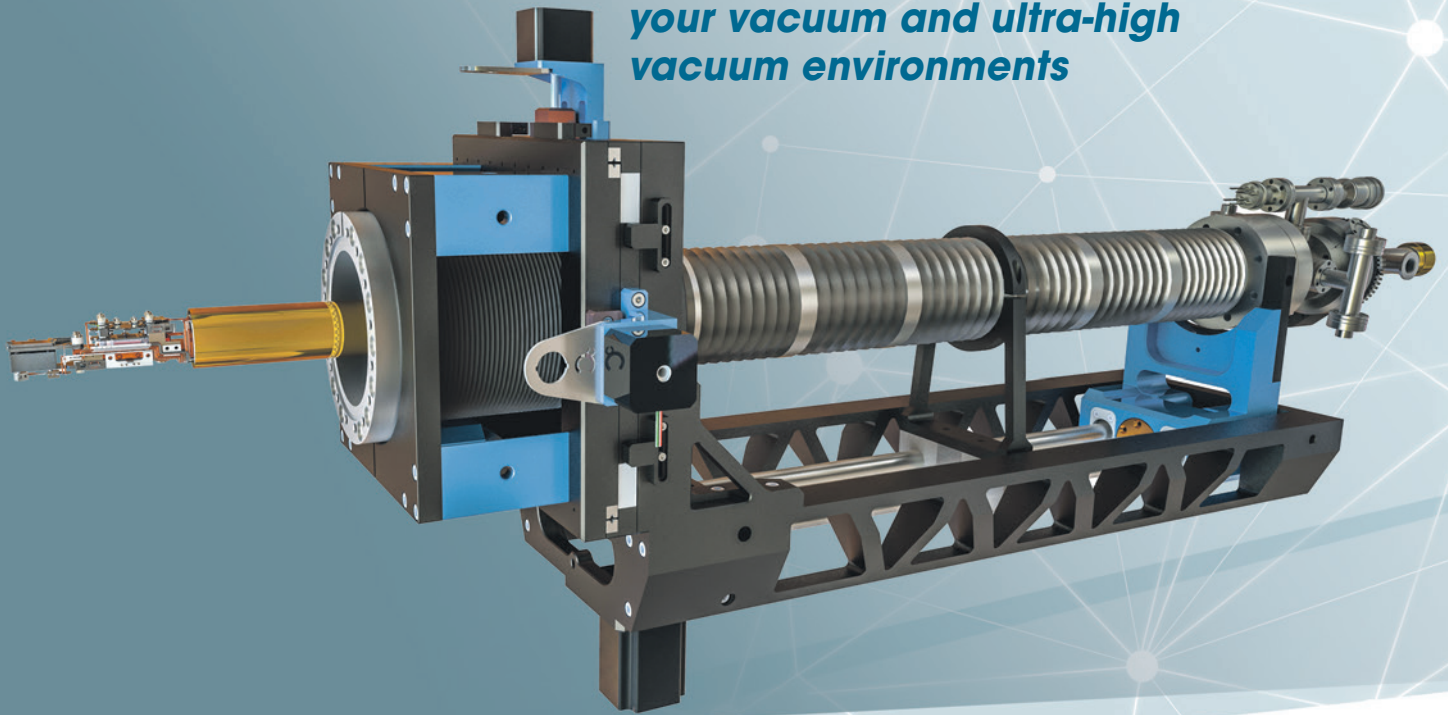


# CRYOSCAN MANIPULATORS

*Designed for  
your vacuum and ultra-high  
vacuum environments*



Developed for the vacuum and ultra-high vacuum environment, they allow a range of temperatures from 8 K to 1200 K to be covered. Depending on your needs, versions 4, 5 or 6 axes can be personalised.

Our manipulators can be equipped with helium or nitrogen circulation cryostats for the cooling and radiative heating elements or by electron beams.

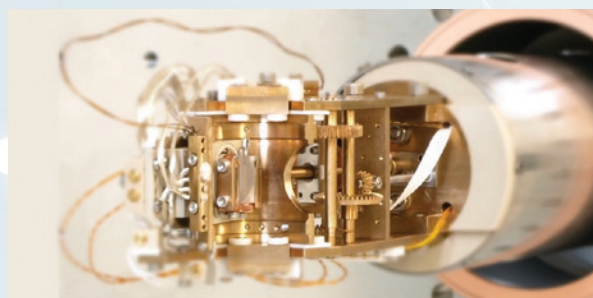
CRYOSCAN manipulators propose by default a motorisation of all useful degrees of freedom from step-by-step motors and a digital interface. Mechanical micrometres can be assembled instead of step-by-step motors on specific request.



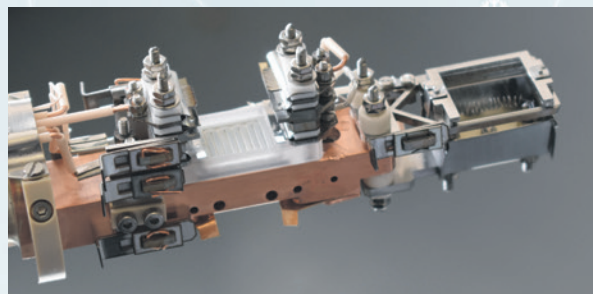
## Manipulators designed for temperatures ranging from 8 to 1200 K\*

Our manipulators allow you to have a temperature on your sample ranging from 8 to 1200 K\*.

