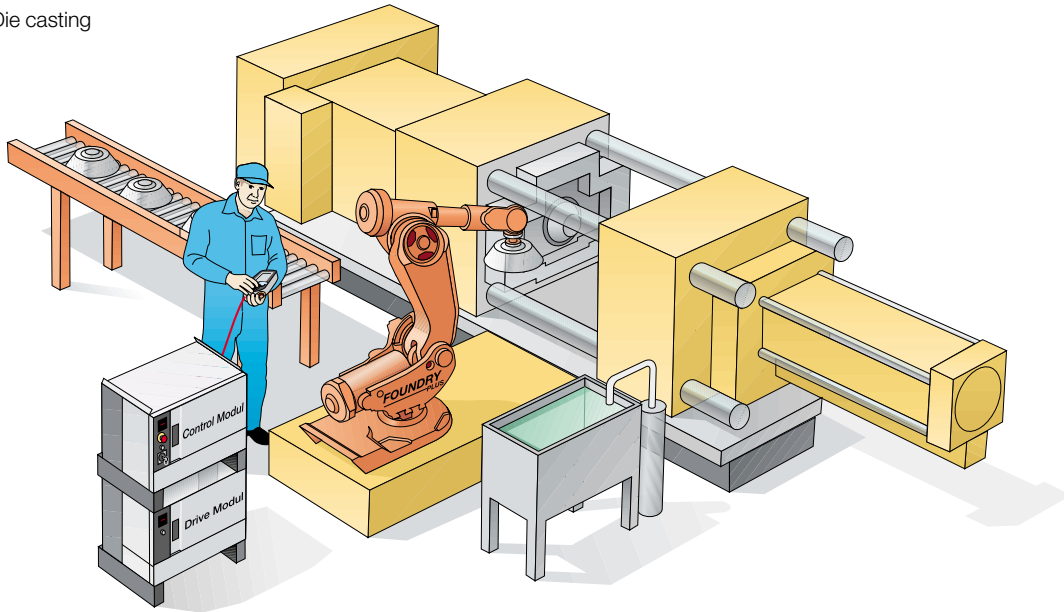# RobotWare DieCast

Industrial IT Software

Applications
■ Die casting

- ■ Easy to Install – Pre-defined machine interfaces

- ■ Easy to Program – Robot programming as easy as surfing the Internet

- ■ Easy to Operate – Constant process control and safe home run

RobotWare DieCast

RobotWare DieCast is a software product for easy programming, and operation of ABB robots for machine tending & post processing. It provides an easy to use user interface for programming and production including safe home run, user authorization, production statistics, event log as well as a standardized and structured way of programming a machine tending operation.

RobotWare DieCast combined with the machine logic constitutes a configured communication interface between robot and die cast machines.

Easy to Install

ABB offers a software solution that is quality assured and well documented. It guarantees a successful installation and configuration of ABB robots in a machine-tending cell, which reduce the risk during start of production. In addition the software is delivered with pre-defined interfaces for the most common machines, which allows short start of production for the end user.

