ACS Labelling Systems

One system for universal jobs
THE COMPANY
International expertise Page 4/5
Quality, Production & Development Page 6/7

SOFTWARE
One software for all label types Page 8/9

LABELLING SYSTEMS
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OUR SERVICE FOR YOU
Wide choice of labelling services Page 30 / 31
Murrplastik is one of the world’s leading manufacturers of manual and computerised labelling systems.

For many years, the labelling systems made by Murrplastik have proven their value in difficult day-to-day operations – from manufacturing plants in the automotive industry to railway technology. The tests carried out in our in-house testing facility guarantee the highest quality when it comes to longevity, robustness and economical implementation.
LABELLING SOLUTIONS FROM A-Z

Murrplastik offers labelling systems as complete solutions – everything from just one source, everything fits perfectly together.

Plotters, engraving machines, inkjet printers, laser devices and labelling software from Murrplastik can be used for

• a wide range of applications
• Label retrofitting
• Software and hardware as integrated or standalone solutions
• Labelling services

From the beginning, electronic component labelling has been a continuously changing subject. Many years ago, Murrplastik Systemtechnik GmbH developed a labelling system that has since been used for the rapid and easy labelling of systems and components.

With this approach to labelling, only few components are required to achieve rapid, clean and durable results.

Over the last few years application software has changed significantly. Various options were introduced, such as engraving, printing, laser engraving and plotting. Links to superordinate CAD/CAE systems ease the accurate transfer of data to the output devices.

A constantly expanding range of materials makes it easier to adapt to today’s label requirements.

To sum up, the original (badly) handwritten label has evolved into a truly universal labelling system, designed to meet all labelling requirements and with a constant focus on our objective:

"We save your time".

APPLICATIONS

- Single wires
- Cables
- Corrugated conduits
- Terminals
- Devices
- Device locations
- Hydraulic components

- Pneumatic components
- Mechanics
- Push-button and signal elements
- Sensor systems
- Actuators
- Housing
- Plant equipment

LABELLING TECHNOLOGY

Labelling with ...

- Plotter
- Laser devices
- Engraving machines

- Office laser printer
- Thermal transfer printer
- Ink-Jet-printer
QUALITY

Murrplastik is one of the world’s leading manufacturers of manual and computerised labelling systems.

- Established since many years ago
- For manufacturing plants in the automotive industry
- Railway engineering
- In-house testing facilities
- Top quality
- Durability
- Robustness
- Economical usage

We test the material against a huge range of parameters.

- Flammability
- Halogen-free rating
- UV-resistance
- Ageing
- Functional testing
- Hardness testing
- Vibration, shock and impact properties
- Smear resistance
- Scratch/abrasion resistance

Rail vehicles  Automobile industry

Halogen-free rating  Flammability  Temperature range

Test for UV-light resistance  Smudge resistance test
PRODUCTION

Murrplastik offers labelling systems as complete solutions – everything from just one source, everything fits perfectly together.

- Plotter
- Engraving machines
- Ink-Jet-printer
- Office laser printer
- Thermal transfer
- Laser devices
- Labelling software
- a wide range of applications
- Software and hardware as integrated or standalone solutions
- Labelling services

DEVELOPMENT

From the beginning, the labelling of electrical components was a continuously developing subject required by the industry.

- Cost-effective, rapid and flexible production
- New, innovative solutions
- Optimal labelling
- Software-driven labelling
- Broad range of label holders and labelling equipment
- Safe, high-speed production
SOFTWARE

– One software for all label types –

FROM PLANNING TO THE LABELLED PLATE

Plotting, printing, engraving and lasering with one software package! The universal workstation either local or in a network. Tailor-made, electric, mechanical, pneumatic or hydraulic labelling. Just one software for company-wide labelling and one central labelling workstation minimize procurement, training and maintenance costs.

LASER DEVICES

Customer-specific, abrasion-proof labelling for metal and plastic label plates

THERMAL TRANSFER

The thermal transfer system for maximum labelling performance

INK-JET-PRINTER

Labelling on label plates, incl. colour printing

OFFICE LASER PRINTER

Use a laser printer to print onto paper and plastic sheet labels

ENGRAVING MACHINES

For fine mechanical engraving on materials with two or more layers.

ENGRAVING OPTION

mp-PM series plotter convertible to fully-featured engraving machines

ACS SOFTWARE

• Manual entry by keyboard
• Import from CAD-/CAE system

PLOTTER

The plotter family in two sizes for label plates, Duomatt and sheet labels
THE MP-ACS SOFTWARE

The software offers you many new features and functions for a simple and optimal creation of labelling projects.

