

# HERO

MAKE INNOVATION

## DATA SHEETS

EMEA DIVISION



# A100

ARCHIMEDE  
FAMILY



## TECHNICAL FEATURES

<b>Dosing system</b>	Volumetric sequential (or gravimetric for laboratory applications)
<b>Number of circuits</b>	Up to 16
<b>Dosing principle</b>	Progressive Cavity Pump (PCP)
<b>Canisters capacity</b>	2 Litres
<b>Maximum flow rate</b>	0,2 L/min (data influenced by the viscosity of the colourants)
<b>Average precision</b>	+/-1% (data influenced by the viscosity of the colourants)
<b>Minimum dosing quantity</b>	1/1000 fl. oz. (0,03 ml) (data influenced by the viscosity of the colourants)
<b>Nozzles closing system</b>	Automatic watertight humidifier cap
<b>Can positioning</b>	Manual
<b>Minimum can height</b>	No limitation
<b>Maximum can height</b>	445 mm
<b>Maximum dimensions</b>	W 670 x D 610 x H 700 mm
<b>Weight</b>	70 kg
<b>Power supply</b>	230/115 V AC 50/60 Hz



**ARCHIMEDE  
FAMILY**



# A110



## TECHNICAL FEATURES

<b>Dosing system</b>	Volumetric sequential (or gravimetric for laboratory applications)
<b>Number of circuits</b>	Up to 16
<b>Dosing principle</b>	Progressive Cavity Pump (PCP)
<b>Canisters capacity</b>	2 Litres
<b>Maximum flow rate</b>	0,15 L/min (data influenced by the viscosity of the colourants)
<b>Average precision</b>	+/-1% (data influenced by the viscosity of the colourants)
<b>Minimum dosing quantity</b>	1/1000 fl. oz. (0,03 ml) (data influenced by the viscosity of the colourants)
<b>Nozzles closing system</b>	Automatic watertight humidifier cap
<b>Can positioning</b>	Manual
<b>Minimum can height</b>	No limitation
<b>Maximum can height</b>	445 mm
<b>Maximum dimensions</b>	W 702 x D 659 x H 1129 mm
<b>Weight</b>	88 kg
<b>Power supply</b>	230/115 V AC 50/60 Hz



**ARCHIMEDE  
FAMILY**



# A201-A251



## TECHNICAL FEATURES

<b>Dosing system</b>	Volumetric sequential (A201) Volumetric simultaneous (A251)
<b>Number of circuits</b>	Up to 24
<b>Dosing principle</b>	Progressive Cavity Pump (PCP)
<b>Canisters capacity</b>	2,5 Litres
<b>Maximum flow rate</b>	0,2 L/min (data influenced by the viscosity of the colourants)
<b>Average precision</b>	+/-1% (data influenced by the viscosity of the colourants)
<b>Minimum dosing quantity</b>	1/1000 fl. oz. (0,03 ml) (data influenced by the viscosity of the colourants)
<b>Nozzles closing system</b>	Automatic watertight humidifier cap
<b>Can presence</b>	Photocell
<b>Can positioning</b>	Manual
<b>Minimum can height</b>	No limitation
<b>Maximum can height</b>	410 mm
<b>Maximum dimensions</b>	W 800 x D 800 x H 1.150 mm (16 canisters version) W 880 x D 880 x H 1.150 mm (24 canisters version)
<b>Weight</b>	145 kg (16 canisters version) 205 kg (24 canisters version)
<b>Power supply</b>	230/115 V AC 50/60 Hz



