



Stainless Steel Printing System

• M-BOSS System

Features and Benefits

M-BOSS stainless steel (SS316) markers are used to identify cables and pipes in all areas where severe environmental, mechanical or chemical conditions occur; e.g. offshore / petrochemical industry, shipbuilding, railways, and mining.

The 4mm high characters are marked with a computer driven stainless steel embossing machine with supplied software.

A range of 4 marker sizes is now available; 10 characters with 60 mm tags, 15 characters with 80 mm tags, 20 characters with 100 mm tags. Also available is a double line option to create a maximum of 40 characters with a wider 100 mm tag. Each of these sizes have 2 available marker designs. A bridge version that is applied to pipes with HellermannTyton metal cable ties up to 8 mm wide, and a rivet version which is used to mark flat surfaces. Each pack comes with 200 blank markers.

The M-BOSS Printer is easy to install and run, and is both quiet and clean. The electrically driven system can operate from an ordinary office power source; there is no need for an air supply. The printer is able to work on off-shore platforms using a 60Hz power source. As the markers are embossed, there is no metal waste or metallic dust.

The supplied M-BOSS Cassette of 10 markers is palm sized. The cassette is used for marker production and can then be taken by installers to their place of work. The marked strips can be "fanned out" from the magazine so enabling the installer to quickly identify which marker is needed. The standard Printer has a 42 piece character set:

Letters: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Numbers: 0 1 2 3 4 5 6 7 8 9

Symbols: & - / . , ' ,



The M-BOSS System.

Patent Nos:
GB2470507 and GB2425646

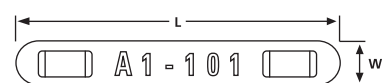
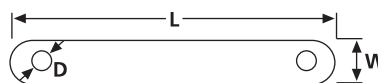
Material Data M-Boss Machine

Power Supply	Electrical
Cycle Time	15 sec. for 20 character tag
Weight (Kg)	78 kg
L x H x W	700 x 420 x 830 mm



Material Data M-Boss Marker

Material	Stainless Steel Type SS316 (SS316)
Operating Temperature	-80 °C to +538 °C



Technical Table

Article-No.	Type	Pack Cont.	Strap Width max. (G)	Ø D	Number of characters	Width (W)	Length (L)
540-10000	MBOSS PRINTER	1	-	-	-	830	700
540-10008	MBC 10X60	20 cassettes, 200 blank markers	8	-	10	10	60
540-10009	MBC 10X80	20 cassettes, 200 blank markers	8	-	15	10	80
540-10001	MBC 10X100	20 cassettes, 200 blank markers	8	-	20	10	100
540-10010	MBC 14X100	20 cassettes, 200 blank markers	8	-	40	14	100
540-10040	MBCR 10X60	20 cassettes, 200 blank markers	8	3.5	10	10	60
540-10041	MBCR 10X80	20 cassettes, 200 blank markers	8	3.5	15	10	80
540-10042	MBCR 10X100	20 cassettes, 200 blank markers	8	3.5	20	10	100
540-10043	MBCR 14X100	20 cassettes, 200 blank markers	8	3.5	40	14	100

All dimensions in mm. Subject to technical changes.



Stainless Steel Printing System

• M-BOSS Print Service

Features and Benefits

Low to medium volume custom printed stainless steel markers can now be ordered directly from HellermannTyton.

HellermannTyton's PrintShop facility is the ideal solution for producing crisp and clear embossed texts without the need to purchase an M-BOSS printer. Single line text and double line text printed markers are available.

Single line text - there are 3 options;

- 10 characters on a 60 mm printed tag (10X60)
- 15 characters on a 80 mm printed tag (10X80)
- 20 characters on a 100 mm printed tag (10X100)

Double line text - there is 1 option;

- 40 characters (2 x 20 characters) on a 100 mm tag (14X100)

The markers can then be easily fanned out so that the installer can remove the required marker and install.

HellermannTyton offers the innovative M-BOSS stainless steel markers individually printed as part of a printing service. The main prerequisite is the transfer of the requested data via our M-BOSS-Online system which can be accessed via www.HellermannTyton.de/m-boss.

Here you can send your request including your the necessary data online in a quick and secure way.

The following characters are available:

Letters: A B C D E F G H I J K L M N O P Q

R S T U V W X Y Z

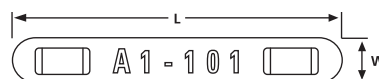
Numbers: 0 1 2 3 4 5 6 7 8 9

Symbols: & - / . ,



M-BOSS markers remain visible in areas of dirt, grease and paint.