- Support of common graphics formats (BMP, PNG, JPG, WMF, HPGL, PLT)
- Enhanced symbol library
- Data import from various CAD systems
- Data management using the Project Explorer

In brief, your benefits include:
- Process optimisation
- Time saving
- Cost reduction
- Transparent workflows

Selection of printed/non-printed datasets
Specific selection of already printed/not yet printed datasets, to optimise your operations.

Status bar icons
Direct access to frequently-used program modules – such as system parameters, printer settings, parameter editor – via status bar icons.

Online help
By pressing the F1 button, the currently required help topic will be displayed.

SYSTEM REQUIREMENTS

Operating system
- WIN 7 32/64 bit
- WIN 8 32/64 bit
- WIN 8.1 32/64 bit
- WIN 10 32/64-bit

Hardware
- Hardware as required by the OS
ENSURING THAT YOU MEET THE STANDARD

European standard EN 60204 (VDE 0113 Part 1) stipulates unique identification of cables, components and terminal blocks in control cabinets.

This identification must be durably legible. Murrplastik’s labelling system fulfils all these requirements. The Murrplastik labelling system can be used to label

- Individual wires
- Terminals
- Control gear
- Equipment locations
- Control and signal units
- and assemblies

from a wide range of manufacturers.

Data processing is handled by the ACS software. Data import routines for CAD/CAE packages support the project-specific import of labelling information.

Murrplastik is the independent labelling system manufacturer.

LABELLING MATERIAL

- Label sleeves
- Label holders
- Label plates
- Accessories

ENGRAVING MATERIAL

- Duomatt
- Triomatt
- Alumatt
- Anodised aluminium
- Stainless steel

Properties of the MP-ACS products

- Extremely durable
- Resistant to environmental influences and mechanical stress
- Wide range of fixing options
- Many different formats
- Wide range of options
- Undetachable
- Label retrofitting possible
Terminal block labelling

**LABEL PLATES**

<table>
<thead>
<tr>
<th>Label plates</th>
<th>Compatible terminal block brands</th>
</tr>
</thead>
<tbody>
<tr>
<td>KAB</td>
<td>Allen Bradley, Entrelec, Lütze, Woertz, Weidmüller</td>
</tr>
<tr>
<td>KLG</td>
<td>Legrand</td>
</tr>
<tr>
<td>KMR</td>
<td>Conta Clip, ABB-Entrelec, Klemsan, Schlegel, Weidmüller and Wago</td>
</tr>
<tr>
<td>KPX</td>
<td>ABB-Entrelec, Murrelektronik, Phoenix, Siemens and Wago</td>
</tr>
<tr>
<td>KSI</td>
<td>Siemens</td>
</tr>
<tr>
<td>KWI</td>
<td>ABB-Entrelec, D+E, Legrand, Phoenix, Sprecher + Schuh, Telemecanique, Wago und Wieland</td>
</tr>
<tr>
<td>WGO</td>
<td>Beckhoff, ABB-Entrelec und Wago</td>
</tr>
<tr>
<td>BEC</td>
<td>Beckoff</td>
</tr>
</tbody>
</table>

**TERMINAL BLOCK BRANDS**

- Adels
- Allen Bradley
- Beckhoff
- Conta Clip
- Entrelec
- Klemsan
- Legrand
- Lütze
- Murrelektronik
- Phoenix
- Siemens
- Schlegel
- Sprecher and Schuh
- Wago
- Weidmüller
- Wieland
- Woertz
- etc. ...
Device and device location labelling

**LABEL PLATES**

<table>
<thead>
<tr>
<th>Label plates</th>
<th>Compatible equipment brands</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKS</td>
<td>Siemens Sirius, Lütze</td>
</tr>
<tr>
<td>KSS</td>
<td>ABB, Conta Clip, Escha, Festo, IFM, Pepperl + Fuchs, Siemens, Turck</td>
</tr>
<tr>
<td>KSA</td>
<td>AEG and Square D</td>
</tr>
<tr>
<td>KTE</td>
<td>ABB, IFM, Murrelektronik, Telemechanique</td>
</tr>
<tr>
<td>KAB</td>
<td>ABB, Allen Bradley, Finder</td>
</tr>
<tr>
<td>ABB</td>
<td>ABB, Finder, Lumberg, Wago</td>
</tr>
<tr>
<td>KMO</td>
<td>Möller, Indramat, Murrelektronik</td>
</tr>
<tr>
<td>KS</td>
<td>Escha, IFM, Lumberg, Murrelektronik, Pepperl + Fuchs, Turck</td>
</tr>
<tr>
<td>KSF</td>
<td>Festo, Lumberg, Moeller, Murrelektronik, Pepperl + Fuchs</td>
</tr>
<tr>
<td>KSL</td>
<td>Bosch/Rexroth, Lumberg</td>
</tr>
<tr>
<td>KES</td>
<td>Escha, Murrelektronik, Turck</td>
</tr>
<tr>
<td>KPF</td>
<td>Pepperl + Fuchs</td>
</tr>
<tr>
<td>WGO</td>
<td>Beckhoff, Euchner, Wago</td>
</tr>
<tr>
<td>B&amp;R</td>
<td>B&amp;R X20 switchgear</td>
</tr>
<tr>
<td>KSK (self-adhesive)</td>
<td>Various manufacturers</td>
</tr>
<tr>
<td>KSZ</td>
<td>Harting heavy-duty plug connectors</td>
</tr>
</tbody>
</table>

