

**Defects control**

Itasonic 2010[®] can be used to find structural defects such us:

- variation of shape and weight (ex. parts with incomplete forms, casts or sintered)
- presence of cracks, stress cracks, fissures or discontinuity (ex. alumium die casting parts, pressed steel parts, parts in cast brass)
- density differences and elasticity modules (ex. controls on % of nodularity in spheroidal cast iron parts)
- presence of oxidations and contaminations (ex. presence of iron waste in sintered alumium parts)
- presence of inclusions
- stripping of the material
- heat treatments failed or not performed

It will be necessary to set up the system for the parts to be tested: it needs a significant sample (10-15 pieces) of "good" parts and a significant sample of "rejects", which have the defect searched. With a guided procedure of few minutes, the pieces of the calibration sample will be tested; Itasonic 2010[®] will show the frequencies (if present) and the tolerances able to discriminate the good parts and the rejects, all in a very short time.