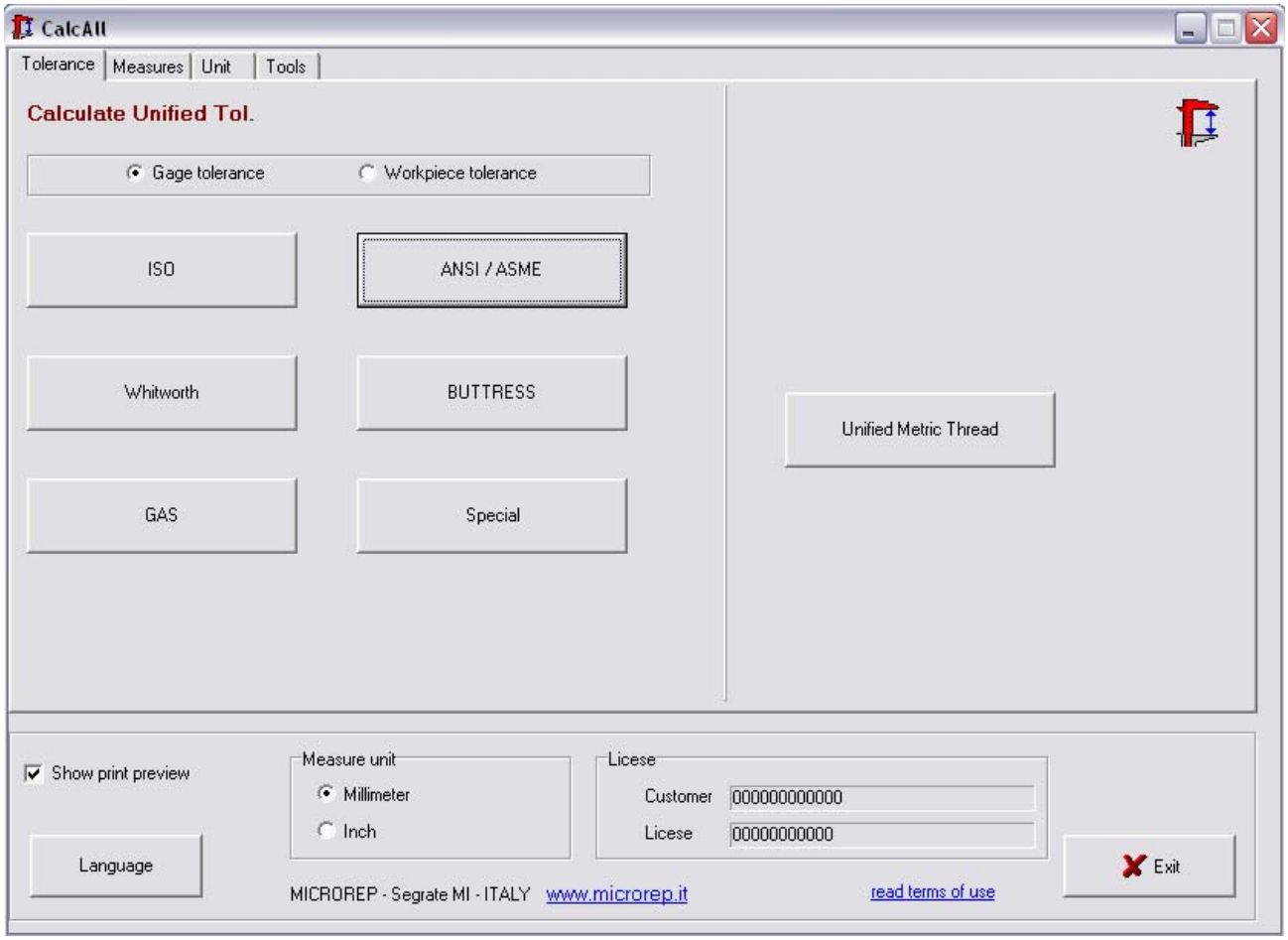
CalcAll - Tolerance Software

Tolerance calculation for Work-piece & Gage

» technical libraries for tolerances, measurement and conversions «



JOINT INSTRUMENTS

Features

- Tolerance calculation for workpieces:
  - plain shaft
  - plain hole
  - thread shaft
  - thread hole
- Tolerance calculation for gages:
  - plain plug
  - plain ring
  - thread plug
  - thread ring

- Effective diameter tolerance, drilling hole size, external and internal diameter of the gage.

- Various norms available:
  - ISO metric gages and workpieces - according to ISO/R - 1938, ISO 286, ISO 965/1, ISO/R – 1502.
  - ANSI/ASME gages and workpieces - according to ANSI/ASME B1.13M (ISO 965/1), ANSI/ASME B1.16M-1984, Plain gage ANSI-inch, ANSI/ASME B89.1.6M-1984, Gagemaker's Tolerance Chart, ANSI/ASME B.1.1-1982, ANSI/ASME B1.2-1983, ANSI/ASME B.1.20.1-1983, ASME B1.20.5-1991.
  - Whitworth gages and workpieces - according to BS 919, BS 84.
  - Buttress gages and workpieces - according to ANSI B1.9, BS 1657.
  - Gas gages - according to ISO 7, ISO 228.

