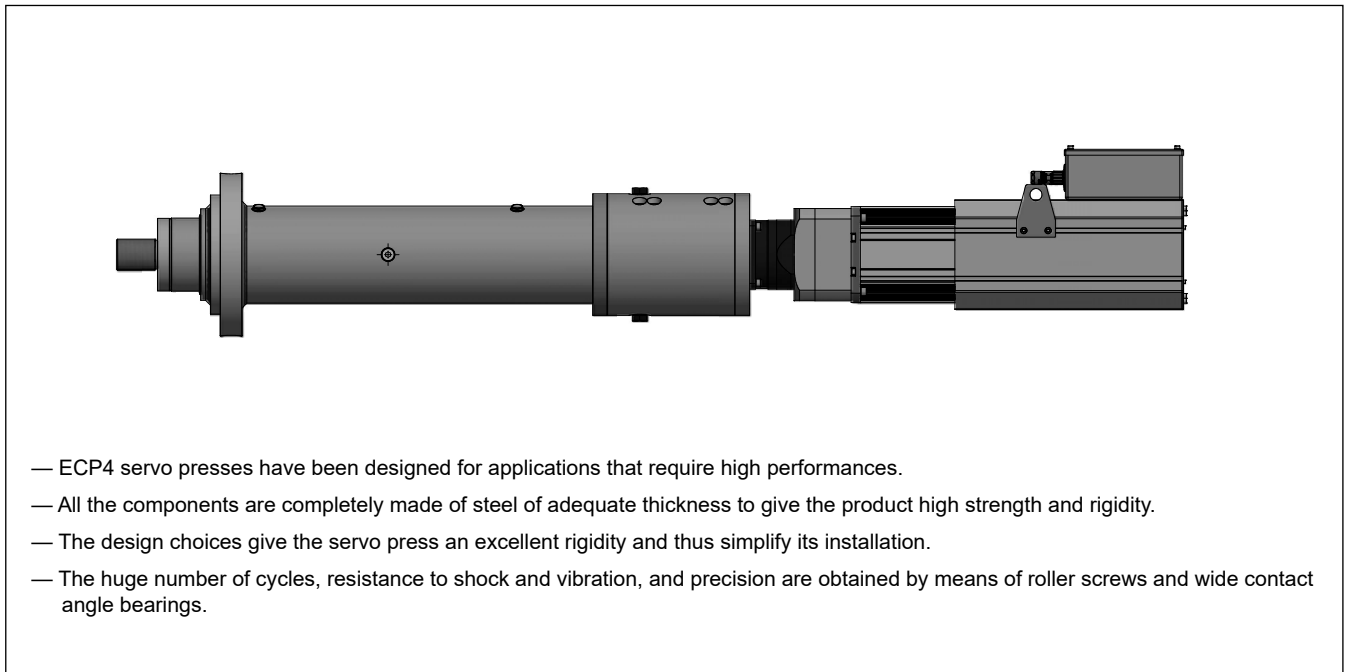


ECP4

ELECTRIC SERVO PRESSES

SERIES 10

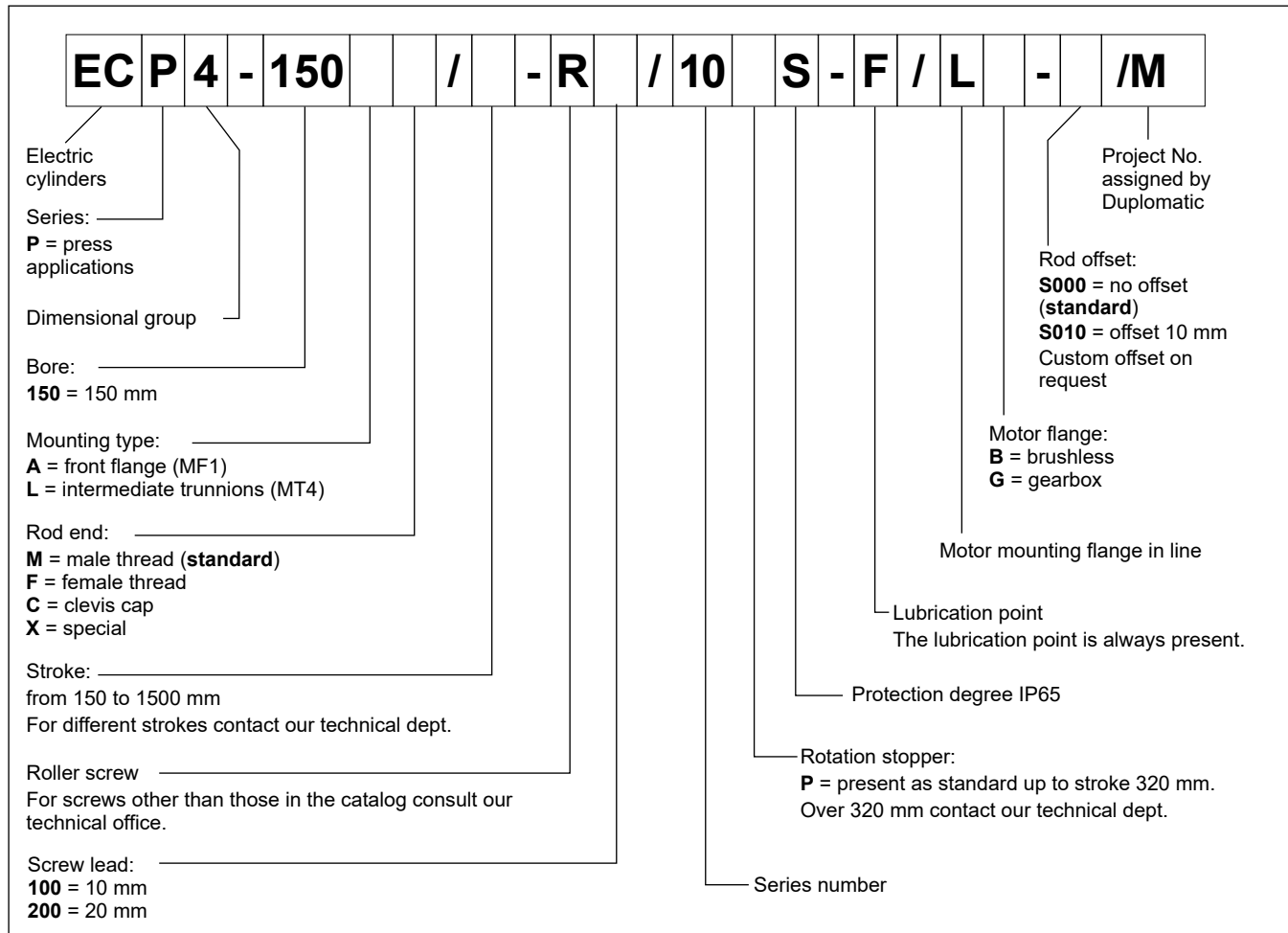
DESCRIPTION



PERFORMANCES

Size		150	
Roller screw		60x10	60x20
Maximum axial force	N	217 000	
Maximum speed	mm/s	417	833
Maximum acceleration	m/s ²	19.1	38.2
Standard stroke up to	mm	1 500	
Maximum average axial force for 2500 km life	N	51 114	75 000
Ambient temperature range	°C	-20 / +100	
Max air humidity allowed for IP65 (without condensation)	%	90	
Protection degree		IP65	

1 - IDENTIFICATION CODE



2 - COMMON TECHNICAL CHARACTERISTICS

ACCURACY		mm	± 0.035
ENVIRONMENT	Ambient temperature range	°C	-20 / +100 (NOTE)
	Protection class		IP65
	Humidity	%	0 ÷ 90
MECHANICAL	Duty cycle	%	100
	Internal rotation stopper		available up to stroke 320 mm
	Rod-end		male or female
	Rod material		chromium-plated
	Mounting		on front cap or with trunnions
