

Electronic laying unit ELU 300

With processor controlled MCU V5

The electronic laying unit is a high-precision, processor-controlled linear drive for laying wires and fibers on spools.

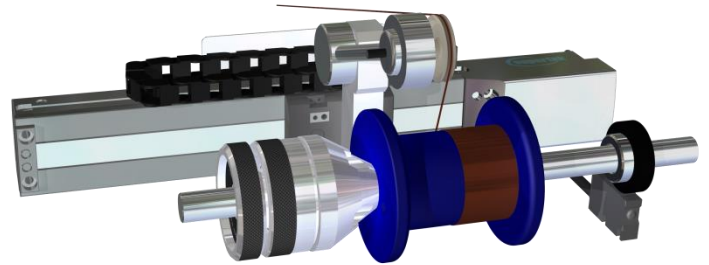
Thanks to intelligent electronics, the laying unit can be controlled absolutely synchronously with the winding speed without any deviation.

The electronic linear drive with the associated electronics, the MCU, contains the necessary functions for:

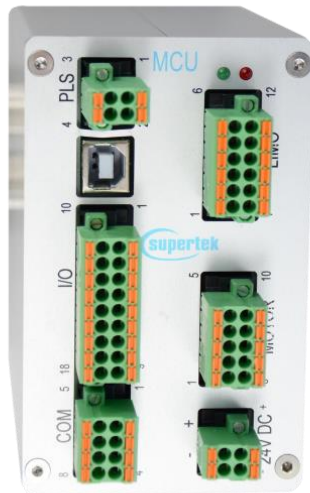
- Laying synchronization
- Laying steps
- Switching point optimization
- Accurate winding
- Automatic flange detection
- Precise length measurement
- Cruise control
- Tension controller, dancer position controller
- Speed control
- Wire sequence control

The parameterization of the individual functions can be done serially via USB or RS485.

A comfortable setting is possible with the software SUMMI *easy* or SUMMI *pro* or with the operating unit CMC.



Application example



Electronic laying unit ELU 300

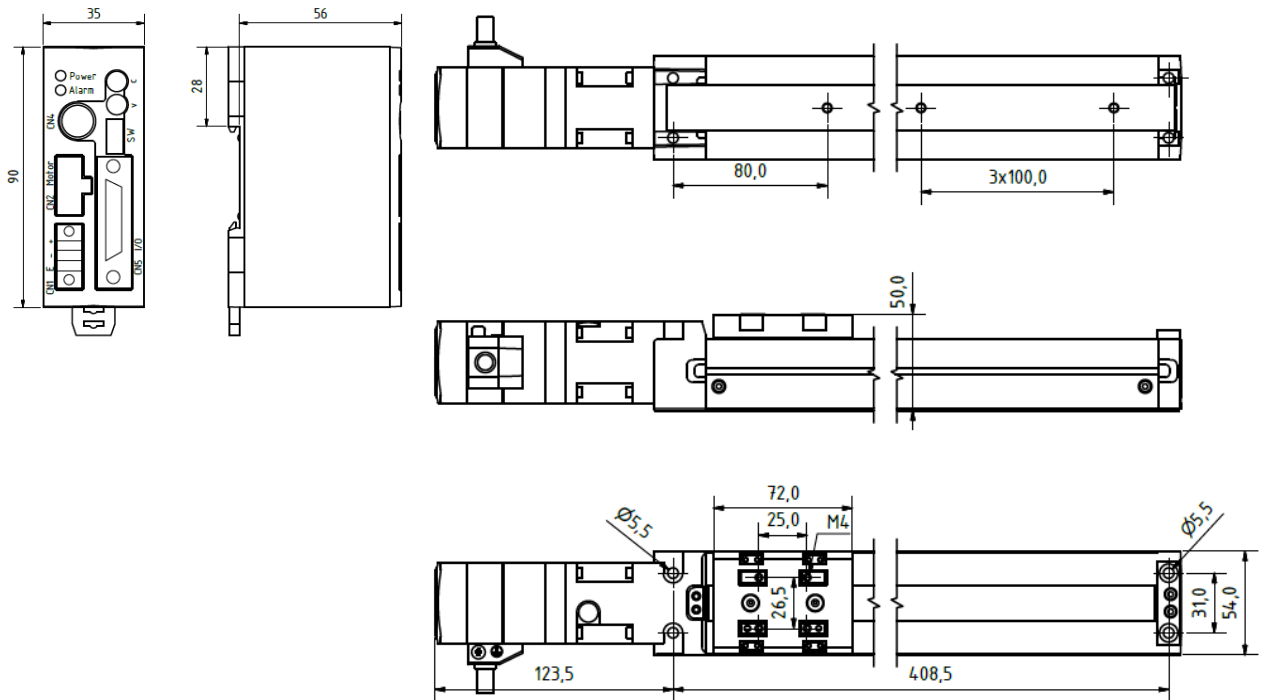
Rated voltage	24V DC
Current, max.	4A
Traversing width ELU 300	300mm
Other linear drives optional available	
Step width	from 1 µm
Layer pitch	0,01mm to 10mm
Traversing speed	max. 150 mm/s
Load	max. 60kg
Weight	ca. 4kg
Operating temperature	10 – 40°C
External dimensions	See page 2
Electronics	MCU
Pulleys, pulsing device	optional

Processor controlled MCU V5

Rated voltage	24V DC
Current, max.	0,3A
Mountage	Hat rail 35mm
Dimensions: w, h, d	64, 105, 113mm
Dancer position control integrated	Yes, PI-Controller
Line speed measurement	Yes, HTL (PLS)
Control of the linear drive	Yes, pulse/direction
Control of the winder-drive	Yes, pulse/direction
RPM measuring of the winder-drive	Yes, HTL
Potential-free output	Yes
Analog inputs (0-10V)	3
Analog outputs (0-10V)	2
Digital inputs (0V/24V)	3
Open Collector outputs	3
Serial control	Yes, RS485, USB
Parameterization, setting, operation:	
Software SUMMI <i>easy</i>	Yes
Software SUMMI <i>pro</i>	Yes
Operator and control unit CMC	Yes

Description	Item-no.:
Set consisting of linear drive ELU 300 and MCU V5	ELU300MCUV501
Arm, pulley, pulsing device	On request
Software SUMMI <i>easy</i>	SUMMIEASY
Software SUMMI <i>pro</i>	SUMMIPRO
Compact operator and control unit CMC	CMC01

Dimensions, connection diagram linear drive ELU 300



Connection diagram, processor controlled MCU V5

