

## Materials List for:

## **High-speed Particle Image Velocimetry Near Surfaces**

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## **Materials**

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Name	Company	Catalog Number	Comments
High-speed 532 nm Nd:YAG laser	Quantronix	Model: Hawk I	
Long distance microscope ( QM-100)	Questar	Model: QM-100	
High-speed CMOS camera (Phantom v7.3)	Vision Research	Model: Phantom v7.3	
Atomizer (TSI 9306)	TSI	Model: 9306	
Silicone oil	Dow Corning CST 510	CST 510 Fluid	
Beam homogenizer	Fraunhofer		Custom made part
45 ° high-reflectivity (HR) 532 nm turning mirror	Laser Optik		Multiple suppliers
Aperture			Multiple suppliers
Calibration target			Custom made part
PIV recording and processing software	LaVision	Software: Da Vis	
High-speed controller (HSC)	LaVision		
Optical rail and carriers			Multiple suppliers
Laser beam blocks and traps			Multiple suppliers
Mounts for optical elements			Multiple suppliers
Translation stage	Newport		
Metal tubing to create jet flow	McMaster-Carr		Multiple suppliers
Combination square and centering square			Multiple suppliers