



Figure 1. Experimental setup.



Figure 2. Force transducer.

- Abstract** The present study examined the effects of force transducer location on the accuracy of force measurement. The force transducer was located either at the hand or at the handle. The results showed that the force transducer location had a significant effect on the accuracy of force measurement. The force transducer located at the hand resulted in a higher accuracy of force measurement than the force transducer located at the handle. The results also showed that the force transducer location had a significant effect on the variability of force measurement. The force transducer located at the hand resulted in a lower variability of force measurement than the force transducer located at the handle. The results suggest that the force transducer location is an important factor to consider when designing force measurement systems.
- Introduction** Force measurement is a common task in many fields, including ergonomics, sports, and engineering. The accuracy of force measurement is a critical factor in many applications. The present study examined the effects of force transducer location on the accuracy of force measurement. The force transducer was located either at the hand or at the handle. The results showed that the force transducer location had a significant effect on the accuracy of force measurement. The force transducer located at the hand resulted in a higher accuracy of force measurement than the force transducer located at the handle. The results also showed that the force transducer location had a significant effect on the variability of force measurement. The force transducer located at the hand resulted in a lower variability of force measurement than the force transducer located at the handle. The results suggest that the force transducer location is an important factor to consider when designing force measurement systems.
- Methods** The present study was a within-subject design. The participants were 10 healthy adults. The force transducer was located either at the hand or at the handle. The participants performed a series of force measurements. The results were analyzed using a two-way ANOVA. The results showed that the force transducer location had a significant effect on the accuracy of force measurement. The force transducer located at the hand resulted in a higher accuracy of force measurement than the force transducer located at the handle. The results also showed that the force transducer location had a significant effect on the variability of force measurement. The force transducer located at the hand resulted in a lower variability of force measurement than the force transducer located at the handle.
- Results** The results showed that the force transducer location had a significant effect on the accuracy of force measurement. The force transducer located at the hand resulted in a higher accuracy of force measurement than the force transducer located at the handle. The results also showed that the force transducer location had a significant effect on the variability of force measurement. The force transducer located at the hand resulted in a lower variability of force measurement than the force transducer located at the handle.
- Conclusion** The results suggest that the force transducer location is an important factor to consider when designing force measurement systems. The force transducer located at the hand resulted in a higher accuracy of force measurement and a lower variability of force measurement than the force transducer located at the handle.