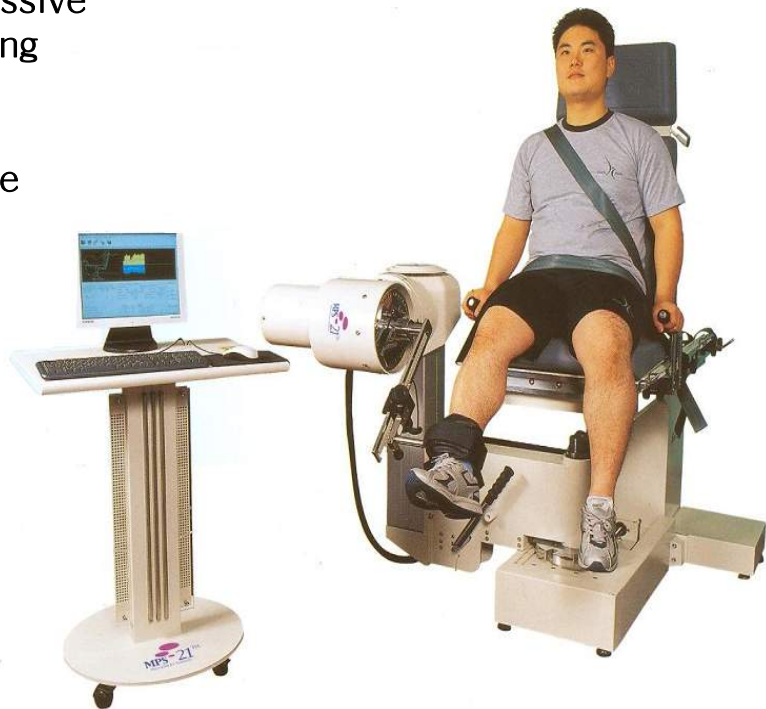


## Muscle Power Sprint (MPS-21)

Innovation of Isokinetic Machine measures  
 Isokinetic / Isometric / Isotonic / Passive  
 Concentric / Eccentric Muscle Loading  
 Touch Screen or Mouse  
 Automatic Position Movement  
 Customer Request Dimension Change  
 Enhanced Computer Graphics  
 Clinically Oriented Application



## Advanced Technology

- ❑ MPS21 is an automated electronic robotic dynamometer used in the computerized assessment of muscle evaluation, prevention function and training.
- ❑ MPS21 has Isokinetic, Isometric, Isotonic, Passive muscle test mode.
- ❑ MPS21's package includes: Automatic linear actuator system for seat backrest, dynamometer and column positioning system
- ❑ MPS21 consists of the following components: Main Cart, Monitor Cart, Computer with Accessories Cart, Lumbar cart, Foot board cart.
- ❑ Computer and software with dynamometer give precise measurements, multiple exercise variations, versatile reporting capabilities, and simple-to-use features—all in one system

# MPS-21 Technical Specification

Modes	Speed	Torque
<b>Isokinetic concentric eccentric</b>	0-800°/sec	542 ft lbs/ 735Nm
	0-800°/sec	542 ft lbs/ 735Nm
<b>Isotonic</b>	0-800°/sec	542 ft lbs/ 735Nm
<b>Isometric</b>		542 ft lbs/ 735Nm
<b>Passive(CPM)</b>	0-800°/sec	542 ft lbs/ 735Nm

## Testing and Exercise of all these joint

<b>Ankle</b>	(Dorsi/Plantar flexion in Prone and Supine, Inversion/Eversion)
<b>Elbow</b>	(Extension/Flexion)
<b>Hip</b>	(Extension/Flexion, Abduction/Adduction)
<b>Knee</b>	(Extension/Flexion Prone and Sitting, Intra/Extra Rotation of Tibia)
<b>Lumbar</b>	(Extension/Flexion)
<b>Shoulder</b>	(Extension/Flexion, Abduction/Adduction, Intra/Extra Rotation Standing/Sitting with Arm abduction to 45°)
<b>Wrist</b>	(Extension/Flexion, Radial/Ulna Deviation, Pronation/Supination)

