

RobotWorks overview

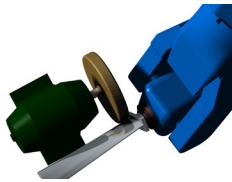
Robots have a bright future: glueing, deburring, polishing, grinding, palettizing and much more - the installed number of robots is increasingly very fast.

But there is a problem: the expensive teach-in. Changes sometimes are very hard to manage and will always take a lot of time.

RobotWorks is perfect for all teach jobs. RobotWorks enables to get jobs done, which would be too hard, too expensive or nearly impossible to teach: small numbers of parts, very complex parts or very small parts.

Even moving parts and fixed tools are no longer a big deal with RobotWorks. The more complex your job is, the greater will be the benefit using RobotWorks.

use of RobotWorks



RobotWorks is embedded within SolidWorks. With SolidWorks you can design your complete workcell, tools and parts. In 3D all geometric informations are known and so the user can extract the path just through a mouseclick. No need for teach-in anymore. Through the click on chamfers, fillets or faces for example, CAT (Computer Aided Teach-In) is available in the model. The path can be calculated immediately.

Saved tools and robot information will take care of the needed parameters for the workcell assembly. All parameters can be changed anytime, so you can take a look on different situations within a few minutes.

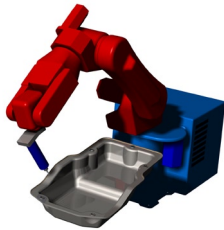
The following steps in the manufacturing process will not change through RobotWorks, because RobotWorks will not move the robot direct.

And whats about palletizing?

All what you can imagine and create within SolidWorks as a collection of parts is immediately a palette. Whats the meaning of that? Palettes now can be in any shape you would like to have them, without any restriction of patterns or defined sequence of loading and unloading.

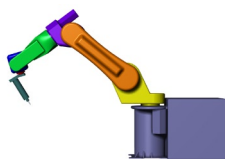
- every part can have its own location and orientation in relation to all other parts
- every kind of layer is possible - a pyramid or whatever you may need.
- you define the load sequence just through clicking the parts in the order you need them. There must be no rule, just your wish is important
- a palette may contain different parts!
- collision detection and reachstudy is made for every palette

features



- output of the path as robot file
- input of already existing paths will be available soon
- choose path through curves or faces
- joints limits and all necessary parameters of the robot can be defined
- adjustment of the path through offsets and other parameters possible
- create on every section of the path your own point distance
- changed situation in the workcell can be checked immediately
- movements in free air are possible to define
- add events to every point - userdefined events are possible
- very easy to use and learn
- very profitable invest - first job done with robotworks you may earn all the money you spent on RobotWorks.

requirements



RobotWorks requirements:

- SolidWorks 2003
- well defined robotmodell with known limits. Every user can get his robot for free from us.
- 4 hour training

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SolidWorks

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