

THIS IS NOT AN INVOICE.

DEERFIELD TISSUE, LLC
4302 Mike Padget Highway
Augusta, GA 30906

Attn.: Mr. Frank Souther

Ship to:

DEERFIELD TISSUE, LLC
4302 Mike Padget Highway
Augusta, GA 30906

Your order of
09-09-08

Your order No
Frank Souther

Our reference
8058

Date
10-23-08

Order Confirmation No. 60-3705a

for one

QUALISCAN QUALITY CONTROL SYSTEM, TYPE QMS-12

to measure and control – weight –

comprising:

1. Basic system

Split design

1.1 Electronic cabinet E 41-1

6610/

robust, all-steel cabinet 19"
with a lockable door
dimensions: 600x1072x450 mm
constructed to IP 54 standards
allowance of ambient temperature: 5°C up to 40°C

customer's power: 480 V

with mounting stand

S592

with air conditioner for basic system

with step down transformer
(480 / 230 V)

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1.2 Control and display cabinet (C & D Station)

- 15" LCD TFT graphics display with housing
- with touch screen
- without remote diagnostic package

1.3 Computer

- Mahlo industrial PC Pentium
- Ethernet RJ 45 interface for communication with traversing bridge

1.4 Software including software licence

1.4.1 Standard software QMS-12

- Plots target-actual bar graphics for each variable
- separate cross-web and lengthwise measurements
- plots a cross-web profile from up to 128 blocks of data
- special software with scanner-related algorithms
- displays a cross-web profile with tolerances, indicated breach of tolerances by change of colour, and registers min/max and average values after each cross-web scan
- displays a mean profile from a preselectable number of cross-web scans
- selects traverse mode (measurement between fixed limits, from edge to edge, or at a fixed point)
- plots trend graphics, meter-web or time-related
- numerical display of traverse profile variables, those relevant for auto-control, momentary line-speed and passage count
- sets alarm threshold and output
- 4 grades of password security
- management of recipes (edit, copy, delete, back-up)
- provides hardcopy of all screen displays
- backs up process data
- provides process reports (in combination with printer packages)
 - reel report, with statistical evaluation of reel data

1.4.2 Service functions

- zero profile compensation
- scanner/sensor monitoring
- on-line configuration of graphic displays (tolerances, scaling)
arrangement of bars, profiles, trends
- on-site gauging facilities
- language switching

without Tachogenerator (Encoder)

Pulse signal max 1 KHz

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without controller

1.5 20m of PATCH-cable 42-003443
 (TFT/Electronic cabinet)

2. Traverse assembly PaperPro II

One measuring point

Working width: 2600 mm

Measuring gap: 10 mm

(1) One park position: drive side of the scanning frame

Material flow direction: left to right

- Measurement Sensors attached to traversable carriage
- Stainless Steel Covers, detachable by fast operation interlocks
- All metal parts fully anodized (Zn coating), or electrolytic nickel coated
- Highest quality, acid proof chromium plated THK linear bearings for use under extremely hostile environmental conditions (heavy duty version)
- Measurement head assembly with adjustable head angle, $\pm 35^\circ$
- Stepless adjustable traversing speed 30 mm/s – 500mm/s
- Carriage with integrated automatic web edge detectors
- Parking / gauging point: left or right, user selectable
- Brushless, asynchronous motor 550W
- Pulse generator, synchronization switch, mechanical limit switch
- **max. ambient temperature 60° C without additional cooling**
 (available on request, via external, thermostatically controlled unit, cooling facilities for measurement heads are already integrated)
- Energy chain, motor and clamping devices integrated into traverse assembly, additional energy chain for cooling and air tubing
- Integrated microcontroller (PC 104) for measurement and control of traversing assembly ('intelligent network device')
- Ethernet RJ45 interface for communication with C&D Station or HMI

with air purge for measuring gap

with air cooling for sensor housing

with air purge for O-Frame

2.1 Control panel (Traverse) 11-201305
 manual/automatic control of traverse

2.2 Control panel 11-201428
 to be mounted in the O-frame scanner

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2.3 Warning lamp panel 11-011895

