smart e connect

smart Tec
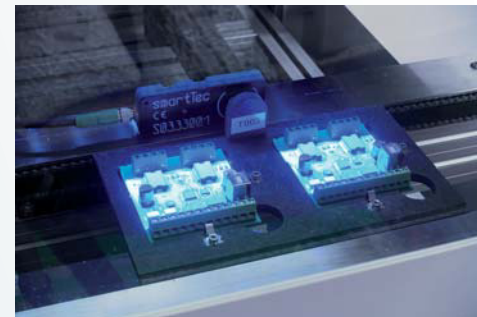*smart technology products and solutions*

Smart and safe:
Transport Modules with
Intelligent Features
made by *smartTec*

Transport Modules

The functionality of the **smart *e-connect*** modules goes far beyond simply transporting items. With the integrated microcontroller, they master central control, networking and communication functions. These functions are managed with **smartControl 4.0.** For this purpose, a very convenient operator interface is offered with our developed **smartTouch.** The specially developed graphical user interface enables user-friendly data entry. Status messages are of course also displayed. Depending on the application, a variety of different functions can be integrated into the modules.

Modular, intelligent, flexibel   **smart Control** 4.0

smart*e*connect

# With our new ideas we bring economy under the hood

- Segmented belt or chain transport - 1, 2 or 3 segments
- Variable/dual direction transport possible by stepper motors
- Electrically locking cover hood - depending on the security concept
- Pneumatic shutters to protect neighboring machines
- Automatic transport width adjustment - menu-driven or via **smartControl**
- Transport rail length and palletts with edge support adaptable
- Fluorescence or white light LED light in cover
- Extraction nozzle when processing volatile media
- Various holders for reading devices available

The integrated **smartTouch** display - convenient interface for manual entries and the display of the line status
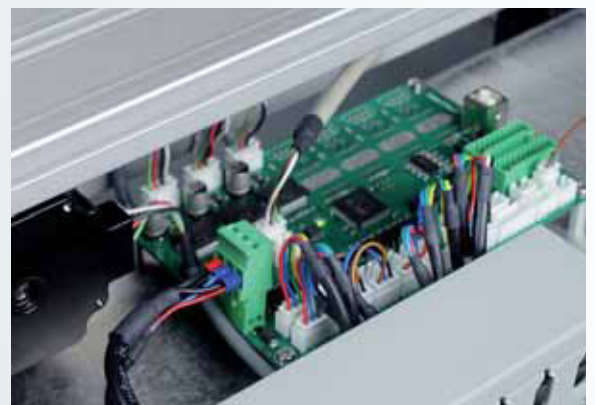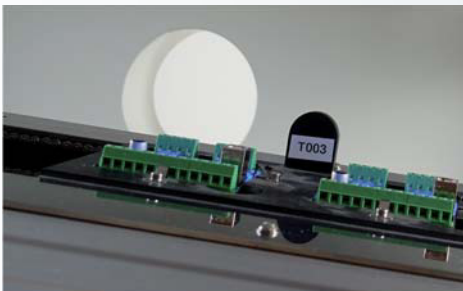
No complex control hardware (as PLC) ! The central functions are compactly summarized in the integrated microcontroller
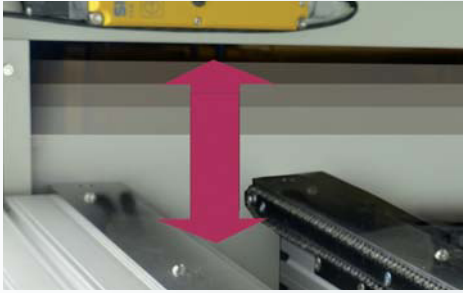
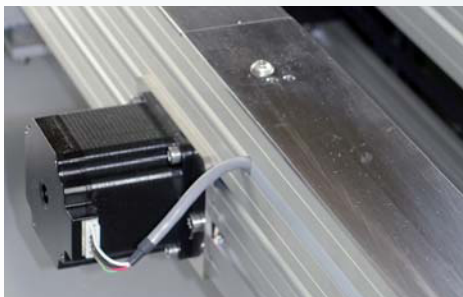Pneumatic shutters to protect neighboring machines