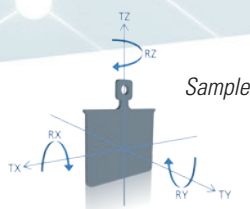
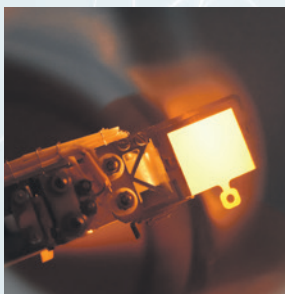
\* 1200 K possible on the stage dedicated to the very high temperature (low degassing)



Goniometry 6 axes low temperature (13 K)



Very high temperature dedicated stage

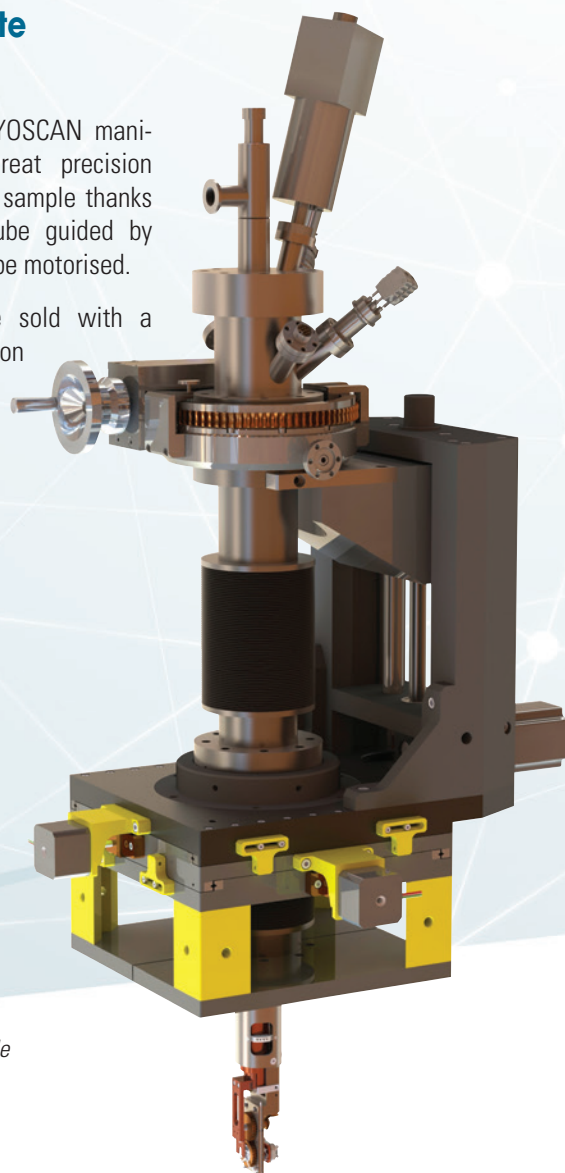


Sample

## Robust, accurate manipulators

Robust in design, CRYOSCAN manipulators guarantee great precision of positioning on your sample thanks to a reinforcement tube guided by brackets. All axes can be motorised.

The manipulators are sold with a weight compensation that can be adapted to your experimental setup.



## Descriptions CRYOSCAN manipulators

MANIPULATORS									
REF	Axes	Degrees of freedom					Motorisation possible	Low temperatures on sample	Maximum temperature on sample
		Translations		Rotations					
		xy	z	z	x	y			
M-Tz-Rn-He	1	-	100-1000	-	-	-	●	8K	1500K
M-Tz-Rz-He	2	-	100-1000	±180° or 360° continuous	-	-	●	8K	1500K
M-Txyz-Rn-He	3	±10 / ±50	100-1000	-	-	-	●	8K	1500K
M-Txyz-Rz-He	4	±10 / ±50	100-1000	±180° or 360° continuous	-	-	●	8K	1500K
M-Txyz-Rxz-He	5	±10 / ±50	100-1000	±180° or 360° continuous	±180°	-	●	8K	1200K
M-Txyz-Ryz-He	5	±10 / ±50	100-1000	±180° or 360° continuous	-	±180°	●	8K	1200K
M-Txyz-Rxyz-He	6	±10 / ±50	100-1000	±180° or 360° continuous	±180°	±180°	●	13K	600K
M-Tz-Rn-N	1	-	100-1000	-	-	-	●	77K	1500K
M-Tz-Rz-N	2	-	100-1000	±180° or 360° continuous	-	-	●	77K	1500K
M-Txyz-Rn-N	3	±10 / ±50	100-1000	-	-	-	●	77K	1500K
M-Txyz-Rz-N	4	±10 / ±50	100-1000	±180° or 360° continuous	-	-	●	77K	1500K
M-Txyz-Rxz-N	5	±10 / ±50	100-1000	±180° or 360° continuous	±180°	-	●	80K	1200K
M-Txyz-Ryz-N	5	±10 / ±50	100-1000	±180° or 360° continuous	-	±180°	●	80K	1200K
M-Txyz-Rxyz-N	6	±10 / ±50	100-1000	±180° or 360° continuous	±25°	±180°	●	80K	600K

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