

C-Series Vacuum Compatible Stepper Motors Materials Used in construction

The materials used, in approximate descending order of exposed surface area are:

Polyimide
Diamond-like carbon
Stainless steel 440, 304, 316, 303
Aluminium Alloy 6061
Silicon steel
Samarium Cobalt
Poly ether ether ketone (PEEK) 450G
Alumina ceramic
Silicon nitride ceramic
Silver
Fluorinated ethylene polymer (FEP). (Not used on radiation-hard motors.)
Copper
Chromel/Alumel (Chromel and Alumel are registered trademarks of Hoskins Manufacturing Co.)

Bearing lubrication: Nyetorr 5200 as standard or Modified Tungsten Disulphide (WS2) as customer option.