveyor
- batch counter
- male/female punch
- fanfolder
- variable information printing unit
- video inspection system
- strobe light
- lamination arm
- die adapters
- dual gearing
- turnbar
- throw length control



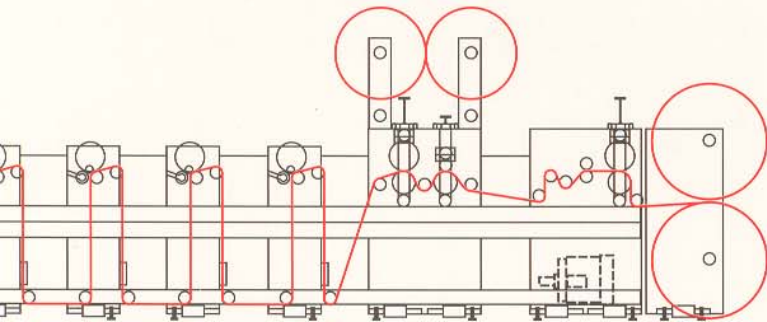
Master control: The master control was designed with in streamlined panel. Included are (from left to right): all diec registration controls, run controls, rewind controls, and sheets allows the operator the greatest function and convenience



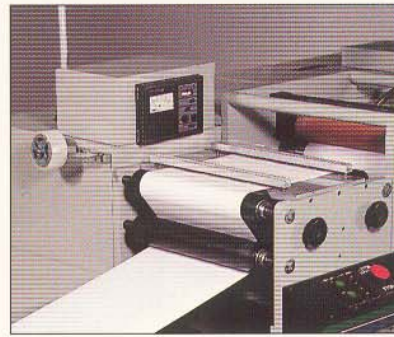
Take a look at the specifications and features of the Allied-500 Series. It will offer you the quality performance you need to perform and the features you'll need for that competitive edge.



Input from our customers. We incorporated all the controls into one cutting registration controls, waste wind-up controls, all print station registration controls. Like a well-designed dashboard, the control panel with the least amount of motion.



Features:

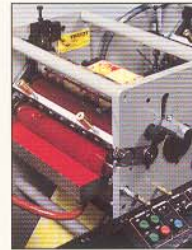


Tension control: A load cell monitoring system is the most sophisticated method for controlling web tension. It measures tension as the web passes over its surface, feeding the information electronically to the unwind brake, where minute adjustments are

made for constant, specified tension as the roll unwinds, allowing for more consistent print quality.



Construction: Sturdy sideframes of 1" thick plate assure durability and performance. Mono-plate construction full to floor ensures precise converting tolerances.



Print station: Each print station is self-sustaining, with individual ergonomically designed controls, dryers, 360 degree running lineal registration, 4 way print adjustment, and quick change components.



Print station control panels: Each print station has press run controls, a button for engaging all print impressions at once, a switch for 360 degree running registration, and individual dryer controls. Note the larger "E-Stop" emergency button that shuts off all press functions.



Drying: At each station, an individual high-velocity, impinged air curtain system provides superior drying. Each station is also designed to accommodate UV flexo and can be equipped or retrofitted with a UV curing unit.

Allied-500 Applications

Labels:		Specialty items:	
Pressure-sensitive labels	Glue applied labels	Bar codes	Greeting cards
Computer labels	Consecutive numbering	Business forms	Laminating
		Folding cartons	Lottery tickets
		Die cutting	Medical packaging and products
		Dual web	Pharmaceutical packaging
		Fabric	Pressure-sensitive striping
		Gaskets and filters	Theater tickets

About Allied...

Allied Gear started in 1947 as a manufacturer of gears for the United States Government. In 1963, we started to produce 4" flexographic printing presses called, simply, "Allied" presses. In 1967, we added rotary tooling to our product line, a product we continue to produce today.

Allied has introduced a number of well-known products throughout the years, including the workhorse line of presses called the Flexomaster series and a full line of rotary tooling. Currently, the Flexomaster line includes the Flexomaster 1B, the Flexomaster 3 and the Flexomaster 4, with press installations worldwide.

In 1992, we began and completed a major plant expansion and modernization that took us from 42,000 square feet to

over 76,000 square feet. The increased area has allowed us to produce our equipment efficiently and quickly while improving quality. In addition, we have an extensive spare parts inventory for your press so that, should you need parts, we will have them.