Material Data	
Material	Stainless Steel Type SS316 (SS316)
Colour	Metal (ML)
Chem. Material Properties	Corrosion resistant, weather resistant, antimagnetic. Outstanding chemical resistance to aggressive chemicals, e.g.: industrial vapours, seawater, salt spray in on- and offshore areas, inorganic and hydrochloric acid and halogen salts.
Operating Temperature	-80 °C to +538 °C



Technical Table

Article-No.	Type	Fixing Method Identification	Strap Width max. (G)	Number of characters	Width (W)	Length (L)
540-10048	MBCE-DE10X60	Metal tie MLT, MAT, MBT	8	10	10.00	60
540-10049	MBCE-DE10X80	Metal tie MLT, MAT, MBT	8	15	10.00	80
540-10003	MBCE-DE10X100	Metal te MLT, MAT, MBT	8	20	10	100
540-10050	MBCE-DE14X100	Metal tie MLT, MAT, MBT	8	40	14.00	100

All dimensions in mm. Subject to technical changes.



Stainless Steel Printing System

• **M-BOSS Lite Markers**

Features and Benefits

- M-BOSS Lite is the ideal stainless steel marker plate embossing printer for low to medium volume users. Printing speed is very quick;
- MBML10X45 printed with 8 characters in under 10 seconds
 - MBML20X90 printed with 69 characters in less than a minute

The printer is small enough to install in most premises as it is desktop in size, uses a standard electrical supply and only weighs 35kg. The supplied software is quick to load and easy to use.

The marine grade stainless steel marker plates are designed to survive in harsh and hazardous environments where wind, wave and salt spray conditions are an important factor. M-BOSS Lite is used for identifying pipes and cables in Offshore Platforms, Refineries, Floating Production Storage – Offloading (FPSO), as well as Rail Infrastructure, Utilities, Food, and Solar Farms.

HellermannTyton provides a range of premium quality cable ties to fix the embossed marker plates. Simply use 4.6mm width MBT cable ties and a MK9SST hand tool to securely fix the marker plate to the cable.

The printer is delivered with the following 42 piece 4mm character set:
 Letters: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 Numbers: 0 1 2 3 4 5 6 7 8 9
 Symbols: & - / . , ' "



Space-saving and easy to use: M-BOSS Lite stainless steel embossing system.

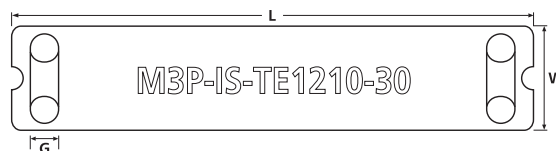


Material Data M-Boss Machine	
Power Supply	230 Volt/50 Hz
Cycle Time	Just over 1 second per character
Weight (Kg)	35 kg
L x H x W	650 x 500 x 260 mm



Identification for hazardous environments: M-BOSS Lite stainless steel markers.

Material Data M-Boss Marker	
Material	Stainless Steel Type SS316 (SS316)
Operating Temperature	-80 °C to +538 °C



Technical Table

Article-No.	Type	Pack Cont.	Strap Width max. (G)	Number of characters	Width (W)	Length (L)
540-20000	M-BOSS Lite	1	4.6	–	260	650
540-20005	MBML10X45	1000	4.6	8	10	45
540-20004	MBML10X90	500	4.6	23	10	90
540-20002	MBML20X45	1000	4.6	24	20	45
540-20001	MBML20X90	500	4.6	69	20	90

All dimensions in mm. Subject to technical changes.



Stainless Steel Marking System, manual

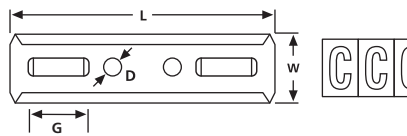
• Hellermark SSM

Features and Benefits

Hellermark stainless steel pre-embossed marker tiles are designed for use in harsh and hazardous conditions. Hellermark is manufactured from grade 316 stainless steel which makes it ideal for use in aggressive environments. Hellermark marker tiles (SSM) are inserted into the appropriate carrier (SSC) to make the required text and the ends closed with pliers. The carriers are then fastened using MBT or MAT stainless steel cable ties with a maximum strap width of 8mm. Alternatively, the carrier can be riveted or screw-fixed using the two 3-mm holes at each end of the carrier.



Hellermark SSM.



Technical Table

Article-No.	Type	Width (W)	Length (L)	Marker tiles per carrier	Pack Cont.
540-01046	SSC46	11.00	46	5	10
540-01056	SSC56	11.00	56	7	10
540-01082	SSC82	11.00	82	11	10
540-01106	SSC106	11.00	106	15	10
540-01134	SSC134	11.00	134	20	10
540-01286	SSC286	11.00	286	45	10
540-02010	SSCP	10	7	2	100

All dimensions in mm. Subject to technical changes.

