

Annual Buyers' Guide To Automated Dispensing Systems

By ADR Staff

Arel Control Ltd.
Industrial Zone, 81101
Yavne, Israel

U.S. Sales Agent:
Strandberg Engineering
Laboratories, Inc.
Greensboro, NC 27405

Tel. (910) 274-3775
Fax (910) 272-4521

Dispenser—Arel's O.T.D. On-Time Dispenser is said to be a precision multi-component dosing system for liquids, offering dual system operation.

System provides gravimetric dosing to an open weighing chamber and from the chamber to a selected destination. This system combines modern feeding techniques and microprocessor based control for low weight chemicals, to ensure maximum reliability, safety and accuracy.

Another reported benefit is volumetric dosing to a selected destination. This system combines a high capacity, flow adjustable gear pump, accurate magnetic flow meter and microprocessor based control for fast transfer of high volume chemicals.

Minimum weighing weight: better than 50 grams (2 oz); maximum flow rate: 120 liters/min (30 gal/min).

Bespoke Computers Ltd.
Stockport Trading Estate
Yew Street, Heaton Mersey
Stockport SK42JZ, England

U.S. Sales Agent:
Ford, Trimble and Associates, Inc.
P.O. Box 1619
Cornelius, NC 28031

Tel. (704) 892-4466
Fax (704) 892-9944

Weighing System—Bespoke recipe-controlled Exact-Weigh weighing system for lab and production recipe creation, storage, retrieval, job creation, production costing, stock control. Linked controlled

weighing terminal. Control of powder/liquid weighing. Using bar codes and scanners software drives Exact-Weigh dispensing range.

2000—Top of the range dispensing for printing pastes. 48 or 72 valves, 30 flow rates, central actuator, 20 seconds per component, 30 tubs per hour, twin head mixer low paste carry over, individually designed tub automation—+ or - 0.1 gm, full color reuse.

2100ELS—Entry level printing paste dispensing. Lower cost system for the small printer. Maximum 48 valves in blocks of 12-2 stage valves central pin-3 position central actuator. Twin heads-28 tubs/hr. Twin head mixer, individually designed tub automation, 0.4 gm accuracy.

2100 Sample—Automatic dispensing of samples for print pastes. Maximum 48 valves, 2 stage valves central pin, 3 or 15 position central actuator, 30 pots/hr., fully automated pot handling and mixing, 0.04 g accuracy.

2100RD—Dispensing system feeding liquid dyes to continuous ranges. Gravimetric hands free dispensing of dyes from stock tanks to pad via mix tanks. Potential for zero discharge and full color reuse. Flexible design handles multiple ranges, 0.4 g accuracy, 48 valves maximum.

2100TDS—Feeding chemicals and pigments for padding on tenter ranges. Version used for feeding bleach range. Single or 2 stage valves for chemicals or dyes, 1 g accuracy chemicals 0.4 g colors.

2100CDS—Dispensing of dyes or chemicals into a dye house bucket. Feeding of chemicals or dyes into bucket controlled by either recipe system or stand alone.

Exact-Meter—Automatic metering of chemicals direct from storage or side tanks of batch dye machines. Chemicals fed direct to kitchen or side tanks. Pumped through flooded manifold controlled by flow meter. No limit on number of chemicals. Each manifold feeds up to 15 dye machines. Flow meter accuracy + or - 0.5%.

ColorService S.r.l.
Technologie Dosature Automatiche
Via IV Novembre
19-36030 Zugliano (Vi) Italy

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Symtech, Inc.
1-85 business Exit 7
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The systems are modular in design and can be added to as the plant capacity or need increases. ColorService can offer technology to cover all areas of color and chemical automation in the dyeing, finishing or printing field. Each area can be addressed individually or combined in a complete automated system. The major areas are:

Powder Dye Dispensing—An advanced system to handle the needs of any operation. The unit (TRS) comes in groups of silos of 10 dyes. This allows the system to handle all size operations for small (10 dyes) to large (over 100 dyes). The system is expandable to meet the need if more dyestuffs are added at a later date. The system is designed to handle weighings down to 0.5 grams. ColorService uses a patented powder dye delivery system which allows accuracy of 0.01 grams. The system is "self-learning" to increase the accuracy as each dye product will have different characteristics. Loading of the silos is done by a special individual vacuum line for each dye to assure no contamination of the products. Loading can be done while the system is in operation.

