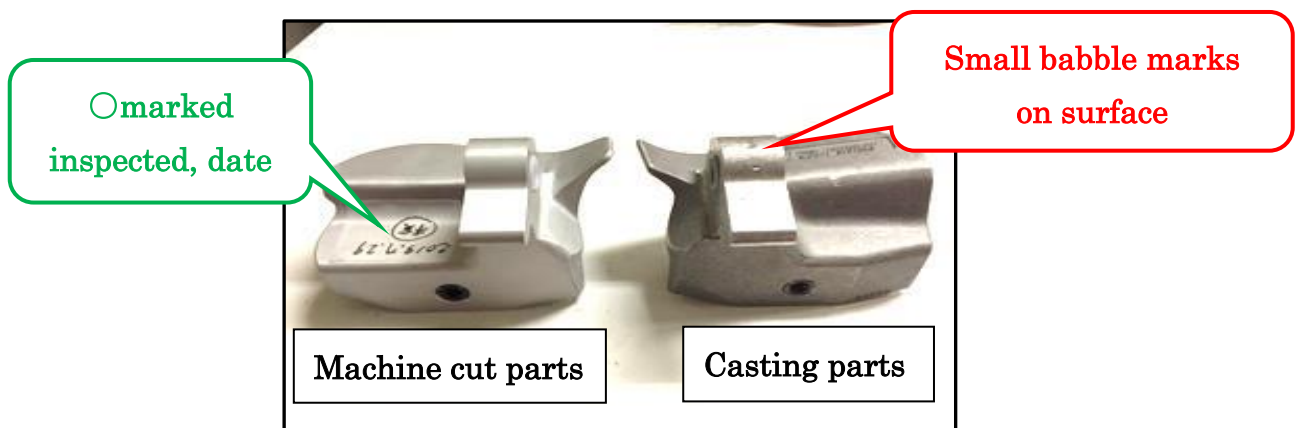


[ Casting and Machine cutting parts ]

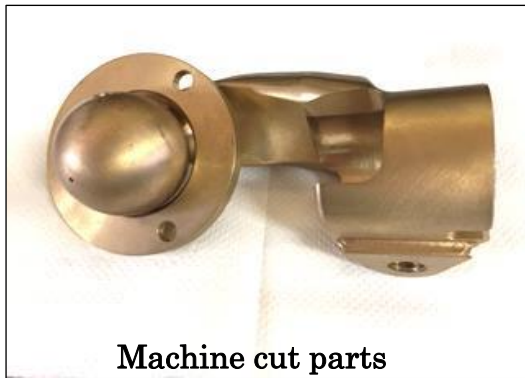
ATD should be **durable and accurate CG location**.

- In 1996-1998 ; Sand casting to Wax casting
  - JASTI had experienced Clavicle and clavicle link broken by crash test or sled test.
  - The broken parts had been manufactured with sand casting which contain more small babbles inside. JASTI have changed **from the sand casting to the wax casting to reduce air babbles inside**.
  - Air babbles number ration are: Sand casting 100 : Wax casting 3-5.
  - As a result, Wax casting parts was more durable than the sand casting.
  -
- In 2010 ; Machine cut parts from material block
  - JASTI has changed **from almost of all wax casting parts to the machine cutting parts from the material block**. Cut parts are very durable than the wax casting parts.
  - JASTI uses most of metal parts made from machine cutting works except Skull and Pelvic bone. **All of molded tools are also made by cutting works, not casting any more**.

Picture 1.: Clavicle link (Clavicle as well)



Picture 2.: Femur (machine cut parts and casting parts)



**Remarks:**

Machine cutting works make no babble inside the parts.

Machine cutting works make the parts accuracy and CG location by 3D modeling.

These 3D machine cutting works can be applied to any other material such as Bronze parts.

Any question and/or request to [info@jasti.co.jp](mailto:info@jasti.co.jp)

URL <http://www.jasti.co.jp/product/dummy.html>

Thank you for your cooperation.