

Die Detecting

## Smart sensor checks the mold **DD mag clamp**

The clamp with DD sensor which can numerically check the mold. It can detect the clamp force decrease caused by heat, mold base material and a clearance between the mold and magnet core face.



As for DD mag clamp, the status indicator is added to the control box (or operation side).



7-segment status indicator  
Built-in control box



liquid crystal status indicator  
(Option)

\* Mold displacement detection system Refer to **page → 32**

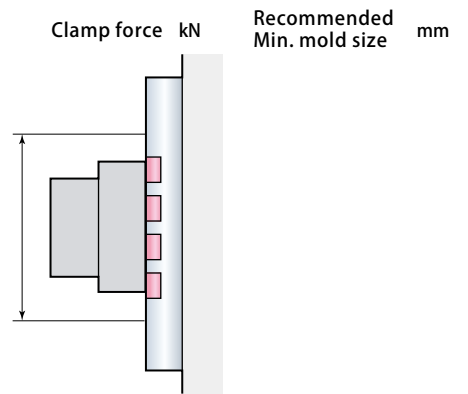
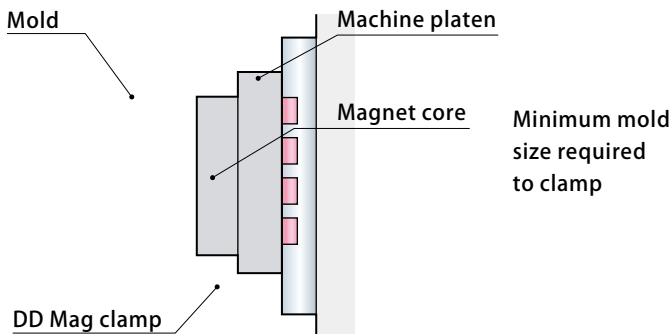
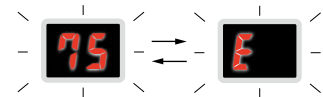
### Normal clamping status

The sensor indicates **AA** which means the mold has adequate size, material and temperature are appropriate to clamp and there is no gap between the magnetic surface and mold.



### Size detection

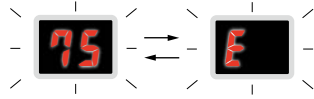
Detect **too small** mold



\* Contact Pascal for details.

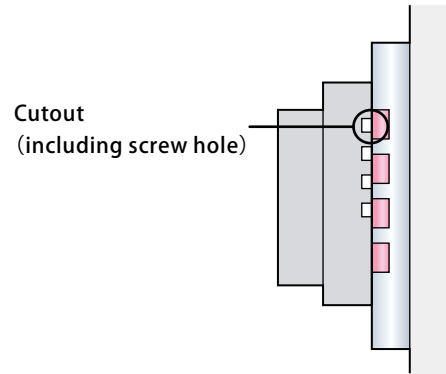
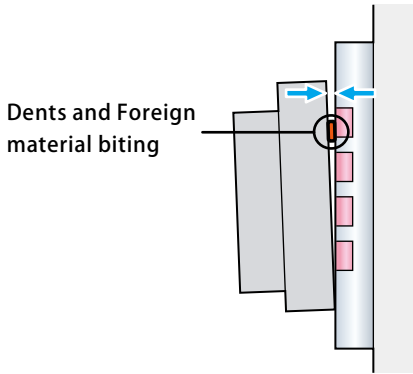
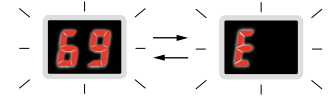
Gap detection

Clamp force decrease due to **the gap**



Clearance detection

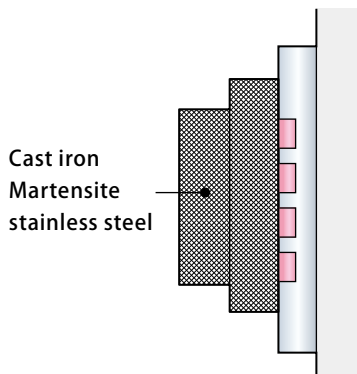
Clamp force decrease due to **a clearance**



The sensor output abnormal signal when clamp force decreases more than 20% due to gap or clearance.

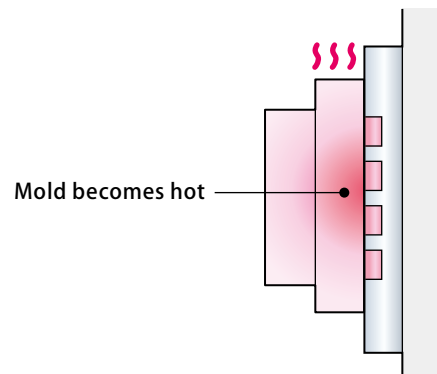
Material detection

Clamp force decrease due to **the material that are not easily magnetized.**



High temperature detection

Clamp force decrease due to **the mold heat-up**



Simply type of material or mold temperature does not make the clamping force decrease lower than 80% however the value goes down due to the force decrease.