Automatic Dye Dissolving System-RBI—This system uses a robotic unit to transfer the weighed powder dye from the TRS to an automatic dissolving unit. This is achieved in a fully automatic mode that assures the correct water amount, water temperature and dissolving time by a special recirculation system that assures complete, uniform dissolving. This can be done with solutions normally in the 200-350 grams per liter range which helps maintain

required liquor ratios needed for today's low liquor dyeing technology. Multiple robot units can be used in a system to ensure absolutely no dye machine downtime waiting on recipes.

Liquid Dyestuff, Chemical and Auxiliary Dosing-DLV—Volumetric system to measure and send liquid chemicals to multiply destinations. The system can utilize a 2-arm distributor that is capable of sending 2 products or formulas to 2 locations simultaneously. This contributes greatly to increasing the flexibility and the ability to handle large numbers of dye or finish machines with 1 system. Accuracy is ± 10 cc.

DL—Gravimetric system to weigh liquid products and send them to multiply destinations. It also can utilize a 2 arm distributor to increase flexibility and efficiency of the system. Both electronic scales and load cells could be used with accuracy down to 0.1 grams.

Liquid Product Distribution System—ColorService offers a multi-line system that uses a dedicated line to each destination point. This is the only system that can assure no possibility of contamination between recipes. It also uses less system components to eliminate all maintenance needs in the distribution piping. This is a key point in assuring shade accuracy and reproducibility. This also assures the lowest possible maintenance costs of any system on the market.

Powder Chemical Dosing, Dissolving and Distribution-DAP—An automatic system to dose powder chemicals to be dissolved and transferred to multiple locations. This solves 2 problems: handling bags of chemicals, and dye bath liquor ratio. The system is capable of dissolving chemicals in a 1 to 1 ratio of product to water. This can be done automatically and sent to the correct destination without the handling of vast quantities of "bagged" chemicals.

Laboratory Dispensing-LAB T—A fully automatic laboratory unit for formulation work. The system is capable of precision of 0.01 grams which is about 10 times greater than current technology. It also eliminates the need for cumbersome tubing and solenoid valves. The unit has also overcome the problem of contamination of the recipe due to "leaking" solenoids by its unique double-valve system and linear design. A system is also included to make up the stock solutions and is integrated into the fully automatic design of the system.

High Accuracy Dispensing-MP—ColorService has developed the "Micro-Powder" powder dye system to be used in laboratory use with the Lab T or to be used

in super critical production applications. The unit can weigh dyes with a precision down to 0.001 grams. It also has an automatic compensation system to assure exact accuracy as requested by the recipe. The unit can be integrated with a fully automatic production system in conjunction with the TRS and RBI units in applications where extremely small weighings with high accuracies are needed.

Printing—ColorService has also developed unique systems for handling print paste applications. The system is capable of using both powder and liquid dyes with every phase computer controlled.

Datacolor International
3725 Beam Road
Charlotte, NC 28217

Tel. (704) 357-0400
Fax (704) 329-9925

Autolab Solution Maker—Autolab Solution Maker achieves fast and accurate dye and chemical stock makeup. It has a stainless steel dispense module which houses hot 90°C and cold 25°C water tanks, with dispense valves for coarse, medium and fine flow rates, and an electronic balance with readability of 0.01g and gravimetric accuracy of 0.02g/ $\pm 0.3\%$. It has a 6-position mixing station with magnetic stirrers. It is controlled by a PC workstation.

Autolab 32 Laboratory Dispenser—Autolab 32 is designed specifically for the small dyehouse, where minimal space exists, dye use is limited and throughput is of low priority, yet where quality, repeatability and accuracy are still very important. Four different water dispense valves permit accurate dispensing of water at the correct temperature. Enclosed dispense area, with precision electronic scale of 0.01g readability.

Autolab Dispenser Range—Autolab has a range of dispensers designed for quick and accurate dispensing of recipes and for a range of capacity requirements. Include are options from 72 to 128 dispensing positions, with single or twin turntables, and 12 positions per turntable.