	End stroke sensor		available in all sizes

NOTE: The indicated temperature range refers to the cylinder only, without motor.

3 - FIELD OF APPLICATION

ECP4 electric cylinders are the right solution for pressing, clinching and forming applications. They have been designed to bear high duty cycles even with high loads. They are suitable for all those applications that require movement precision even under load.

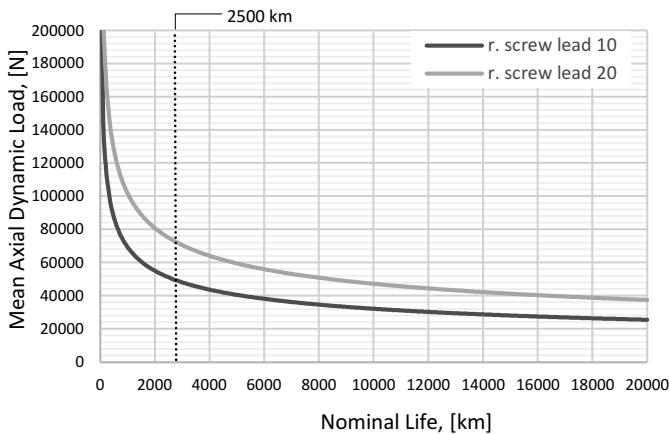
4 - TECHNICAL CHARACTERISTICS

Mechanical	Rod diameter	mm	150	
	Rod end		M64x3	
Ball screw	Nominal diameter	mm	60	
	Lead	mm	10	20
	Dynamic load	N	322 000	375 000
Force	Max force - thrust	N	217 920	217 920
	Max torque - thrust	Nm	429	818
	Max force - traction	N	145 280	145 280
	Max torque - traction	Nm	318	603
	Force at 2500 km (*)	N	51 114	75 000
Speed	Maximum speed	rpm	2 500	2 500
		mm/s	417	833
Acceleration	Max acceleration	m/s ²	19.1	38.2

