

Movit

Scalable automation

Movit is a modular intelligent transfer system for production in a high mix, medium volume environment. This system will support any discrete production process, is unique in its modular setup as well as intuitive in use, and will provide a fast response to changes and challenges. Its real power is the intuitive drag and drop control system that automatically reprograms the PLC controller when changes are made to your system. Each Movit transfer module is a separate entity with its own Drive, I/O link and connects to the system with only two connectors. Use it like Lego to accommodate your production purpose and ensure continuity in the face of any challenge.

Unique in Movit:

- Fully independent modules using their own hard- and soft- ware that connect via I/O link to the overlying PLC.
- Any user with an access key can re-program the system using an object based drag and drop approach to configure the system. The intuitive control system will take care of programming the PLC for you. The system is smart enough to be truly user friendly.
- Scalable production automation: Due to the modular approach and the intuitive control you can introduce a new automation process step by step and manage your production risks at the same time, rapidly improving production and greatly enhancing productivity.
- Integrated RFID production intelligence supports individual High Mix production intelligence and provides feedback on validation data.





Our **intuitive** control system allows a simulation of your ideas.

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Movit uses proven drive components for the physical transfer modules from workstation to workstation and RFID tags add intelligence to the system allowing a high mix production setup. **intuitive** control ensures you manage the system rather than it managing you. The total package allows a step-by-step approach to production automation while you stay in control at all times. At a certain point you can, for example, replace a manual measuring and validation station with a scanning system on a test basis and decide how it works for you before you adopt it permanently. As long as the automation component carries an I/O link and an RFID reader and can function independently we should have no trouble incorporating it in the system. Any physical changes to the transfer modules are easy to carry out and will be supported by us should you require.

We developed **Movit** for a number of our customers as a result of their requirements for flexible and easy to use systems. Our many years of experience in production machinery supports the choices we made.

System components:

Drive module : standard industrial production tracks with proven drives , motors and motor controls.

Product bearer: Standard weights in a number of weight classes up to 250 kg





The Movit drive and control unit includes a its own motor, a

drive,-a frequency controller, and an I/O link to connect to the main control unit. This makes the unit fully

modular with only two connectors linking it to the next: one for power and one I/O link for control.

Modulare system: this example uses 5 standard units.



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Modules for signaling, start, stop, soft stop, turning and holding are assembled as part of the delivery. Any extension or adaption is easily accommodated with

minimal extra wiring and with our assistance should you need it. Adaptions such as placing new signal units can easily be done you but if you wish we can assist you in this. The signals are all I/O link supported eliminating the wiring required.



Wadcon Intuitive© control module.



A single PLC control runs the **Movit** system which runs and communicates with the system via I/O links. This drastically reduces the amount of wires required, increasing both reliability and flexibility. The **Intuitive** control will support any changes you make to the system your changes to the system by reprogramming the PLC for you. All production process modules will be added or dropped as stand-alone sub-program entities that have an I/O link and RFID reader. We will assist you with the these stand-alone program entities as much as you require.



RFID technology adds industry 4.0 intelligence for high mix production



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Why is a modular I/O supported system relevant to you? The wiring diagram reveals the advantage: if you make a change, you simply connect up the two connectors (power and I/O link) and reprogram the PLC using the **Intuitive** control.

You do not need to rewire the system or get a technician in to rewrite your PLC program.



Configurator: Under development, coming soon!



Wadcon Intuitive control

The **Intuitive** system aims to empower the shop floor , giving them the option of controlling and managing the system themselves rather than our technician. We used HTML technology to build a configuration system with modules that are available for you. Based on these you can configure a system as required and after testing that the system meets your requirements you can use the edit button to re-program the system for your new configuration. The simplicity of this system is unique and it supports trouble shooting using submenus in a number of levels to find the cause. *You control the system, it does not control you*.



Under development: A part of this approach is that you can use an online configurator to test out if this will work for you. On top of setting up your system we can also calculate, for a small extra price, the return on investment you will be making.

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Codeless programming of the Intuitive transfer system:

Drag and drop system components from the parts available and configure the system you need: You start with track elements and the product carriers and build on with signals, start and stop elements and process start and stop buttons. Boolean logic supports the system set up.



-Errors in the configuration are shown in yellow, such as a wrong connection placement of the track.



-Action required from a sensor or stopper is defined.





Sensors are configured with the actions they should trigger

When the system is configured to your needs, you use the *Edit System* button to convert the results to a PLC program for the system.



Edit system.

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Fault code support: When you have a fault in your system or a certain process element is not working the system will support you with a location and a drop down menu to find the nature of the problem. In the case that a process element is not working correctly you can reprogram the system to skip the process element and replace this with a manual or other alternative. This means production can continue as soon as possible.



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