# kortho

# GraphicJet
# P-series

## General specifications GraphicJet 18P | 18PT | Basic

### General Features

The compact printhead and the individual inking system make installation possible at virtually any point in a production line.Whether the printing must be done on the side of a tray or the top of a box.

Per printhead a large image area of up to 18 x 500 mm can be completely freely arranged. An image can be filled with text up to eight lines high, logos, time, date, best before date, barcodes, batch numbers and shift codes in various types of presentation. The character height of text is 1.5 mm at the minimum and 18 mm at the maximum. Text and pictures can be placed both horizontally and vertically in an image.

### Texts

1 to 8 (16) lines, character sizes: 6, 8, 10, 12, 16, 20, 28, 48, 54 and 69 with standard font InkHr. Texts can be changed on the controller with 'operator input' option.

### Automatic numbering

Batch codes, lot numbering, pallet counting, etc. in various forms of notation. Space for several numbering codes per image.

### Automatic date coding

Best before date, production date and other date designations in various forms of notation, such as day of the week, week of the year, in Arabic format, etc. Multiple date codes per image possible. Data can be changed on the controller.

### Automatic time coding

Time in various forms of notation. Multiple time codes possible in one image.

### Automatic shift codes

Up to 25 shift codes, definable over a maximum of 7 days. Multiple shift codes possible in one image.

### Barcodes

EAN8, EAN13, CODE 39, EAN128, UPCA, UPCE, CODE128 and ITF, with adjustable height and module width.
Multiple barcodes possible in one image.

### Graphic images

Logos can be imported in KIGS as black & white bitmaps. Depending on size, multiple logos per image are possible.

### Free Image layout

All codes can be freely placed within the design field (18 x 500 mm). Every text, time, date, numbering or shift code is rotatable in 4 orientations: 0, 90, 180 and 270°.

Text or graphics can be aligned automatically, on a grid or by entering the exact coordinates for precise layout of the image.

### Print position and printing direction

Printing position (delay) can be adjusted in mm.
Print direction can be set to left or right.

### Speed

Printing speed is adjustable, from 0.4 m/min to 35 m/min. Optional speed encoder available for products which do not move with constant speed.

### Image Size

Image width is adjustable, even during printing. The image width can be enlarged up to 9 times.

### Continuous printing

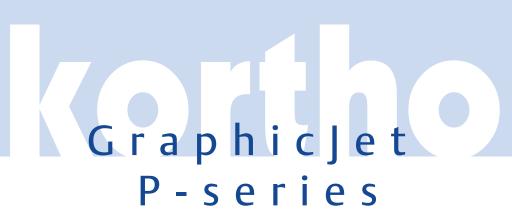Option of continuous printing with adjustable repeating space, up to 1 meter.

### low-ink alarm

Standard. Ink system refillable during printing.

### Internal memory capacity

512 kB, up to 999 images. Number of images depends on the size, an average image without a picture is between 1 and 5 kB.

## kortho
coding & marking

# kortho
# GraphicJet
# P-series

## Technical specifications GraphicJet 18P | 18PT | Basic

### System
Stand-alone High Resolution Inkjet Printer.

### GraphicJet X18 models
GraphicJet 18P, GraphicJet 18PT and GraphicJet 18P Basic
18PT configuration:  a controlbox 18PT controlling two 18P's.
18P Basic configuration: a stand alone system with 12 pre-
defined images with standard 1-6 rows print-layouts.

### Printhead technology
18mm high
Piezoelectric, 185 dpi vertical resolution,
128 individually addressable dots.

### Controller
Controller 18P
Controller 18PT
Controller 18P Basic

### Printhead distance from product
Maximum 5 mm.

### Ink system capacity
160 ml.

### Maximum printing speed
35 m. per minute.

### Power
| | |
|---|---|
| Input voltage: | 100-240VAC |
| Frequency: | 50 – 60 Hz |
| Power: | max. 40VA |
| Inrush current: | < 18A at 115VAC |
| | < 36A at 230VAC |

### Print signal
Standard type NPN or PNP photocell, potential-free
contact or a voltage between 5 - 30 VDC.

### Programming and printing facilities
Languages in TsC20: En,Nl,De,Es,Fr,Ru,Pl,Pt,Hu,Ar
other languages upon request.
On-Board Labeldesign (OSD)
Input labels in memory controller by USB.
Direct label printmanagement by Ethernet.
Nicelabel Labeldesign with extended functionality,
third-party software.
Nicelabel platform: multi-operating system environment.

### Operating temperature
10 - 40 °C.

### Humidity
10% - 90%, non-condensing.

### Main dimensions in mm (h x w x d)
Coding Unit: 322 x 170 x 477 (Bracket included)
Controller: 303 x 266 x 104.

### Ink
Multiple Kortho Ink GJ for porous and non-porous:
More than 150 types of ink: Oil based, Solvent based,
Water based, Food Grade, UV ink, colored inks and many more.
Applicable for printing on both porous and non-porous
materials.

### Software
*Only for GraphicJet 18P and 18PT:*
Kortho Image Generation Software (KIGS): Diagnostic and
labeldesign software for Windows.

### GraphicJet 18P Basic features
12 pre-defined Images with most standard print-templates.[1]
Stand-alone, no PC necessary.
Extremely user friendly.
Up to 6 lines high resolution printing.
Options for adding time, date and counters.
Storage facilities for approx. 250 messages.

### Optional
Speed Encoder for automatic print speed adjustment.
Alarm beacon.

### Interface
Signals:
| | |
|---|---|
| Inputs: | Print Request, Inhibit, |
| Outputs: | Ink out, Busy, General Alarm. |

[1] *See our special GraphicJet Basic template leaflet.*

## kortho
coding & marking