



# **USTER® JOSSI VISION SHIELD N**

Automated contamination  
removal for nonwoven

Technical Data

February 2020

# USTER® JOSSI VISION SHIELD N

## Automated contamination removal for nonwoven

### Scope of delivery

<b>Basic equipment and parts</b>	<p>The USTER® JOSSI VISION SHIELD N will be delivered in a preassembled stage. The service engineer will do the final end-assembly as well as the final set-up directly at the NonMoven plant.</p> <ul style="list-style-type: none"><li>– Detection Module/Ejection Module</li><li>– Leg supports with integrated control board and vision computer</li><li>– Transition cones for material outlet and waste evacuation (incl. fan)</li><li>– Duct/Channel</li><li>– IMAGING SPECTROSCOPES (delivered separately in carton-box)</li><li>– Electronic environment</li></ul>
<b>Documentation</b>	<p>The following documents will be supplied with the delivery:</p> <ul style="list-style-type: none"><li>– Operating instructions of the USTER® JOSSI VISION SHIELD N</li><li>– Spare parts catalogue of the USTER® JOSSI VISION SHIELD N</li><li>– Customer CD (contains documentation and software)</li></ul>
<b>Accessories</b>	<p>Two-way key to open all machine and Control Unit doors accessible to operating personnel.</p>
<b>Memory stick</b>	<p>Serves for the transferring and saving of the settings and statistics. Data from the memory stick can be separately handled and adjusted with the USTER® JOSSI DATA MANAGER.</p>
<b>Recovery stick</b>	<p>Serves for recovery of the operating system and the vision software in case of a software loss.</p>

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### Specification

#### General

<b>Function</b>	Detection and removal of foreign matter from fiber stream – Color detection with IMAGING SPECTROSCOPES
<b>Display</b>	At USTER® JOSSI VISION SHIELD 2 computer
<b>Detection</b>	IMAGING SPECTROSCOPES
<b>Data and settings</b>	On main screen and USTER® JOSSI DATA MANAGER
<b>Report</b>	At USTER® JOSSI DATA MANAGER
<b>Statistics</b>	On main screen and USTER® JOSSI DATA MANAGER
<b>Raw materials</b>	– Cotton, bleached cotton – Man Made Fibers like plain white Viscose, Polypropylene, Polyester fibers etc. and their blends – Colored or dyed fibers as well as mélange/ blends are not recommended
<b>Production rate</b>	up to 2 000 kg/hour
<b>Operating temperature</b>	20–40° C
<b>Temperature drifts</b>	Max. 5° C within 24 hours
<b>Working width</b>	1 600 mm
<b>Power consumption</b>	approx. 2.0 KVA
<b>Weight</b>	800 kg
<b>Material flow</b>	Bottom-up
<b>Installation</b>	After the fine-opener
<b>Illumination</b>	4 LED illumination modules/2 background stripes

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### Reporting and data handling

The additional data-tool USTER® *JOSSI DATA MANAGER* will be supplied together with the USTER® *JOSSI VISION SHIELD N*. This tool should be used for the external parametrization of the system as well as for the evaluation of the machine data and statistics.

The installation has to be carried out on a machine independent computer.

It is designed to keep the focus on:

1. Ergonomics
2. Ease customer use (user-friendly)
3. Future oriented architecture

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### Features

Key actions	Features
Velocity measurement of the traveling material and objects (foreign matter)	<p>Speed measurement function USTER® JOSSI VISION SHIELD N</p> <ul style="list-style-type: none"> <li>– Automatic adaption of ejection delay</li> <li>– Speed/Velocity will be constantly and automatically recalculated by the system</li> <li>– 32 zones individual measurements over the entire channel width</li> </ul>
Color measurement of the raw material	<p>Automatic QUICK TEACH</p> <ul style="list-style-type: none"> <li>– Automatic color measurement of the raw material every few minutes</li> <li>– Develops automatically a new classifier</li> <li>– New color reference</li> </ul>
Available data management at the overall system (and main screen)	<p>Accumulated data displayed at the main screen</p> <ul style="list-style-type: none"> <li>– Numbers of ejections per hour and day</li> <li>– Production ratio (Stop-Go)</li> <li>– Information and status of the USTER® JOSSI VISION SHIELD N <ul style="list-style-type: none"> <li>– Date and time</li> <li>– Sensitivity settings (color contrast and particle size)</li> <li>– Efficiency Booster status (on/off)</li> </ul> </li> <li>– Detection mode on/off</li> <li>– Screen lock</li> <li>– QUICK TEACH</li> <li>– Data export to USB</li> </ul>
Ejection Module	<p>Cyclone technology</p> <ul style="list-style-type: none"> <li>– Removal of foreign matter without backflow of contaminants</li> <li>– 32 valves/128 nozzles</li> <li>– 6 bar pressure recommended</li> <li>– Evacuation bag (on left or frontside available)</li> </ul>
Maintenance	<p>Easy access to the illumination</p> <ul style="list-style-type: none"> <li>– Maintenance can be done without production stop (only if desired, better with production stop)</li> <li>– Easy access to the presentation duct <ul style="list-style-type: none"> <li>– Daily cleaning recommended, depending on the dirt built up</li> </ul> </li> <li>– Easy accessibility and fast replacement of the illumination modules and background stripes <ul style="list-style-type: none"> <li>– Recommended intervall: 20 000 working hours</li> </ul> </li> </ul>
Waste management	<ul style="list-style-type: none"> <li>– Efficiency Booster <ul style="list-style-type: none"> <li>– Button on main screen (green cotton leave)</li> <li>– Switch on/off possibility</li> <li>– Separate bar for statistic overview (accentuated by a light green bar on top of the regular statistic bar)</li> </ul> </li> </ul>

