



280/4 2÷8MM . ROPE LAYERS TECHNOLOGY



Via C. Colombo 18 - 41013 Castelfranco E. (MO) Italy
tel +39 059 7116791 - fax +39 059 7116799
www.sima-ds.com - salesdept@sima-ds.com



SIMA s.r.l.
a company of the group
dietze + schell



This rope layer represents an important novelty among SIMA rope layers as this machine is suitable to produce small diameters, from 2 to 8 mm, with the maximum economical convenience.

SIMA rope Layer Mod 280/4 is made up of a feeding section, running with 3 or 4 strands and of a take-up section, which is SIMA well known twister winder Mod. GS2016-E.

The system conceived in this way leaves complete freedom to the customer concerning its use, because they can decide either to use the machine complete as a rope layer or use only the take-up section as a twister.

Rope Layer Mod 280/4 runs on the principle of the 2 twists in the feeding section (B) and 2 twists in the take-up section (A); mechanically speaking the cinematism introduced in the machine have been considerably simplified, lowering the noise level.

The main features of the machine are:

Set up of 280/4 through the control panel of GS2016-E;

Electronic change of pre-twist ratio

Device to detect the strand breakage

Immediate change of rotation direction S or Z

Special take-up version for bobbins or coils

A) TWISTER WINDER MOD. GS2016-E

Take-up on spool to from 6"x6" to max. 16"x16".

A.C. driving motors + inverter (11 kW)

Mandrels

- multiple use for the production of spools with tube
- expansion type with link rods for spools without tube
- Set of toothed pulleys + belts, for twists change
- Pneumatic control of cover
- Pneumatic opening of cover
- Main A.C. motor with speed change by means of operator panel
- Set of toothed wheels for winding pitch change
- Operator panel with meter-counter for automatic stopping of the twister at achievement of preselected length of the spool
- Inside lightening
- Maintenance accessories
- Electrical yarn-braking device complete with additional braking with 5 pulleys
- Draw compensator
- Separated electric-electronic control board, incorporated inside the base

B) PRE-TWISTING UNIT MOD. E 280

The E 280/4 is made of a feeding section, running with 3 or 4 strands.

- Set-up of E 280/4 through the control panel of GS2016-E
- Electronic change of the pre-twist ratio
- Device to detect the strand breakage
- Immediate change of the rotation direction S or Z
- Feeding up to 12 bobbins of 12"x12"



TECHNICAL DATA OF PART A			TECHNICAL DATA OF PART B			PRODUCTION DATA SHEET			
Description	Unit	Data	Description	Unit	Data	Rope Ø (mm)	Take-up length (mt)	Twists min	Kg in 8 working hours
N° of take-up spools		1	Max rotation speed	RPM	2800	2 mm	11000	4000	24,6
Size of take-up spools	mm (max)	406 h x dia 406	Twists/minute		5600	3 mm	5600	4000	82,9
	Inches (max)	16" x dia 16"	Pre twists range factor		0.8 - 4	4 mm	3450	3600	176,9
Standard length of take-up spools	Rpm	8", 10", 12", 14", 16"	Twists direction		S or Z	5 mm	2300	3000	288,1
Speed of take-up flyer	RPM (max)	2500	N° of spools in feeding section		3 x 4	6 mm	1650	2600	419,2
N° of twists per minute (max)	Twist/min	5000	Spool in feeding section (inches)		Ø 12"x12"	7 mm	1200	2200	591,1
Min and max twists per m	Twist / m (Depending on deniers)	10 ÷ 81	Installed power	kW	11	8 mm	900	2000	798,6
Direction of twist		S - Z							
Max spool content (PP)	Kg	25,4							
Max consumption of free air for cycle	Lt	24,12							

