



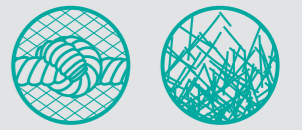
GS2016-E TWO-FOR-ONE . TWISTERS TECHNOLOGY



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The GS2016-E is the last generation of SIMA twister winders, designed under the two-for-one-twist principle for the production of twisted yarns and twines using natural and/or synthetic fibers in the range of 10,000 - 300,000 deniers. The externally strong mono-block frame is well balanced and operates vibration free. The covers assure low noise level, due to their high noise-proof efficiency and in accordance with the most rigid standards.

All moving parts have been studied for optimal ease of operation allowing the GS2016-E to operate at 2.500 rpm, with a standard production capacity of 5000 twists per minute. Thanks to new specially treated materials, the friction coefficient has been reduced to a minimum, allowing a constant specific tenacity of the yarn during the twisting process.

This machine is suitable for making multi-threaded twisted yarns from 10000 up to 300000 deniers from synthetic and natural fibers, starting from yarn spools or bobbin and with take-up on spool from min. 8"x8" to max. 16"x16", equipped with main A.C. driving motors, with mandrel - multiple type for the production of spools with tube - expansion type with link rods for spools without tube. Screw boxes are available from 8" to 16" traverse.

The machine can be combined with AC2000 accumulator to work in line directly from extrusion line for monofilaments, cable filler and twine production.

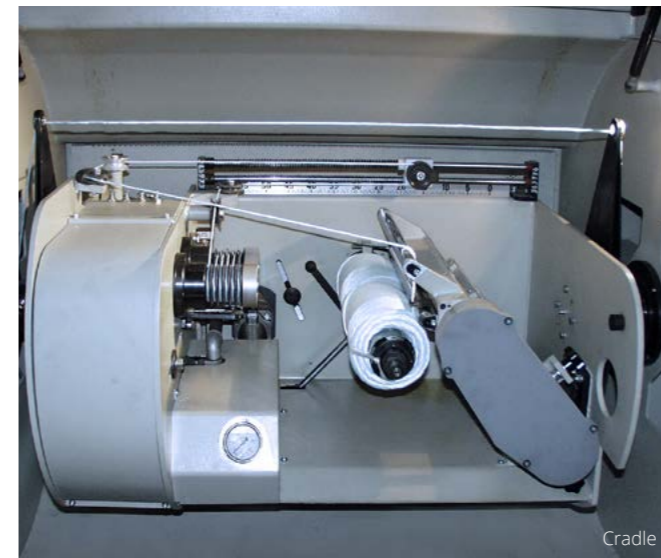
The GS2016-E can be used as take-up unit of rope layer Mod 280/4.

The main features of the machine are:

- Main A.C. motor with speed change by means of digital control panel
- Motor with increased performances according to IEC 34-2 regulation, which enables to save energy, increasing the life of motor and bearings, with a lower noise;
- Digital control panel with meter-counter for automatic stopping of the twister at achievement of preselected length of the spool.
- Pneumatic opening of cover.
- Inside lightening.
- Electrical yarn braking device complete with additional braking with 5 pulleys.
- Draw compensator
- Electric-electronic control board, incorporated inside the base
- Sensor for the speed feedback, which allow to carry out a proportional/ integrative control in order to increase the precision, compared to the set set-point. Moreover, it allows to further increase the machine safety by means of an interblock of the protection;
- Modular PLC with Eprom extractable memory;
- Alarm signal on the digital display, so to carry out a diagnosis of the status of the machine, as for example the intervention of the protections;
- Possibility to connect to the PLC, using the serial communication, a supervision unity of higher level, for example a computer with proper communication card, to acquire the production/diagnosis data.



Electrical yarn braking device



Cradle

TECHNICAL DATA

Description	Unit	Data
Denier range (Basic Version)	Denier	10.000 to 300.000
Rotation speed (Basic Version)	Rpm	2500
Twists (Basic Version)	Twist/ min	5000
Twist range with electrical system	Twist/m (Depending on deniers)	10-81
Twist direction		S or Z
Spool dimension standard	inches inches	min 8 dia x 8 h max 16 dia x 16 h
Spool weight (PP yarns)	kg	25,4
Energy consumption MAX	kW/h	9

