

## Parker Compact EHA

Electro-Hydraulic Actuators

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



# Parker Hannifin's Oildyne Division Introduces the Parker Compact EHA (Electro-Hydraulic Actuator).

The Parker Compact EHA brings power density to the forefront, allowing for control of heavy loads while requiring only a small footprint for mounting. The EHA integrates all the traditional components - a DC-voltage driven electric motor, reversing gear or gerotor pump, relief and check valves and reservoir - with a double-acting hydraulic cylinder in a cast aluminum, monoblock housing. This significantly reduces the potential leak points, simplifies vendor management and delivers a significant reduction in components needed for hydraulically controlled movement.

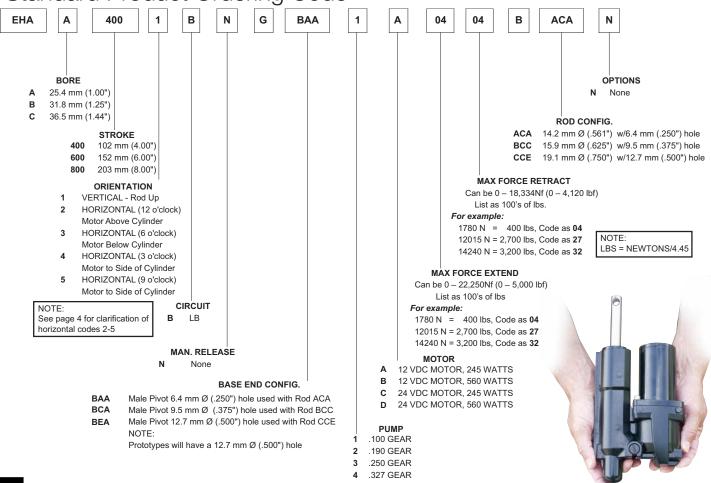
With three bore sizes available

and strokes up to 203 mm (8"), the Parker Compact EHA produces forces up to 22kN (5,000 lbs) and speeds up to 130 mm/sec (5.1"/ sec). A fully flushed, filled and tested Compact EHA will enable customers to quickly install the system in their applications and get system machinery running in significantly less time than before. The IP67 rated EHA is suitable for punishing environments, including those where salt, dust or corrosive fertilizers may be the ambient conditions. Decoupling the hydraulic pump from an engine-driven system reduces the parasitic drag on the engine providing for more efficient operation. The unit also easily

facilitates manual release and low noise signature options for indoor operation.

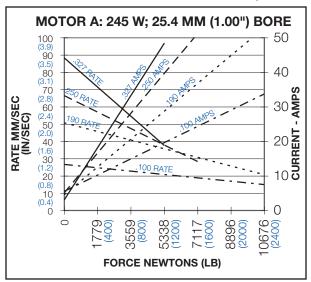
Applications for the Parker Compact EHA are numerous, including hatch operators, door openers, utility vehicle tilt beds, jack plates, tilt/trims, mower deck lifts, hospital stretchers, ATV attachments, etc. Additional capabilities available from Parker Partner Divisions further enhance the flexibility and functionality to deliver turn key systems. Almost anywhere a stroke up to 203 mm (8") is required for linear movement, EHA is a prime candidate.

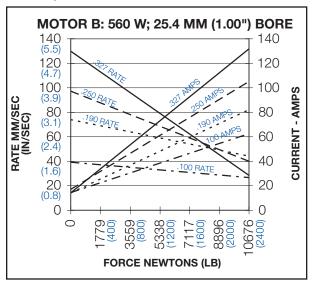
#### Standard Product Ordering Code

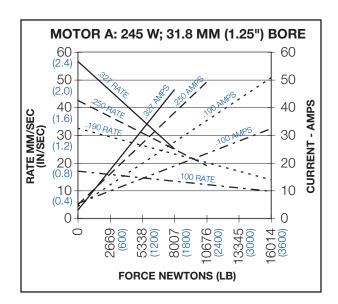


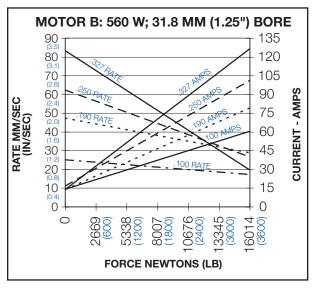


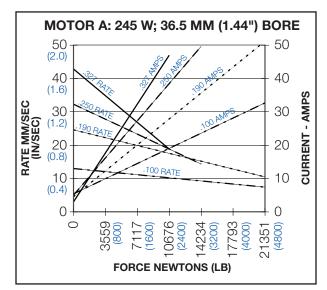
#### EHA Performance Data (@12 +/- .1 vdc)

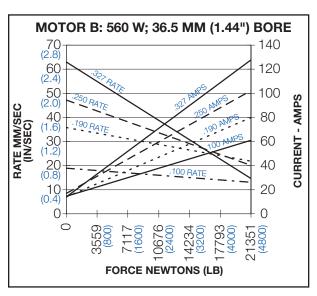










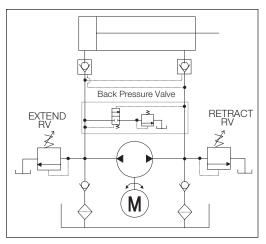




Current draw at 24 vdc is about 1/2 of amps shown.

Note: Performance data is based on *rod extend*, not retract, and is for reference only.

#### **EHA Circuits**



EHA - LB CIRCUIT

#### **Additional Information**

Basic 8" stroke EHA (less motor) = 3.2 kg (7.1 lb)

Motors A, C = 1.4 kg (3.0 lb)

Motors B, D = 1.9 kg (4.1 lb)

Motor leads (all) = 1524 mm (60")

Motor leads A, C = 14 ga

Motor leads B, D = 12 ga

Lead ends are ring terminals: 6.6 mm (.26") I.D.

Standard fluid: Automatic Transmission Fluid (ATF)

Testing:

Salt Spray Test for 96 hours per ASTM B117

Sealed to IP67

MIL-STD-810F - Minimum Integrity Test (Vibration)

### Orientation Callouts for Horizontal Mounting (looking at EHA from Rod End)

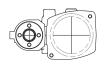
Horizontal - Code 2 Motor Above Cylinder (12 o'clock)



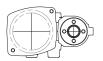
Horizontal - Code 3 Motor Below Cylinder (6 o'clock)

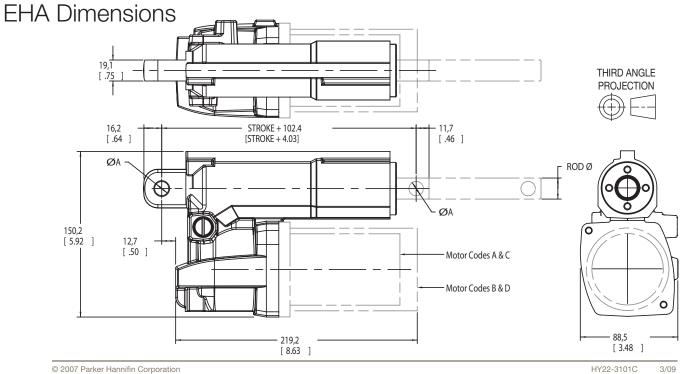


Horizontal - Code 4 Motor to Side of Cylinder (3 o'clock)



Horizontal - Code 5 Motor to Side of Cylinder (9 o'clock)





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