

Materials List for

A Modeling and Simulation Method for Preliminary Design of an Electro-Variable Displacement Pump

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Citation

Han, X., Zhang, P., Minav, T., Fu, Y., Fu, J. A Modeling and Simulation Method for Preliminary Design of an Electro-Variable Displacement Pump. *J. Vis. Exp.* (184), e63593, doi:10.3791/63593 (2022).

Date Published

June 1, 2022

DOI

10.3791/63593

URL

jove.com/video/63593

Materials

Name	Company	Catalog Number	Comments
Ball screw	NSK	PSS	
EVDP prototype	Beijing Institute of Precision Mechatronics and Controls	customized	7.4 mL/rev, 7000 rpm, 21 Mpa
EVDP testrig	Beijing Institute of Precision Mechatronics and Controls	customized	Refer to Figure 7, can be adapted upon individual needs. Including Power PMAC controller, ELMO Whistle Driver, etc.
Gearhead	Maxon	GP	
Matlab	Mathworks	R2020a	
Permannet magnet synchronous motor	Maxon	393023	
Piston pump	Bosch Rexroth	A10VZO	
Simcenter Amesim	Siemens	2021.1	system simulation platform