

corob

NOVAFLOW Modular Systems for Printers



COROB —

We Bring Color to Life

Headquartered in San Felice, sul Panaro (Modena, Italy), COROB is a leading provider of intelligent point-of-sale and in-plant production solutions that range from stand-alone dispensers and mixers to fully-automated, integrated end-to-end systems. COROB product capabilities include tinting, dosing, dispensing, filling, and blending of paint, coatings, ink, chemicals, additives, and other liquids.

With 35 years of experience, COROB has not only mastered color excellence, we have unleashed our vision to see solutions that have revolutionized companies around the world. We have a rich, full history of product development. This is a result of our active, hands-on approach and relationships with customers as well as our commitment to intense research and development.



COROB Service Team —

We Take Care of the Details

COROB complements its broad product line with extensive installation and maintenance capabilities. Our 24/7 service network ensures that COROB customers receive unparalleled support when and where they need it. COROB-certified technicians are expertly trained and qualified to service COROB equipment, no matter what the issue. They are prompt, courteous, and always prepared to provide basic proper-use training to any associate. And, if there is an immediate need, our service technicians can provide remote diagnostics to troubleshoot any issue.

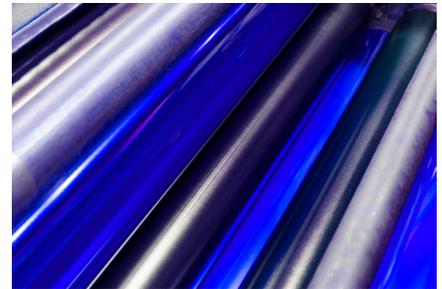


NOVAFLOW —

Systems and Software for Printers

NOVAFLOW dispensing systems have operated in the printing industry for over 25 years. Our equipment works in a wide range of applications, including flexo, gravure, silk screen, and lithographic processes. The flexibility of our hardware and software allows us the opportunity to build systems for printers that suit specific needs and budgets.

Coupled with in-house developed Enterprise Material Management Software (EMMS), NOVAFLOW equipment provides a safe, reliable, and effective solution that reduces costs and improves operating efficiencies. In addition, printers achieve more accurate batch manufacturing results, which reduces waste and improves production times.



NOVAFLOW —

Solutions that Deliver Operational Excellence

Whether a folding carton, label, flexible packaging, screen or commercial printer, NOVAFLOW dispensing systems provide efficiencies and enhance quality levels. With a NOVAFLOW system, printers can produce ink in-plant and on demand. Certified colors reside in the system's database, allowing operators to simply create the same formulations over and over again. And, NOVAFLOW EMMS material re-work or work-off program enables operators to work off redundant or slow moving color by selecting formulations then allowing the computer to search existing inventory for inks that can be used for re-formulations.

NOVAFLOW equipment has an exceptional reputation and proven track record for delivering not only value but operational excellence. We offer systems that range from entry level to very large systems that can operate in hazardous environments. And, our service network is always available to support installed NOVAFLOW systems.

ENTERPRISE MATERIALS MANAGEMENT SOFTWARE

INK MANAGEMENT SOFTWARE	LEVEL 1	LEVEL 2	LEVEL 3
Material management	•	•	•
Formula management	•	•	•
Design management		•	•
Work order management		•	•
Manual manufacture of inks	•	•	•
Raw material inventory	•	•	•
Formula inventory	•	•	•
Formula revision traceability		•	•
Container inventory			•
Manufacturing lot traceability	•	•	
Manufacturing lot traceability (validated)		•	•
Raw material consignment traceability			•
VOC reporting (generic)		•	•
VOC reporting by press			•
Ink traceability by press		•	•
Press specifications and setup		•	•
Specify substrate being printed		•	•
Raw material order management	•	•	•
Workoff inks	•	•	
Workoff multiple containers of ink			•
DISPENSER			
Dispense inks by item	•	•	•
Dispense inks from a production schedule		•	•
Dispense inks from an external source		•	•
Create and dispense a formula on the fly		•	•
Directly issue an existing ink to a work order		•	•
Return an ink back into inventory	•	•	•
OPTIONAL FEATURES			
Adjust formula strengths as dispensed		•	•
Group jobs for usage reporting		•	•
Generate reports and email per schedule		•	•
Import / export formulas		•	•
Record press downtime per job		•	•
HAND HELD WI-FI DEVICE FEATURES			
Access Wi-Fi based local database via web-based browsers			•
Single container inventory query and adjustment			•
Manual combining multiple containers into single workoff container			•
Single issuing container to work orders			•
Single returning container from work orders			•
Perform stock checks by location			•
Delivering stocks (containers) into inventory			•