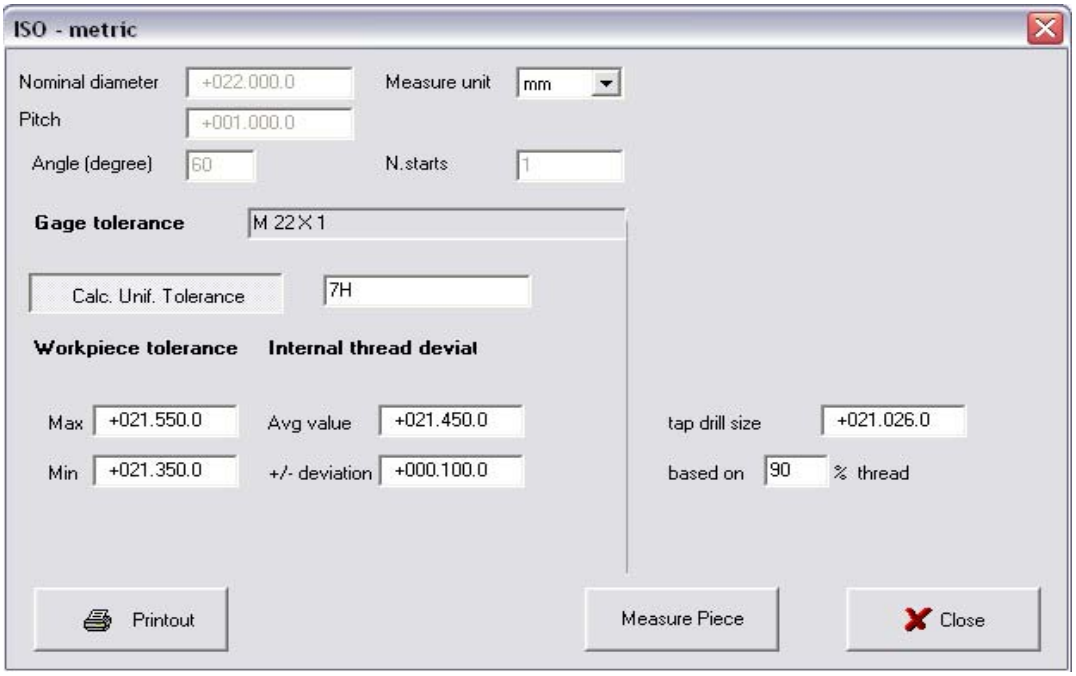
- Measurement formulae for threads:
  - three wire method
  - contact arms
  - T-sphere

- Unit conversion:
  - length (mm, inch, feet, etc.)
  - temperature (°C, °F, etc.)
  - mass (Kg, pounds, etc.)
  - degree (sexagesimal, radians, etc.)
  - pressure (atm, bar, etc.)

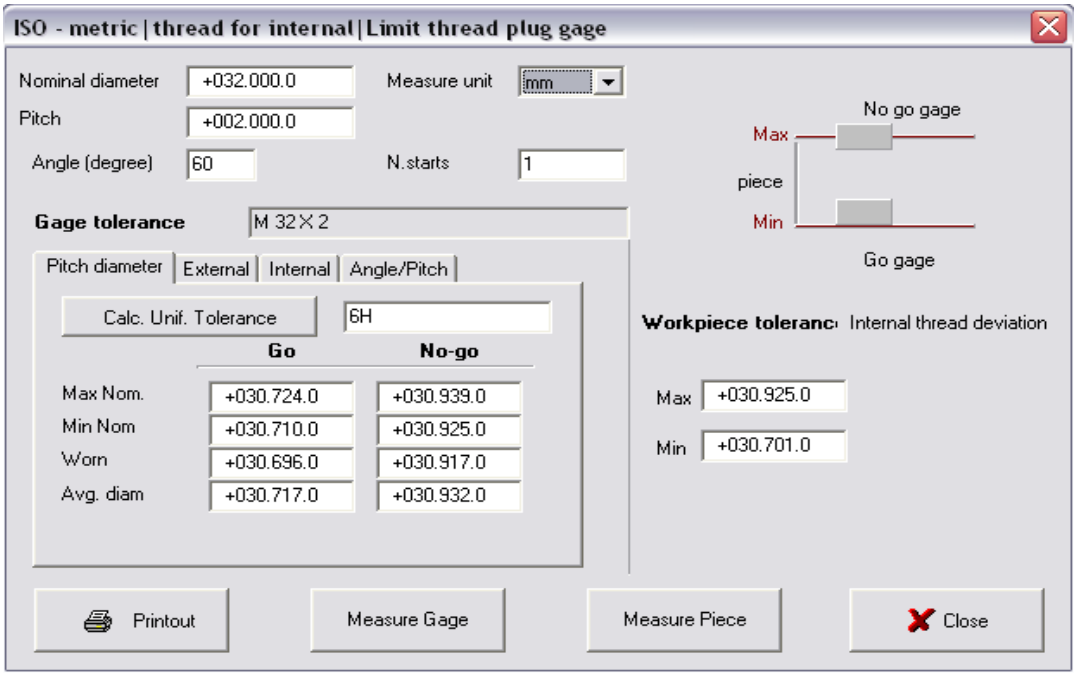
- Thermal expansion calculation for common materials

