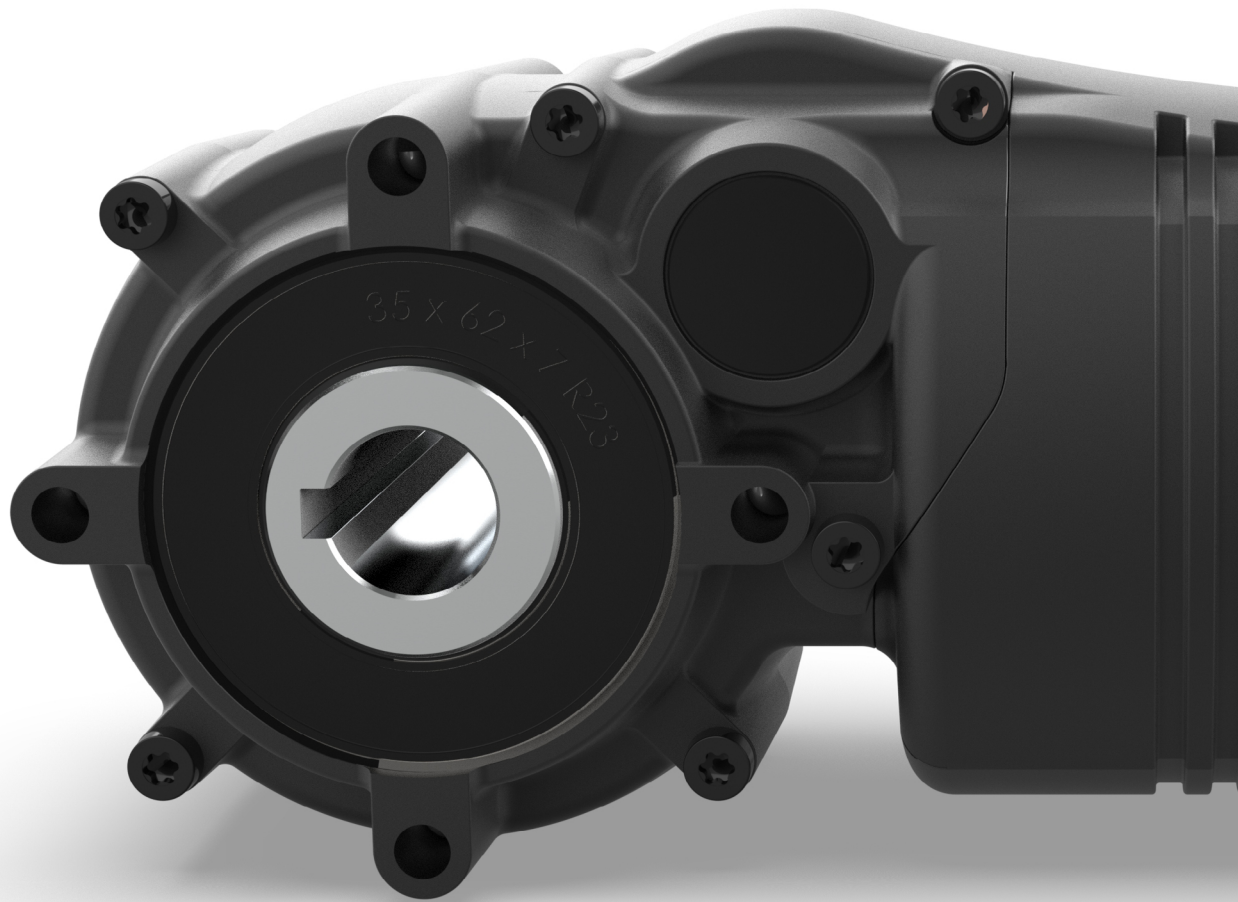


Compact drive



Coming soon...

