



3 Injection molded articles are taken from the conveyor belt for packing.

4 More than 450 injection molding machines produce different objects in the production centre in Dietenhofen, Germany.

- Adherence to the maximum load of the container.
- Compute the minimum volume bounding box of a single part.
- Automatic choice of an appropriate container from a list. For PLAYMOBIL, six different container sizes are used.

part, i.e. by simulating gravity, velocity and collision among parts.

Loading in Stacks

In addition to arranging objects in layers, PackAssistant can also load them in stacks. This is particularly suitable for thin-walled objects, whereby stacking can be vertical or slanted. The Brandstätter group produces about 2 500 injection molded objects, which are packed in stacks.

Advantages

PackAssistant users have improved the packing density of containers by up to 25 percent. This improvement also has a positive effect on other areas in the whole logistic chain: fewer containers means reduced storage space needed and lower transportation and handling costs.

Filling with Loose Goods

Small parts are often not put into a container in an orderly fashion but are simply allowed to fall from a conveyor belt into a container. PackAssistant can estimate how many parts fit into a container by simulating the physical behavior of each

Moreover, PackAssistant makes an early calculation of the packaging data possible because the software uses the CAD-models of the objects, which are available before the first object has been manufactured.

About PLAYMOBIL and the geobra Brandstätter Stiftung & Co. KG

geobra Brandstätter Stiftung & Co.KG – headquartered in Zirndorf, Germany – is the producer of PLAYMOBIL and known for premium toy quality »made in Europe«.

The 7.5 cm tall PLAYMOBIL figure is the cornerstone of this creative toy system, and is an internationally award-winning product. The imaginative role play opportunities, integrated with a variety of historical and modern play themes is fascinating to children and highly valued by parents and educational practitioners alike. Since its launch in 1974, 2.8 billion PLAYMOBIL figures have been produced. The company distributes its toy system, consisting of around 30 different play themes, in more than 100 countries and employs more than 4,100 people. Worldwide turnover for the Brandstätter Group reached 595 million Euros in 2014. PLAYMOBIL's certified high quality is guaranteed by using company owned European production sites in Germany, Malta, the Czech Republic and Spain. Since 2000, the innovative company has also been producing the LECHUZA brand of high-quality plastic planters with sub-irrigation system.

»Only by use of the PackAssistant technology could we get all relevant packaging data before the primary production. Thus, time-consuming packing tests could be avoided.«

Karina Freund, Department REFA, geobra Brandstätter Stiftung & Co. KG

More information:
www.playmobil.com