

Thermo Fisher Scientific CryoStar NX70 Cryostat  
Specifications

Item		
Cooling Specifications	Specimen Temperature Control	-50 °C to +10 °C at +20 °C room temp.
	Blade Temperature Control	-35 °C to -5 °C at +20 °C room temp.
	Cryobar Cooling	Max. -60 °C at -35 °C blade temperature
	Defrosting Options	Programmed / Immediate
Microtome and Sectioning Specifications	Section Thickness Range	0.5 – 500 µm
	Fine Section Thickness Range	0.5 – 100 µm
	Fine Section Thickness Resolution	<ul style="list-style-type: none"> <li>• 0.5 – 2 µm in 0.5 µm steps</li> <li>• 2 µm – 10 µm in 1 µm steps</li> <li>• 10 µm – 20 µm in 2 µm steps</li> <li>• 20 µm – 50 µm in 5 µm steps</li> <li>• 50 µm – 100 µm in 10 µm steps</li> </ul>
	Trimming Thickness Range	0.5 – 500 µm
	Trimming Thickness Resolution	<ul style="list-style-type: none"> <li>• 5 – 10 µm in 5 µm steps</li> <li>• 10 µm – 100 µm in 10 µm steps</li> <li>• 100 µm – 200 µm in 20 µm steps</li> <li>• 200 µm – 500 µm in 50 µm steps</li> </ul>
	Specimen Retraction (Return Travel)	20 µm
	Vertical Specimen Stroke	64 mm
	Horizontal Specimen Movement	48 mm
	Specimen Approach	Manual (variable speed by joystick control), maximum speed: 3 mm/s

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	Chuck Size	20 mm, 30 mm, 40 mm
	Specimen Orientation	x - and y - axes universal 7° with zero positioning; z - axis up to 360°
	Cutting Drive	Motorized, electronically controlled and manual via handwheel
	Motorized Control - Operating Modes	Interval, single, multi- and continuous-stroke
	Cutting Speed	0 - 256 mm/s
Blade Type	Low profile blades only	
Others	Vacutome available (on Cryostat A & B only)	
Consumables	<ul style="list-style-type: none"> <li>• Low profile blades</li> <li>• Cryomatrix</li> <li>• Anti-roll glass plate</li> <li>• Sample chuck</li> </ul>	