Global Carolina, Inc
1200 Woodruff Rd, Unit B-18
Greenville, SC 29607

Tel: (864) 627-1840
Fax: (864) 627-9924

MCMDS—Mobile Mixing and Dispense

—dyes/chemicals system eliminates the sloppy transport of dyes/chemicals in the dye house. Dyes/chemicals can be loaded into the tank, and mixed by use of an air operated pump with the use of a stirrer which can cause shearing of the chemicals. The unit can then be transported to the dye machine, plugged into an air line and the dyes/chemicals can be safely dispensed into the dye machine. If the dye machine is not ready for the adds the unit can be allowed to circulate which will keep the dyes/chemicals completely mixed.

MSF 72 A—Mobile Salt Feeder—dry salt. This unit is totally air operated and can eliminate the unsafe handling of bagged salt. Salt is loaded into the stainless steel hopper by way of a bulk system or tote. The salt feeder is transported by a battery operated pallet truck and taken to the dye machine. The unit plugs into an air line and the salt can then be dispensed into the machine via stainless steel horizontal and vertical augers. The rate of feed can be controlled by varying the air rate.

Industrial Automation Systems S.a.S.
Via dei Baietti, 16
22077 Olgiate Comasco
Italy

Exclusive Sales Agent:
US/Canada

Zimmer Machinery USA
P.O. Box 5561
Spartanburg, SC

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Fax (864) 463-4670

Fast Color—Automatic dosing and dissolving line for powders, liquids, chemicals and thickeners, in one machine. This model contains its own humidity controls within the powder storage tanks. It can be installed anywhere in the plant.

H.P.S. Robotized Color Kitchen—The HPS has no dosing limits at all in the number of colors and thickeners to be dosed in a day. The system is composed of sectional elements that allow it to be custom-made for each customer's requirements. The overall adaptability of the system allows the dosing robots to work in a particular range of colorants, or in all ranges, and to dose both sampling recipes and production recipes.

Conceived as a mobile unit, it is composed of a robot equipped with a high precision balance that can perfectly dose both large and small amounts of sampling, and it can freely move around the plant to take the required amount of color from each

valve. the number of robots changes according to the number of recipes to be prepared in a day and it is independent of the size of the plant, which can be increased at any time by increasing the number of robots. Washing and air drying of the dispensing valve after each dispense maintains clean and uncontaminated valves for the next dispense.

Compact—No Problem Color Kitchen—Arrives in plant completely assembled on wheels and ready for operation, including the mixer and software for recipes. It can be installed and operated anywhere due to its drastically reduced dimensions; the longest model, with more than 60 colors, measures 20' x 7'2" x 7'2" wide. It needs no foundations or scaffolding for support and can easily be moved on its wheels. During the color charging, which is effected at the side of the machine, Compact does not stop working. It can prepare both production recipes up to approximately 200 lbs. And sampling recipes. The patented "Turbo Jet" system guarantees rapid and precise dosing and it keeps the dyes in motion to avoid their sedimentation. The mixer works automatically and it is controlled by the machine itself. To unload the bucket after the mixing procedure, there is an automatic elevator.

Washing and air drying of the dispensing valve after each dispense maintains clean and uncontaminated valves for the next dispense.

CDU Chemical Dispense Unit—Volumetric/flow meter measuring system, made out of stainless steel, suitable to meter the volume in real time and the real weight of the dosed product independent of concentration or temperature variations. One Lobe pump per system for extremely fast distribution of dosed chemical to dyeing and finishing machines.

Kinder Industrial Systems, Ltd.
Hyde Bank Mill, New Mills
High Peak, England SK22 4BP

Tel. 44(0) 1663-748400
Fax. 44(0) 1663-748409

US Sales Agent:

PSP Marketing, Inc.
P.O. Box 669145
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Fully automated computer based precipi-

sion dispensing equipment for finishing, de-sizing, bleaching, dyeing and paste manufacturing. Off center load cells accurately measure weight. Benefits include increased tenter utilization, improved quality, rapid testing of new recipes, accurate job and chemical consumption costing, rationalization of chemicals.

Kuans Micro-Auto Co., Ltd.
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Taiwan, R.O.C.

