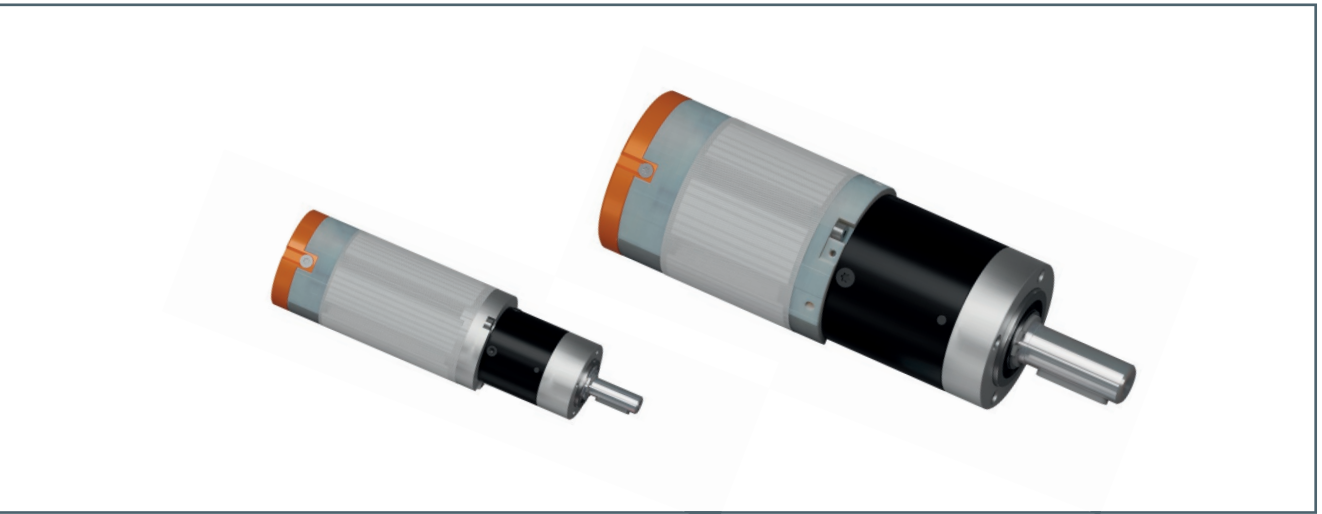


BLDC motors with planetary stage

for various motion control applications

INFO DATA SHEET



Our BLDC motors are designed so that they can be seamlessly combined with planetary gearboxes from various manufacturers. This unique flexibility enables us to offer customized solutions for individual customer requirements - be it high torques or specific speeds.

With our innovative technology, we guarantee:

- Customized solutions for your specific requirements
- Compact design thanks to high power density of the motors
- Cost optimization through reduced stages for planetary gearboxes
- Maximum flexibility in integration thanks to suitable market components

Please do not hesitate to contact us for further information.

Combinatorics BLDC motors (DC)

	t-Rex 3200-I-44-47		t-Rex 3200-I-44-89		t-Rex 3206-I-65-51	t-Rex 3206-I-65-86	
Size	44		44		65	65	
Length	47		89		51	86	
Winded with focus	max. torque	max. speed	max. torque	max. speed	max. speed	max. torque	max. speed
Rated voltage (VDC)	24 - 48		24 - 48		24 - 48	24 - 48	
Rated power (W)	41 - 74		31 - 61		90 - 155	68 - 140	
Rated speed (rpm)	2000 - 4664		600 - 1390		1785 - 3895	507 - 1123	
Rated torque (Nm)	0.2 - 0.15		0.5 - 0.4		0.5 - 0.4	1.3 - 1.9	
Stall torque (Nm)	1 - 1.5		1.8 - 2.9		2.5	6.7 - 9	
Item.-Nr.	3200.00-3000		3200.00-3002		3206.00-1000	3206.00-0003 3206.00-0005	

Planetary gear Economy Class	IMS.35/ IMS.42 Pro MAX LN*	#	IMS.35/ IMS.42 Pro MAX LN	IMS.35/ IMS.42 Pro MAX LN*	IMS .53/ IMS.62 Pro MAX LN*	IMS.53/ IMS.60 Pro MAX LN	IMS.53/ IMS.60 Pro MAX LN
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 η= 80% - 70% i= 4:1 bis 603:1 max. Gearbox backlash < 1°	Reduction range: Efficiency η: Recommended input speed: Permissible output torque T _{Ab} : Backlash:	from i=4 to i=601 (3-stage) 80 % - 70 % 3,000 rpm IMS.35 ProMAX 3 - 15 Nm 0.9°DEG to 1°DEG	IMS.45 ProMAX 4 - 25 Nm 0.7°DEG to 0.8°DEG	IMS.53 ProMAX 8 - 50 Nm 0.7°DEG to 0.8°DEG	IMS.60 ProMAX 14 - 84 Nm 0.6°DEG to 0.7°DEG
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* Only a speed-reduced application possible (n < 3000 rpm)

Planetary gear High Precision	PLE040	PLE040	PLE040	PLE040	PLE040 PLE060	PLE040 PLE060	PLE040 PLE060
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 η= 98% - 92% i= 3:1 bis 512:1 max. Gearbox backlash < 0,4°	Reduction range: Efficiency η: Recommended input speed: Permissible output torque T _{Ab} : Backlash:	from i=3 to i=512 (3-stage) 98 % - 92 % 5,000 rpm or 4,500 rpm PLE 40 24 - 32 Nm 0.25°DEG to 0.37°DEG	PLE 60 64 - 70 Nm 0.17°DEG to 0.25°DEG
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Possible applications:

- **Sliding doors:** Ideal for residential and commercial premises, they allow smooth and quiet access
- **Security doors:** Increase protection with automated opening and closing mechanisms
- **Shutters:** Perfect for window and patio systems



- Low noise level
- High performance
- Space-saving design
- Maintenance-free