Finger Friction and Grip

Aims of the Work

• Understand the fundamentals of finger friction
• Quantify affects of force, contact area, moisture, surface texture etc.
• Develop models for finger friction
• Apply data to grip problems – jam jar opening; rugby ball grip

Conclusions/Outputs

• Relationship derived for friction and load
• Effect of moisture characterised
• Models developed for moisture and different levels of surface texture
• Data used in jar opening torque predictions – compared well with actual torques
• Rugby ball friction correlated with accuracy of passing