**Direct labelling**
- Label plates for snap-fitting in the device

**BZS labelling system**
- Railing system for device location labelling – to be glued, bolted or riveted
- The BZS system is extremely versatile

The labelling rail with the snapped-in labels marks terminals and other components both vertical and horizontal. The system can be fitted on the top hat rail, C-rail or the cable duct. The KS/KSO labels are simply snapped into the label holder.

**EQUIPMENT BRANDS**

- ABB
- AEG
- Allen Bradley
- Beckhoff
- B&R Automation
- Bosch/Bosch-Rexroth
- Conta Clip
- Escha
- Euchner
- Festo
- Finder
- GE
- Schneider Group
- Harting
- IFM
- Indramat
- Lütze
- Lumberg
- Möller
- Murrelektronik
- Pepperl + Fuchs
- Phoenix
- Siemens
- Turck
- Universal application
- Wago
- etc. ...
Labelling of control/signalling devices and plant equipment

VARIOUS OPTIONS TO LABEL CONTROL AND SIGNALLING DEVICES

Manufacturer's label holder
A label of the Murrplastik labelling system can be snapped into or simply inserted or glued into the label holder of the control or signalling device.

Examples of compatible Murrplastik label plates:
- Duomatt DM engraving material
- ELO/ELW sheet labels
- KSK/KS labels
- KCT series

Neutral, universal labels
Compatible with control and signalling devices of all manufacturers. By using this labelling method, a random label of the Murrplastik labelling system becomes directly fixed to the control cabinet in any position.

Examples of suitable Murrplastik label plates:
- KSK/KS labels
- Duomatt DM / TMG engraving material
- AluMatt ALM / ALU engraving material
- ELO/ELW sheet labels
- KCT series
# Hardware and materials overview

## LABELLING OVERVIEW

<table>
<thead>
<tr>
<th>PROCEDURE</th>
<th>HARDWARE</th>
<th>BENEFITS</th>
</tr>
</thead>
</table>
| LASER     | ![MP LM 1 Laser Marking](image) | • Permanent, durable labelling via carbonisation  
• Possibility to process different materials  
• High productivity and labelling speed  
• Minimal operating costs  
• Contact-free labelling  
• Minimal maintenance  
• No consumables needed |
| LASER     | ![Pulsar Laser](image) | • Photo-realistic quality  
• High print speed  
• Durable lettering  
• USB / WLAN / Ethernet port  
• High productivity |
| INKJET    | ![Pictor Inkjet](image) | • Suitable for universal use  
• High-quality labelling  
• Labelling of electric, pneumatic and mechanical components  
• All plotters in the mp-PM series can be converted to engraving machines  
• Simple conversion  
• Extensive selection of engraving materials |
<p>| PLOTTING  | <img src="image" alt="MP PM-Series" /> | |</p>
<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polycarbonate</td>
<td>Polycarbonate</td>
</tr>
<tr>
<td>Stainless steel</td>
<td>Sheet labels</td>
</tr>
<tr>
<td>Anodised aluminium</td>
<td>Laser labels</td>
</tr>
<tr>
<td>Polypropylene</td>
<td>Polycarbonate</td>
</tr>
<tr>
<td></td>
<td>Polypropylene</td>
</tr>
<tr>
<td></td>
<td>Duomatt (engraving option)</td>
</tr>
<tr>
<td></td>
<td>Sheet labels</td>
</tr>
<tr>
<td></td>
<td>Sheet labels</td>
</tr>
</tbody>
</table>
# Hardware and materials overview