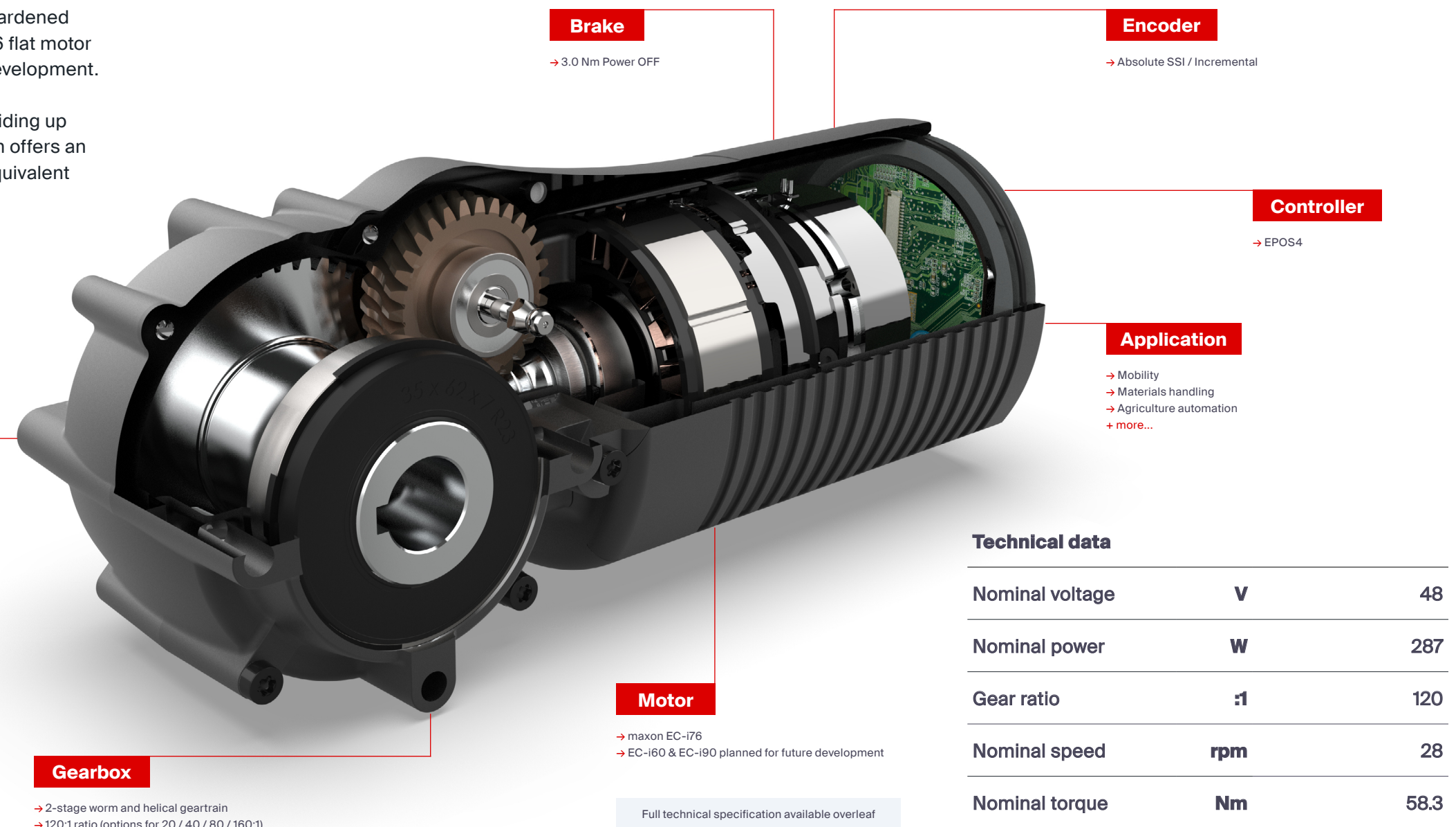
We know how to move



when space is limited

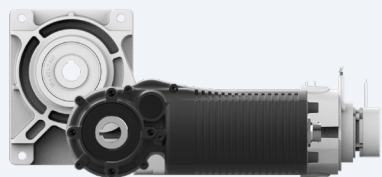
The **compact drive range** from Parvalux combines a hardened 2-stage worm and helical geartrain with a maxon EC-i76 flat motor - with EC-i60 and EC-i90 versions planned for future development.

