

Materials List for:

Design and Use of an Apparatus for Presenting Graspable Objects in 3D Workspace

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Materials

Name	Company	Catalog Number	Comments
Active X-rail	CCM Automation technology Inc., China	W50-25	Effective travel, 600 mm; Load, 25 kg
Active Y-rail	CCM Automation technology Inc., China	W60-35	Effective travel, 300 mm, Load 35 kg
Active Z-rail	CCM Automation technology Inc., China	W50-25	Effective travel, 500 mm; Load 25 kg
Bearing	Taobao.com	6004-2RSH	Acrylic
Case	Custom mechanical processing	TT-C	Acrylic
Connecting ring	CCM Automation technology Inc., China	57/60-W50	
Connecting shaft	CCM Automation technology Inc., China	D12-700	Diam., 12 mm; Length, 700 mm
Diaphragm coupling	CCM Automation technology Inc., China	CCM 12-12	Inner diam., 12-12mm
Diaphragm coupling	CCM Automation technology Inc., China	CCM 12-14	Inner diam., 14-12mm
Electric slip ring	Semring Inc., China	SNH020a-12	Acrylic
Locating bar	Custom mechanical processing	TT-L	Acrylic
Motion capture system	Motion Analysis Corp. US	Eagle-2.36	
Neural signal acquisition system	Blackrock Microsystems Corp. US	Cerebus	
NI DAQ device	National Instruments, US	USB-6341	
Object	Custom mechanical processing	TT-O	Acrylic
Passive Y-rail	CCM Automation technology Inc., China	W60-35	Effective travel, 300 mm; Load 35 kg
Passive Z-rail	CCM Automation technology Inc., China	W50-25	Effective travel, 500 mm; Load 25 kg
Pedestal	CCM Automation technology Inc., China	80-W60	
Peristaltic pump	Longer Inc., China	BT100-1L	
Planetary gearhead	CCM Automation technology Inc., China	PLF60-5	Flange, 60×60 mm; Reduction ratio, 1:5
Right triangle frame	CCM Automation technology Inc., China	290-300	
Rotator	Custom mechanical processing	TT-R	Acrylic
Servo motor	Yifeng Inc., China	60ST-M01930	Flange, 60×60 mm; Torque, 1.91 N·m; for Y- and Z-rail

Servo motor	Yifeng Inc., China	60ST-M01330	Flange, 60×60 mm; Torque, 1.27 N·m; for X-rail
Shaft	Custom mechanical processing	TT-S	Acrylic
Stepping motor	Taobao.com	86HBS120	Flange, 86×86 mm; Torque, 1.27 N·m; Driving turning table
Touch sensor	Taobao.com	CM-12X-5V	
Tricolor LED	Taobao.com	CK017, RGB	
T-shaped connecting board	CCM Automation technology Inc., China	110-120	