**EUREKA  
FAMILY**

# A400-A450





## TECHNICAL FEATURES

<b>Dosing system</b>	Volumetric sequential (A400) Volumetric simultaneous (A450) Gravimetric sequential (A400) Gravimetric combined (A450)
<b>Number of circuits</b>	Up to 32
<b>Dosing principle</b>	Progressive Cavity Pump (PCP)
<b>Canisters capacity</b>	3-5 Litres
<b>Maximum flow rate</b>	0,3 L/min (data influenced by the viscosity of the colourants)
<b>Average precision</b>	+/-1% (data influenced by the viscosity of the colourants)
<b>Minimum dosing quantity</b>	1/1000 fl. oz. (0,03 ml) (data influenced by the viscosity of the colourants)
<b>Nozzles closing system</b>	Automatic watertight humidifier cap
<b>Can presence</b>	Photocell
<b>Can positioning</b>	Automatic elevator
<b>Minimum can height</b>	90 mm
<b>Maximum can height</b>	565 mm
<b>Elevator vertical movement</b>	300 mm
<b>Maximum dimensions</b>	W 950 x D 750 x H 1.150 mm (16 canisters version) W 1320 x D 750 x H 1.150 mm (24 canisters version) W 1320 x D 850 x H 1.150 mm (32 canisters version)
<b>Weight</b>	180 kg (16 canisters version) 250 kg (24 canisters version) 300 kg (32 canisters version)
<b>Power supply</b>	230/115 V AC 50/60 Hz





# A850

NEWTON  
FAMILY



HERO Patent



## TECHNICAL FEATURES

<b>Dosing system</b>	Gravimetric and Combined
<b>Number of circuits</b>	Up to 24
<b>Dosing principle</b>	Gear pumps
<b>Canisters capacity</b>	3-5-9-22 Litres
<b>Maximum flow rate</b>	1,1 L/min (data influenced by the viscosity of the colourants)
<b>Average precision</b>	+/-1% (data influenced by the viscosity of the colourants)
<b>Minimum dosing quantity</b>	1/384 fl. oz. (0,077 ml) (data influenced by the viscosity of the colourants)
<b>Nozzles closing system</b>	Automatic humidifier cap
<b>Can presence</b>	Photocell
<b>Can positioning</b>	Automatic elevator
<b>Minimum can height</b>	70 mm
<b>Maximum can height</b>	620 mm
<b>Elevator vertical movement</b>	300 mm
<b>Maximum dimensions</b>	According to the configuration and the number of storage modules
<b>Weight</b>	According to the configuration and the number of storage modules
<b>Power supply</b>	230/115 V AC 50/60 Hz





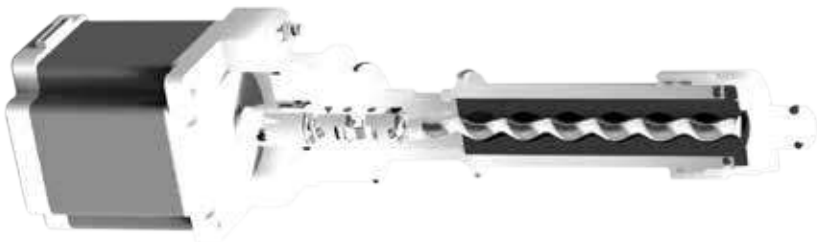
# A950

NEWTON  
FAMILY



## TECHNICAL FEATURES

<b>Dosing system</b>	Volumetric, Gravimetric and Combined-simultaneous
<b>Number of circuits</b>	Up to 32
<b>Dosing principle</b>	Progressive Cavity Pump High-Flow (PCP HF)
<b>Canisters capacity</b>	3-5-9-22 Litres
<b>Maximum flow rate</b>	0,6 L/min (data influenced by the viscosity of the colourants)
<b>Average precision</b>	+/-1% (data influenced by the viscosity of the colourants)
<b>Minimum dosing quantity</b>	1/1000 fl. oz. (0,03 ml) (data influenced by the viscosity of the colourants)
<b>Nozzles closing system</b>	Automatic watertight humidifier cap
<b>Can presence</b>	Photocell
<b>Can positioning</b>	Automatic elevator
<b>Minimum can height</b>	70 mm
<b>Maximum can height</b>	620 mm
<b>Elevator vertical movement</b>	300 mm
<b>Maximum dimensions</b>	According to the configuration and to the number of storage modules
<b>Weight</b>	According to the configuration and to the number of storage modules
<b>Power supply</b>	230/115 V AC 50/60 Hz





