HUMACNORM Extremity System
Specifications Sheet

AVAILABLE RESISTANCE MODES:

Continuous Passive Motion (CPM): constant speed, variable resistance, always moving

Isokinetic: constant speed, variable resistance, patient controlled

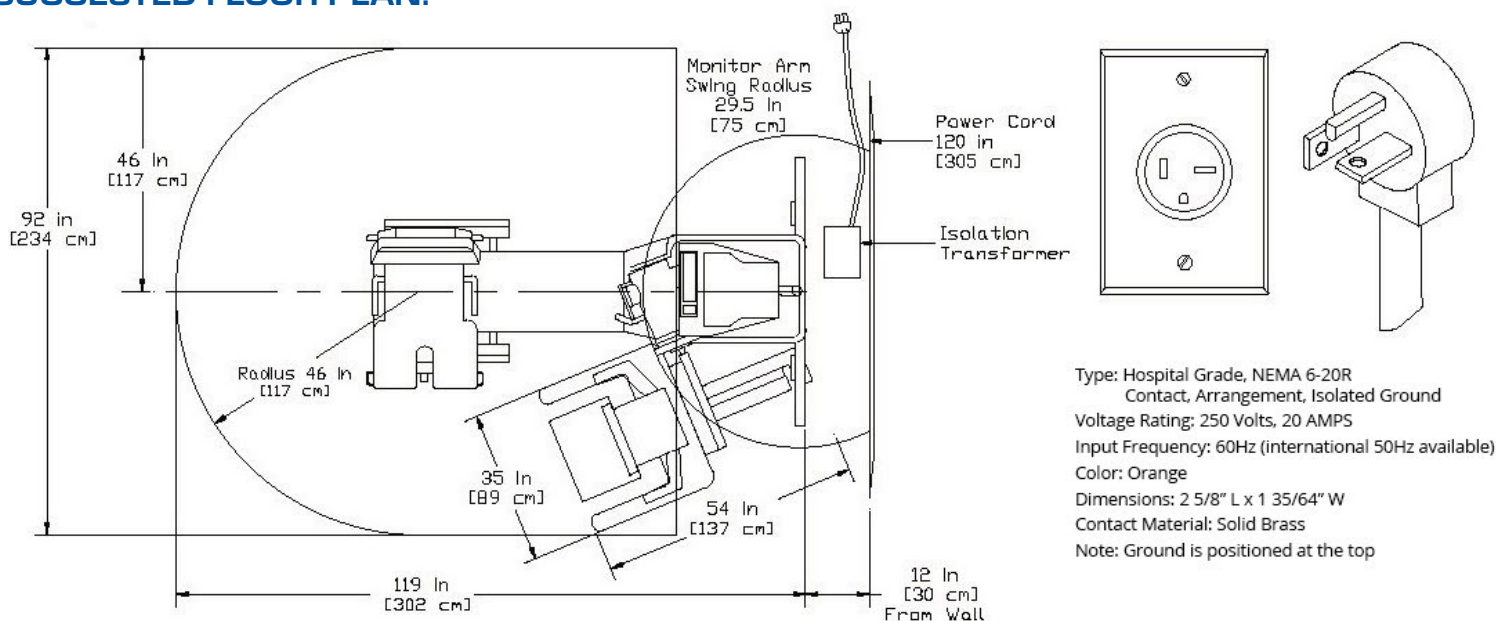**Isometric:** zero speed, variable resistance, patient controlled

Isotonic: variable speed, fixed resistance, patient controlled

Zero Gravity Mode: Software/dynamometer removes weight of the limb and attachment during test & exercise.