<table>
<thead>
<tr>
<th>PROCEDURE</th>
<th>HARDWARE</th>
<th>BENEFITS</th>
</tr>
</thead>
</table>
| THERMAL TRANSFER | mp-TM EOS1        | • Large output volume  
|                |                   | • Outstanding print quality  
|                |                   | • High-durability of labelling  
|                |                   | • Easy handling  
|                |                   | • Large range of labels  
|                |                   | • USB and Ethernet ports  |
| THERMAL TRANSFER | mp-TM A4+M        | • Large output volume  
|                |                   | • Outstanding print quality  
|                |                   | • High-durability of labelling  
|                |                   | • Easy handling  
|                |                   | • USB and Ethernet ports  |
| THERMAL TRANSFER | mp-TM XD4T        | • Product range includes various engraving machines  
|                |                   | • Large range of chisels and engravers  
|                |                   | • Extensive selection of engraving materials  
|                |                   | • Two- and multi-layer materials  
|                |                   | • Large selection of plastic and metal labels  |
| ENGRAVING      | CAM 100 / 200      | • Large output volume  
|                |                   | • Outstanding print quality  
|                |                   | • High-durability of labelling  
|                | mG50 (A4)          | • Easy handling  
|                | mG60 (A3)          | • USB and Ethernet ports  |
**MATERIAL**

- ECP-Eco
- ECP Premium
- Heat-shrink tubes
- KC-series
- TEP polyester labels
- TEG fabric labels
- TES self-laminating vinyl labels

**APPLICATION**

- Heat-shrink tubes
- Duomatt
- Anodised aluminium
- Triomatt
- Alumatt
LABELLING SYSTEM

Laser – permanent and fast

PERMANENT, RAPID LABELLING OF A WIDE VARIETY OF MATERIALS

Individual, abrasion-proof laser labelling of metal and plastic label plates, with the pulsar laser labelling system and the new mp-LM 1 of Murrplastik.

- Abrasion-proof, high-quality labels
- Huge variety of labelling materials
- High-performance output
- ACS software
- Minimal operating and lifecycle costs

With the pulsar or mp-LM 1 label plates can be engraved for:
- Wires
- Cables
- Terminals
- Control and signal units
- Switchgear
- Media equipment and many, many more.

BENEFITS

- Permanent, durable labelling by carbonisation (for plastic labels)
- Possible to process different materials
- High productivity and labelling speed
- Minimal operating costs
- Works with standard ACS software
- Contact-free labelling
- Minimal maintenance
- No consumables needed
### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Laser source</th>
<th>mp-LM 1</th>
<th>pulsar</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5 watt solid state laser Nd:YAG</td>
<td>6 watt solid state laser</td>
<td></td>
</tr>
<tr>
<td>Wavelength</td>
<td>1064 nm</td>
<td>1064 nm</td>
</tr>
<tr>
<td>Modulation</td>
<td>Air</td>
<td>frequency 15 kHz – 200 kHz</td>
</tr>
<tr>
<td>Cooling</td>
<td>Air</td>
<td>Air</td>
</tr>
<tr>
<td>Input voltage</td>
<td>100 - 240V AC</td>
<td>230 V / 50–60 Hz</td>
</tr>
<tr>
<td>Power</td>
<td>max. 200 W</td>
<td>0.5 KW</td>
</tr>
<tr>
<td>Dimensions</td>
<td>475 x 795 x 300 mm (H x W x D)</td>
<td>630 x 510 x 755 mm (H x W x D)</td>
</tr>
<tr>
<td>Weight</td>
<td>17.5 KG</td>
<td>54 kg</td>
</tr>
<tr>
<td>Interface</td>
<td>USB, Ethernet</td>
<td>USB</td>
</tr>
</tbody>
</table>

### LONG-TERM LABELLING

- Superb durability of finished labels
- Labelling is 100% permanent and is as durable as an etched inscription
- Laser labelling will not be bleached out by UV radiation
- Complies with stringent laser class 1

### THAT'S FLEXIBILITY!

- From customised individual labelling to batch-mode production
- User-specific labels
- End-to-end machine labelling
- Huge range of materials

### IN LINE WITH TIME - AN EXCELLENT PRICE-PERFORMANCE RATIO

- Minimal operating costs
- The laser works without consumables
- High output volume
- Up to 10,000 label plates per hour

---

**Principle**

Laser inscription by colour changes (carbonisation) in the material.
**BENEFITS**

- Durable lettering
- Easy initial set-up
- Works with standard ACS software
- High-speed printing
- Depending on the equipment type selected you have the option of photorealistic quality or printing with less ink.