# AS100

ARCHIMEDE  
FAMILY



## TECHNICAL FEATURES

### A100

<b>Dosing system</b>	Volumetric sequential (or gravimetric for laboratory applications)
<b>Number of circuits</b>	Up to 16
<b>Dosing principle</b>	Progressive Cavity Pump (PCP)
<b>Canisters capacity</b>	2 Litres
<b>Maximum flow rate</b>	0,2 L/min (data influenced by the viscosity of the colourants)
<b>Average precision</b>	+/-1% (data influenced by the viscosity of the colourants)
<b>Minimum dosing quantity</b>	1/1000 fl. oz. (0,03 ml) (data influenced by the viscosity of the colourants)
<b>Nozzles closing system</b>	Automatic watertight humidifier cap
<b>Can positioning</b>	Manual
<b>Minimum can height</b>	No limitation
<b>Maximum can height</b>	400 mm
<b>Power supply</b>	230/115 V AC 50/60 Hz

### S400

<b>Maximum bucket dimensions</b>	Ø 340 mm × H 400 mm
<b>Minimum can height</b>	70 mm
<b>Multiple cans adapter</b>	Upon request
<b>Maximum loading capacity</b>	35 kg
<b>Bucket clamping</b>	Automatic
<b>Machine closing</b>	Transparent door
<b>Mixing motor</b>	Single-phase motor, power 0,9 kW
<b>Mixing speed</b>	Constant speed (630 rpm)
<b>Timer for mixing cycle</b>	Included
<b>Protection level</b>	IP 32
<b>Emergency stop</b>	Included
<b>Noise level</b>	< 80 db (A), measured according to DIN 45,635 regulation (no load)
<b>Power supply</b>	230 V AC 50 Hz

### AS100 DIMENSIONS

<b>Weight</b>	250 Kg
<b>Overall dimensions</b>	W 702 x D 703 x H 1.612 mm



# B200-B300

**INK  
DOSER**





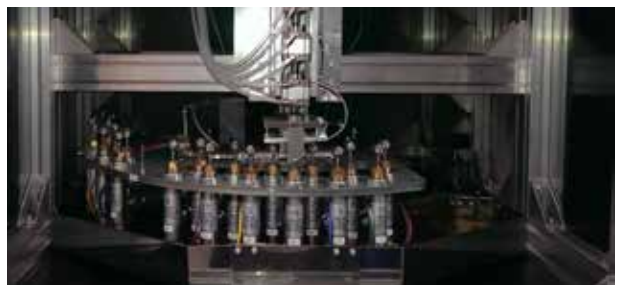
## TECHNICAL FEATURES

<b>Dosage</b>	Sequential gravimetric with fixed head up to 16 circuits + 1 additional for the dosage of the water (or solvent)
<b>Flow rate</b>	8-10 L/min (up to 2000 cPs)
<b>Accuracy</b>	+/- 5g (higher precision on request)
<b>Dosing head</b>	Fixed with lodging of maximum 16 valves with 10 mm aperture and $\phi$ 230 mm
<b>Washing</b>	Intelligent washing system with independant valves. Optimization of the waste water
<b>Pumps</b>	Diaphragm with double membrane and damper flow
<b>Storage</b>	200 L drums
	Palletizable IBC
	INOX tanks on project
	Interface with existing tanks
	Armed lids with suction and recirculation
	Level sensors and agitation system available on request
<b>Can lodging</b>	B200: extractable tray with electronic scale lodging B300: floor electronic scale compartment
<b>Scale</b>	B200: 35 kg electronic scale with electromagnetic compensation and precision +/- 0,1 g B300: 150 kg electronic scale with electromagnetic compensation and precision +/- 2 g (+/- 0,2 g on request)
<b>Filtres</b>	Y filtres with variable dimension grid according to the requests



