

## Actuator; electric motor driven

### Special features:

- Complete actuator with maintenance-free drive
- Plug-type connection
- Various combinations of stroke, positioning force and positioning speed are possible

# EMS 21



### Application:

The actuator EMS 21 is used in combination with the BST control units **ekrPro Com<sup>60</sup>** together with a mechanical guiding device anywhere where correction of the position of running webs, e.g. paper, plastic materials, rubber, textiles, etc., is necessary.

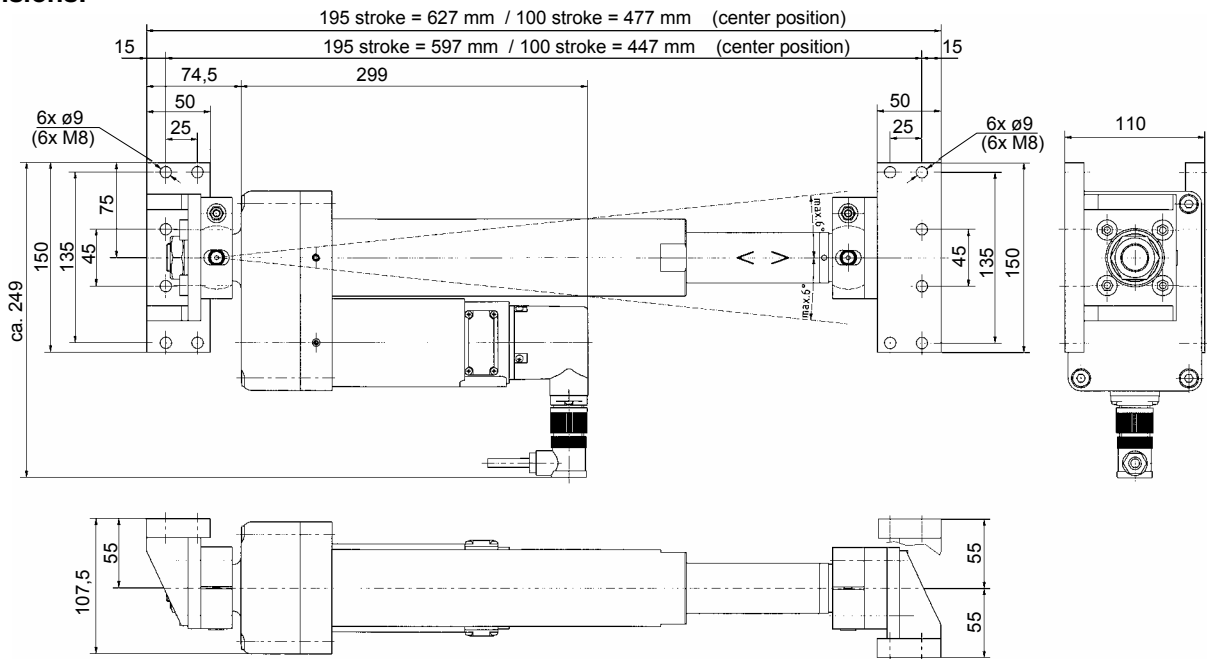
The complete connection-ready design, enables fast and inexpensive installation in appropriate systems, and is especially suitable for upgrading or replacement in existing systems.

### Included parts:

#### Actuator EMS 21

comprising:

- electric motor
- integral absolute position detection
- housing block with bearing and gearbox
- ball screw with push pipe
- final position damping
- mounting brackets

**Dimensions:**

**Technical specifications:**
1. mechanical

Gearbox ratio i:	<b>5:1</b>	<b>2.5:1</b>
Nominal positioning force:	1680 N	840 N
Nominal positioning speed:	10 mm/s	20 mm/s
Available stroke:	100 / 195 mm	100 / 195 mm
Weight:	100 mm stroke approx. 15 kg; 195 mm stroke approx. 17 kg	
eCl@ss	27-02-90-90	

2. electrical

Nominal voltage:	24 V DC	
Nominal speed:	650 rpm	
Nominal current:	1.9 A	
Nominal power:	30 W	
Connection resistance:	3.3 Ω	
Electrical connection:	only via BST connecting cable	
Return guidance:	Power supply:	+12 V (± 5 %); maximum 25 mA
		-12 V (± 5 %); maximum 25 mA
Position feedback:	± 9 V; maximum 2 mA	
Storage temperature:	- 10°C to + 60°C	
Ambient conditions:	Temperature:	0°C to + 40°C
	Humidity:	5 % – 90 %; no condensation
Noise emission:	< 70 dB	
Protection class:	IP54	

**Order data**

Model	EMS 21 200/5/20-5/C	EMS 21 100/5/20-5/C	EMS 21 200/2,5/20-5/C	EMS 21 100/2,5/20-5/C
Nominal positioning force:	1680 N	1680 N	840 N	840 N
Nominal positioning speed:	10 mm/s	10 mm/s	20 mm/s	20 mm/s
Available stroke:	195 mm	100 mm	195 mm	100 mm
BST part number:	<b>124981</b>	<b>124982</b>	<b>124983</b>	<b>124984</b>