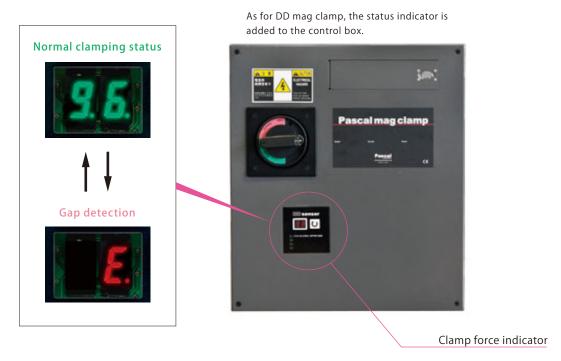
Die Detecting

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.



* Mold displacement detection system Refer to page → 32

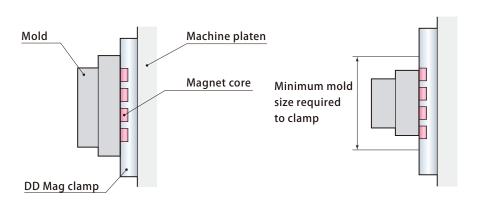
Normal clamping status

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





Clamp force kN	Recommended Min. mold size	mm
1000	280×280	
1800	330×330	
3500	475×475	
4500	565×565	
6500	635×635	
8500	710×710	
10500	790×790	
13000	855×855	

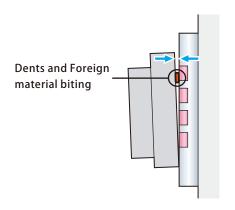
^{*}Contact Pascal for details.

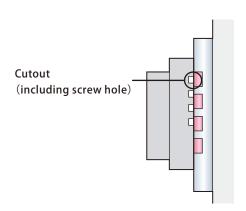
Gap detection

Clamp force decrease due to the gap

Clearance detection

Clamp force decrease due to a clearance



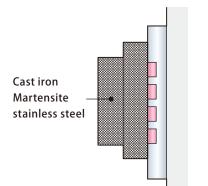


The sensor output abnormal signal when clamp force decreases more than 20% due to gap or clearance.

Material detection

Normal

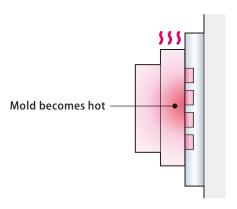
Clamp force decrease due to the material that are not easily magnetized.



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.