N10S: WATER-BASED SOLUTIONS

N10S

N10S is a low cost, entry level, full-featured formula management manual batch blending and compounding system. The complete stand-alone system includes a Dell computer, Level 1 Enterprise Materials Management Software, Zebra printer, 1-D barcode scanner, and an electronic Ohaus 60 lb. scale. The operator simply selects the desired formula, then the system directs the operator with feedback on how much of each component to add.

Core operating features include:

- Graphical assistance during the weighing progress
- Automated re-formulation on accidental component additions
- Drivers for a wide range of label printers
- Optional smart scale for "hands-free" batch blending
- Material and formula databases
- Multi-user network access and remote off-site access
- Hardware for non-hazardous applications



N20 ULTRA: BEST VALUE

N20 ULTRA

The N20 ULTRA is a cost-effective system designed to provide fully-automated dispensing without a major capital outlay. Designed specifically for narrow web applications, N20 ULTRA is ideal when producing jugs, one-gallon cans or five-gallon pails that require a high degree of accuracy and repeatability.

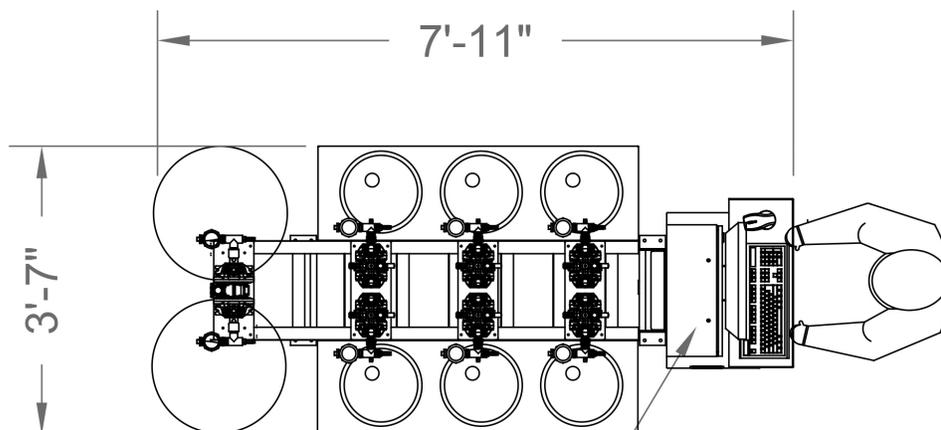
A fully functioning unit installs in only a few hours. All pneumatic, electrical, and fluid connections are shipped fully connected for simple assembly. The computer, pneumatic, and electrical hardware are housed in a NEMA 4 cabinet for protection against environmental elements.

Up to a maximum of 14 components can be dispensed using the exclusive, but very economical COROB dispensing valve. This electrically-integrated nozzle valve offers:

- Extremely accurate dispensing
- No line purging needed, saves time/ingredients
- No-drip nozzles with recirculation at the tip, reduces hose clogging
- Automatic nozzle head cleaner cuts maintenance time; operators simply perform a daily manual wipe

N20 ULTRA includes:

- 12 buckets plus 2 drums
- NOVAFLOW Level 2 Enterprise Materials Management Software
- Dell computer
- Ohaus 60 lb. scale
- NEMA 4 enclosure



- 120V, 10A Power Supply
- 90 PSI, 35 CFM Dry Air Supply
- Internet Access

Small Batch Sizes | Narrow Web Applications | Simple Installation

N20/N30: WATER-BASED SOLUTIONS

N20 and N30

The N20 and N30 are high-accuracy, multi-purpose automated dispensing systems for non-classified (non-hazardous) areas. Designed to cover a wide range of production needs, including high volume, fast fill, and small custom batches, these systems dispense using high-accuracy dispensing valve technology.

