



# FLEXCART™ MINI LIQUID METERING SYSTEM

Combined with the PlanetPak™  
delivery packaging

## FLEXCART™ MINI METERING SYSTEM

The FlexCart Mini metering system, combined with the PlanetPak™ container, is designed to meet your needs for a smaller footprint when space is at a premium. Using many technology options from the larger FlexCart flagship unit, the FlexCart Mini unit allows you to access complex metering systems while reducing size.

The FlexCart Mini system is designed as the metering system for liquid colorants and additives within a reduced space.

PlanetPak containers are optimized and recommended for Avient liquid colors and additives.

## OPTIONAL EQUIPMENT

The FlexCart Mini 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 MINI SYSTEM

FlexCart units & PlanetPak containers create a market leading metering system:

- Robust and dependable system control
- Reliable yield (typically 99% using a PlanetPak) and sustainable packaging
- Capability of data networking and remote internet support
- Simplified changeover with interchangeable cassettes



ATTRIBUTE	FLEXCART MINI
Footprint (LxW cm)	98 x 38
Controller options	3000 5000
Typical max. throughput (kg/hr)	625
Max. metering rate (cc/s)	10
Continuous use	Yes
Transfer pumps	Peri
Metering pumps	PC/Peri
Interchangeable cassette	Yes

Note: PC = Progressing Cavity Pump  
Peri = Peristaltic Pump



## PLANETPAK™ CONTAINERS

The FlexCart system is designed to work with the standardized PlanetPak container range of packaging, typically achieving 99% reliable yield while also achieving a sustainable packaging format that is fully recyclable.

The range of sizes suitable for the FlexCart Mini metering unit are at the larger end of the PlanetPak range—25L and 15L containers.

The basis of a PlanetPak container is a robust polyethylene liner with a proprietary collapsing design, surrounded by a cardboard outer shell. The polyethylene liner has a non-drip valve outlet that connects seamlessly to the FlexCart metering system and the outer shell is designed to fit onto the FlexCart carriage.



## OTHER PACKAGING OPTIONS

The FlexCart Mini system can be used with other containers, which could include Intermediate Bulk Containers (IBC).

## FLEXCART MINI OPTIONS

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

OPTION VS. ATTRIBUTE	PC PUMP	PERI PUMP	CMG 3000	CMG 5000
Delivery throughput	-	Low	-	-
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

**Avient can provide support and assistance on every aspect of liquid color and additive processing. Our teams are available through your local commercial contact, directly at +1.844.4AVIENT, or visit [www.avient.com](http://www.avient.com).**

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