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Superseding J833 MAY1989

(R) Human Physical Dimensions

This recommended practice is technically equivalent to the human physical dimensions of operators in ISO-3411-1982.

Foreword—This document has been superceded with SAE J/ISO 3411.

1. **Scope**—This SAE Recommended Practice defines the worldwide human physical dimensions to be used in construction, general purpose industrial, agricultural tractors, forestry and specialized mining machinery categories as defined in SAE J1116 JUN86.

2. **References**

2.1 **Applicable Publications**—The following publications form a part of the specification to the extent specified herein. Unless otherwise indicated, the latest revision of SAE publications shall apply.

2.1.1 SAE PUBLICATIONS—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAEJ898OCT87—Control Locations for Off-Road Work Machines

SAEJ925DEC87—Minimum Service Access Dimensions for Off-Road Machines

SAEJ1116 JUN86—Categories of Off-Road, Self-Propelled Work Machines

3. **Physical Dimensions**

3.1 **General**—The physical and body pivot dimensions of small, medium, and large humans are given in Figures 1 and 2 for the sitting and standing positions.

3.2 **Definitions**

3.2.1 **SMALL HUMAN**—Represents the 5th percentile female. Only 5% of the female population is smaller than the dimensions given.

3.2.2 **MEDIUM HUMAN**—Represents the half-way position between the small and large humans.

3.2.3 **LARGE HUMAN**—Represents the 95th percentile male. Only 5% of the male population is larger than the dimensions given.

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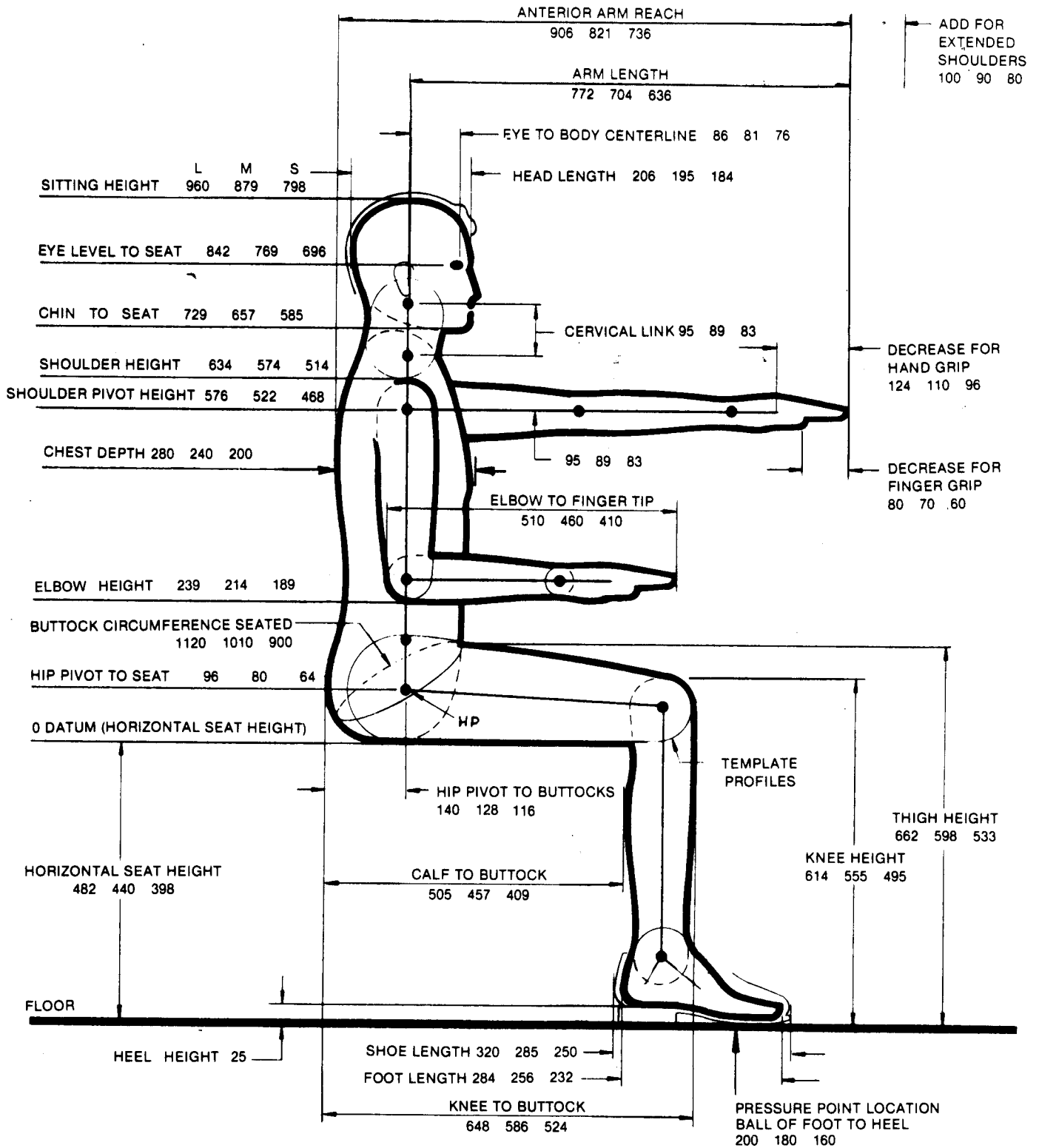


FIGURE 1—SITTING POSITION