

CHRONECT[™] | XPR

System specifications

CHRONECT[™] XPR integrates precise dispensing and weighing technology into automated sample preparation.

Up to 32 solids are stored on a shelf in dispensing heads. All information about a solid is stored on an RFID chip and read out via the rack. SBS plates provide space for different vessel sizes in which the powders are to be weighed. Dosing and weighing is done with the XPR system from Mettler-Toledo. A six-axis robot takes care of transporting the powder heads into the scale, as well as placing the vessels under the dosing head.

The CHRONOS[™] software controls the entire system. The SBS plates are displayed pictorially in the program. The solid material can be selected via a drop-down menu. Only those powders are listed that are currently on the shelf. Then, the quantity that needs to be dosed can be entered in the graphic of the plates. Simple functions, as known from Excel, facilitate the input in rows and columns. Every weighing is documented.

CHRONECT XPR is equipped with 3 SBS plates with 96 places each for 1 ml tubes. Three additional SBS plates and vials for 2, 4, 8, 10, 20 or 40 ml are available to expand the capacity of the measuring vessels.

The XYZ robot CHRONECT robot offers additional automation options: For substances that have to be stored in a sealed vial, the DeCapper Module allows the automatic screwing and unscrewing of the caps. CHRONECT robot also offers additional space for sample vials via tray holders as well as further tools and modules for automating sample preparation.

Dispensing	
Dispensing range	1 mg - several grams
Dosing heads	Up to 32 powder dispensing heads
Suitable chemicals	Free flowing, fluffy, granular, statically charged powders
Sample and weighing	
Target vessel	1 mL to 8mL vials in up to three SBS plates
Dispensing time per component	10-60 seconds, depending on substance
Compatible balance models	XPR226DRQ, other automatic balance model on request
Readability (fine range)	0.01 mg (0.005 mg)
Minimum weight automatic (tolerance = 1%)	0.7 mg
Minimum weight automatic (USP, tolerance = 0.10%)	7 mg
Robot arm	
Model	Universal Robot UR3e
Robot type	Collaborative
Robot specifications	6-axis/3kg payload
Handling tools	Gripper for handling vials, dispensing heads and adapters.
Laboratory robot	
Model	CHRONECT™ robot LSI, other CHRONECT robot models available depending on application
Robot specifications	XYZ robot
Handling tools	DeCapper Module, holder for sample tray
Operating system	
Operating and control	PC with Windows 10
Task and formulation settings	CHRONOS™ software
Data and report management	CHRONOS™ software
Dimensions and weight	
Dimensions W x D x H (mm) Platform	975 x 650 x 800
Platform weight	approx. 100 kg
Dimensions W x D x H (mm) Controller Box UR3e	450 x 420 180
Weight UR3e Controller Box	approx. 10 kg
Dimensions W x D x H (mm) CHRONECT robot LSI	600 x1000 x 1000
Weight CHRONECT robot LSI	approx. 20 kg
Options	
Additional functions: CHRONECT robot	On request
Additional options or modifications	On request

For more information about this product visit www.trajanscimed.com or contact techsupport@trajanscimed.com

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