Tel. 886-3-3672980
Fax 886-3-3672982

Sales Office:

6F, 85 Sec.1 Tzg Chaung Road, San
Chung City, Taipei Hsien, Taiwan, R.O.C.

Tel. 886-2-9880199
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US Sales Agent:

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12931 Enterprise Drive
Garden Grove, CA 92643

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Powder Mate—Computer controlled dispensing system with large and small screw delivery mechanism. 100 liter or 150 liter capacity dye hoppers available in modules of seven (100l) or five (150l), complete with bucket robots, conveyors and recipe printer. Dimensions include

length that varies with the number of hoppers used, width of 7.2' and height of 9.5'.

Semi-Powder Mate—Separate manual weighing station interfaced with Powder Mate for weighing seldom used or exceptionally large/small quantities. Includes its own color display computer and two scales, with an accuracy equal to Powder Mate. Dimensions are 3.5' length, 2.7' width and 5.3' height.

Liquid Mate—Auxiliaries or chemicals dispensing system for production use. High accuracy, environment improvement. Dimensions are 2.7' length, 2.7' width, and 5.5' height. Another module is for resin finishing dispensing. To reduce unnecessary waste, keep solution fresh. It contains one weighing unit with dimension 3.5' width, 3.5 depth, 7.3' height. One main control box with 2.1' width, 2.6' depth, 4.9' height.

Küsters ColorSystems

927 S. Hamilton Street
Dalton, GA 30720

Tel. (706) 275-8008
Fax. (706) 275-9939

US Sales Agent:

Zima Corporation

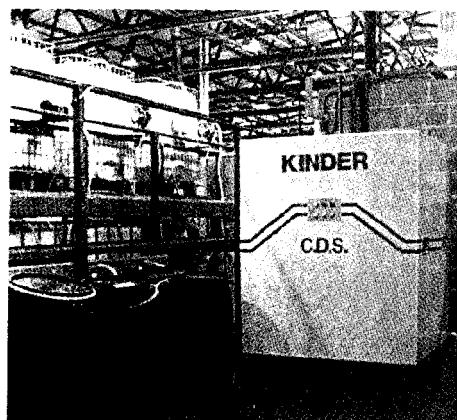
P. O. Box 6010
Spartanburg, SC 29304

Tel. (864) 576-5810
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Instacolor—Patented continuous flow metering and measuring system produces any specified shade from the primary color dyestuffs. First installed in the carpet industry in 1984, the Instacolor has a proven record of producing short lots, quick color changes, with almost no waste and drastically reduces wastage of dyestuffs and dyed roll inventories.

Instachem—Works as a stand alone system or in conjunction with the instacolor, this system allows the dyer to automatically meter the auxiliary chemicals used in the dyeing process, and allows shade specific formulations. The Instachem also eliminates the use of intermediate mix tank and left over formulations.

Instamix—On-demand mixing and accurate dispensing of chemicals for various applications. The software is designed to store and allow immediate recall of thousands of formulas. The Instamix makes adds (negative and positive) on the fly without interrupting production.



World Leading Precision Chemical Dispensing

...from Kinder brings improved product quality and profitability through reduced chemical wastage, fine tuning of recipes, consistent mixing, increased plant utilization, rapid production rescheduling, speedy new recipe testing, accurate costing and chemical usage rationalization. All these benefits accrue in:

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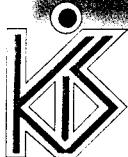
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J-Tex Corporation
8334-I Arrowridge Blvd.
Charlotte, NC 28273

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Fax (704) 527-7293

Supercolor—Computerized dispensing system for powder, granular and micropearl dyestuffs. The system features automatic dispensing from silos with a capacity of 100 ltrs, 200 ltrs. and 300 ltrs. Accuracy of weighing is 0.01 grams.

Dimensions: depending on total number of silos.

DST/COL—Computerized, semi-automatic dissolving system for powder, granular and micropearl dyestuffs with automatic dispensing to drugroom tanks or side tanks on dyeing machines. Size of system depends on number of dye recipes to be dissolved.

