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CCS C 71



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 19740-2005

**Mechanical vibration and shock -- Free, Mechanical impedance
of the human hand-arm system at the driving point**

机械振动与冲击 人体手臂系统驱动点的自由机械阻抗

(English Translation)

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Table of Contents

What this standard covers	1
Document data	2

What this standard covers

This standard specifies: male human arm system driver points freedom mechanical impedance. Represented by the modulus and phase Freedom impedance value, by three orthogonal translational excitation the direction is given, excitation direction and GB/T 14790 and IS, 8727 regulations basically consistent coordinate system center- x_h , y_h and z_h axis Hand. Freedom impedance- $i > x_h$, y_h and z_h component as the frequency the frequency range from a function by 1, Hz to 50, Hz, corresponds to a particular the arm posture, grip strength and propulsion, handles diameter and incentives strength were given. In three directions Freedom impedance component is deemed to exist independently (see Appendix F), This standard is used to determine the arm system at the driving point freedom mechanical impedance typical values, these data apply under certain conditions male. For each impedance component, freedom impedance at each frequency is determined by three values, to reflect on the men arm measured value range. The upper and lower limits for the most likely impedance values ??- range, intermediate values ??represent human data overall average, thus provides for all applications target. This standard is applicable to women temporarily.

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