THE DYNAMOMETER		
PERFORMANCE	**MINIMUM**	**MAXIMUM**
Isokinetic Concentric Speed	1/16 deg/sec	500 ft-lbs / 678 Nm
Isokinetic Eccentric Speed	1/16 deg/sec	500 deg/sec
CPM Speed	1/16 deg/sec	500 deg/sec
Isokinetic Concentric Torque	1/10 ft-lbs	500 ft-lbs / 678 Nm
Isokinetic Eccentric Torque	1/10 ft-lbs	500 ft-lbs / 678 Nm
CPM Torque	1/10 ft-lbs	500 ft-lbs / 678 Nm

SUGGESTED FLOOR PLAN:

Monitor Arm Swing Radius 29.5 In [75 cm]

Power Cord 120 in [305 cm]

Isolation Transformer

46 In [117 cm]

92 in [234 cm]

Radius 46 In [117 cm]

35 In [89 cm]

54 In [137 cm]

119 In [302 cm]

12 In [30 cm] From Wall

Type: Hospital Grade, NEMA 6-20R Contact, Arrangement, Isolated Ground
Voltage Rating: 250 Volts, 20 AMPS
Input Frequency: 60Hz (international 50Hz available)
Color: Orange
Dimensions: 2 5/8" L x 1 35/64" W
Contact Material: Solid Brass
Note: Ground is positioned at the top

COLOR:

Bright White, Winkle Paint Finish
Sun Burst Yellow for moveable attachments
Black Upholstery and Seat Belt

STANDARD TEST AND EXERCISE PATTERNS:

Ankle: Plantar / Dorsiflexion Prone
Ankle: Plantar / Dorsiflexion Supine
Ankle: Inversion / Eversion
Elbow: Extension / Flexion
Hip: Abduction / Adduction
Hip: Flexion / Extension
Hip: Internal / External Rotation
Knee: Extension / Flexion Seated
Knee: Extension / Flexion Prone
Knee: Tibial Internal / External
Shoulder: Abduction/Adduction

Shoulder: Extension / Flexion
Shoulder: Horizontal Abduction / Adduction
Shoulder: Internal / External Rotation in 90° Abduction
Shoulder: Internal / External Rotation, Mod Standing
Shoulder: Internal / External Rotation, Mod Seated
Shoulder: Internal / External Rotation in 90° Flexion
PNF D1: Flexion - Adduction / Extension – Abduction
PNF D2: Flexion-Abduction/Extension-Adduction
Wrist / Forearm: Pronation / Supination
Wrist: Extension / Flexion
Wrist: Radial / Ulnar Deviation

OPTIONAL SOFTWARE MODULES:

Research Toolkit – Allows the user finer control of the HUMAC NORM Dynamometer. For example: adjust speed in increments of 1/16 deg-sec.
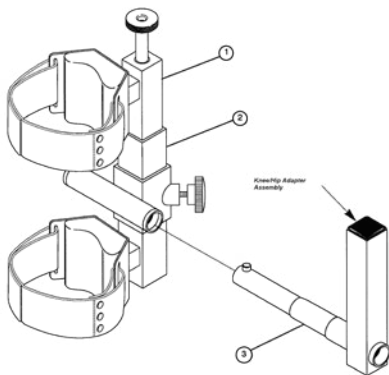
HUMAC EMG Module – Allows the user to stream EMG into the HUMAC Software. Currently compatible with Delsys and Noraxon EMG Systems. Please let us know if you have another brand.

HUMAC E-Stim Module – Allows the user to program the HUMAC Software to control Digitimer or Gras Electrical Simulator.
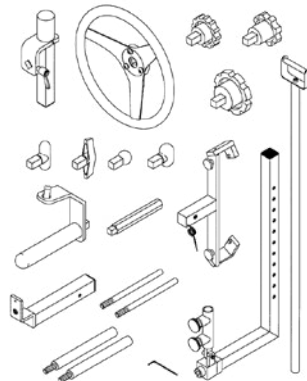
OPTIONAL ATTACHMENTS:

JOHNSON ANTI-SHEAR (JAS)

WORK SIMULATION TOOLS

WHEEL

CLOSED KINETIC CHAIN (CKC)

TRUNK MODULAR COMPONENT (TMC)