### Languages on the USTER® JOSSI VISION SHIELD N

Operating languages on USTER® JOSSI VISION SHIELD N screen

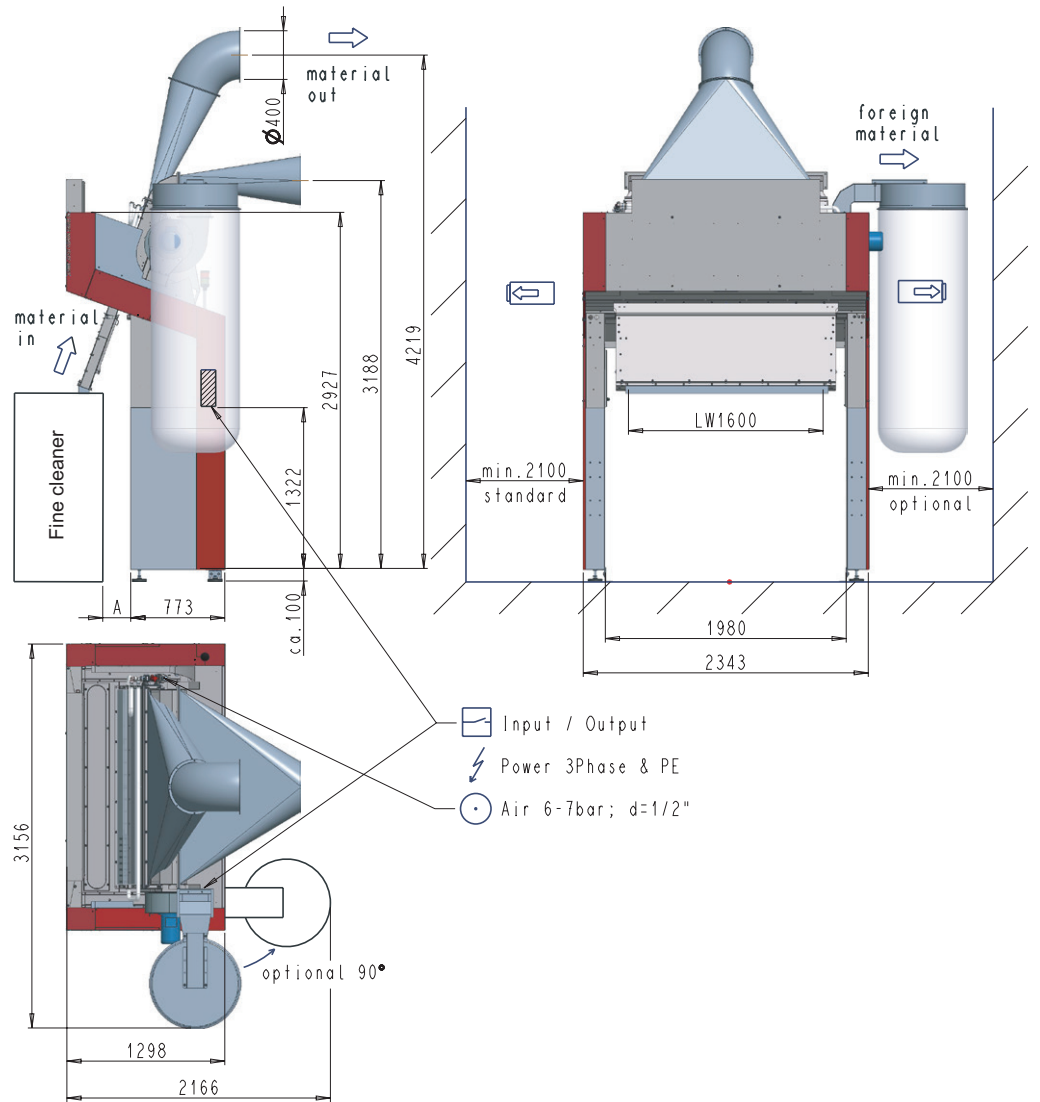
**14 languages**

German, English, Chinese, Turkish, Italian, Spanish, Vietnamese, French, Japanese, Polish, Portuguese, Korean, Russian, Taiwanese

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Technical drawing USTER® JOSSI VISION SHIELD N



Uster Technologies has made all possible efforts to ensure that all information is accurate at the time of publication. Hereby it is declared that alterations to the product may be possible at any time. In these cases the information contained in this technical datasheet is subject to change without notice.

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**Uster Technologies AG**

Sonnenbergstrasse 10

8610 Uster

Switzerland

T. +41 43 366 36 36

F. +41 43 366 36 37

sales@uster.com

www.uster.com