Equipped with integrated electronics and currently providing up to 60 Nm of nominal torque, this complete drive solution offers an average size reduction of 50% when compared to its equivalent PMDC geared motor solution.



Compact design

→ 50% size reduction compared to equivalent PMDC solution



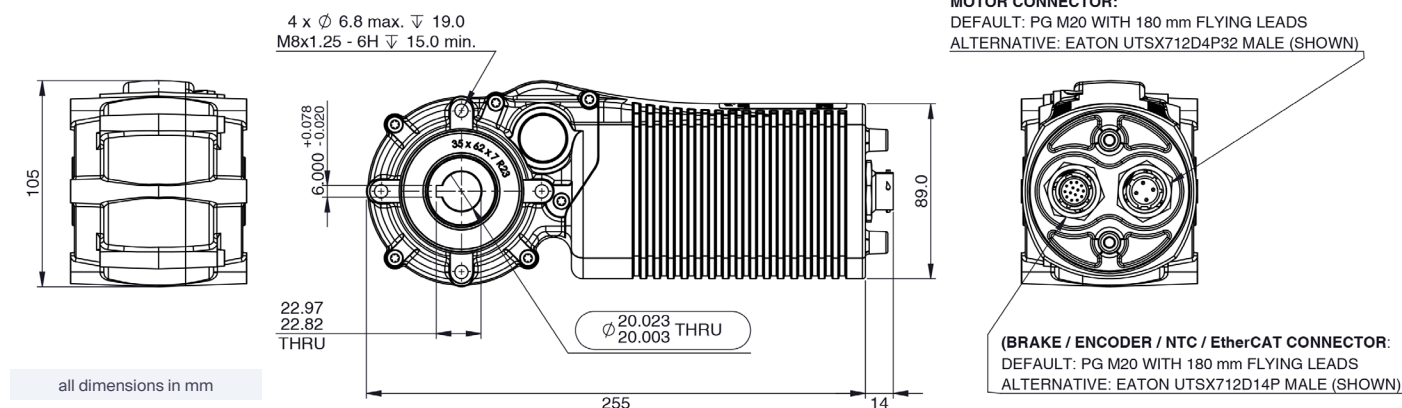
Compact Drive

BLDC right-angle drive system

48 V // 287 W // 21-169 rpm // 58.3 Nm

parvalux

by **maxon**



Combination performance data					
Voltage	V	48	48	48	48
Power	W	287	287	287	287
Gear ratio	:1	20	40	80	120
Output speed	rpm	169	84	42	28
Nominal torque	Nm	13.1	25.0	45.4	58.3

Combination details					
Weight	Kg	4.5	IP rating		IP67
Operating temperature	°C	-40 ... +60	Noise level (at 1 m)	dBA	<50

Motor details					
Motor		maxon EC-i76	Technology		Brushless (BLDC)
Supply voltage	VDC	48	Output power	W	287
No load speed	rpm	3690	Nominal speed	rpm	3375
Nominal torque	Nm	0.811	Stall torque	Nm	7.8
Nominal current	A	9.6	Stall current	A	55.0
Max. efficiency	%	88	Rotor inertia	gcm ²	461
Insulation class		F	Rating		Cont.

Gearbox details					
Technology		Worm-helical	Orientation		Right-angle
Gear ratio	:1	20 - 160	Gear material		Steel / bronze
Nominal torque	Nm	120	Peak torque	Nm	300
Efficiency	%	60 - 81			

Brake details			Encoder details		
Supply voltage	VDC	24	Supply voltage	VDC	2.8 - 35.0
Torque	Nm	3.00	Resolution	CPR	2048
Technology		Electro-mag	Technology		Magnetic
Type		Dynamic	Type		Incremental
Switching		Power-OFF	Channels		2

Controller details			Synapticon details		
Type		EPOS4	Type		Circulo 7
Supply voltage	VDC	10 - 60	Supply voltage	VDC	24 - 48
Speed / position / I control		Yes	Brake		Dynamic
			Encoder		19-bit absolute

The tables above display calculated data only and is subject to change - please contact your local sales engineer for the most up-to-date data