**INKJET PRINTER WITH ENLARGED PRINT AREA**

The enlarged print area, the vast printing capacity of up to 600,000 characters per cartridge and the integrated WLAN and Ethernet interfaces of Murrplastik’s new pictor² and pictor² black inkjet label printers have set a new benchmark for colour-based inkjet printing systems.

The labelling specialist Murrplastik Systemtechnik, Oppenweiler, Germany presents the high-end inkjet printers pictor² and pictor² black. Pin-sharp and photo-realistic quality with 720 dpi (pictor²). High-quality pure black and white printing, either high-quality or with optional ink saving settings (pictor² black).

The ink was especially developed for the pictor² and pictor² black and ensures robust, quick drying and durable labelling. Different types of labels can even mixed on a single base plate. Users can now produce their entire daily demand of label plates in just a few minutes. With their attractive design and a weight of just about 20 kg, the pictor² and the pictor² black are the ideal desktop printers.
### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Feature</th>
<th>pictor² black</th>
<th>pictor²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power unit</td>
<td>100–240 V AC universal</td>
<td>100–240 V AC universal</td>
</tr>
<tr>
<td>Print area</td>
<td>Approx. A3 for 6 aluminium base plates</td>
<td>Approx. A3 for 6 aluminium base plates</td>
</tr>
<tr>
<td>Print speed</td>
<td>from 90 sec. for 6 base plates (incl. job processing)</td>
<td>from 90 sec. for 6 base plates (incl. job processing)</td>
</tr>
<tr>
<td>Interface</td>
<td>USB / LAN / WLAN</td>
<td>USB / LAN / WLAN</td>
</tr>
<tr>
<td>Filling</td>
<td>• 2 x Black (photo and matt black)</td>
<td>• 7 colour cartridges</td>
</tr>
<tr>
<td></td>
<td>• 1 gloss (empty)</td>
<td>• 1 gloss (empty)</td>
</tr>
<tr>
<td>Print volume</td>
<td>Approx. 600,000 chars per cartridge (font size 24 in ACS software)</td>
<td>Approx. 600,000 chars per cartridge (font size 24 in ACS software)</td>
</tr>
<tr>
<td>Print resolution</td>
<td>720 dpi</td>
<td>720 dpi</td>
</tr>
<tr>
<td>Nozzles per colour</td>
<td>180</td>
<td>180</td>
</tr>
<tr>
<td>Min. drop size</td>
<td>1 pl (picolitre)</td>
<td>1 pl (picolitre)</td>
</tr>
<tr>
<td>Ink</td>
<td>Special ink</td>
<td>Special ink</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Approx. 64 x 25 x 73 cm (W x H x D)</td>
<td>Approx. 64 x 25 x 73 cm (W x H x D)</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 20 kg</td>
<td>Approx. 20 kg</td>
</tr>
</tbody>
</table>

**Wide range of labelling materials available**

**User-friendly operation**

**6 labelling mats labeled rapidly, permanently and coloured**
LABELLING SYSTEM

mp-PM Basic or mp-PM A3 plotter systems – suitable for universal use

UNIVERSAL USE FOR HIGH-QUALITY LABELLING

The mp-PM plotter system is the universal labelling system serving a broad range of labelling needs.

Fast and safe with an extremely high quality typeface. The systems are suitable for labelling of electrical, pneumatic and mechanical components. The plotter system perfectly matches the ACS labelling software.

BENEFITS

- Suitable for universal use
- High-quality labelling
- Labelling of electric, pneumatic and mechanical components
- Convertible into an engraving machine

PEN station (mp-PM A3)

The pens are kept tidy and can stay in the machine permanently. The plotter pens are sealed airtight in the pen station, to prevent them from drying out.

High capacity

Up to 10 base plates can be applied on one mp-PM series plotter board.

TECHNICAL DATA

<table>
<thead>
<tr>
<th>mp-PM Basic and mp-PM A3</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Plotter type</strong></td>
<td>Flatbed plotter</td>
</tr>
<tr>
<td><strong>Max. plotting area</strong></td>
<td>273 mm x 305 mm (mp-PM Basic)</td>
</tr>
<tr>
<td></td>
<td>422 mm x 305 mm (mp-PM A3)</td>
</tr>
<tr>
<td><strong>Speed</strong></td>
<td>Max. 40 mm/s</td>
</tr>
<tr>
<td><strong>Interfaces</strong></td>
<td>Parallel (Centronics), USB Level 2</td>
</tr>
<tr>
<td><strong>Drive</strong></td>
<td>Two-phase stepping motor</td>
</tr>
<tr>
<td><strong>Pen station</strong></td>
<td>Max. 4 pens with double sealing</td>
</tr>
<tr>
<td><strong>only for A3</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Base plate population</strong></td>
<td>6 or 10 plates</td>
</tr>
</tbody>
</table>
Plotter systems can be converted into a full-featured engraving machine

PLOTTER AS AN ENGRAVING MACHINE!