(*) Dynamic axial force at 2500 km lifetime

4.1 - Service Life

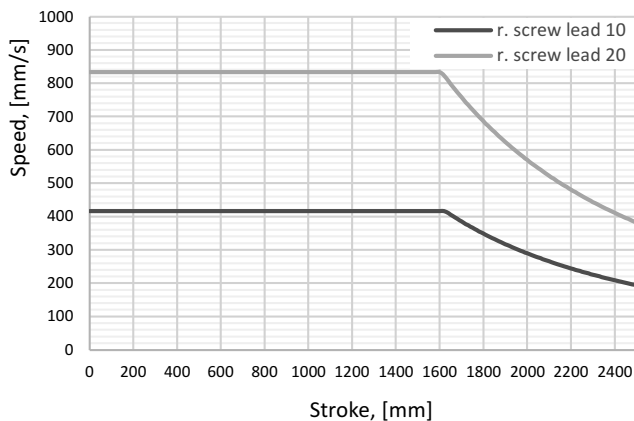
The service life depends on average dynamic axial load.



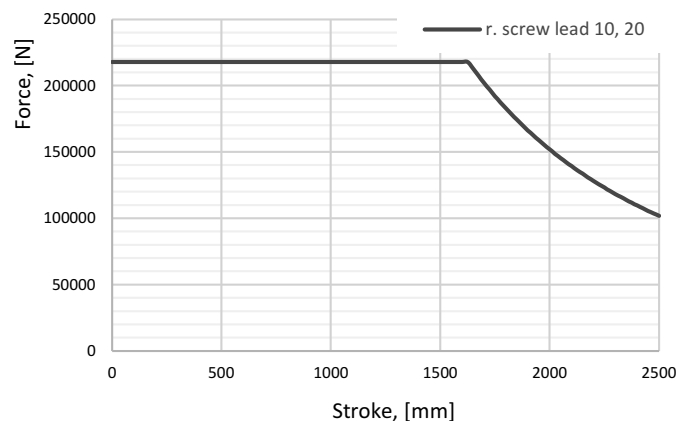
NOTES

- Service life is a statistical value and refers to 90% reliability.
- Correct working conditions: i.e. no lateral-load, no over-load, right lubrication, no over-temperature, no short-stroke application.
- The permissible axial force is calculated considering a pushing condition with free rod end and fixed barrel constraint. Contact us for different loading applications and for further information.

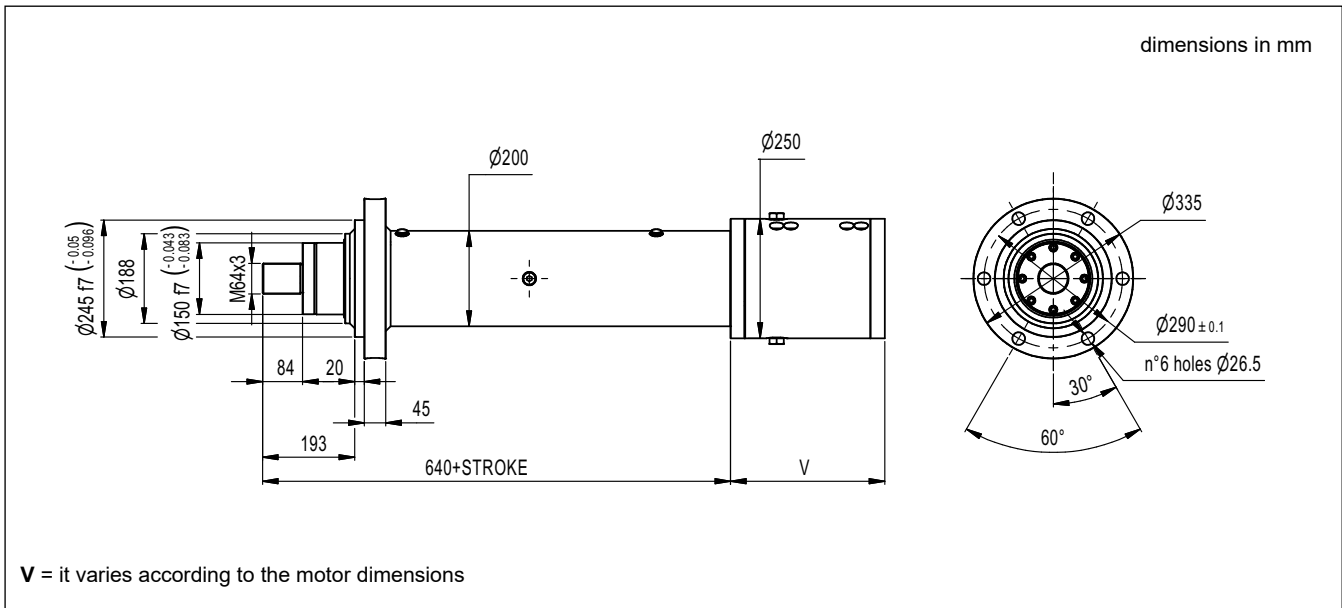
4.2 - Permissible speed



4.3 - Permissible axial force



4.4 - Overall mounting dimensions



DIPLOMATIC

MOTION SOLUTIONS

DIPLOMATIC MS Spa - BU Mechatronics

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