

SUMMARY

1. Equipment Data

2. Technical Data

- 2.1. Consumption Data - Power Input
- 2.2. Module Description
- 2.3. Description of Hard- and Software

3. Delivery Terms

- 3.1 Scope of Performance and Delivery
- 3.2 Price
- 3.3 Validity of Quote
- 3.4 Installation and Commissioning
- 3.5 Packing
- 3.6 Manuals

4. Contractual Terms

- 4.1 Warranty Time
- 4.2 Payment Terms
- 4.3 Shipment ex works
- 4.4 General Remarks
- 4.5 Service Contract

Bankverbindungen

1. EQUIPMENT DATA

1.1 Measurements

- Working Width	650 mm
- Working Height	900 mm +/- 15 mm
- Machine Length	3500.00 mm

1.2 Conveyor Speed

- Operation Speed	0.5 m/min
- Frequency controlled conveyor drive	yes
- Range of Conveyor Speed	0.2- 6.0 m/min

1.3 Working Direction

- Working Direction	right-left
---------------------	------------

1.4 Specification of Panels

- Maximum Panel Width	635 mm
- Maximum Panel Length	635 mm
- Minimum Panel	180 x 180 mm
- Maximum Panel Thickness	4.0 mm
- Minimum Panel Thickness	0.135 mm
- Base Material	-FR4

1.5 Notes

- The length of the connector cable from control cabinet to machine which is included in the quotation can be found under "Ancillaries". Additional required cable is available for Euro 130,- / meter.
- Process times have to be checked and released by the customer.

Bankverbindungen

2. Technical Data

2.1 Consumption Data

2.1.1 Electrical Connection Data

3 Phases Alternating Current AC	400 V +/- 10%, 50 Hz
Control Voltage	24 V DC

2.1.2 Power Input of Equipment

15.97 kW (subject to change)

2.1.3 Capacity of Equipment

~ 20 m³/h at 100 % space use
~ 15 m³/h at 75 % space use

Bankverbindungen

Kreissparkasse, Freudenstadt	(BLZ 642 510 60) 5115
Volkbank, Freudenstadt	(BLZ 642 910 10) 7349009
Dresdner Bank, Freudenstadt	(BLZ 600 800 00) 4139318
BW Bank, Freudenstadt	(BLZ 600 501 01) 4902 111
Commerzbank, Freudenstadt	(BLZ 694 400 07) 290 653 500
Postbank, Stuttgart	(BLZ 600 100 70) 6382-701

2.2. Module Description

Item	Quantity	Description	Total price
1		Module 001 - Input	
1.1		TRE 2 - 625 mm, consisting of:	
	1	- TRE 2 PP/SS Entry module with emergency stop switch	
	1	- Service Unit for electropneumatic valves with pressure reducer and pressure control	
	1	- Support foot, with height adjustment	
	1	- Sensor with Fixing Device ++ stand by ++	
	1	- Emergency stop, addit. rear side	
1.2		Transport system Innerlayers for TRE 2, consisting of:	
	1	- TRE/TRA/TRK 2 Innerlayer transport in PP/SS	
	1	- Conveyor Drive 0.1 - 3.0 m/min continuously adjustable frequency-controlled with reluctance motor	
	1	- Digital conveyor display	
2		Module 002 - Cooling Unit	
	1	- CSL 4000 - Cooling Line cooling module (TKM 2 PCV/SS) with blower and heat exchanger for water cooling, 2 exhaust connections d=90, damper and	
	1	- CSL 4000 - IL-Transport for Cooling Module	
	1	- Manual valve PVC d=20	
	1	- Electropneumatic valve PVC d=20	
	1	- Flowmeter 60 - 640 l/h, includes regulator valve	
	1	- Flowmeter Limit Contact min., with control lamp	
3		Module 003 - Inspection	
3.1		TRK 2 - 625 mm, consisting of:	
	1	- TRK 2 PVC/SS inspection module with emergency stop switch	
	1	- Exhaust, exhaust damper for exhaust connection	
	1	- Exhaust Connection d=75 mm SS, TRE-TRA-TRK with 2 squeegee rollers	
3.2		Transport system Innerlayers for TRK 2, consisting of:	
	1	- TRE/TRA/TRK 2 Innerlayer transport in PVC/SS	

Bankverbindungen

4

Module 004 - Cleaner

4.1

WSM 1 - 375 mm, consisting of:

- 1 - WSM 1 PP/SS process module without tank as substructure, with lid safety interlock

4.2

Transport system Innerlayers, consisting of:

- 1 - WSM 1 Innerlayer Transport PP/SS

4.3

Spray system for a WSM 1, consisting of:

- 2 - Spray pipe PVC straight with 6 quick-release nozzles
- 2 - High impact spray pipe PVC with quick-release connections as well as 17 standard nozzles

4.4

Cascade tank

- 1 - Tank - PVC-Cascade tank with 3 Cascades
- 1 - Overflow Pipe d=50
- 1 - Pump - Immersion Pump 1.8 kW prepared for the installation of a filter or pressure pipe ++ für M 002 / for M 002 ++
- 1 - Pump - Immersion Pump 0.37 kW prepared for filter installation or pressure pipe ++ für M 003 / for M 003 ++
- 2 - Cartridge Filter - 1 x 10" filter with quick-exchange device, electrical lid control
- 2 - Filter - Filter mesh 80 µm, PP
- 1 - Manual valve PVC d=12 ++ sample valve ++
- 2 - Dry-Run protection or level control for installation in plastic modules, with control light

