

# SMART ALL IN ONE DRIVES FOR ELECTRIC COMMERCIAL VEHICLES



## eServo READY 2 USE STEERING-PUMPS AND ELECTROHYDRAULICS FOR MOBILE APPLICATION

- variable speed permanent magnet motor
- integrated inverter
- compact design & low weight
- low noise & pulsation due to special external gear pump design
- high power density & efficiency
- liquid cooled (water/glycol or oil)
- maximum pressure over wide speed range
- low maintenance
- usable in on-/off-road applications & freely placeable within the vehicle

# MAXIMUM POWER IN SMALLEST DIMENSIONS



MOTEG steering- and electrohydraulic pumps have been developed specifically for use in mobile applications. They offer the best solutions between power, size, weight, noise, efficiency and costs. In combination with the MOTEG MMA 80 Series electric motors and the new MOTEG HV inverter, both especially designed for mobile applications, they are the optimum solution to be used as either steering-pump or „electro Mechanical Power Take Off (eMPTO)“ for the electrification of commercial vehicles.

- All in One Plug & Play: HV inverter / HV motor / hydraulic pump / control software
- Integrated inverter ⇒no DC/DC converter, no AC motor cable, no separate electronic necessary
- Battery supply voltage (DC nominal): 300 V - 800 V
- High Voltage Interlock (HVIL)
- CAN 2.0B/J1939 communication with UDS (optional)
- Cybersecurity & functional safety ready
- Very high motor-/pump dynamics & least possible energy consumption
- Patented sensorless ON-demand control software (optional)
  - ⇒low operating costs
- IP 67 protection class
- Customizable cooling connectors

Type	Displacement [ccm]	Motor Power [kW]	Inverter Voltage [V <sub>DC</sub> ]	Rated-/Max. Speed [min <sup>-1</sup> ]	Flow Rate** [l/min]	Pressure Rated/Max. [bar]	Noise Level @150 bar [dB(A)]	Dimensions (l x w x h) [mm]	Weight [kg]
eServo CX*-AX1-U	07	5,2	325-400 560-800	3000	18,5	138/180	58	278 x 204 x 288	16
	08				22,8	110/143		281 x 204 x 288	16
	10				28,8	87/114		285 x 204 x 288	16
eServo CX*-BX1-U	07	7,9	325-400 560-800	3000	18,5	205/275***	55	277 x 204 x 288	19
	08				22,8	167/275***		281 x 204 x 288	19
	10				28,8	132/219		285 x 204 x 288	19
	11				31,6	120/200		287 x 204 x 288	19
	13				35,9	106/176		290 x 204 x 288	19
	15				43,3	88/146		294 x 204 x 288	19
eServo CX*-CX1-U	10	10	325-400 560-800	3000	28,8	173/240***	58	312 x 204 x 288	24
	11				31,6	157/240***		314 x 204 x 288	24
	13				35,9	138/215		317x 204 x 288	24
	15				43,3	115/180		322 x 204 x 288	24

\* X = Displacement

\*\* @ rated speed @ rated pressure