



FLEXCART™ MICRO LIQUID METERING SYSTEM

Combined with sustainable
delivery packaging

FLEXCART™ MICRO METERING SYSTEM

The FlexCart Micro system is a benchtop version of the FlexCart system, encompassing the control and pumping technology of the larger FlexCart units in a reduced size which is ideal for smaller operations. The FlexCart Micro unit is designed to operate on non-continuous processes that require small units and which run with lower process throughputs.

Since the FlexCart Micro has a smaller footprint for use in operations where space is limited, the metering system uses the smaller 10L (LN) polymer delivery pack.



OPTIONAL EQUIPMENT

The FlexCart Micro unit can be configured with a large range of equipment options. These include controllers, pumps, and packaging options.

Choice of options will depend on what your process requires:

- Is the process continuous?
- What is the normal throughput?
- Are data management facilities needed?
- Is gravimetric capability required?
- What is the range of liquid addition rate?
- What is the length of production runs?

VALUE BENEFITS OF USING THE FLEXCART MICRO SYSTEM

The FlexCart Micro metering system is market leading:

- Robust and dependable system control
- Reliable yield (typically 95%+) and sustainable packaging
- Capability of data networking and remote internet support
- Small footprint & LN standard recyclable delivery packaging

ATTRIBUTE	FLEXCART MICRO
Footprint (LxW cm)	60 x 35
Controller options	3000 5000
Typical max. throughput (kg/hr)	250
Max. metering rate (cc/s)	10
Continuous use	No
Transfer pumps	N/A
Metering pumps	PC/Peri
Interchangeable cassette	Yes

Note: PC = Progressing Cavity Pump
Peri = Peristaltic Pump



PLANETPAK™ CONTAINERS AND LN PACKAGING OPTIONS

The FlexCart suite of metering systems is designed to work with the standardized PolyOne range of packaging typically achieving 99% reliable yield on continuous operating systems, while at the same time also achieving a sustainable packaging format in terms of full recyclability. The FlexCart Micro unit, due to its smaller footprint and reduced throughput range, is designed to work with the LN molded polymer containers—specifically the 10-liter pack.

The PlanetPak and LN ranges of containers are the standardized range of packaging options used with the FlexCart systems.



FLEXCART MICRO OPTIONS

The table opposite provides some guidance on the choice of optional components.

OPTION VS. ATTRIBUTE	PC PUMP	PERI PUMP	CMG 3000	CMG 5000
Metering throughput	High	Low	–	–
Volumetric/gravimetric	V	V	V	V/G
Data export/network	–	–	No	Yes
Touch screen	–	–	No	Yes
Multiple log-in levels	–	–	No	Yes

The range of progressing cavity pump rates attainable can be used to determine the correct size of pump.

PC PUMP RATE (cc/rev)	0.09	0.28	0.87	2.6	5.2
RECOMMENDED OUTPUT RANGE (g/min)	0.9–9	2.8–28	8.7–87	26–260	53–520
MAX PUMP OUTPUT (g/min)	18	56	174	520	1040

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