The mp-PM series plotters can simply and easily be converted into a full-featured engraving machine, complete with vacuum cleaner. Conversion is very straightforward: The spindle unit is fixed on the plotter in place of the pen unit and is connected with the vacuum cleaner and a control unit for the spindle.

Turning any plotter into a multifunctional machine! Long waiting times for external engraving jobs now belong to the past. Saving you time and money.

<table>
<thead>
<tr>
<th>TECHNICAL DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Engraving chisel</strong></td>
</tr>
<tr>
<td><strong>RPM</strong></td>
</tr>
<tr>
<td><strong>Torque</strong></td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
</tr>
<tr>
<td><strong>Spring chucks</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Scope of delivery</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Control unit</strong></td>
</tr>
<tr>
<td><strong>Vacuum cleaner</strong></td>
</tr>
</tbody>
</table>

BENEFITS

- All plotters of the mp-PM series can be converted into an engraving machine
- Simple conversion
- Extensive selection of engraving materials
**mp-TM thermal transfer – a wide range of labels**

**mp-TM A4+M - THE LABEL PRINTER WITH CENTRED GUIDING FOR SPECIAL MATERIALS**

The professional printer for narrow and thick continuous materials, like flat pressed conduits, tapes and very small labels. The centred material guiding makes it possible to change material widths without having to adjust the print head. Printing speed can be slowed down for materials with special printing needs.

**mp-TM EOS1 - ROBUST LABEL PRINTER WITH THE GREATEST EASE OF USE**

The compact label printer is especially well suited for tight workspaces. The clear and simple touchscreen operation, as well as the rapid centring of the label roll, make operating the EOS1 particularly easy. Wearing parts like the print head and the print roller can be replaced quickly and easily without tools.

**MATERIALS**

- Labels / strips or tapes
- Heat-shrink tubes
- Rolled goods / continuous material
- KC-ECO Series
- other materials available on request

**ACCESSORIES (OPTIONALLY AVAILABLE)**

- Cutter (see illustration)
- External unwinder
- Perforation blade

**BENEFITS**

- Easy maintenance without tools
- Automatic material alignment
- Internal memory / USB 2.0 interface

www.murrplastik.de
<table>
<thead>
<tr>
<th><strong>TECHNICAL DATA</strong></th>
<th><strong>mp™ E0S1</strong></th>
<th><strong>mp™ A4+M</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Basic printing method</strong></td>
<td>Thermal transfer / - direct</td>
<td>Thermal transfer / - direct</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>300 dpi</td>
<td>300 dpi</td>
</tr>
<tr>
<td><strong>print width</strong></td>
<td>up to 105.7 mm</td>
<td>up to 105.6 mm</td>
</tr>
<tr>
<td><strong>Print speed</strong></td>
<td>up to 125 mm/s</td>
<td>up to 125 mm/s</td>
</tr>
<tr>
<td><strong>Labels / continuous material</strong></td>
<td>On roll</td>
<td>On roll</td>
</tr>
<tr>
<td><strong>Roll diameter</strong></td>
<td>up to 152 mm</td>
<td>up to 152 mm</td>
</tr>
<tr>
<td><strong>Thickness / weight</strong></td>
<td>0.055 - 0.7 mm / 60 - 240 g/m²</td>
<td>0.05 - 0.8 mm / 60 - 300 g/m²</td>
</tr>
<tr>
<td><strong>Label width</strong></td>
<td>10 + 116 mm</td>
<td>4 + 106 mm</td>
</tr>
<tr>
<td><strong>Width of carrier strip</strong></td>
<td>25 + 120 mm</td>
<td>10 + 110 mm</td>
</tr>
<tr>
<td><strong>Width of continuous materials</strong></td>
<td>5 + 120 mm</td>
<td>10 + 110 mm</td>
</tr>
<tr>
<td><strong>Width of heat-shrink conduits</strong></td>
<td>5 - 85 mm</td>
<td>4 - 85 mm</td>
</tr>
<tr>
<td></td>
<td>heat-shrink conduit on roll</td>
<td>heat-shrink conduit on roll</td>
</tr>
<tr>
<td><strong>Height x depth x width</strong></td>
<td>189 x 322 x 253 mm</td>
<td>274 x 446 x 242 mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>4 kg</td>
<td>9 kg</td>
</tr>
<tr>
<td><strong>Interfaces</strong></td>
<td>USB 2.0, Ethernet 10 / 100 Base T</td>
<td>USB 2.0, Ethernet 10 / 100 Base T</td>
</tr>
<tr>
<td><strong>Input voltage</strong></td>
<td>100 – 240 VAC, 50/60 Hz</td>
<td>100 – 240 V ~ 50/60 Hz, PFC</td>
</tr>
<tr>
<td><strong>Approvals</strong></td>
<td>CE, FCC class A, CB, CCC, UL</td>
<td>CE, FCC class A, CB, CCC, UL</td>
</tr>
</tbody>
</table>
mp-TM XD4T Twin thermal transfer

