

Xelox[®] Series Overview



1 Series

The Xelox[®] 1 are analyst workstations. They automate individual stages of the particle size determination process. They improve data consistency by removing manual errors from key stages of the test sequence.

3 Series

The Xelox[®] 3 Series are semi-automated platforms. They automate the entire particle size determination process, including waste firing, dose collection, dose recovery, assay preparation, clean up and cup coating.



5 Series

The Xelox[®] 5 Series are fully automated systems. They offer 24/7 high throughput unattended operation.



Product Name	Xelox [®] 1 Series	Xelox [®] 3 Series	Xelox [®] 5 Series
Description	Analyst workstations	Semi-automated platforms	Full automated systems – 24/7 unattended operation
Core Technology	Uses Astech core technology for sample introduction and dose collection	Uses Astech core technology for sample introduction and dose collection. Uses technology developed by Astech and a consortium of leading pharma for dose recovery and cup coating operations	
MDI/BAI/DPI Configurations	Yes	Yes	Yes
Inhaler Shaking	A number of shake profiles are available. Frequencies up to 6 Hz with “true” user configurable profile generation and profile monitoring.		
Readily Adapted To Any Inhaler Type	Actuation mechanisms and shakers can be supplied to suit any inhaler type		

Automated Waste Fire Sequences	A Xelox® 1 Series workstations are available for waste firing and dose collection including sonic flow confirmation	Allows execution of pre-approved sequences for waste firing. Dose collections can be scheduled anywhere in the sequence.	
Automated Dose Collection		Automated dose collection into a standard Andersen Cascade Impactor. Single or multiple shot configurable via the method.	
Automated Control of Vacuum Flow Rate		Yes	Yes
Sonic Flow Confirmation (P2 & P3)		Yes	Yes
Force/Displacement Measurements For Inhaler Actuation	Optional	Optional	Optional
Verification of NGI Assembly		Leak test performed on assembled NGI prior to dose collection	
Weighing of Inhaler For Determination of Dose Weight	No	Optional	Optional
Addition of Solvent To Pre-separator Cup Prior To Dosing		Yes	Yes
Automated Cup Coating	A Xelox® 1 Series workstation is available for cup coating applications	Yes	Yes
Automated Dose Recovery From Cups		Cups are isolated and recovered in parallel	
Automated Dose Recovery From Pre-separator		Proven techniques are used to recover drug from the pre-separator	
Automated Dose Recovery From Throat		Proven techniques are used to recover drug from the throat	
Analytical Standards		The solution can be configured to use internal and external standards	
Sample Presentation		Samples delivered to vials or well plates for transfer to analysis equipment. HPLC racks can be specified by the client	
HPLC Integration		Optional, HPLC integration by automated vial transfer or direct injection methods. Data integration can be performed by XML file export or using the SDK supplied with a client's chosen CDS	
Automated Equipment Cleanup		Automated cleanup of cup tray, pre-separator, throat and all other drug contact surfaces	
Unattended 24 hour High Throughput Operation	No	No	Yes
21 CFR Part 11 Compliant Software	Yes	Yes	Yes
Validation pack provided	Yes	Yes	Yes