## Movement Specification

- Electronic Seat Positioning  
Backrest Seat Forward/Back (0-150mm)  
Backrest Seat Angle Up/Down (0-90°)
- Electronic Dynamometer Positioning  
Dynamometer Height Up/Down (0-500mm)  
Dynamometer Movement (0-400mm)
- Manual movement Left/Right (0-180°)
- Manual Seat Angle (0-15°)
- Manual Dynamometer rotation (0-360°)
- Manual Dynamometer Title (0-360°)

## Computer

Pentium III, RAM 512MB, HDD 40GB, 15Inch LCD Monitor, CD-RW, Keyboard, Color Printer, Mouse Or Customer request better

## Software

한글Windows.XP

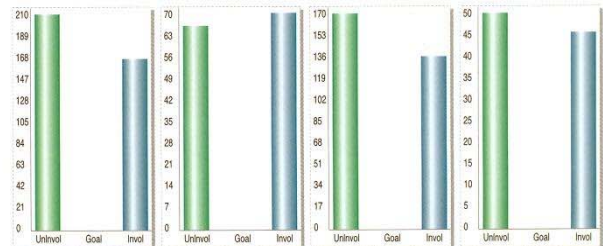
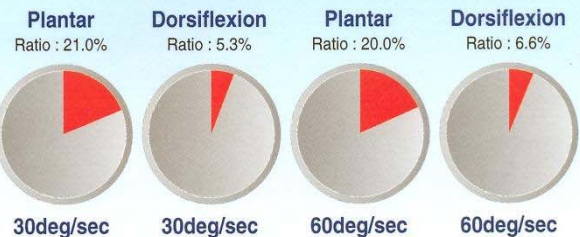
## Power

220Volt, 60Hz, 3Kw

## General Report (Isokinetic)

Patient ID 2003-0000000031 Test ID 19 Test Date 2003-09-24  
 Name 김광선 Gender Male  
 Birth Date 1983-06-17 Height 174cm ( 68inch) Weight 70Kg ( 154lbs)  
 Diagnosis Ankle sprain of ligament involvement Involve side Ankle Left  
 Protocol Name : Two Speed Low (30/60)  
 Test Mode : Isokinetic Joint / Side : Ankle / Both Sides  
 Pattern : Plantar/Dorsiflexion (Supine)  
 Get : Gravity comp. Enable Action Type : Con / Con

Set Speed & Sets	First Set : 30 / 30 (°/sec) & 5						Second Set : 60 / 60 (°/sec) & 10					
	Plantar			Dorsiflexion			Plantar			Dorsiflexion		
Patter	Right	Left	Ratio	Right	Left	Ratio	Right	Left	Ratio	Right	Left	Ratio
Peak Force	947.8	749.1	21.0	302.3	319.1	5.3	770.0	616.3	20.0	225.3	210.4	6.6
Peak Torque(Nm)	142.2	112.4	21.0	45.4	47.9	5.3	115.5	92.4	20.0	33.8	31.6	6.6
Peak Torque% BW	203.1	160.5	-	64.8	68.4	-	165.0	132.1	-	48.3	45.1	-
Angle of Peak Torque	8	7	-	11	17	-	2	9	-	9	14	-
Total Work(BWR)(Joule)	64.2	43.5	32.3	20.4	23.7	13.8	53.2	40.6	23.6	15.7	15.3	3.0
Total Work(BWR)%BW	91.7	62.1	-	29.2	33.9	-	76.0	58.0	-	22.5	21.8	-
Avg Power(BWR)(Watts)	44.3	37.3	15.9	14.1	20.3	30.6	73.4	69.6	5.1	21.7	26.2	17.0
Avg Power(BWR)%BW	63.3	53.2	-	20.1	29.0	-	104.8	99.5	-	31.0	37.4	-
Set Total Work(watts)	234.9	144.4	38.5	79.9	79.3	0.8	438.3	318.0	27.4	109.6	100.1	8.7
Range of Motion(degree)	44	35	-	44	35	-	44	35	-	44	35	-
Agon/Antag Ratio	31.9	42.6	-	31.9	42.6	-	29.3	34.1	-	29.3	34.1	-



Peak Torque / Weight (%)

Command :

Signed : \_\_\_\_\_ Date : \_\_\_\_\_