

## Targeted guidance of falling parts

In the production of plastic injection moulded parts, a certain process weakness can be observed time and again: Falling parts are not properly discharged into the good part containers. Holzer Herbrechtingen has developed a solution for this.



The problem: Falling parts do not find their direct way into the good part container, but are distributed throughout the machine bed. (Image: IMS Gear)

When the injection mold is disassembled, falling parts are automatically ejected. In the control process, the parts fall directly into the container located underneath. As with other applications, IMS Gear in particular had a problem during the production of plastic gears that falling parts were not completely discharged into the good part containers. Instead, they spread out in the machine bed. They were no longer allowed to be used because they might have impact points or there might be approaches under them which could not be detected by visual inspection.

This process was not a permanent state for reasons of efficiency and time economy. Therefore, a solution should be found that is at the same time straightforward, functional and ready to use. For this purpose, collection systems from Holzer that are already in use, which are equipped with a side protection curtain with floating bearing, were examined.



A floating side protection curtain ensures that good parts fall safely into the collection container.  
(Image: IMS Gear)

The floating side protection curtain is now already in production use and has already proven itself. The side protection curtain is attached to the side of the mould with magnets and moves with the mould plates with each new injection moulding cycle. If a side protection curtain is fixed slightly obliquely in a hurry without floating bearing, the fabric of the side protection will wear much faster when opening and tightening. However, the patent-protected floating bearing prevents an oblique roll-up, which gives a long service life of the side protection curtain.

Thus, the targeted guidance of the falling parts into the container below is ensured permanently.

Link to the original contribution of the Plastverarbeiter:

<https://www.plastverarbeiter.de/verarbeitungsverfahren/spritzgiessen/auffangsystem-mit-schwimmend-gelagertem-schutzrollo-344.html>