# CTM

IN - PLANT



## TECHNICAL FEATURES

<b>Dosage</b>	Gravimetric and sequential
<b>Number of circuits</b>	Up to 26 per dosing head
<b>Flow rate</b>	20 L/min (with 3/4" valves and 1" membrane pumps) (*)
<b>Accuracy</b>	+/- 0,1 g (*)
<b>Dosing head</b>	Mobile head with valves positioned on an arch
	Valves on 2 concentric radius
	Automatic positioning by the rotation of the head
	High positioning speed
<b>Dispensing valves</b>	3/4" or 1 1/2" with double concentric shutter and recirculation
<b>Valves actuator</b>	Triple linear pneumatic cylinder-8 different positionings management
<b>Pumps</b>	Pneumatic diaphragm with double membrane
	Electric with double membrane
	Electric progressive cavity
	Electric gear
<b>Dispensing containers</b>	From 1 Kg to 3.000 Kg
<b>Storage</b>	200 L drums
	Palletizable IBC
	INOX tanks on project
	Interface with existing tanks
	Armed lids with suction and recirculation
	Level sensors and agitation system available on request
<b>External tanks agitation</b>	By the recirculation or by a programmable speed immersion agitator
<b>Scale</b>	According to the need of capacity and precision
	Possibility of multiple scales installations to optimize the precision on different ranges (35-600-1.500-3.000 Kg).
	Available both in standard and ATEX version

### Remarks

\* values affected by the viscosity of the products and by the precision of the scale



# D23

MANUALS



## TECHNICAL FEATURES

<b>Dosing System</b>	Volumetric Sequential
<b>Number of Circuits</b>	up to 24
<b>Dosing Principle</b>	Piston Pumps
<b>Canisters Capacity</b>	2,3 Litres
<b>Pump Capacity</b>	60 ml
<b>Minimum dosing quantity</b>	1/384 Fl.Oz. (0,077 ml) <small>(data influenced by the viscosity of the colourants)</small>
<b>Unit of measurement</b>	US oz. / US Metric oz. / ml / US Imperial oz. / Imperial oz.
<b>Nozzles Closing System</b>	Accu-Purge™ System
<b>Can positioning</b>	Manual elevator
<b>Maximum Dimensions</b>	L 787 × P 787 × A 1295 mm (16 canisters floor stand version)
<b>Weight</b>	84 kg
<b>Electrical requirement</b>	220/110 V AC 50/60 Hz



**GYROSCOPIC  
MIXERS**

# M200-M250



## TECHNICAL FEATURES

<b>Maximum bucket dimensions</b>	Ø 380 mm × H 430 mm
<b>Minimum can height</b>	70 mm
<b>Multiple cans adapter</b>	Upon request
<b>Maximum loading capacity</b>	35 kg
<b>Bucket clamping</b>	Manual
<b>Handle</b>	Single overturnable handling or double rotating handling
<b>Machine closing</b>	Rolling gate with interlock
<b>Mixing motor</b>	Single-phase motor, power up to 1,1 kW (M200) Three-phase motor driven by inverter, power up to 1,1 kW (M250)
<b>Sense of rotation</b>	Single direction of rotation (M200) Clockwise and counterclockwise with reversal of rotation at half time of mixing cycle (M250)
<b>Gyroscopic ratio</b>	1 ÷ 2
<b>Mixing speed</b>	Constant speed (120 rpm) (M200) 3 speeds to be selected on the display (100-140-180 rpm) (M250)
<b>Timer for mixing cycle</b>	Included
<b>Protection level</b>	IP 32
<b>Emergency stop</b>	Included
<b>Weight</b>	182 kg
<b>Overall dimensions</b>	W 783 × D 806 × H 1.058 mm
<b>Noise level</b>	< 80 db(A), measured according to DIN 45.635 regulation (no load)
<b>Electrical requirement</b>	230/115 V AC-50/60 Hz

**GYROSCOPIC  
MIXERS**



# M400





## TECHNICAL FEATURES

<b>Maximum bucket dimensions</b>	Ø 380 mm × H 480 mm
<b>Minimum can height</b>	90 mm
<b>Multiple cans adapter</b>	Upon request
<b>Maximum loading capacity</b>	35 kg
<b>Bucket clamping</b>	Automatic
<b>Machine closing</b>	Rolling gate with interlock
<b>Mixing motor</b>	Three-phase motor driven by inverter, power up to 1,1 kW
<b>Sense of rotation</b>	Clockwise and counterclockwise with reversal of rotation at half time of mixing cycle
<b>Gyroscopic ratio</b>	1 ÷ 2
<b>Mixing speed</b>	3 speeds (100-140-180 rpm) automatically selected according to the height of the can
<b>Timer for mixing cycle</b>	Included
<b>Protection Level</b>	IP 32
<b>Emergency stop</b>	Included
<b>Weight</b>	192 kg
<b>Overall dimensions</b>	W 783 × D 806 × H 1.058 mm
<b>Noise level</b>	< 80 db (A), measured according to DIN 45.635 regulation (no load)
<b>Power supply</b>	230/115 V AC 50/60 Hz



