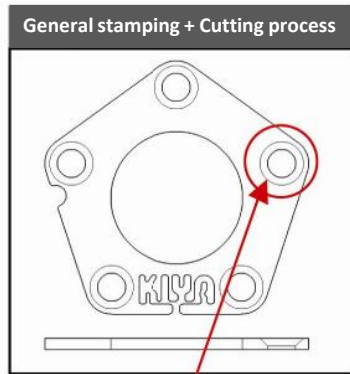


**30% cost reduction in Taper mold and Double the precision of surface accuracy roughness.**

**Conventional product**



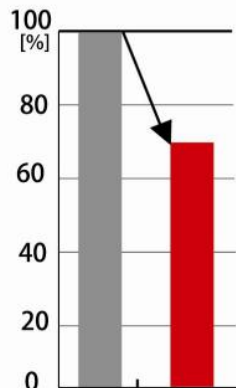
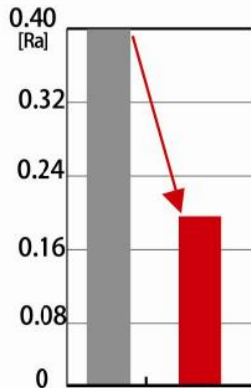
**Customer challenges**

- High costs
- Surface roughness precision is coarse
- Lack of strength

**Taperd shape**  
**Cutting method... 5 places**

50% increase in precision.  
(Surface roughness precision)

30% Cost reduction



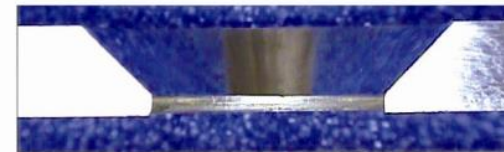
Conventional KIYA's process    Conventional KIYA's process

**[KIYA's new process method]**

Resolved issues by using **Cold forging progressive stamping !**



**30% Cost reduction rate**



Material: SPHC  
Thickness: t3.2mm  
Post process:  
double side polish

CAE analysis usage  
**Utilize high rigidity/  
high precision stamping**

**Customer Benefits !**

- **30% cost reduction** was achieved by changing from the conventional cutting process to Kiya's CFP method!
- **Achieved equal to or better quality of surface roughness precision** compared to previous cutting method.
- **Taperd shape** : By using the new CFP method, Kiya have **achieved double the precision of surface roughness precision** compared to the conventional product. Conventional cutting method product, surface roughness precision=Ra0.4 vs CFP method product=Ra0.2
- Increase in **the taper shape strength** due to new process method!