- Printout of measurement results and tolerances calculation

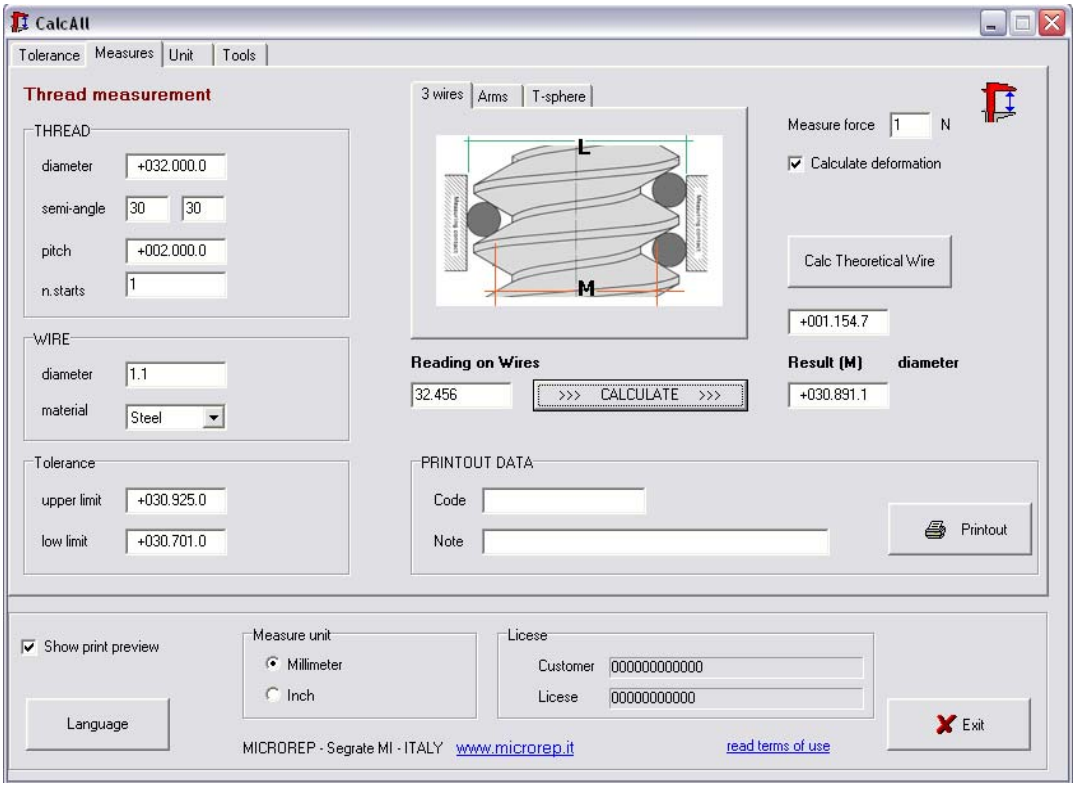
Work-piece tolerance



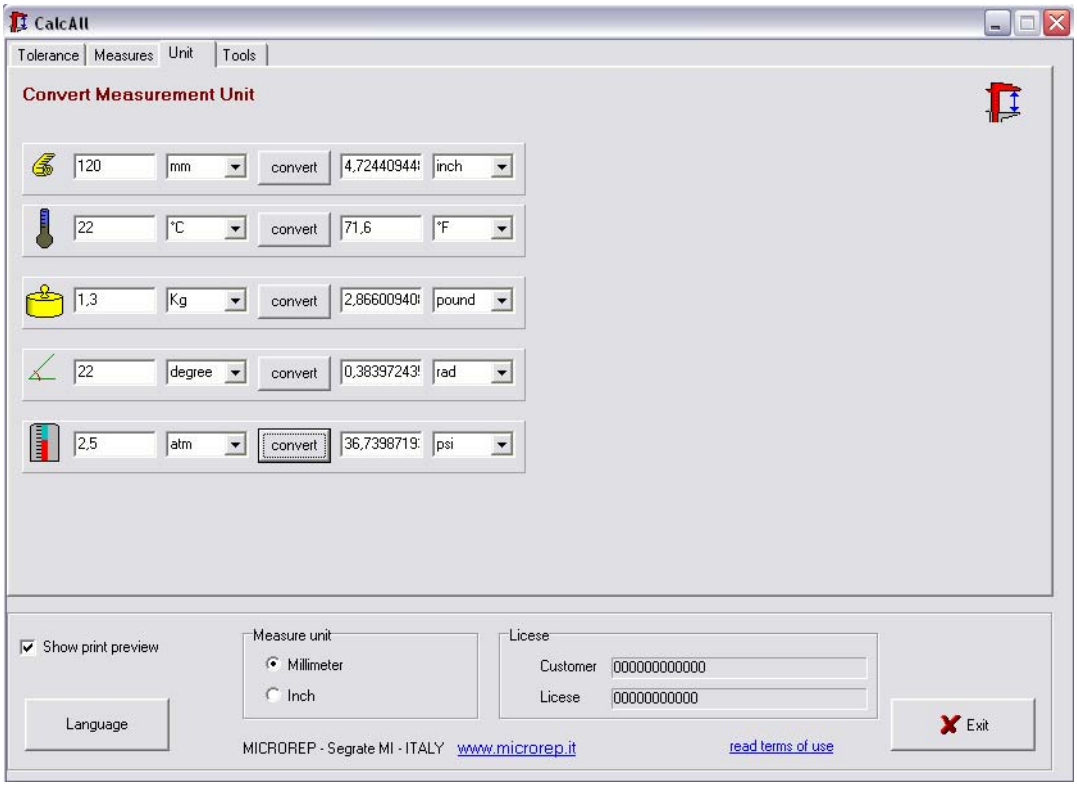
Gage tolerance