# M1200

# M1250

IMMERSION  
MIXER

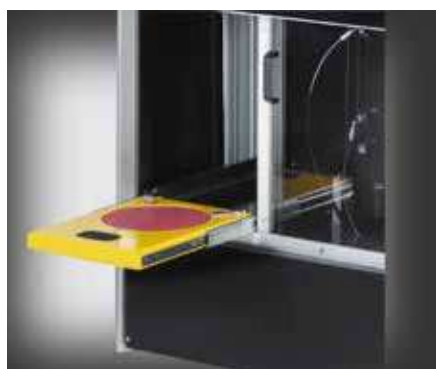


## TECHNICAL FEATURES

<b>Maximum can dimensions</b>	Ø 380 mm × H 480 mm
<b>Minimum can dimensions</b>	Ø 250 mm × H 200 mm
<b>Can clamping</b>	Manual
<b>Mixing motor</b>	Three-phase asynchronous motor by 1,1 kW driven by frequency converter
<b>Mixing parametres</b>	Smart speed management, programmable by display (max 720 rpm), interpolated with vertical movement
<b>Mixing cycle time</b>	Programmable by display
<b>Cleaning of impeller</b>	By fast replacement of impeller-2 impellers are included (M1200) Self-washing (M1250)
<b>Overall dimensions</b>	W 770 × D 820 × H 1.920 mm (M1200) W 1.150 × D 780 × H 2.066 mm (M1250)
<b>Weight</b>	180 kg (M1200) 370 kg (M1250)
<b>Power supply</b>	230/115 V AC 50/60 Hz



(M1250)



(M1250)



# M1210

IMMERSION  
MIXER



## TECHNICAL FEATURES

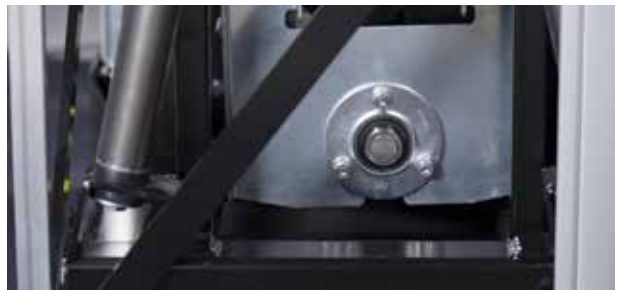
<b>Maximum can dimensions</b>	Ø 380 mm × H 480 mm
<b>Minimum can dimensions</b>	Ø 250 mm × H 200 mm
<b>Can clamping</b>	Manual or automatic
<b>Mixing motor</b>	Three-phase asynchronous motor by 1,1 kW driven by frequency converter
<b>Mixing parametres</b>	Smart speed management, programmable by display (max 720 rpm), interpolated with vertical movement
<b>Mixing cycle time</b>	Programmable by display
<b>Cleaning of impeller</b>	By fast replacement of impeller-2 impellers are included
<b>Overall dimensions</b>	W 700 x D 700 x H 1.820
<b>Weight</b>	300 kg
<b>Power supply</b>	230/115 V AC 50/60 Hz





# S400

SHAKER



## TECHNICAL FEATURES

<b>Maximum bucket dimensions</b>	Ø 340 mm × H 400 mm
<b>Minimum can height</b>	70 mm
<b>Multiple cans adapter</b>	Upon request
<b>Maximum loading capacity</b>	35 kg
<b>Bucket clamping</b>	Automatic
<b>Machine closing</b>	Transparent door
<b>Mixing motor</b>	Single-phase motor, power 0,9 kW
<b>Mixing speed</b>	Constant speed (630 rpm)
<b>Timer for mixing cycle</b>	Included
<b>Protection level</b>	IP 32
<b>Emergency stop</b>	Included
<b>Weight</b>	200 kg
<b>Overall dimensions</b>	W 710 × D 625 × H 1.140 mm
<b>Noise level</b>	< 80 db (A), measured according to DIN 45.635 regulation (no load)
<b>Power supply</b>	230 V AC 50 Hz



