

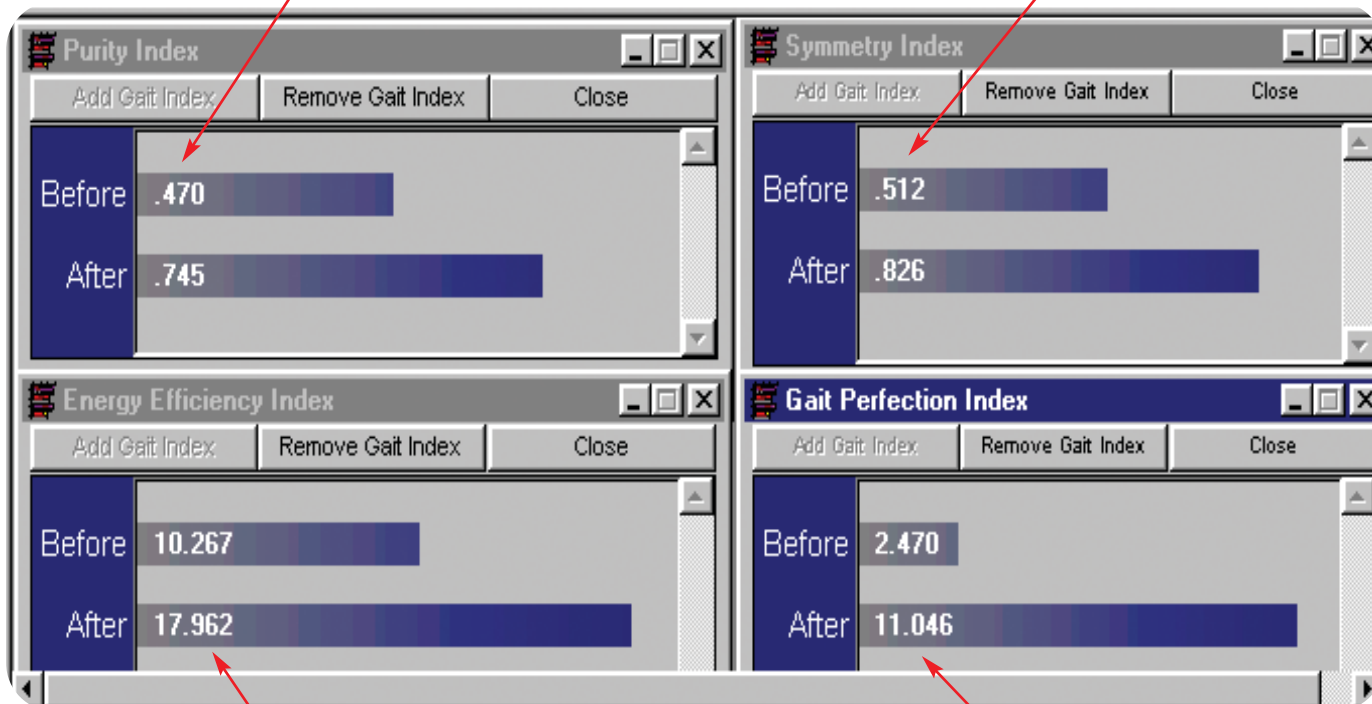
CoM'analysis

Add-On to F-Scan® & F-Scan® Mobile

CoM'analysis® (Center of Mass Analysis) is an add-on software to the in-shoe foot pressure measurement systems. CoM'analysis software calculates and displays parameters for comparisons associated with the behavior and performance of the body's center of mass. Using sophisticated Fourier and Harmonic analysis, CoM'analysis provides the user with four simple numerical Gait Indices (Purity, Symmetry, Energy Efficiency, and Gait Perfection) that quantify a subject's gait relative to ideal gait parameters.

The **Purity Index** represents the efficiency of potential to kinetic energy transfer.
=1.000 for perfect energy transfer

The **Symmetry Index** represents the degree of symmetry between the left and right foot.
=1.000 for perfect symmetry



The **Energy Efficiency Index** represents the energy conserved in moving the CoM against gravity.
The greater this index, the more energy is conserved

The **Gait Perfection Index** combines the Purity, Symmetry, and Energy Efficiency indices.
As this index increases in value, the subject's gait gets closer to ideal

CoM'analysis is a powerful tool providing you with a multitude of graphs and gait parameters.

You will be able to:

- instantly compare gait efficiencies after temporary adjustments to orthotics, footwear, or after joint or postural manipulations by simply viewing four numerical gait indices
- fine-tune any adjustments or manipulation made to achieve the highest gait efficiency possible
- monitor your subject's progress quantitatively over time by comparing present with previous numerical gait indices
- identify and classify foot, gait, and posture related problems in terms of four numerical gait indices, bar graphs, and other valuable graphics
- view velocity for center of mass, center of pressure position, and velocity trajectories

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information on any of our
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