

# SMARTTEC<sup>®</sup>

*Work Function System*



*FORWARD MOTION THROUGH FORWARD THINKING<sup>®</sup>*



**SMARTTEC<sup>®</sup>**  
*by* **HYDRO-GEAR**

# SMARTTEC®

## Work Function System

Total electric system solution

Advanced safety features

Torque limiting to protect system

Integrated self diagnostics

Regenerative braking

No brushes for extended motor life

Voltage compensation limits speed droop

Zero maintenance

No belts or pulleys

Environmentally friendly

Convenient

Speed control

Computer controlled system

Current limiting protection

### SPECIFICATIONS

<b>Work Function System</b>		
Controllers	quantity	1
Motors	quantity	2
<b>Motor Package Size</b>		
Height (Total)	in [mm]	6.33 [160.78]
Height (Above mount surface)	in [mm]	3.98 [101.09]
Diameter	in [mm]	6.92 [175.77]
Motor Shaft Diameter	in [mm]	1 [25.4]
<b>Controller Package Size</b>		
Height	in [mm]	3.745 [95.1]
Width	in [mm]	9.80 [248.9]
Length	in [mm]	8.41 [213.6]
<b>System Voltage</b>		
Nominal Battery Voltage	VDC	48
Maximum	VDC	55
Minimum	VDC	42
<b>Motor Speed</b>		rpm
		2800
<b>Output Torque</b>		
Peak	lb-ft [Nm]	4.16 [5.64]
Continuous	lb-ft [Nm]	3.1 [4.2]
<b>Motor Mount</b>		Four 5/16-24 tapped holes
90° Bolt Pattern Diameter	in [mm]	6.15 [156.21]
<b>Motor Shaft End</b>		Double "D" w/ 1/2-13 tapped hole
<b>Start/Stop Time</b>		sec
		2.5 - 3.5
<b>Weight of Motor</b>		lb [kg]
		13.7 [6.2]
<b>Weight of Controller</b>		lb [kg]
		9.5 [4.3]

Specifications subject to change without notice.



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