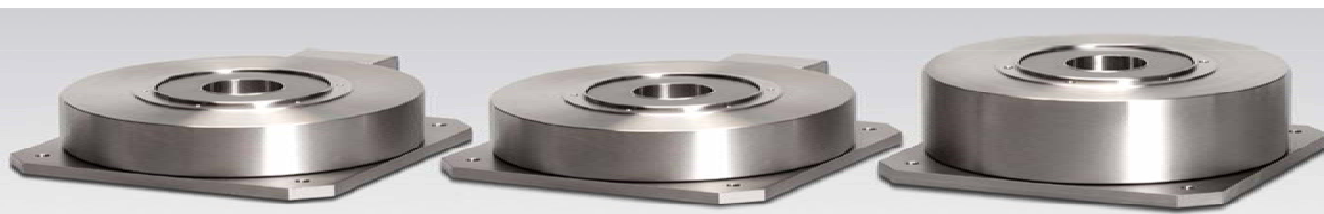


# DYNASERV

## Newly launched "-A6" Best offered price!

### DR5H00



Yokogawa launched a new lineup of the **DYNASERV DR5H00 "-A6"** with its basic mechanical specification 50  $\mu$  m of accuracy.

Try and catch the wind of our cutting-edge technology with its reasonable offered price.

— November 15 - December 15, 2010 —

— 150 sets limited —

- 50 sets – 10 Nm motor & driver
- 50 sets – 20 Nm motor & driver
- 50 sets – 40 Nm motor & driver

Contact our local representatives or headquarters.

**YOKOGAWA** 

**Motion Control Center, Yokogawa Electric Corporation**

[ddm-global@cs.jp.yokogawa.com](mailto:ddm-global@cs.jp.yokogawa.com)

TEL: +81-422-52-4474 (till November 19)

+81-42-770-6925 (from November 22)

LF 71M10A00-02EN

# Motion Dynamics

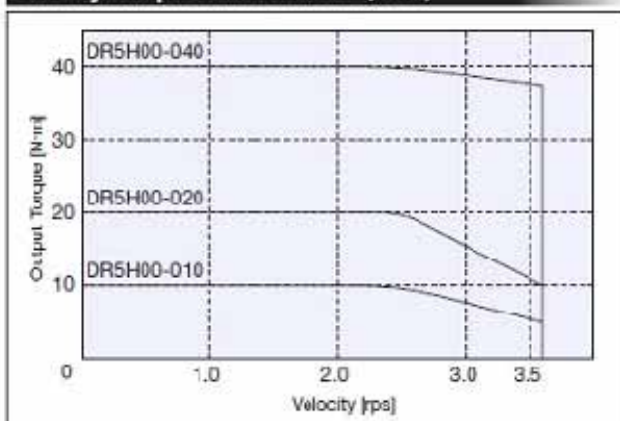
Direct Drive Motor

## Motor Specifications

DR5H00				-10	-20	-40	
Motor & Driver Unit	Maximum Peak Torque			N·m	13	20	40
	Maximum Constant Torque **			N·m	6	12	20
	Maximum Velocity			rps	3.5		
	Constant Velocity			rps	3		
	Rotational Precision	Encoder Resolution		p/rev	3,407,872		
		Absolute Accuracy		arc sec	±80		
		Repeatable Accuracy **		arc sec	±0.4		
	Number of Z-pulse			p/rev	52		
	Origin Sensor			-	Included		
	Rotational Inertia			kg·m <sup>2</sup>	2.2×10 <sup>-4</sup>		3.7×10 <sup>-4</sup>
Maximum Load	Max. Axial Load	Forward Direction	N	2000			
		Reverse Direction	N	1000			
	Momentum Load		N·m	100			
	Loading Inertia		kg·m <sup>2</sup>	2.2	3.7		
	Mechanical Accuracy			μm	50 (for -A6)		
Motor Weight			kg	10	13		
Driver Units			-	UR5HG3 300W		UR5HG3 2kW	
Environmental Condition	Temperature	-	0~40°C (for working)/ -20~80°C (for storage) (If not conform to CE Standard: 0~45°C (for working))				
	Humidity	-	20~85%RH Non Condensation				
	Atmosphere	-	No corrosive gas, dust and dirt must be present. Altitude must be less than 1000 meters above sea level.				

Remark: This data is based on the combination with UR5HG3 driver unit.  
\*: In the condition where metal base with adequate heat absorption characteristic.  
\*\*: The value was measured in the following setting using micro-meter. A metal arm with bending inertia of 0.04kg·m<sup>2</sup> was attached to a motor. The motor turned to stop at the same position seven times from the same direction.

## Velocity/Torque Characteristics (at 200V)



## Model Code and Specification

Motor Type	Model Code	Comments
DR5H00		Direct Drive Motor with built-in Magnetic Encoder
Maximum Output Torque	-010	Maximum Output Torque 10N·m Drive Current 6A
	-020	Maximum Output Torque 20N·m Drive Current 6A
	-040	Maximum Output Torque 40N·m Drive Current 20A
Basic Construction	F	With mounting base & connector box
Mechanical Accuracy	-A6	Axial & Radial Deflection to be less than 50μm
Additional Options	/CN	With a set of connectors
	/TC1	With (Standard) Quality Test Result
	/TC	With Absolute Accuracy Test Result

## Standard Accessory

- Origin Sensor Connector 1

## Related Products

- Intelligent Driver for DR5H00  
UR5HG3-UR5HP3



- Motor Cables  
C3M-C3M.I
- Encoder Cables  
C3E-C3EJ

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