DBS—Computerized, fully automatic

dissolving system for powder, granular and micropearl dyestuffs with direct dispensing to drug room tanks or side tanks on dyeing machines. Size of system depends on number of dye recipes to be dissolved and dispensed.

DTS—Computerized full automatic dissolving system for LARGE quantities of powder, granular and micropearl dyestuffs with automatic dispensing to drugroom tanks or side tanks on dyeing machines. Size of system depends on number of dye recipes to be dissolved.

Dyematic—Computerized Full Automatic Dye Weighing and Dissolving System for powder, granular and micropearl dyestuffs with automatic dispensing to drugroom tanks or side tanks on dyeing machines. The Dyematic System consist of a Supercolor one or more DBS and or DTS Dissolving System, together with Bucket Handling Robot, model MSA, a Bucket Storage System model MGS an a Bucket Rinsing System, model LGS.

Dimensions: Depending on total number of Silos on Supercolor and number of Dissolving Systems DBS & DTS.

Silomat—Computerized Full Automatic System for Weighing and Dissolving of powder, granular, and micropearl dyestuffs as well as powder chemicals with auto-

matic dispensing to drugroom tanks or side tanks on dyeing machines.

Number of Silos: 2-16 with a capacity of 500 ltr. each.

DOS/CHEM—Computerized Full Automatic Volumetric Dispensing System for Liquid Chemicals and Auxiliaries as well as Liquid Dyestuffs (5-60 products) with direct dispensing to drugroom tanks or side tanks on dyeing machines.

Dimensions: depending on number of products, but generally having a length of 5-15 ft, a width of 3 ft and a height of 4 ft.

L.E.I.M.S.—Fully integrated Management Software Package for integrating the above listed Systems. The L.E.I.M. S. System may be connected to a Central Computer System for Dyehouse Scheduling, Recipes Management and Inventory Control.

Leopoldo Pozzi S.p.a.

20040 Agliate di Carate

Brianza (MI)

Italy

Tel. 0362-901

Fax 0362-901.635

Chemical Dosing—Company offers Dosatex as the module of the Wintex sys-

Get in Control with the Lab Management System

PC Networked Software specially designed to maximise the efficiency of the Textile Laboratory

FEATURES

- Links to management works orders
- Automatic download of best predicted recipes
- Multiple lab dye attempts
- Links to lab dye dispensers
- Records and reports on status of lab work (required-matching-submitted-accepted-rejected)
- Produces submission documentation
- Produces filing documentation
- Test reports to clients design
- Lab to Bespoke production recipe team

BENEFITS

- Increase in lab production throughput
- Increased customer satisfaction
- Current information at a key stroke
- Seamless link from lab to production

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BENEFITS

- Controlled weighing of powders
- Automatic dispensing for printing-dyeing-finishing
- Integration third party computer system
- Integration to CMP and dye machine management systems

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tem for chemical dosing. Dosatex consists of at least two software modules plus the necessary hardware for metering and distributing of chemicals. Software interfaces with different types of metering and transfer hardware and, even in the same application, allows for the mixing of different technologies. For example, a single-pipe distribution system for auxiliaries and a multi-pipe distributor for acids can be used on the same target machine.

Ozark Systems
Roundhill, Hollins Road,
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Ozark Systems are suppliers of dispense systems for color and chemical applications. All systems are individually designed, manufactured, installed, commissioned and maintained by Ozark Systems, and are built to the highest industry standards.

Color dispense Systems—Sophisticated, custom-designed units which are fully computer controlled and utilize the patented Ozark dispense valve. Available with fully automatic conveying, mixing and washing facilities, and are fully upgradeable using customized software and built-in expansion capability.

Accuracies of ± 1 gram are achievable, with batch sizes ranging from 10Kg to 300Kg. Typical throughput for a 120Kg batch of 5 components, from empty container to complete mixed batch, is $2\frac{1}{2}$ minutes. All systems are PC controlled and are individually configured to customers' individual requirements. System software is easy to use and can include re-use of returned color, production and management reporting, and on-board diagnostics. Integration with existing color management software is also possible.

Dispense Valve—Offers reliability and repeatability over a wide range of viscosities and material types. Three models are available in the range to cover all requirements from sampling to production dispensing. A multi-stage design, it incorporates a coaxial flow pattern which reduces the problems of spray and spatter, particularly with low viscosity liquids. The valve

can be retrofitted into existing systems and each unit carries a two-year warranty.

