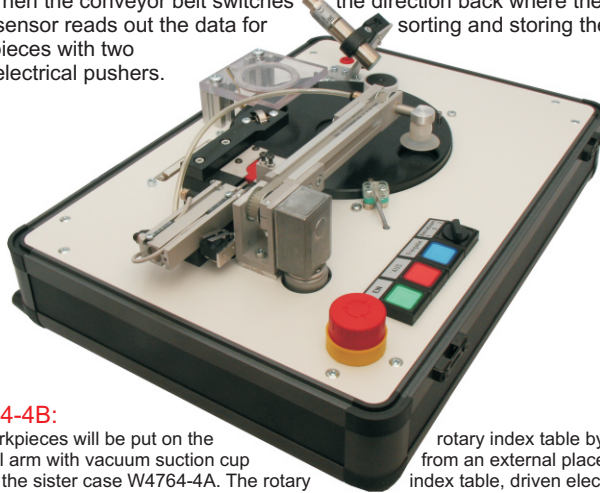


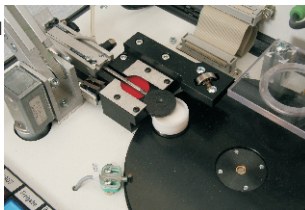
### W4764-4A-RFID

Work pieces made out of black or white plastic or metal in different heights are lead in the process from a feed station with separation magazine. After conducting the work piece to a planar inbuilt conveyor belt with approx. 310mm length the test object will be checked passing 3 digital sensors (capacitive, optical and inductive) and 1 analogue ultrasonic-sensor for height determination. The hereby determined values of material, height and quality will then be written by a RFID sensor to the transponder of the sample pieces if already installed or transmitted to the sister case W4764-4B by Profinet for subsequent processing. Then the conveyor belt switches the direction back where the RFID sensor reads out the data for sorting and storing the work pieces with two more electrical pushers.



### W4764-4B:

The workpieces will be put on the rotary index table by a swivel arm with vacuum suction cup or from the sister case W4764-4A. The rotary index table, driven electrically, promotes workpieces in the circle and places this in the angle of 90°. First a RFID tag will be placed onto the workpiece and moulded into it. Finishing with either glowing or hardening will be done then. All informations about the work-piece gained during the finishing process or gained by the quality checks of the sister case will then be written onto the just assembled RFID tag. The ready assembled and personalized will then brought to the swivel arm again which transfers it to the next station.



RFID-tag assembling with moulding and glowing or hardening station



### W4764-4X:

Control unit in the cover for conveyor belt case W4764-4A-RFID or for the handling case W4764-4B to extend them to mechatronic technology stations W4764-4AX and W4764-4BX using SIMATIC PLC 1512SP F-1 PN and SIMATIC HMI TP700 Comfort.



### W4764-4AX

with installed middle section for easy closing. The middle section can be used in action as sunshield for the TP700.



closed case for easy carrying or space saving storage

|               | runable with: | software*:     |
|---------------|---------------|----------------|
| W4764-4A-RFID | external plc  | RFID Systems   |
| W4764-4B      | external plc  | RFID Systems   |
| W4764-4X      | 4A oder 4B    | TIA + WinCC    |
| W4764-4AX     | = 4A+4X       | RFID+TIA+WinCC |
| W4764-4BX     | = 4B+4X       | RFID+TIA+WinCC |

\*newest Siemens software version for schools, colleges or universities



## Industry 4.0

*just in case*

Industrial revolution 4 reprocessed didactical in single mechatronic experimental cases. Intelligent sensors control an industrial production process with all aspects of programming like in the real industrial world. Visualization and individualization of the end product is easy by using newest RFID technology. Latest Siemens industrial items and software make it thinkable to tie all processes to the cloud. Project work at one set of 2 cases can be done with up to 4 students to solve all mechatronic, controlling and communicative tasks. All you need is only a 230V network. The solid experimental case can be closed right after the lessons and work benches are ready for new classes. Space-saving storage or easy carrying from class room to class-room is possible.



emergency-off pusher

indicating light „good“ „bad“

RFID Sensor RF200 I/O

electrical pusher

automatic or manual functions

integrated switch

moulding equipment

analogue module „glowing & hardening“

magazine with feed-in pusher

analogue and digital sensors

sorting with overflow stop

electrical swivel arm with suction cup

control tableau with indicator pushers

rotary index table with 4 positions

*Industry 4.0 just in case at a glance*