

## » DYNACODE SERIES

- Direct marking of foil packages
- Intermittent and continuous mode selectable
- Printing real-time data and automatic update of best before date
- Print width up to 128 mm
- Best print resolution in 300 dpi
- Up to 900 m transfer ribbon for long production running times
- Ribbon remainder indication for fast ribbon change
- Mechanisms for optimal transfer ribbon utilization
- All common interfaces for fast data exchange
- High ribbon saving of 1 mm between the prints
- Minimum of wear parts



Thermal transfer direct printing systems are the non plus ultra for applications in the food industry, confectionery industry, pharmaceuticals industry or the hardware industry, to cite several examples. The most frequent application area is the marking of flexible foil packaging or boxes. The Dynacode convinces not only through the easy to change ribbon cassette but also due to the separate control unit and through integration in virtually all horizontal and vertical packaging systems. With a print resolution of 300 dpi, printing of graphics and company logos is no problem, and with a print speed up to 800 mm/s virtually all customer desires can be satisfied.

### » High-quality marking at low operating costs

Through the use of transfer ribbons with a length up to 900 m, for Dynacode less frequent ribbon replacement is enabled. Thanks to the high capacity of the ribbon operating costs are directly reduced. For optimal transfer ribbon utilization, in addition to standard ribbon save, shift ribbon save and save start ribbon save are also available. By the use of the ribbon save function the gap between the individual layouts can be reduced to 1 mm via the length of roll. Overprints are prevented and a consistently high print quality is guaranteed. This foil saving automation reduces standstill times and enables an even higher capacity utilization of the transfer ribbons.

### » Excellent flexibility

The Dynacode series provides best flexibility which permits switching between intermittent and continuous mode in a simple way. Printing continuously the printhead stands still while the packaging foil is guided through; printing is possible as well during operation of packaging machine. Printing intermittent the printhead moves in a programmable moving pattern over the foil in order to move back to starting position. The print is effected during the standstill of machine for some instants, frequently while a packing is filled.

### » Print speed and cycle time

Thanks to the extremely light and precise printhead guiding, the Dynacode achieves an extremely high cycle time with the intermittent version as well as with the continuous version. Thanks to a floating printhead support slight parallelism differences of counter-pressure plate / counter-pressure roller can be adjusted. Variable data, lot numbers, date, time in real time, is printed through an in-house developed special software program that enables extremely fast data preparation.



### » Control unit

With the control unit the configuration of the printing system can be changed in simplest way. Layouts saved on a Compact Flash card can be retrieved and printed by using the foil keyboard as well as an external alphanumeric keyboard.



### » Mounting frames for continuous mode

Mounting frames with different dimensions for the simple integration of the system into almost all production lines, depending on installation position for intermittent as well as for continuous mode are available.



### » Left and right hand versions

The offered right and left hand versions permit almost unlimited horizontal or vertical installation possibilities.



### » Interfaces

The Dynacode series is equipped with standard serial, parallel, USB and LAN connection.