CD200 Gravimetric Chemical Dosing System—This system offers the user a completely automated dispensing system to supply chemicals and liquid dyestuffs supplied directly from chemical containers, with built-in mixing and washing facilities. The system is PC controlled, and utilizes the patented Ozark Dispense valve. Typical applications are tenters ranges, wash ranges, and bleach ranges.

CD60 Gravimetric Chemical Dispenser—A cost-effective system enabling the user to control dispensing of a number of products completely automatically. Weighing of between 1 and 24 components in any formula is possible, since the unit is available with up to 24 dispense valves. The unit offers savings in material handling and wastage, consistency of product and reductions in effluent costs as well as reductions in machine downtime and manpower. A typical application for this system is a small package dyehouse.

Volumetric Chemical Dispensing—A volumetric system of dosing chemicals to dye machines, wash ranges, bleach ranges, etc. Material is supplied direct from suppliers' containers to the system, which then incorporates full washthrough following dispensing. Control is via a PC, with integration to dye machine controllers. Systems incorporating dye distribution are also available.

Checkweigh System—For powder dye dispensing applications. This system utilizes bar code scanning technology and integrates fully with all Ozark dispensing systems.

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Charlotte, NC 28227

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Dispenser—The patented DVS system (Rapid Volumetric Dispensing System) presented at ITMA in '95 is a combination of precision mechanics, electronic technology, advanced information technology. System improved by adding three more

patents that also concern a new type of valve that simplifies the entire system of unification of the products in a single block, a dispensing system with almost perfect accuracy (in practice, the error is undetectable), and a system of transportation that makes use of a minimum amount of added water.

The new modular DVS central units (patented) are constructed entirely in AISI stainless steel including all the pipes, joints, valves and other parts that come in contact with the liquids to be dispensed.

Any kind of dye products, either liquid form or emulsified powders, can be dispensed without problems.

Owing to the rapidity of the DVS system, in a few minutes as many as 30-40 users can be served very quickly (one minute per machine).

The patented DVS machine also takes up very little space (200 cm x 200 cm height x 80/160 cm depth), is a multi-pipe system (that is, one pipe for each user) that needs, consequently, no valves or contacts whether inside or outside of the central unit. It can draw products, acids, dyes and anything else directly from the suppliers' drums located anywhere.

The system is controlled by an MK3 New Age industrial computer by S.A.T.E. that provides for all functions, control of the functions and diagnostics for the entire system. It is enabled for connection with the S.A.T.E. service system via modem.

Scholl Microsystems
4201 Taggart Creek Road,
Suite 110
Charlotte, NC 28208

Tel. (704) 392-4444
Fax (704) 392-5200

US Sales Agents:

-McAlister International
-Kennco Inc.
-Coast Chemical
-C.A. Kennedy Inc.

ChemStar—A PC based dispensing system capable of dispensing to ranges, pads, jets, etc. Sixty chemicals, sixty-four (64) destination, three measuring heads, and nine distribution paths constitute a maximum configuration. Chemicals can be located in different areas as far away as 300 feet in tanks, totes, or barrels. Chemicals can be delivered 300 + feet to destinations. It provides a formulation library, job queuing, history and usage tracking. Most operators learn the system in 2 or less hours.

EcoRange—A PC based range/tank control system which monitors chemical pickup throughout the application so that usage of chemicals on a per lot basis can be tracked and reported. This system communicates directly to a ChemStar system to insure timely delivery of chemical automatically. At the beginning of each style, the operator selects the required chemical drop, enters the cloth yardage and the system will do the rest.

P.D.S.-Powder Dissolving System—This system reduces the problems associated with dye dissolving. Delays, clumps, temperature variants, and losses to spillage are all eliminated. It may also be used to dissolve other powders, i.e. soda ash, fine grained salts, etc. The system has a dissolving procedure for each type of powder and the end user may write additional procedures to his needs. Once a powder is dissolved, it is delivered to a destination automatically. Clean-up worries are a thing of the past.

