



SIERRA (FS1)

Products Characteristics/产品特性

- Patented unique tilt design, compare to the other energy store foot, FS1 has long toe plate, which can provide an excellent performance.
 - Split toe can provide the multi-direction ankle function, available for various ground, with the shock absorb function, makes walk easy and comfortable.
 - Outstanding nature foot keel design, gives perfect energy store and energy return.
 - Effective vertical shock absorption function, decrease the impact to the stump, knee, hip and spine.
 - 9 activity/weight categories.
 - Available for different ages and activity levels.
- 获得专利的独特斜顶设计，和目前世界上其他同类储能脚相比，FS1背屈弹板更长，保证假脚的“全能脚”性能。
 - 大分叉结构，有优异的万向功能，适合所有路况，更加安全，结合扭力及旋转功能，使行走更加舒适、省力。
 - 无与伦比的仿人体自然脚弓结构，具有完美的高能量存储与返还功能。
 - 有效的垂直减震功能，降低了对残肢末端、膝关节、髋关节和脊椎造成的冲击。
 - 个性化设计，九级重量活动等级可供选择。
 - 适用群体：所有不同年龄段及各种活动等级的截肢者。

技术参数

Technical parameters

尺码 Size	最大承重 User Weight Rating	硬度级别 Stiffness Category
22-30 cm	360 磅/lbs	1-9
连接器 Connector	跟高 Heel Height	保质期 Warranty
内嵌式阳四棱锥 Integral male pyramid	3/8"	36 月/months

清关尺寸及重量

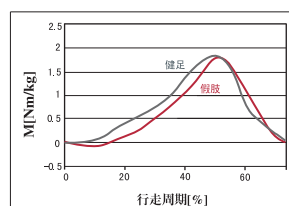
Clearance & Weight

尺码 Size	清关尺寸 Clearance	弹板 Foot	脚壳 Shell
22-25 cm	5.2 in	343g	127g
26-28 cm	6.0 in	404g	159g
29-31 cm	6.7 in	493g	219g

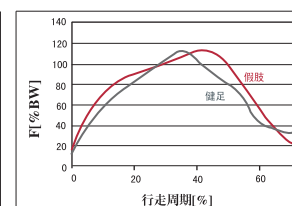
Principles of Biology/生物力学原理

Ankle movement of the curve shows the characteristics of the feet of gentle rolling balance, and normal human movement, ankle flexion angle of the highest health and the foot is no obvious difference between, leave the foot is very close to full health The ankle motion.To follow in the foot on the ground when a rebound off the foot when the largest health and the foot is also very close to that of the prosthetic limb function and health are very similar, in the course of walking can effectively alleviate the pressure on the health of the foot.

踝关节运动曲线的特征显示了脚板和缓平衡的滚动运动状态，与人体正常运动相比，踝关节屈曲角度的最高点和健足之间没有明显的差距，假脚非常接近健足踝关节的运动状态。在足跟着地时地面反弹最大时假脚和健足也非常接近，表明假肢的功能和健肢非常类似，在行走过程中可以有效地减轻对健足的压力。



踝关节外部扭力特征



地面反弹力特征