# » TECHNICAL DATA

## » DYNACODE SERIES

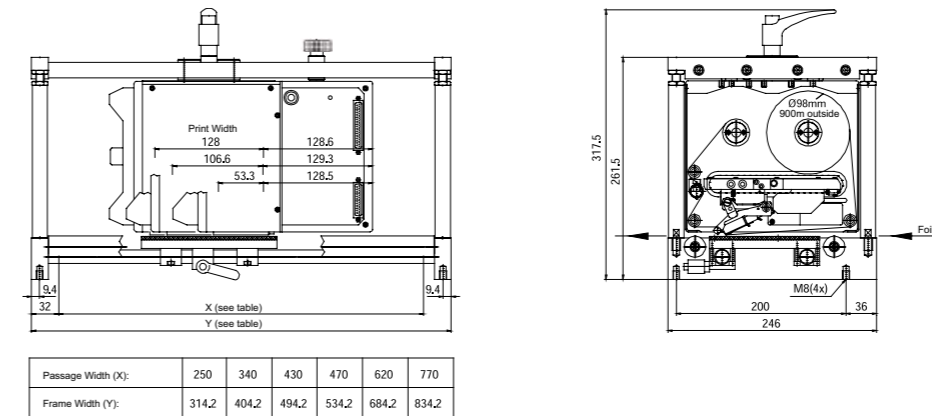
	DYNACODE 53	DYNACODE 107	DYNACODE 128
<b>PRINT</b>			
Max. Print Width	53.3 mm	106.6 mm	128 mm
Max. Print Length	6,000 mm	3,000 mm	3,000 mm
Continuous Mode	75 mm	75 mm	75 mm
Intermittent Mode			
Frame Passage Width	customized	customized	customized
Resolution	300 dpi	300 dpi	300 dpi
Print Speed			
Continuous Mode	50 – 800 mm/s	50 – 600 mm/s	50 – 450 mm/s
Intermittent Mode	50 – 600 mm/s	50 – 600 mm/s	50 – 600 mm/s
Max. Back Speed	600 mm/s (intermittent mode only)	600 mm/s (intermittent mode only)	600 mm/s (intermittent mode only)
Printhead	Corner Type	Corner Type	Corner Type
<b>DIMENSIONS (WIDTH x HEIGHT x DEPTH)</b>			
Print Mechanics			
Without Mounting Frame	204 mm x 180 mm x 234 mm	204 mm x 180 mm x 290 mm	204 mm x 180 mm x 312 mm
With Mounting Frame	depending on passage width	depending on passage width	depending on passage width
Control Unit	240 mm x 125 mm x 332 mm	240 mm x 125 mm x 332 mm	240 mm x 125 mm x 332 mm
Connecting Cable to Mechanics	2.5 m	2.5 m	2.5 m
<b>WEIGHT</b>			
Print Mechanics	9.5 kg	11 kg	11.7 kg
Electronics with Cable	5.5 kg	5.5 kg	5.5 kg
<b>FONTS</b>			
Font Types	6 Bitmap fonts, 6 Vector fonts/TrueType fonts, 6 proportional fonts other fonts on demand	6 Bitmap fonts, 6 Vector fonts/TrueType fonts, 6 proportional fonts other fonts on demand	6 Bitmap fonts, 6 Vector fonts/TrueType fonts, 6 proportional fonts other fonts on demand
<b>BAR CODES</b>			
1D Bar Codes	CODABAR, Code 128A, Code 128B, Code 2/5 interleaved, Code 39, Code 39 extended, Code 93, EAN 13, EAN 8, EAN ADD ON, GS1-128, Identcode (German Post Code), ITF 14, Leitcode (German Post Code), Pharmaco, PZN Code, UPC-A, UPC-E	CODABAR, Code 128A, Code 128B, Code 2/5 interleaved, Code 39, Code 39 extended, Code 93, EAN 13, EAN 8, EAN ADD ON, GS1-128, Identcode (German Post Code), ITF 14, Leitcode (German Post Code), Pharmaco, PZN Code, UPC-A, UPC-E	CODABAR, Code 128A, Code 128B, Code 2/5 interleaved, Code 39, Code 39 extended, Code 93, EAN 13, EAN 8, EAN ADD ON, GS1-128, Identcode (German Post Code), ITF 14, Leitcode (German Post Code), Pharmaco, PZN Code, UPC-A, UPC-E
2D Bar Codes	CODABLOCK F, DataMatrix, GS1 DataMatrix, MAXICODE, PDF417, QR Code	CODABLOCK F, DataMatrix, GS1 DataMatrix, MAXICODE, PDF417, QR Code	CODABLOCK F, DataMatrix, GS1 DataMatrix, MAXICODE, PDF417, QR Code
Composite Bar Codes	GS1 DataBar Expanded, GS1 DataBar Limited, GS1 DataBar Omnidirectional, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Truncated	GS1 DataBar Expanded, GS1 DataBar Limited, GS1 DataBar Omnidirectional, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Truncated	GS1 DataBar Expanded, GS1 DataBar Limited, GS1 DataBar Omnidirectional, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Truncated
<b>ACOUSTIC EMISSION</b>			
Average Sound Power Level	60 dB(A)	65 dB(A)	68 dB(A)
<b>ELECTRONICS</b>			
Processor	High Speed 32 Bit	High Speed 32 Bit	High Speed 32 Bit
RAM	16 MB / 64 MB (on demand)	16 MB / 64 MB (on demand)	16 MB / 64 MB (on demand)
Slot	for Compact Flash card type I	for Compact Flash card type I	for Compact Flash card type I
Battery Cache	for real-time clock (storage of data with shut-down)	for real-time clock (storage of data with shut-down)	for real-time clock (storage of data with shut-down)
Warning Signal	acoustic signal when error	acoustic signal when error	acoustic signal when error
<b>INTERFACES</b>			
Serial	RS-232C (max. 115,200 baud)	RS-232C (max. 115,200 baud)	RS-232C (max. 115,200 baud)
Parallel	Centronics	Centronics	Centronics
USB	1.0	1.0	1.0
Ethernet/LAN	10/100 Base-T	10/100 Base-T	10/100 Base-T
<b>TRANSFER RIBBON</b>			
Coating	outside / inside*	outside / inside*	outside / inside*
Max. Roll Diameter	98 mm	82 mm	75 mm
Core Diameter	25.4 mm / 1"	25.4 mm / 1"	25.4 mm / 1"
Max. Length	900 m (Ø 98 mm)	600 m (Ø 82 mm)	450 m (Ø 75 mm)
<b>CONNECTION VALUES</b>			
Pneumatic Connection	min. 6 bar dry and free from oil	min. 6 bar dry and free from oil	min. 6 bar dry and free from oil
Nominal Voltage	110 V – 230 V / 50 – 60 Hz	110 V – 230 V / 50 – 60 Hz	110 V – 230 V / 50 – 60 Hz
Nominal Current	230 V / 1.5 A – 110 V / 3 A	230 V / 1.5 A – 110 V / 3 A	230 V / 1.5 A – 110 V / 3 A
Fuse Values	230 V / 2 AT – 110 V / 4 AT	230 V / 2 AT – 110 V / 4 AT	230 V / 2 AT – 110 V / 4 AT
<b>OPERATING CONDITIONS</b>			
Temperature	5 – 40 °C	5 – 40 °C	5 – 40 °C
Max. Relative Humidity	80 % (non condensing)	80 % (non condensing)	80 % (non condensing)