While the Allied-500 Series represents a departure for Allied from the Flexomaster line, it also represents for us a return to the beginnings of our industry, a time when innovation drove the market... a time when presses bore the name of their company alone.

We're positioned to handle your needs now and well into the twenty-first century. Take a look at us now. We think you'll like the Allied difference.



Come visit us at our headquarters in our newly expanded facilities. We'll demonstrate the capability of the Allied-500 Series in handling your difficult requirements.



Look At Us Now.

The product capability statements and engineering specifications in this brochure are based on data at the time of publishing. The contents are subject to change without notice. Information contained herein should be confirmed before placing orders.

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Specifications

Press speeds	500 feet/min
Number of colors	10
Web widths	20.50" (Allied-520) 16.50" (Allied-516) 10.25" (Allied-510)
Motor/drive	15 HP SCR Drive 20 HP (for Allied-520)
Drive/station connection	Fully-enclosed phase-shifter gearboxes with bevel gear angle drive
Lineshaft/couplings	1" shaft, zero backlash couplings (torque tube optional)
Construction	1" thick monoplate sideframes
Master control panel	Controls all major functions

Web Handling System

Unwind diameter	40" standard (larger diameters optional)
Unwind design	Dual support
Tension control	Load cell with direct drive infeed pacing
Unwind brake	Pneumatic
Unwind roll lift	Pneumatic
Splicing platform	Eccentric cam
Edge guide	Electronic
Nip rolls	Infeed, isolator, exit pacing
Rewind diameter	40" single standard (options: single 30", dual 30" and 40")
Rewind drive	Individual 2 HP motor

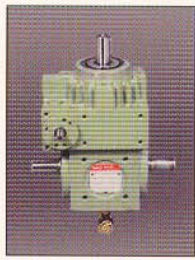
Print Stations

Maximum repeat per station	28"
Maximum printing width	20.25" (Allied-520) 16.25" (Allied-516) 10.25" (Allied-510)
Modular	Additional print station units may be added
Print head	Quick change: anilox and meter roll, doctor blade, ink pan, print cylinder
Print head adjustment	4-way
Print cylinder	Ball bearing
Web viewing area	At each print station
Lineal registration	360° running lineal registration; motorized
Lateral registration	Yes
Control panel	Individual per station
Dryers	Individually-controlled high velocity, air curtain system
UV Ready	All print stations

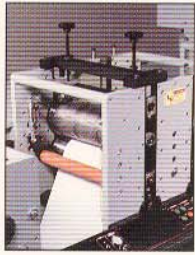
Diecutting/Sheeting Stations

Maximum repeat per station	28"
Maximum diecutting width	20.25" (Allied-520) 16.25" (Allied-516) 10.25" (Allied-510)
Modular	Dual diecutting stations available
Diecutting slots	2 diecutting, 1 sheeting
Lineal registration	360° running lineal registration; motorized
Lateral registration system	1 standard
Waste wind-up	Standard; 24" diameter; motor drive, angle stripping
Anvil rolls	6" diameter; all stations removable

Gearbox: German-engineered, phase shifter gearboxes are oil filled and fully enclosed for superior print registration and low maintenance. All gearboxes are coupled to the direct lineshaft drive, which is powered by a 15 HP motor.



Diecutting: Heavy-duty, hold-down bars and our patented, micro-adjustable steel-lined die slots top the list of real benefits. The slots adjust, allowing you to get a precise fit on the bearing blocks, even after years of use. Also notice the isolator nip, placed between print and diecut functions to effectively separate diecutting impact from affecting print quality.



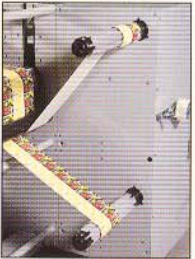
Inspection area: At the master control panel, there is a wide viewing area specifically designed to accommodate easy viewing and a video inspection system if desired. All registration controls are right at the operator's fingertips.



Waste wind-up: Our unique waste wind-up can rewind 24", has a capstan roll and separate motor to ensure constant tension, and can be rotated for angle stripping to help keep run speeds up during difficult stripping jobs.



Dual rewind: A 30" single rewind is standard, but full 30" and 40" dual rewinds can be ordered as an option.



Sheet metal: We enclosed the entire back of the press with our unique, no-tools-required removable panels for easy-access maintenance and operator convenience.