Easy to Program

RobotWare DieCast helps the inexperienced robot programmer to start-up easier with the seven-step programming wizard. In just a few steps one can create a machine-tending program that fits your basic needs. The software is built with symbol programming that hides programming language (RAPID) from the user. The experienced robot programmer can utilize the advanced programming possibilities to create and modify unique stations and grippers. The combination of symbol programming and RAPID modifications gives a very powerful and flexible programming tool.
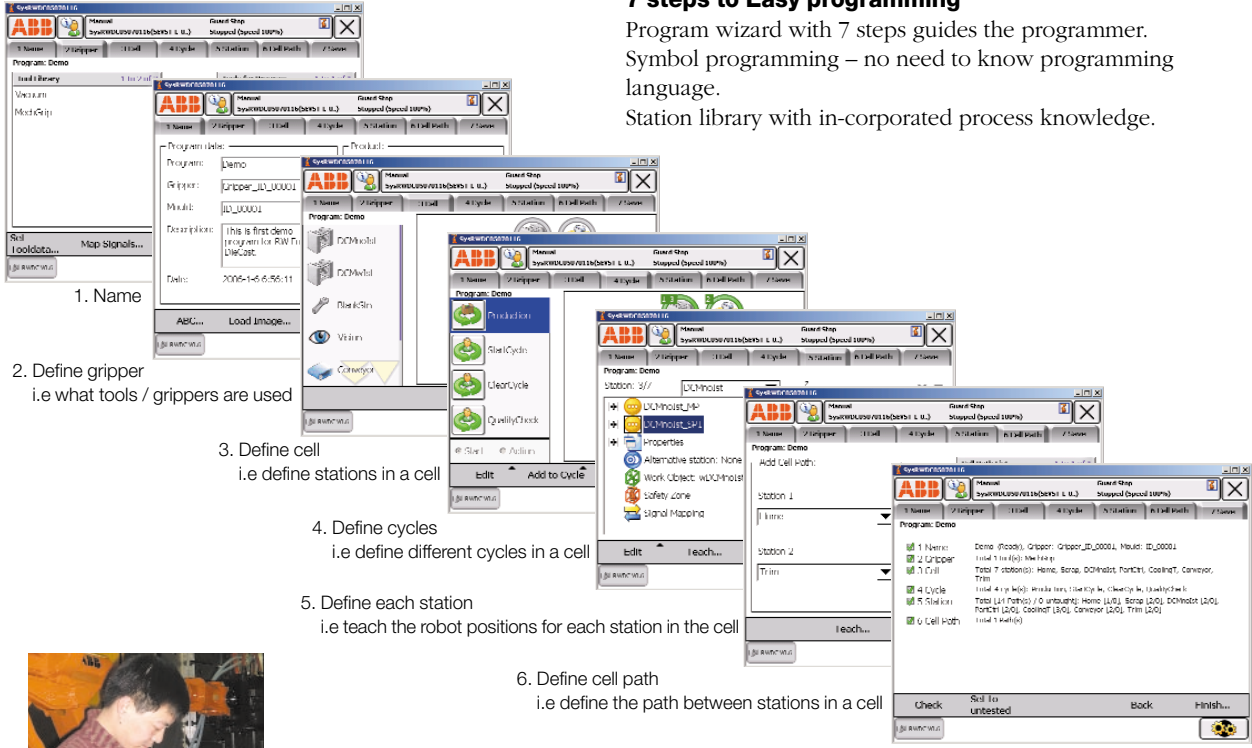

ABB

RobotWare DieCast

7 steps to Easy programming

Program wizard with 7 steps guides the programmer.
Symbol programming – no need to know programming language.
Station library with in-corporated process knowledge.

1. Name

2. Define gripper
   i.e what tools / grippers are used

3. Define cell
   i.e define stations in a cell

4. Define cycles
   i.e define different cycles in a cell

5. Define each station
   i.e teach the robot positions for each station in the cell

6. Define cell path
   i.e define the path between stations in a cell

7. Check and Save
   i.e verify the program and save

Easy to Operate

The operator easily starts customized production cycles by one button tap in the production window. Robot movements are displayed in real time on the IRC5 flex pendant and color icons on the screen indicate station statuses. Production statistics, signal status and error logs are presented in a pedagogic fashion.

Safe home run

In the event that a problem occurs in one station, RobotWare DieCast allows the robot to continue production around the problem station. If the power supply is cut off during operation, the robot will be able to restart at exactly the same position and system status as before the power failure. The secure and automatic home run system takes the robot safely from any situation where it has stopped without any need to jog into the home run position. To ensure full safety 'safety zones' can be programmed

RobotWare family

RobotWare is a family of controller software designed to make you more productive and lower your cost of owning and operating a robot. RobotWare ensures optimal process performance through ABB's advanced Motion Technology that has the most accurate path holding on the market. Motion control is the key to the robot's performance in the area of path accuracy, speed, cycle time, programmability and synchronization with external devices. By improving these parameters, users improve quality, productivity and reliability.

Customer values
- Short start of production
- Allow adding unique process knowledge within a give program structure
- High availability through quick error recovery and no need of robot experts
- High reliability through on-line production overview, safe home run and advanced error handling
- High flexibility for short product cycles due to easy programming and optimization

www.abb.com/robotics

ABB