







<p>Date: 06.10.2019 Authorized user: B.Abasahl Work area: FIB zone Workplace: Room 100.030g</p>	<h1>Safety Instruction</h1> <h2>Zeiss Crossbeam 340</h2>	<p>WWU Münster Nanofabrication Facility (MNF) Center for Soft Nanoscience (SoN) Busso-Peus-Str. 10 48149 Münster</p>
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Range of Application		
Working with vacuum/high-vacuum with focused ion beam, operating under high voltage		
Hazard for People and the environment		
	<ul style="list-style-type: none"> • Risk of burn by hot surfaces • Hazard due to ionized radiation • Hazard due to electron radiation • Risk of shock due to high voltage electrical discharge • Danger of implosion by improper handling or using unsuitable materials, parts can fly around • Risk of flooding due to leakage in the cooling water system • Risk of injury by moving components 	
Safety Measures and Rules of Behavior		
	<ul style="list-style-type: none"> • The instrument is to be used only by designated Persons • No improper handling of switches, buttons etc. • Running of the instrument only under supervision • Constantly observe nitrogen and pressured air pressure indicators • Do not damage service connections • People with pacemaker or metal implants must keep a sufficient distance to the machine • Wear protective gear (Protection garment and gloves) • Follow the instruction manual of the manufacturer • Instruct people within the laboratory about potential hazards • Pregnant women are generally not allowed to use or stay near the device. Danger to the embryo/ foetus from ionizing radiation/ electron radiation! 	
Action in Failure		
<ul style="list-style-type: none"> • Shut down machine and vacuum pump, only in case of fire push the emergency stop button • Report defects and damage to supervisor • Only experts should eliminate malfunctions 		
Action in Accident, First Aid		
	<ul style="list-style-type: none"> • Protect yourself and remove injured people out of the danger area, react quickly, involve primary responsible person, • In case of stronger injury call emergency services (112) • If important, switch off the instrument by the emergency stop button at the machine • Firefighting only with CO₂ fire extinguisher • Report accident 	
Maintenance and Disposal		
<ul style="list-style-type: none"> • Instrument must be repaired only by authorized persons • Dispose used material and hazardous scraps in an environmentally sound manner 		
Consequences in Nonobservance		
Damage to the instrument, malfunction, costly damage		

Deutsche Version auf Rückseite!