Optionally with belt or chain transport - also available for several segments in one module

Extraction nozzle when processing volatile media

Transport width adjustment automatically or by input by the menu

Belt speed can be varied in segments using a stepper motor
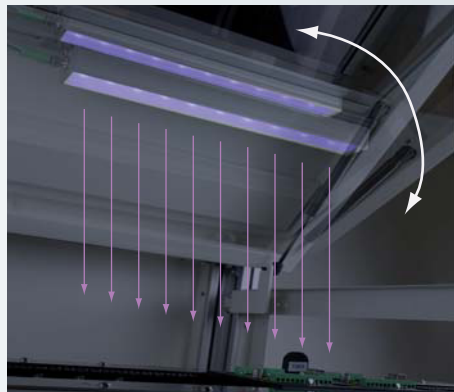
Fluorescence or white LED-light - the lamps always shine downwards even when the hood is swiveled

The lengths of the transport rails can be adapted for optimal adjustment at the inlet and outlet

The support widths for the printed circuit boards can also be varied in a few simple steps

Modular, intelligent, flexibel   **smartControl** 4.0

Transport Module TMN/TMH

Standard Features:
- **Automatic width adjustment using a stepper motor**
- **Variable transport speed**
- **Microprocessor control**

Technical Specifications:

Transport height	950mm ± 25 mm std (other by request)
Transport width	50 – 450 mm
Color sheet metal	RAL 9002 (other color by request)
Transport direction	Left -> Right (Standard) Right<- Left (Optional)
Fixed transport Holder	Front
Transport	ESD belt, coder transport
Rail Edge Clearance	Chain transport 3mm, ESD-Belt 3 mm – 9 mm adjust.
Transport Speed	20 mm/s – 300 mm/s
Max. Weight item or pallett	5 kg
Top Space	95 mm
Bottom Space	TMH 95 mm, TMN Open in Top
Power Supply	230 VAC, 50 Hz
Power	60 VAC (1 Segm.), 100 VAC(2 Segm.), 150 VAC (3 Segments)

Module lengths / Segment Selection

Lenght (mm)	1 Segment	2 Segments	3 Segments
TMN0500 / TMH0500	Chain/Belt	-	-
TMN1000 / TMH1000	Chain/Belt	Chain/Belt á 500 mm	-
TMN1500 / TMH1500	Belt	-	Chain/Belt á 500 mm
TMN2000 / TMH2000	-	-	Chain/Belt á 660 mm

Dimensions

Modell	Lenght(mm)	Width (mm)	Height (mm)
TMN0500	500		
TMN1000	1000	880	980
TMN1500	1500		
TMN2000	2000		

Modell	Lenght (mm)	Width (mm)	Height (mm)
TMH0500	500		
TMH1000	1000	880	1250
TMH1500	1500		
TMH2000	2000		

Options/Standard

	TMN	TMH
COM-Interface	STD	STD
Trigger for Scanner		
(inkl. Filter function)	STD	STD
Check Function		
(Inspection)	STD	STD
Chain- or. Belt Transport	STD	STD
RS-485 Interface		
(For connection to smartControl)	STD	STD
4 Input/Output	STD	STD
SMEMA	STD	STD
HERMES		
(by means of smartControl)	OPT	OPT
MES Interface		
(by means of smartControl)	OPT	OPT

	TMN	TMH
RFID Interface	STD	STD
RFID Read/Write	OPT	OPT
Intervall function	OPT	OPT
(by means of smartControl)		
Scanner	OPT	OPT
Pneumatic Shutter		
(left, right or both)	-	OPT
Light		
LED or fluorescent	-	OPT
Lift Table	OPT	OPT
Clamping	OPT	OPT
Return Transport	OPT	OPT
Stopper	OPT	OPT
Cooling Fan	OPT	OPT
Monitor Holder	OPT	OPT

TMN Transportmodul without Hood
TMH Transportmodul with Hood
STD Standardmodel, **OPT** Options