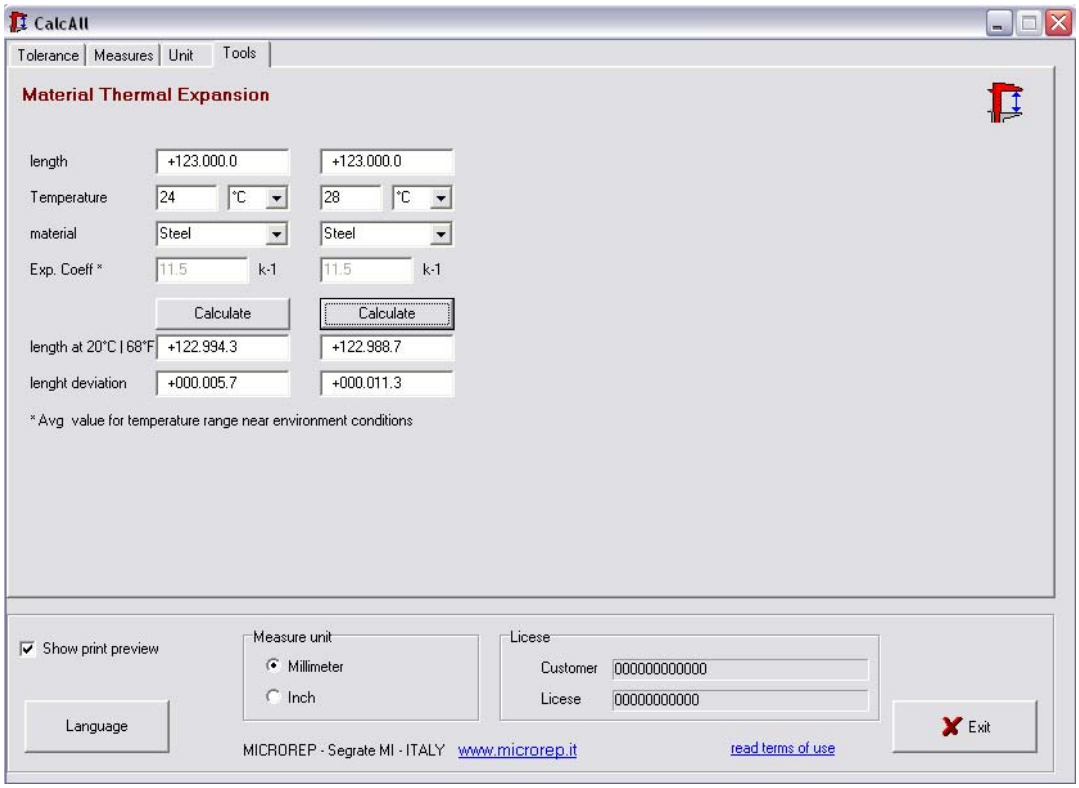
Thread measurement formulae



Units conversion



Material thermal expansion



MICROREP

specifications and equipment subject to change without notice

v.1.0