shutter open/closed
beacon type

2.4 Warning signs 2x X 925f
2x X 925g

2.5 FMI-12 weight monitor

measuring range: 32 – 50 g/m²

2.5.1 Emitter PM147

with radiation source Promethium 147 – 37 GBq / 1000 mCi
Gap: 10 mm

2.5.2 50 m of cable (Basic System to station) 42-003345

2.6 Receiver 11-201481

with ionization chamber

2.6.1 Frame for calibration foils 6190/99

2.6.2 Calibration foils 6190/92-125 g/m²

3. IMF NIR backscatter unit 11-201336

Moisture (0.1 - 25 % abs)

4. Operation instruction book in English

Color: RAL 7038

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PRICE:

QMS Quality Control System, consisting of:

1x Operator Control Station with A/C
1x 2600 mm PaperPro II Scanner
1x FMI Weight Sensor with Pm147 source
1x IMF Near Infrared Moisture Sensor
Air Cooling for Sensors
Air Purge for Receiver Lens

TOTAL INVESTMENT **\$ 145,000.00**

**Start Up and Commissioning by a Mahlo Technician –
4 days including travel and expenses (during normal
working hours: Monday – Friday, 8 am – 5 pm)**

INCLUDED

Delivery: **Mid – Late December 2008 @ customer site**

Payment Terms: **30% with order (Invoice # 80640, payment received – thank you)
60% upon delivery
10% latest 30 days after arrival**

Warranty: **All parts for a period of 12 months from date of delivery.**

Including: **Import duty, packaging, and transportation to East Coast Port
and door delivery to Deerfield Tissue facility in Augusta, GA.**

Excluding: **Without installation. Please refer to the "Installation Requirements
and Guidelines" document enclosed.**

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NOTE: Any packaging discrepancies must be reported
within 30 days of receipt of equipment.

Thank you for your order. We appreciate your business!

MAHLO AMERICA, INC.

Eric Reber /Sa

Eric Reber
Technical Sales Manager
Web Process Solutions

ER/Sa

MAHLO INSTALLATION REQUIREMENTS AND GUIDELINES

Prior to the arrival on-site of a Mahlo technician and commissioning/start-up of the Mahlo system, the Buyer is responsible for the following actions:

(Please use the following list to check the system before startup)

1. Machinery erection installation must be complete, ready, and suitable for use. (Note: often, even though the Mahlo equipment is ready, other pieces of the Buyer's machinery being installed can delay or stop the commissioning of the Mahlo System.)
2. Normal operation of the manufacturing / process line is necessary during Mahlo's commissioning activities to set up correct calibrations and product recipes.
3. All wiring should be completed including all cable/conduit runs and connections and all wires pulled and labeled and terminated. All external wiring is completed
4. Cabinets and other equipment should be free from any installation scrap.
5. The scanners/gauges must be aligned with respect to the web path on the machine.
6. Power for the system must be available to be turned on, correctly connected and safe to apply
7. Please arrange for a plant electrician to work with us to provide plant help to access power and get familiarized with the system.
8. All gearboxes should be checked and filled with oil and tagged.
9. Please arrange to have trained operators available during web trials so that they can help run the machine properly.
10. A clear understanding of timetables and commitments must be agreed upon. This can best be accomplished through meetings with Buyer & Seller and other required contractors to aid in determining what work is being planned and reveal any special requirements.
11. Please ensure all parties have a clear understanding of who is the job coordinator (Project Manager) for both the Buyer and Seller.

In order to help facilitate the installation, Mahlo will provide the following information:

- 1.) Dimensional drawings with mounting layout
- 2.) Wiring schematics
- 3.) Installation instructions

In addition, Mahlo will provide special cables as outlined in the schematic drawings. All other wires should be provided by the Buyer (standard 18 – 20 AWG for control panels, 14 – 16 AWG for power). **Note: Power to the Mahlo system should be turned on only by a Mahlo technician upon commissioning of the unit.**

We are pleased to offer free phone assistance if installation questions arise. Please contact our Service Coordinator at Mahlo America, ph # 864-576-6288.