Technical data subject to change

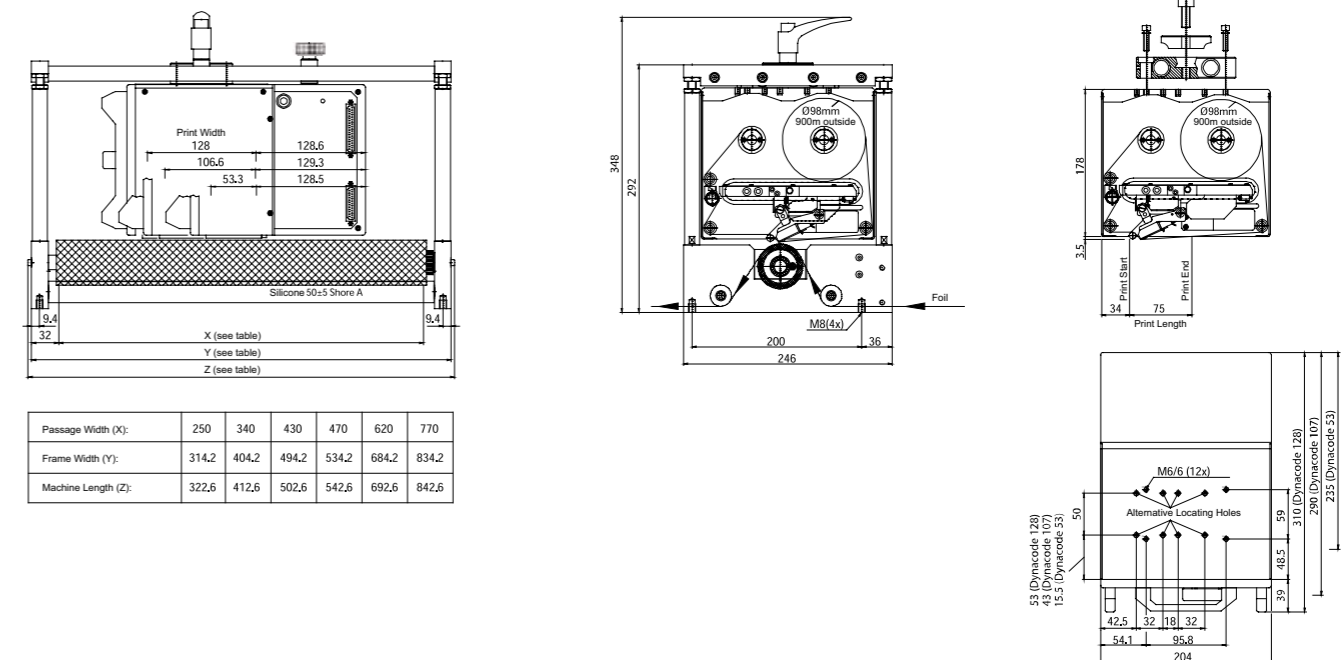
\* optional

# » PRINT MECHANICS VERSIONS

## » Dynacode print mechanics right hand version, intermittent mode



## » Dynacode print mechanics right hand version, continuous mode



## » Dynacode control unit