Technical Table

Article-No.	Marking Text	Type	Pack Cont.
540-01600	0	SSM	200
540-01610	1	SSM	200
540-01620	2	SSM	200
540-01630	3	SSM	200
540-01640	4	SSM	200
540-01650	5	SSM	200
540-01660	6	SSM	200
540-01670	7	SSM	200
540-01680	8	SSM	200
540-01690	9	SSM	200
540-01700	+	SSM	200
540-01730	⊥	SSM	200
540-01701	.	SSM	200
540-01702	,	SSM	200
540-01703	-	SSM	200
540-01720*	/	SSM	200

* These symbols can also be used when rotated by 180°.

Technical Table

Article-No.	Marking Text	Type	Pack Cont.
540-01010	A	SSM	200
540-01020	B	SSM	200
540-01030	C	SSM	200
540-01040	D	SSM	200
540-01050	E	SSM	200
540-01060	F	SSM	200
540-01070	G	SSM	200
540-01080	H	SSM	200
540-01090	I	SSM	200
540-01100	J	SSM	200
540-01110	K	SSM	200
540-01120	L	SSM	200
540-01130	M	SSM	200
540-01140	N	SSM	200
540-01150	O	SSM	200
540-01160	P	SSM	200
540-01170	Q	SSM	200
540-01180	R	SSM	200
540-01190	S	SSM	200
540-01200	T	SSM	200
540-01210	U	SSM	200
540-01220	V	SSM	200
540-01230	W	SSM	200
540-01240	X	SSM	200
540-01250	Y	SSM	200
540-01260	Z	SSM	200



Protective Laminates, thermal transfer

- **Helatag 1207 (White-Clear)**
- **Helatag 321 (White-Clear)**
chemical resistant

Features and Benefits

This range of transparent adhesive labels is used to over laminate a printed label to give protection against aggressive chemical, high temperature or ultraviolet light. Material 321 has exceptional UV resistance and will survive 10 years in a central European climate.



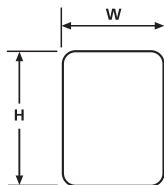
Helatag protective laminates.



Thermal Transfer Printer



Material Data	
Material	Type 1207, Polyester (PET), transparent (CL)
Operating Temperature	-40 °C to +150 °C, intermittent +200 °C
Curing Temperature	from 0 °C
Recommended Ribbon Type	TT822OUT, TT940DOUT, TTDTHOUT
Adhesive	Acrylic
Thickness of Foil (µm)	60
Chem. Material Properties	excellent resistance against alcohol, petrol, solvents, butanol, ethyl- and butylcellosolve solvents, battery acid



Material Data	
Material	Type 321, Polyvinylfluoride Tedlar®, transparent (CL)
Operating Temperature	-40 °C to +107°C
Curing Temperature	From +10 °C
Recommended Ribbon Type	TT822OUT, TT940DOUT, TTDTHOUT
Adhesive	Acrylic
Thickness of Foil (µm)	25
Chem. Material Properties	excellent resistance against alcohol, solvents on petroleum bases, ester and ketone. Special resistance against UV radiation



Technical Table

Article-No.	Type	Colour	Width (W)	Height (H)	Width of Liner (WL)	Labels per Row	Pack Cont.
Thermal Transfer - Protecting Laminating , Material 1207							
596-32512	TAG1325TL3-1207-CL	Transparent (CL)	30.48	17.78	101.60	3	5000
596-63812	TAG0638TL2-1207-CL	Transparent (CL)	43.18	11.43	94.90	2	5000
596-35112	TAG1351TL1-1207-CL	Transparent (CL)	55.88	17.78	62.00	1	2000
596-55112	TAG2551TL1-1207-CL	Transparent (CL)	55.88	30.48	62.00	1	2000
596-38631	TAG3863TL1-1207-CL	Transparent (CL)	68.58	43.18	75.00	1	1000

All dimensions in mm. Subject to technical changes.

Technical Table

Article-No.	Type	Colour	Width (W)	Height (H)	Width of Liner (WL)	Labels per Row	Pack Cont.
Thermal Transfer - Protecting Laminating , Material 321							
596-25321	TAG1325TL3-321-CL	Transparent (CL)	30.48	17.78	101.60	3	5000
596-38321	TAG0638TL2-321-CL	Transparent (CL)	43.18	11.43	94.90	2	5000
596-51321	TAG1351TL1-321-CL	Transparent (CL)	55.88	17.78	62.00	1	2000
596-52321	TAG2551TL1-321-CL	Transparent (CL)	55.88	30.48	62.00	1	1000
596-63321	TAG3863TL1-321-CL	Transparent (CL)	68.58	43.18	75.00	1	1000

All dimensions in mm. Subject to technical changes.