



BENEFITS

- ✓ **PLUG & PLAY**
Autonomous, decentralized electro-hydraulic solutions
- ✓ **POWER DENSE SOLUTION**
Aluminum cylinders for unbeatable strength to weight ratio
- ✓ **CONTROLLABLE VELOCITY**
Precise and fast independent of the load
- ✓ **COMBINING TECHNOLOGIES**
The best advantages of electromechanical and hydraulic technologies
- ✓ **SAFETY FEATURE**
Manual override for emergency operation

For over many years, Duraced has engineered a robust and innovative line of hydraulic position and motion control products that have become the gold standard in excellence for tilting, latching, levelling, lifting and stabilizing systems used in today's most demanding markets. Duraced serves customers throughout the world, including OEM and Tier 1s in diverse end-markets. We offer innovative, high quality, easy-to-use and safe solutions.

The Electric Drive Unit (EDU) is an electro-hydraulic actuator that delivers high power density in a compact design. Its self-contained design eliminates the need for hydraulic tubes and only requires an electric power to operate.



Technical specifications

POWER PERFORMANCE

DYNAMIC FORCE	Up to 14.4 kN push Up to 1.7 kN pull
MAXIMUM LOAD	23 kN limited by pressure relief valve
SPEED	Continuous variable up to 90 mm/s
HOLD FUNCTION	Hydraulic hold valve 0.12 mm/min

PUMP

MOTOR	Brushless DC with sensors
POWER SUPPLY	18 to 37 Vdc Max. 50 A
PUMP TYPE	Gearpump
START/STOP	Soft start / stop by electronic motor control

MANUAL OVERRIDE

ACTIVATION	Remote by bowden cable
SPEED	Constant, controlled by flow control valve

ENVIRONMENT

IP CLASS	IP56, IP69
TEMPERATURE RANGE	-25 to +70 °C Operating -40 to +70 °C Storage
EMC	To be validated in end application
VIBRATION	IEC 60068-2-34 Fd
SHOCK	IEC 60068-2-27 Ea
SOUND PERFORMANCE	< 65 dB(A) @ 1 m distance
OPERATING LIFE TIME	65k cycles
SERVICE	Maintenance free

ENCLOSURE

MECHANICAL INSTALLATION	Threaded / Bolt connection (Customer specific on request)
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SIZE & WEIGHT

CYLINDER	Piston diameter 32 mm Plunger diameter 22 mm
STROKE	up to 500 mm
DIMENSIONS	125 x 80 x 250 (typical, customer specific)
WEIGHT	< 6 kg

Up to 17.7 kN push Up to 8 kN pull
23 kN limited by pressure relief valve
Continuous variable up to 20 mm/s (@24V)
Hydraulic hold valve 0.12 mm/min

Brushed DC
24 Vdc Max. 20 A
Radial piston
PWM

Opening a spindle with Hexagon 6
Constant, controlled by flow control valve

IP69K for pump and cylinder, IP69 for motor
-25 to +70 °C Operating -40 to +70 °C Storage
To be validated in end application
DIN IEC 68, Part 2-6
IEC 60068-2-27 Ea
65dB
>10k cycles
Maintenance free

Threaded / Bolt connection (Customer specific on request)

Piston diameter 32 mm Plunger diameter 22 mm
300 mm
See installation drawing
~ 8 kg

1	2	3	4	5
Connection Rod side	Motor / Body / Base	Retracted Length 'L'	Cylinder Stroke	Manual Release
A External M12	24VDC 24V DC	350	200	Y – Yes
B Eye Ø22mm	BLDC 12-36V BLDC	370	230	N – None
C Eye Ø24mm		410	250	
		450	300	
		500	350	