LABELLING SYSTEM

mp-TM XD4T Twin - PRINTER FOR DOUBLE-SIDED LABELLING OF HEAT-SHRINK CONDUITS

The mp-TM XD4T Twin Thermal transfer printer with two print heads is the preferred equipment for double-sided printing of heat-shrink conduits. Furthermore, taped heat-shrink conduits can be labelled with just a few limitations. Printing on the backside is slightly limited, due to the carrier foil.

The perforation blade, which is an available option, can perforate the continuous material during the printing process and can be cut off manually afterwards. The mp-TM XD4T Twin Thermal transfer printer is not suitable for printing one-sided labels.

ACCESSORIES (OPTIONALLY AVAILABLE)

• Perforation blade (see illustration)
• External unwinder

BENEFITS

• Easy maintenance without tools
• Automatic material alignment
• Internal memory / USB 2.0 interface

MATERIALS

• Continuous heat-shrink conduit
• Taped heat-shrink conduit (with some limitations)
• other materials available on request
## TECHNICAL DATA

**mp-TM XD4T Twin**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Specification Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic printing method</td>
<td>Thermal transfer</td>
</tr>
<tr>
<td>Resolution</td>
<td>300 dpi</td>
</tr>
<tr>
<td>Print width</td>
<td>up to 105.6 mm</td>
</tr>
<tr>
<td>Print speed</td>
<td>up to 125 mm/s</td>
</tr>
<tr>
<td>Heat-shrink conduit material</td>
<td>On roll, continuous / conditionally taped</td>
</tr>
<tr>
<td>Roll diameter</td>
<td>up to 300 mm</td>
</tr>
<tr>
<td>Thickness / weight</td>
<td>0.05 - 0.8 mm / 60 - 300 g/m²</td>
</tr>
<tr>
<td>Material width</td>
<td>4 + 110 mm</td>
</tr>
<tr>
<td>Core diameter</td>
<td>38 + 100 mm</td>
</tr>
<tr>
<td>Height x depth x width</td>
<td>395 x 554 x 248 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>21 kg</td>
</tr>
<tr>
<td>Interfaces</td>
<td>USB 2.0, Ethernet 10 / 100 Base T</td>
</tr>
<tr>
<td>Input voltage</td>
<td>100 - 240 V ~ 50/60 Hz</td>
</tr>
<tr>
<td>Approvals</td>
<td>CE, FCC class A, CB, CCC, UL</td>
</tr>
</tbody>
</table>
ENGRAVING WITH A KICK

The new MGS 50-TO engraving system extends Murrplastik’s portfolio of engraving systems.

The small and powerful system is equipped with numerous new features, such as:
- Chisel configuration tool
- In-process configuration of travel and engraving speeds
- Digital engraving depth display

Graver zero-setting tool
Zero-setting is used to set the chisel cutting depth to zero in order to enable the correct adjustment of the chisel immersion depth (engraving depth) with the depth regulator.

Quick-release chuck
The new quick-release chuck system makes it very easy to remove and replace the chisel.

