

Getting a Handle on Grip Strength

George B. Page¹, Steve Fleming¹, and Greg G. Weames²

¹Page Engineering, Inc., Jackson, MI 49201

²Page Engineering, Inc., Georgetown, Ontario L7G 3E5

Corresponding author's Email: george@pageengineering.net

Abstract: Hand function has been studied for centuries. And in modern times, hand capability is often reduced to grip and pinch strength performance—also called clinical grip strength. This paper provides a taxonomy of maximum grip scenarios and illustrates more contemporary concepts of grip capability, including functional grip strength and brake away grip strength. Real world industrial examples are provided whereby functional and brake away grip strength are relevant and are specifically estimated in comparison with the grip demands of the job task.

.

Keywords: clinical grip strength, functional grip strength, hand function