Softrol Systems, Inc
4867 North Main Street
Acworth, GA 30101

Tel. (770) 974-2700

Fax (770) 974-0435

ChemPulse Chemical Injection System—Provides automation of chemical injections to a process. The ChemPulse interfaces to the MicroPulse Machine Controller from Softrol and allows the control of up to 16 chemicals per machine. The system is completely modular, so that maintenance or repairs may be completed for specific parts of the system without having to shut down an entire operation.

ChemPulse Catalyst System—Unit is a chemical metering and injection system that provides liquid chemicals to multiple machines. The ChemPulse Controller interfaces to any type of machine controller that provides a digital chemical output. The system can be customized with the flexibility of serving up to 12 machines with a possible 16 chemicals. The catalyst is available with system redundancy to eliminate washroom downtime. The redundant option allows peace of mind that is often compromised with a centralized chemical system.

PulseNet Chemical Injection Module—This software package is a complete information management program for the ChemPulse Catalyst System. Any type of controller can be networked on the system

through the catalyst Controller and a PC for monitoring machine efficiency, chemical usage, machine status, and other important production information.

Catalyst Tunnel Washer system—System is a variation of the of the Catalyst which will inject 12 chemicals to as many as eight different modules simultaneously.

Combining technologically advanced features and durable construction. Catalyst systems will run continuously, even in the most demanding manufacturing/production environments. A wide variety of chemicals can be injected with an accuracy better than 5%.

The Catalyst System enables plant automation and control of important chemical injections with superior precision and accuracy. The system uses flow sensor metering technology combined with an alarm (or watchdog) system that monitors each injection. It ensures that chemicals are injected accurately and quickly, and that no excess chemical enters the machine. The flow meter provides proof of injection and water flush verification.

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Spartanburg, SC 29304

Tel. (864) 576-5810
Fax (864) 587-5711

Laboratory Dispensers—Automated units are Dosorama 60/12-160/24-200/32 liquid gravimetric types with +/-0.01 cc accuracy; Dosorama V/80-V/120 liquid volumetric types with +/- 0.01 cc accuracy; Dosorama S/32-S/54 liquid and powder gravimetric types with +/- 0.001 g. accuracy; and, the Solutions Maker.

Production Dispensers—Automated units are Dosorama LP/28 up to LP/98 powder gravimetric types with +/- 0.01 g accuracy; Dosorama MP/4 up to MP/20 powder gravimetric types with +/- 1 g accuracy; Dissolving Station to dye machines; and, Dosorama MV/10 up to MV/50 liquid volumetric types, 1% accuracy to dye machines.

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Powder Dyestuffs—DPA 93 Unit for powder dyestuffs inclusive of 20 PVC powder loading tubes, whose maximum rate of dispensing is 4 kg/min, with a capacity of 90 liters each; automatic dispensing of drums is via motorized roller conveyor belts. Overall dimensions of the Unit include diameter of 2340 mm, height of 3980 mm (PVC powder loading tubes included).

Color Kitchen—DPA 91 is a Color Kitchen for the printing application. Each dosing head can hold up to 40-60-72 products. Maximum rate of dispensing is 12 drums H. of dye pastes (mixing phase included). Capacity is according to the number of dye families to be weighed. Automatic dispensing from empty to full drum accomplished with motorized roller conveyor belts. The overall dimensions vary, depending upon the requirements of each customer.

Automated Unit—Automated Dosing of chemicals and auxiliary products into the dye machine is accomplished with speed as low viscosity, from 200-500 cps: 30 liters/min; capacity from 10 to 30 liquid products, according to customer requirements. Automatic dispensing in stainless steel size DN 15 pipe equipped with 3-way valves for product distribution. The overall dimensions of the dosing unit are 2000 mm length, 1000 mm width, and 1000 mm height. The dimensions of the electrical board are 450 mm length, 1000 mm width and 1850 mm height.

