No fit - no safety.

Stress testing physical try-ons vs. digital recommendation.

Try-on with leading working and safety shoe partner.

> Wearing safety shoes requires a perfect fit on the wearer. On construction sites, during rescue operations and in use under extreme conditions, the right fit of a shoe can mean the difference between life and death.

We have started the following large-scale test to stress-test our software to see if it can meet these requirements

March 2023.

Footprint Technologies conducted a test with 71 users all testing:

- 3 different shoe models
- in 3 different sizes

639 single try-ons

SETUP ON-SITE:

01 Shoe orthpedic specialist to pre-select normal and wide foot types

02 One computer vision specialist from Footprint Technologies

03 One software and operations specialist from footprint Technologies

04 Each foot was measured with the Footprint algorithm (Key Point Detection V 1.0.1)

05 Ideal toe allowance was determined empirically for each article.

06 Users provided a ' Yes', a 'So-So' (not perfect but okay) or a 'No' answer for every size tested. A correct matching is considered when a 'Yes' or a 'So- So' was given.

Results above everyones expections

94% **got the right size recommendation by Footprint:**

meaning physical try-on confirmed Footprint's digital recommendation
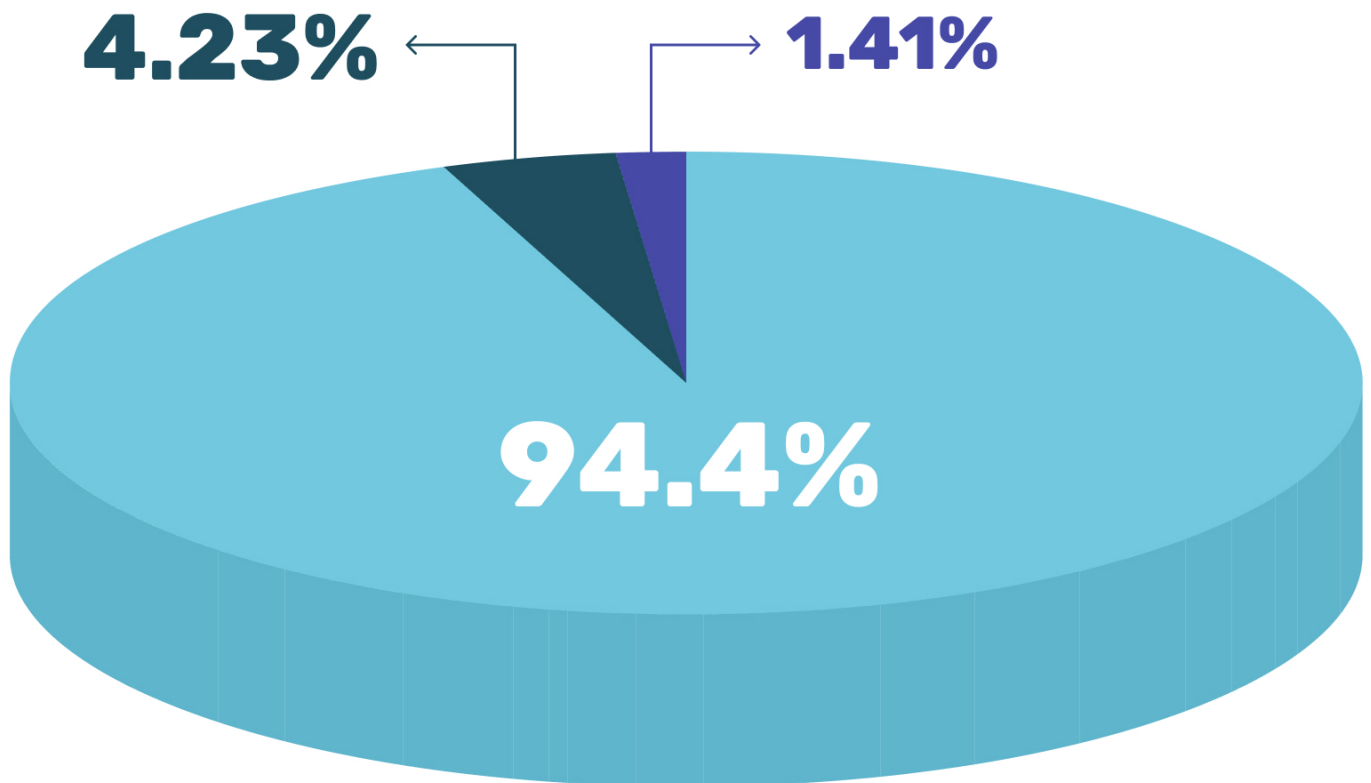
DETAIL RESULTS

94.4%
Correct size: 67/71

4.23%
Overestimated size: 3/71

1.41%
Underestimated size: 1/71

4.23%   1.41%

94.4%

*The overestimated and underestimated cases are most likely irrational user decisions and implausible cases. Experienced shoe orthopedics specialists know such cases and accept they are part of each try-on-session. They are still taken into account.

CONCLUSION

Footprint's service for measuring feet and recommending the best size-and- fit works robust and accurately.

The overall success rate is above the expectations of all parties involved. The tested shoes show a higher success rate than other types of shoes, most likely due to their ergonomic design.

To conduct try-on sessions effectively and efficiently, Footprint has developed a tool for data collection, evaluation, and visualization.

NEXT STEPS

Automation of the preselection of normal / wide foot type, which used to be done by humans
→ classification of foot type based on width and further foot parameters.

DO YOU WANT TO KNOW MORE?

Reach out with one of our footwear specialists. We are happy to get in touch with you! **www.footprinttech.de**
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