4.5

Dosing system consisting of:

- 1 - Pump - Dosing pump 0 - 54 l/h with suction and pressure hose
- 1 - Base for dosing pump 7.2 - 120 l/h
- 1 - Check valve for dosing pump 25 - 54 l/h
- 1 - Overflow valve 25 - 54 l/h
- 1 - Liquid Suction Armature in PP / 50 l/h with level switch
- 1 - Electropneumatic valve PVC d=20

4.6

Temperature control, consisting of:

- 2 - Heating 4.0 kW SS
- 2 - Safety thermostat with control lamp SS with Pt 100, TÜV inspected, for hardwired machine
- 2 - Thermostat with digital display, SS with Pt 100 temperature probe for hardwired machine
- 2 - Cooling coil SS without electropneumatic valve
- 2 - Electropneumatic valve PVC d=20

Bankverbindungen

5

Module 005 - Brush

5.1

BON/BUN 2 - 625 mm, consisting of:

- 1 - BON/BUN 2 Brush Module double - sided in PVC/SS

5.2

Transport system, consisting of:

- 1 - BON/BUN Innerlayer transport PVC/SS, with conveyor drive ++ 0.1 - 3.0 m/min ++

5.3

Brush system, consisting of:

- 1 - BON/BUN Oscillation drive for brushing module, with gear motors
- 4 - BON/BUN Brush seat, SS, for one brush
- 4 - BON/BUN - Spiral Roller Brush with polyamid trimming external diameter 120mm, trimming with stainless steel spiral band fixed on stainless steel pipe

5.4

Spray system for a brush, consisting of:

- 1 - Spray frame for wetting pipes for the brushes
- 8 - BON/BUN Spray pipe with quick-release connection

6

Module 006 - Cascade rinse

6.1

KSM 3 - 875 mm consisting of:

- 1 - KSM 3 PVC/SS Cascade Rinse Module with lid safety interlock

6.2

Cascade 1 in KSM 3, consisting of:

- 2 - High impact spray pipe PVC with quick-release connections as well as 17 standard nozzles
- 1 - KSM 3 Innerlayer transport in PVC/SS
- 1 - Pump - Immersion Pump 0.37 kW without filter / COMcompact filter
- 1 - Overflow Pipe d=50
- 1 - Dry-Run protection or level control for installation in plastic modules, with control light

6.3

Cascade 2 in KSM 3, consisting of:

- 2 - High impact spray pipe PVC with quick-release connections as well as 17 standard nozzles
- 1 - KSM 3 Innerlayer transport in PVC/SS
- 1 - Pump - Immersion Pump 0.37 kW without filter / COMcompact filter

6.4

Cascade 3 in KSM 3, consisting of:

- 2 - High impact spray pipe PVC with quick-release connections as well as 17 standard nozzles
- 1 - KSM 3 Innerlayer transport in PVC/SS
- 1 - Pump - Immersion Pump 0.37 kW without filter / COMcompact filter

Bankverbindungen

6.5

Wastewater transfer tank system, consisting of

- 1 - Tank - Solution Transfer Tank PP with immersion pump and level control

6.6

Inlet system for a KSM 3 module, consisting of:

- 1 - Flowmeter 60 - 640 l/h, includes regulator valve
- 1 - Flowmeter Limit Contact min. - PLC
- 2 - Electropneumatic valve PVC d=20

7

Module 007 - Dryer

7.1

TKM 2 - 625 mm, consisting of:

- 1 - TKM 2 PP/SS Dryer with Pt 100 and Safety Thermostat
- 2 - Exhaust connection, d=90 without damper

7.2

Transport system Innerlayer, consisting of:

- 1 - TKM 2 Innerlayer transport PP/SS

7.3

Air nozzles for dryer TKM 2, consisting of:

- 1 - TKM Dry Jet with 2 blowers à 3.0 kW SS, with non-return valve, used with IL and flex material in dryer, including 2 suction filters

8

Module 008 - Output

8.1

TRA 1 - 375 mm, consisting of:

- 1 - TRA 1 PVC/SS exit module with emergency stop switch
- 1 - Emergency stop, addit. rear side

8.2

Transport system Innerlayers for TRA 1, consisting of:

- 1 - TRE/TRA/TRK 1 Innerlayer transport in PVC/SS
- 1 - Conveyor Drive 0.1 - 3.0 m/min continuously adjustable frequency-controlled with reluctance motor

9

Ancillaries

- 15 - Cable connection to control cabinet
- 1 - Stand-by system including conveyor drive, controlled via sensor at entry
- 1 - Lamp - Flash lamp 3 colours
- 1 - Transfer SSL - Hong-Kong

Net value

86.000,00 Euro

OPTION

1

Dosing system antifoam, consisting of:

- 1 - Pump - Dosing pump 2.5 l/h for anti-foam unit
- 1 - Antifoam dosing dripper system
- 1 - Manual valve PVC d=12
- 2 - Time relay

Bankverbindungen