DPA 95—The chemical dosing system. Designed to be the simplest, most reliable chemical dispenser on the market. The DPA 95 incorporates ease of operation and compact design, with new ideas and technologically advanced components. The distinguishing characteristic of the DPA 95 unit is the use of a single dosing pump and one distribution line with interception at each usage point to deliver as many as 45 chemicals in series to the required destination. The measuring of all components is achieved by volumetric flow. The standard flow instrument is an inductive flow magnetic flow meter. In cases where there are products present that exhibit poor electrical conductivity, a mass flow meter is installed. Metering accuracy is a function of the readability of the meter, the speed of flow from the pump. The delivery speed is varied depending on the remaining quantity to be weighed. With this method we can achieve accuracy of +/- 10cc at an average deliv-

ery rate of 40 L/min. the compact unit is 2 meters long and 1 meter wide and can be used to serve continuous dyeing, discontinuous dyeing, and finishing applications. Options include integration with existing host systems for complete automation.

**Then Maschinen-
and Apparetebau GmbH**
Postfach 40 01 71
D-74510 Schwabisch Hall
Germany

Tel. 49-791-4030
Fax 49-791-403166

US Sales Agent:

PSP Marketing, Inc.
P.O. Box 66 91 45
Charlotte, NC 28266

Tel. (704) 357-1162
Fax (704) 334-2090

Then CKM-Color Kitchen Manager:

Chemical dispenser CHD—For fast and accurate dispensing of liquid products directly to dye machines.

Automatic dissolving Station ADS—One unit of 3 mixing tanks to supply up to 15 dye machines.

Check Weighing System—For computer controlled weighing of products.

Interfaces—To machine controllers, hosts, formula management and mainframe systems.

Thies Corporation
P.O. Box 2875
Rockhill, SC 29732-4875

Tel. (803) 366-4174
Fax (803) 366-8103

M.P.S. Chemical Feeding System—Designed to handle up to 30 different chemicals in liquid form delivered to 20 individual machines. Unit is self contained and mounted in a stainless steel cabinet, to which inlet lines are connected for the chemicals and rinsing water, and outlet lines to distribute the products to the respective machines. System is based on volumetric metering with a positive displacement pump. It can be self-contained or fully integrated in dyehouse management systems.

VanWyk Corporation
P.O. Box 2875
Rock Hill, SC 29732-4875

US Sales Agent:

Thies Corporation
485 Bryant Blvd.
P.O. Box 2875 CRS
Rock Hill, SC 29732

Tel. (803) 366-4174
Fax (803) 366-8103

Automatic dispensing systems offered by the company include:

APD—The Automatic Powder Dispenser is said to be both flexible and rapid (5 g to 5 kg/min) with high accuracy (+0.01 g, +0.1 g) for dispensing solid dyestuffs and chemicals. With technical license from Ciba-Geigy, the APD is available from 15 up to 150 components and can be integrated with a liquid dye dispenser. Dimensions are an approximate 20' length, 6' width and 10' height (with 45 components).

DCD—The Direct Compact Dispenser provides up to 48 dispense positions for liquid dyestuffs and chemicals from fixed tanks or supplier drums. Optional ATD head for up to 8 thickeners and 1 water. Up to 20 batches per hour from 15 to 150 kg. Dimensions approximate 24' x 12' x 6'.

CDL—Compact Dispense Line provides up to 200 dispense positions for liquid dyestuffs and chemicals from fixed tanks or supplier's drums. Can be configured with separate ATD head for thickeners and water. Batch size up to 200 liters. Dimensions dependent on number of dispense positions, but design is very compact.

OCD—The Online Chemical Dispenser is used for automatic gravimetric preparation of liquid chemicals for continuous and discontinuous applications. Up to 30 components plus water with high speed mixer, optional 8 additional large valves for bulk quantities. Dimensions are approximately 6' x 5' x 7'.

UCD—The Universal Compact Dispenser is used for semi-automatic preparation of liquid dyestuffs and printing paste for samples and small batches. Up to 48 valves dispensing from either 30 or 90 liter tanks. Batch size of 8 Kg and 15 Kg. Dimensions are approximately 7' x 3' x 5'.

VDU—The Volumetric Dosing Unit is for dosing of up to 19 liquid components for printing, pretreatment, dyeing and finishing. Self priming centrifugal pump with flow rates from 5 to 80 liters per minute. Dimensions are approximately 4' x 2' x 3'.

ISP—Software package enables total automation of dyehouse interfacing with all types of hosts and dye machine controllers.