

## Supplementary Material

## 1 SUPPLEMENTARY TABLES AND FIGURES

## 1.1 Tables

Table S1. Arrangement of the PAMs

no.	PAM length (mm)	tube length (mm)	function
#1	310	260	hip extension
#2	360	310	hip flexion
#3	344	250	knee flexion
#4	350	300	knee extension
#5	380	280	ankle extension
#6	396	270	ankle flexion

Table S2. Comparison of Joint Range of Motion Between Robot and Human

Joint range of motion	Robot (flexion / extension)	Human (flexion / extension)
Hip joint pitch	$+10 \sim -10^{\circ}$	$+20 \sim -20^{\circ}$
Knee joint pitch	$+50\sim0^{\circ}$	$+60\sim0^{\circ}$
Ankle joint pitch	$+30 \sim -15^{\circ}$	$+20 \sim -5^{\circ}$