



Product Information

Special Advantages

- compact design
- quick set-up
- high application speed
- little ground clearance required



DENSOMAT[®] 11

Motor driven wrapping machine for site wrapping of DENSOLEN-Tape Systems on welding seams and complete pipe sections.

Description

DENSOMAT 11 is a new product development in the series of DENSOMAT wrapping machines for the on-site application of DENSOLEN tape systems. The DENSOMAT 11 has been designed for variable and fast application of corrosion prevention tapes on pipes and is especially useful for pipelines. The new DENSOMAT 11 machine may be left on the pipeline when it is transferred from one joint to the next and does not have to be constantly mounted and removed – a complication that has so far made the use of motor-driven wrapping machines for construction-site wrapping almost

impossible. The DENSOMAT 11 can be moved from one site to the next and set up very rapidly.

When moving the DENSOMAT 11 the wrapping ring can, if necessary, be opened at the bottom to push the machine along the pipeline with minimum force. The tape is wrapped around the pipe with constant tension and perfect overlap which guarantees consistent quality of wrapping at high speed. The frequency of changing the DENSOLEN tape rolls depends on roll length, which varies with tape thickness and pipe diameter.

Special characteristics of DENSOMAT 11

- easy to move on the pipeline
- wrapping of welded joints and complete pipe lengths in one operation
- simultaneous application of inner- and outerwrap
- can be used for one-tape and two-tape systems
- automatic tension control ensures constant and reproducible wrapping tension and overlap

Handling

Before the machine is used for the first time, a DENSO engineer must instruct the user.

Whenever the machine is used, the ground clearance (at least 50 cm) of the pipe has to be checked to ensure that the DENSOMAT 11 can move freely around the pipe.

Before starting the DENSOMAT 11 the machine has to be checked for perfect function and condition. Special attention is to be paid to the **emergency shut-down** switch.

The DENSOLEN-Tapes are pushed on the roll carrier spindles. The tape interleaving, if any, is fixed to the inter-leaving take-up reel.

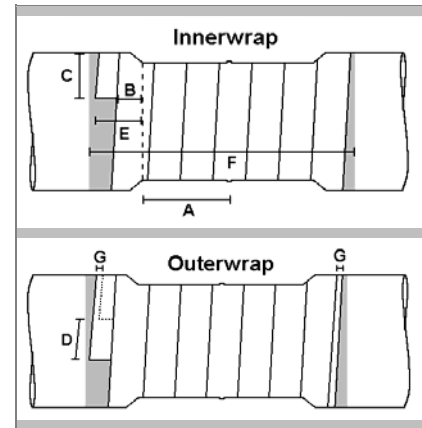
For further details about the wrapping process and DENSOMAT 11 please notice the operating instructions manual supplied with the machine.

DENSOMAT 11 has to be protected against weathering.

Quantities Required

Wrapping parameter

A	Cutback	150 mm
B	Min. overlap on factory coating	50 mm
C	Additional quantities required due to start and end of wrapping in 10- and 2-o'clock position	pipe circumference x $\frac{1}{6}$
D	Lengthwise coverage of innerwrap	100 mm
E	Starting position of wrapping on factory coating	100 mm
F	Min. application width of primer	600 mm
G	Innerwrap and outerwrap longitudinally staggered by	app. 10 mm
	Overlap innerwrap	min. 50%
	Overlap Outerwrap	min. 50%
	Number of wrapping cycles (innerwrap / outerwrap)	8 / 8



Quantities required per welded joint

Pipe diameter		Tape width	Primer	Innerwrap		Outerwrap		Wrapping System	
DN	D _a			2 layers		2 layers		4 layers	
	[mm]	[mm]	[l]	[m]	[m ²]	[m]	[m ²]	[m]	[m ²]
500	508,0	100	0,19	13,30	1,33	13,54	1,35	26,84	2,68
600	609,6	100	0,23	15,96	1,60	16,20	1,62	32,16	3,22
700	711,2	100	0,27	18,62	1,86	18,86	1,89	37,48	3,75
750	765,0	100	0,29	20,03	2,00	20,27	2,03	40,30	4,03
800	812,8	100	0,31	21,28	2,13	21,52	2,15	42,80	4,28
900	914,4	100	0,34	23,94	2,39	24,18	2,42	48,12	4,81
1000	1016,0	100	0,38	26,60	2,66	26,84	2,68	53,44	5,34
1200	1220,0	100	0,46	31,94	3,19	32,18	3,22	64,12	6,41
1400	1420,0	100	0,54	37,17	3,72	37,42	3,74	74,59	7,46
1600	1620,0	100	0,61	42,41	4,24	42,65	4,27	85,06	8,51
1800	1820,0	100	0,69	47,65	4,76	47,89	4,79	95,53	9,55
2000	2020,0	100	0,76	52,88	5,29	53,12	5,31	106,00	10,60

The given quantities required refer to a tape overlap of exactly 50%. Due to additional overlaps an additional quantity of up to 12% may be required in practice. Innerwrap and outerwrap are longitudinally staggered by app. 10 mm, therefore up to 10 mm of innerwrap are not covered by the outerwrap on one side of the joint coating. If complete coverage of innerwrap is required, an additional wrapping cycle is necessary for the outerwrap.

DENSO GmbH

P.O.Box 150120 • 51344 Leverkusen • Germany
 tel: +49-(0)214-2602-0 • fax: +49-(0)214-2602-318
 www.denso.de • info@denso.de

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