Drawing ink from pails, drums, bulk totes, or fixed tanks, the systems can accurately dispense up to 28 components into a wide variety of batch sizes from pails to drums using multiple scales, ensuring the highest precision possible regardless of batch size.

N20 incorporates SelectFlow two-stage, stainless steel valves. With SelectFlow valves, the system is configured for either flow rate or accuracy, or any combination of the two. This flexibility is ideal for small batching facilities that focus on cost and accuracy or for large batch manufacturing that require speed and volume.

N20 and N30 includes:

- NOVAFLOW Level 2 Enterprise Materials Management Software
- Dell computer
- Mettler Toledo scale
- Semi-automatic valve cleaner
- NEMA 4 enclosure



SelectFlow Valve

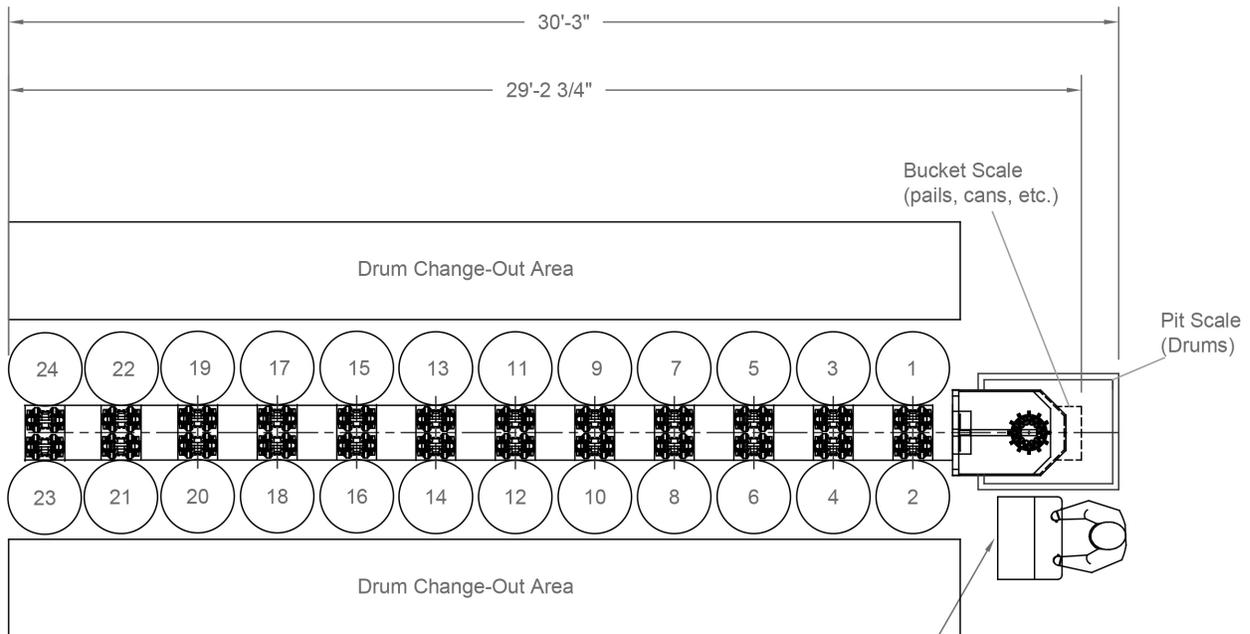


MultiFlow Valve



N30: SUPERIOR VALVE TECHNOLOGY

The N30 incorporates MultiFlow four-stage, stainless steel valves. With a MultiFlow valve, operators can use a smaller aperture for ultra fine dispensing amounts. MultiFlow valves optimize dispense speed and dispense accuracy in unison, offering unparalleled accuracy batch after batch.