TECHNICAL DATA FOR MGS 50/60

<table>
<thead>
<tr>
<th>Feature</th>
<th>MGS 50 (A4)</th>
<th>MGS 60 (A3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working area</td>
<td>300 x 200 mm</td>
<td>300 x 200 mm</td>
</tr>
<tr>
<td>Engraving speed</td>
<td>max. 20 mm/s</td>
<td>max. 20 mm/s</td>
</tr>
<tr>
<td>Interface</td>
<td>USB Level 1.1</td>
<td>USB Level 1.1</td>
</tr>
<tr>
<td>Data buffer</td>
<td>16 MB</td>
<td>16 MB</td>
</tr>
<tr>
<td>Drive</td>
<td>Two-phase stepping motor</td>
<td>Two-phase stepping motor</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>100–240V AC 50–60 Hz</td>
<td>100–240V AC 50–60 Hz</td>
</tr>
<tr>
<td>Input current</td>
<td>0.7 A max.</td>
<td>0.7 A max.</td>
</tr>
<tr>
<td>Dimensions</td>
<td>A4: 440 mm x 440 mm x 125 mm</td>
<td>A3: 660 mm x 440 mm x 125 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>A4: approx. 6 kg</td>
<td>A3: approx. 8.85 kg</td>
</tr>
<tr>
<td>Engraving chisel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RPM</td>
<td>min. 5,000 RPM, max. 50,000 RPM</td>
<td>min. 5,000 RPM, max. 50,000 RPM</td>
</tr>
<tr>
<td>Frequency</td>
<td>83-830 Hz</td>
<td>83-830 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>120 W</td>
<td>120 W</td>
</tr>
<tr>
<td>Motor type</td>
<td>Three-phase AC, asynchronous, brushless</td>
<td>Three-phase AC, asynchronous, brushless</td>
</tr>
<tr>
<td>Housing</td>
<td>Aluminium</td>
<td>Aluminium</td>
</tr>
<tr>
<td>Ball bearing type</td>
<td>Steel, dual</td>
<td>Steel, dual</td>
</tr>
<tr>
<td>Cooling</td>
<td>Self-ventilating with in-built fan</td>
<td>Self-ventilating with in-built fan</td>
</tr>
</tbody>
</table>

BENEFITS
- High engraving speeds
- Large working area
- Compact and robust design
- Digital engraving depth display
Engraving – CAM 100/200
All-in-one system

BENEFITS
• Device features can be customised to match individual requirements
• Open housing technology
• High hourly output
• High set-up capacity
• Ball screw drive
• High repeat accuracy
• Maintenance-friendly

TECHNICAL DATA

<table>
<thead>
<tr>
<th></th>
<th>CAM 100 complete system</th>
<th>CAM 200 complete system</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range of travel</td>
<td>X/Y 330 x 290 mm</td>
<td>X/Y 540 x 500 mm</td>
</tr>
<tr>
<td>Stroke</td>
<td>75 mm</td>
<td>75 mm</td>
</tr>
<tr>
<td>Set-up surface</td>
<td>500 x 600 mm</td>
<td>750 x 850 mm</td>
</tr>
<tr>
<td>Interfaces</td>
<td>USB</td>
<td>USB</td>
</tr>
</tbody>
</table>
| Mechanics            | • Face-milled surfaces, accuracy < 0.05 mm  
                       |  • 3 ball screw drives, 16 x 5 mm with flange bearings 
                       |  • Repeating accuracy +/- 1/100 mm 
                       | • x/y/z feed, backlash-free, with stepper motor drive  
                       |  • Rubber cover with Teflon coating 
                       |  • 3 end and reference switches, accuracy < 1/100 mm |
TAILORED LABELLING SERVICES

Murrplastik Systemtechnik supports companies with a hugely diverse range of labelling requirements. We have therefore seen that companies often pay less for outsourcing than they do for in-house labelling.

The reasons are obvious. A company that, for example, develops and installs control units before also putting them into service is usually under high financial and time-related pressure to provide the necessary equipment and training for employees. Not to mention the fact that labelling tasks change constantly.

HUGE QUANTITIES IN NO TIME AT ALL

Our state-of-the-art equipment and a machine park of the grandest scale make it possible for us to inscribe large quantities of labels.

Best features...

... for high standards. We offer these diverse types of labelling tailored for your special application requirements: Engraving, printing (thermal transfer / inkjet), plotting and laser inscribing.

FOR ANY APPLICATION

INDIVIDUAL WIRES

CABLES

SWITCHGEAR

TERMINALS

ID PLATES

CONDUITS

Full service

Murrplastik’s product and services program includes a vast range of standard pre-fabricated products, e.g. pre-fitted sleeves, label holders with cable ties, project-specific packaging, or simply the inscribed labels. Just as the customer desires.
**INDIVIDUALISED MURRPLASTIK LABELLING- & FITTING SERVICE**

**Easy and secure data exchange**

Just send your labelling data per email or the medium of your choice to our service centre.

Your data will be processed promptly and can be stored for two years for subsequent projects on request.

Data format options are virtually unlimited: ASCII format, MS-Office application files (i.e. Excel), as well as data from CAD / CAE programmes, or from the Murrplastik ACS labelling software.

**LABELLING PROCEDURES**

- Engraving
- Thermal transfer printing
- Plotting
- Laser inscription
- Inkjet printing

**DIRECT YOUR ORDER TO:**

**LABEL HOLDER WITH CABLE TIES**

**PRE-FITTED SLEEVES**

**PROJECT-SPECIFIC PACKAGING**