# NEWTON TWIN

IN - PLANT





## TECHNICAL FEATURES

<b>Dosage</b>	Gravimetric and sequential
<b>Number of circuit</b>	12 (customizable on request)
<b>Flow rate</b>	10 L/min (with 1/2" valves and 1" membrane pumps) (*)
<b>Accuracy</b>	+/- 2 g (*) (higher precision on request)
<b>Dosing head</b>	Fixed head with 3 ways total recirculation valves lodging (HERO patent)
<b>Pumps</b>	Pneumatic diaphragm with double membrane
	Electric with double membrane
	Electric progressive cavity
	Electric gear
<b>Minimum can height</b>	70 mm
<b>Maximum can height</b>	620 mm
<b>Storage</b>	200 L drums
	Palletizable IBC
	INOX tanks on project
	Interface with existing tanks
	Armed lids with suction and recirculation
	Level sensors and agitation system available on request
<b>External tanks agitation</b>	By the recirculation or by a programmable speed immersion agitator

### Remarks

The Newton Twin is composed associating the Twin module to a Newton family dispenser (see technical sheet A950-A850)

\* values affected by the viscosity of the products and by the precision of the scale

**POWDER DISPENSERS  
FAMILY**



# XF100



## TECHNICAL FEATURES

<b>Dosing system</b>	Sequential gravimetric
<b>Number of circuits</b>	Up to 24
<b>Canisters</b>	One-way containers for products (2,65 litres), assembled in the machine with quick-adapters
<b>Electronic scale</b>	6,2 kg; +/- 0,01 g
<b>Powders container</b>	Intermediate cup positioned on the scale
<b>Minimum dosing quantity</b>	0,02 g
<b>Accuracy (0,02 g-1,00 g range )</b>	+/- 0,01 g (= scale accuracy)
<b>Accuracy (1,00 g-500,00 g range)</b>	+/- 1%
<b>Maximum dosing speed</b>	1.500 g/min (depending on the accuracy required)
<b>Machine dimensions</b>	W 797 x D 788 x H 1.297 mm
<b>Weight</b>	200 kg (16 circuits) 240 kg (24 circuits)
<b>Power supply</b>	230/115 V AC 50/60 Hz

# TINTWISE

## TINTWISE POS

TintWise POS is the management software used by all HERO automatic tinting machines. TintWise POS became an original HERO product and acknowledged in the global market as one of the best applications for the point of sale:

- Designed and manufactured 100% by HERO
- Included in every tinting machine
- Customizable for all your needs
- SIMPLE and INTUITIVE

### **Key features of this application:**

- **Formula database management**
  - quick and easy-to-use formula and dosage selection
  - detailed price manager, with markup, VAT and discount calculation
  - create your own formulas
- **Print labels**
  - customization of labels available
- **Login management**
  - customization of login levels and restrictions
- **Report management**
  - automatic storage of reports after every dosage
  - report selection to replicate formulas
- **Statistics management**
  - consumptions statistics
  - Export to Excel
- **Backup**
  - creating a backup installation .exe file
  - the backup allows to restore data quickly in case of PC failure
  - the backup can be used to speed up the installation of a second machine with similar characteristics
- **Machine management**
  - manage pails, calibration, maintenance and dosages, optimised depending on the type of machine.

# TINTWISE

## TINTWISE LAB

TintWise LAB is the laboratory software developed by HERO to streamline the procedures to upgrade formula databases, adding new formulas, new products and editing existing values.

- It maintains the history of database updates, so that older versions may be also analyzed.
- Updates are generated in the form of installing executable files to make it easier for TintWise\_POS users to use them.
- If an internet connection is available for the TintWise\_POS, it is possible to set remote updates to optimize distribution.
- You can enter and modify a formula manually, or you can import a block of formulas.
- Standard import consists of entering data on an Excel file.
- You can customize the software to import data from any file format, a feature much appreciated because it makes it extremely VERSATILE and easy to use.