- 120V, 10A Power Supply
- 90 PSI, 35 CFM Dry Air Supply
- Internet Access

N40/N50: SOLVENT-BASED SOLUTIONS

N40 and N50

N40 and N50 are high-accuracy, automated dispensing systems for a hazardous environments; the machines are electrically grounded, meeting FM Class 1, Division 1 standards.

Drawing ink from pails, drums, bulk totes, or fixed tanks, standard N40 and N50 systems can accurately dispense up to 28 components into a wide variety of batch sizes, including pails, drums, and bulk totes using multiple scales. Upon request, N40 and N50 systems can dispense up to 96 components

N40 and N50 includes:

- NOVAFLOW Level 2 Enterprise Materials Management Software
- Dell computer
- Mettler Toledo scale*
- Semi-automatic valve cleaner
- NEMA 4X cabinet with X-Purge system

*Optional weighing bases are available from 6 kg to 1500 kg

N40

N40 incorporates SelectFlow two-stage, stainless steel valves. With SelectFlow valves, the system is configured for either flow rate or accuracy, or any combination of the two. This flexibility is ideal for small batching facilities that focus on cost and accuracy or for large batch manufacturing that require speed and volume.



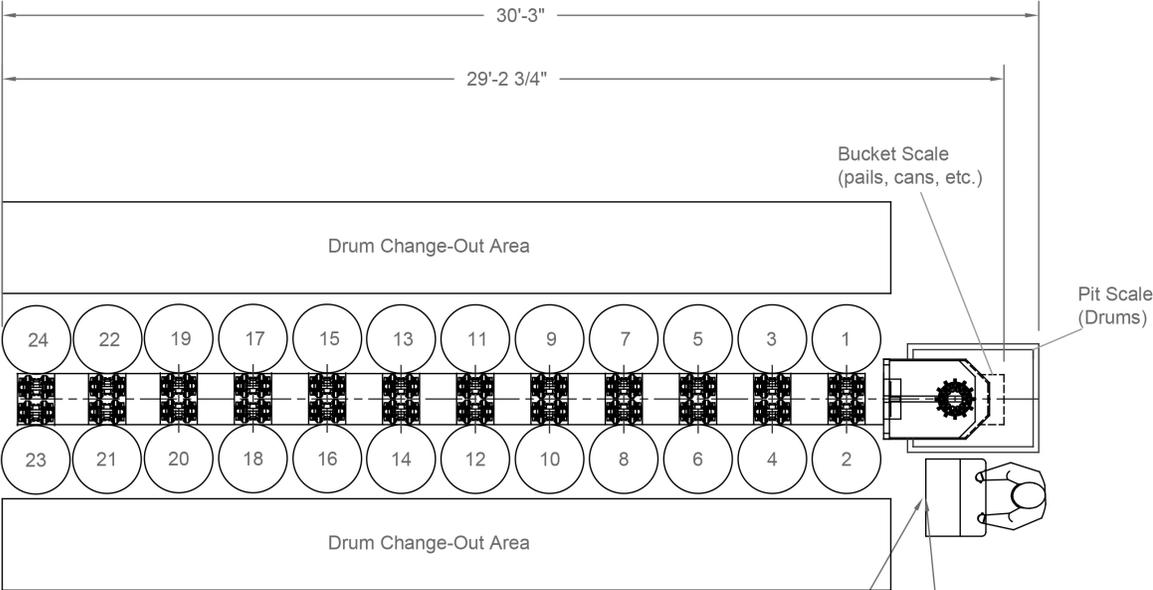
Small Batching, High Accuracy | Large Batching, Low Accuracy | SelectFlow Valves

N50: SUPERIOR VALVE TECHNOLOGY

N50 is for medium and large batching operations that require fast dispensing as well as extremely high accuracy weighing regardless of the batch size. N50 incorporates MultiFlow four-stage, stainless steel valves. With a MultiFlow valve, operators can use a small aperture for ultra fine dispensing amounts. MultiFlow valves optimize dispense speed and dispense accuracy in unison, offering unparalleled accuracy batch after batch.



Manifold Valves



- 120V, 15A Power Supply
- 90 PSI, 50 CFM Dry Air Supply
- Internet Access

N10SX: SOLVENT-BASED SOLUTIONS

N10SX

Designed for hazardous environments, N10SX is a low cost, entry level, full-featured formula management manual batch blending and compounding system. The N10SX is electrically grounded, meeting FM Class 1, Division 1 standards. The complete stand-alone system includes a Dell computer, Level 1 Enterprise Materials Management Software, weigh scale, and a NEMA 4X cabinet with X-Purge system. The operator simply selects the desired formula, then the system directs the operator with feedback on how much of each component to add.

Core operating features include:

- Graphical assistance during the weighing progress
- Automated re-formulation on accidental component additions
- Drivers for a wide range of label printers
- Optional smart scale for "hands-free" batch blending
- Material, formula, and work order database
- Environmental reporting
- Multi-user network access and remote off-site access
- Hardware for hazardous applications



TECHNICAL DATA: STANDARD CONFIGURATIONS

	N10S	N20 ULTRA	N20	N30	N10SX	N40	N50
Environment	Non-hazardous	Non-hazardous	Non-hazardous	Non-hazardous	Hazardous	Hazardous	Hazardous
Application	Manual blending	Water and UV-based ink	Water and UV-based ink	Water and UV-based ink	Manual blending	Solvent ink	Solvent ink
Supply	NA	12 buckets and 2 drums	12, 16, 20, 24, 28+	12, 16, 20, 24, 28+	NA	12, 16, 20, 24, 28+	12, 16, 20, 24, 28+
Production	NA	2–4 minutes for one gallon	4–6 minutes for five gallon	3–5 minutes for five gallon	NA	4–6 minutes for five gallon	3–5 minutes for five gallon
Accuracy 60 lb. scale	± 1 gram (± 0.002 lbs.)	± 1 gram (± 0.002 lbs.)	± 0.5 grams (± 0.001 lbs.)	± 0.5 grams (± 0.001 lbs.)	± 1 gram (± 0.002 lbs.)	± 0.5grams (± 0.001 lbs.)	± 0.5 grams (± 0.001 lbs.)
600 lb. scale			± 1 gram (± 0.002 lbs.)	± 1 gram (± 0.002 lbs.)		± 1 gram (± 0.002 lbs.)	± 1 gram (± 0.002 lbs.)
Pump	NA	1/4"	1/2" and 1"	1/2" and 1"	NA	1/2" and 1"	1/2" and 1"
Valve	NA	COROB valve	Two-stage, SelectFlow valve	Four-stage, MultiFlow valve	NA	Two-stage, SelectFlow valve	Four-stage, MultiFlow valve
Valve cleaner	NA	NA	Semi-automatic	Semi-automatic	NA	Semi-automatic	Semi-automatic
Software	Level 1	Level 2	Level 2	Level 2	Level 1	Level 2	Level 2
Scale	Ohaus	Ohaus	Mettler Toledo	Mettler Toledo	Mettler Toledo	Mettler Toledo	Mettler Toledo
Cabinet	NA	NEMA 4 cabinet	NEMA 4 cabinet	NEMA 4 cabinet	NEMA 4X cabinet with X-Purge system	NEMA 4X cabinet with X-Purge system	NEMA 4X cabinet with X-Purge system
Includes	Level 1 EMMS, Dell PC, Zebra printer, 1-D barcode scanner, UPS, and scale	Level 2 EMMS, Dell PC, scale, nozzle cap, and adjustable shelf	Level 2 EMMS, Dell PC, scale, and semi-automatic valve cleaner	Level 2 EMMS, Dell PC, scale, and semi-automatic valve cleaner	Level 1 EMMS, Dell PC, and scale	Level 2 EMMS, Dell PC, scale, and semi-automatic valve cleaner	Level 2 EMMS, Dell PC, scale, and semi-automatic valve cleaner
Other		1/2" air line at 90 psi, 110V, and remote access connection	Optional automated valve cleaning system, scale options, and remote access connection	Optional automated valve cleaning system, scale options, and remote access connection		Optional automated valve cleaning system, scale options, and remote access connection	Optional automated valve cleaning system, scale options, and remote access connection



COROB SERVICE NETWORK

