

# DYNAMOMETER COMPONENT TEST SYSTEM WITH ADJUSTABLE MOTOR BASE

**75 HP 4000/8000 RPM AC Motor with ABB ACS600 DTC Drive System**

## Overview

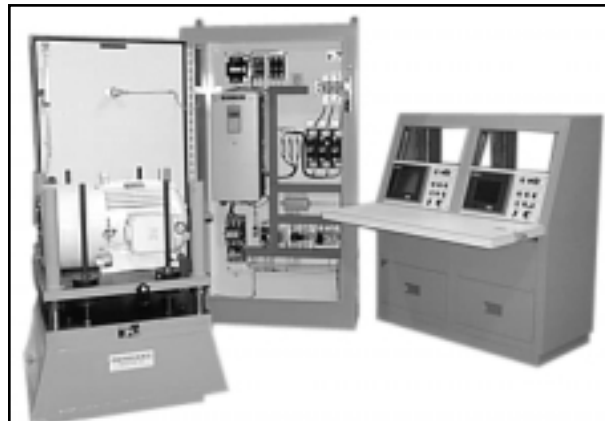
We can help you with your component testing applications with our precision speed controlled, 75 HP, 4000/8000 RPM, DTC (Direct Torque Control) drive system. The system includes a 75 HP TEBC (totally enclosed blower cooled) motor with a base speed of 4000 RPM and top speed of 8000 RPM. An encoder mounted inside the motor provides for 0.01% speed regulation. To control the motor, we use a state-of-the-art, digitally controlled ABB ACS600 DTC drive mounted in a NEMA 12 fan cooled, single door enclosure. An adjustable motor base enables you to set the vertical position of the motor shaft between 29 and 43 inches.

## Features & Benefits

- **75 HP TEBC DTC motor with a speed range of 0 RPM to 8000 RPM - flexibility**
- **Motor mounted encoder for speed regulation of 0.01% - precise control**
- **Direct torque control, digital heavy-duty ABB ACS600 drive - user familiarity**
- **Drive capable of holding motor at full torque with "0" speed**
- **Configure digital and analog I/O for your application using the drive's built-in parameters**
- **Optional profile generator controls the drive using Profibus communication protocol**

## Standard Items

- NEMA 12 enclosure houses drive system
- ABB ACS601 75 HP heavy-duty drive with direct torque control
- 75 HP TEBC motor with a speed range of 0 - 8000 RPM
- 512 PPR encoder for speed feedback regulation of 0.01%
- NTACH encoder interface module
- Ramp stop, E-Stop circuit
- Auto/Manual selector switch inputs for optional auto start/stop and speed reference
- Two analog outputs for motor readout of "SPEED" & "LOAD"
- Motor starter for over current motor protection
- Molded case circuit breaker for overall system protection
- Fast-blow fusing on line side of ACS601 drive for drive protection
- 500 VA fused control transformer for control power
- All necessary relays for operating circuits
- Interconnect terminal strip for easy control wire termination



## Optional Items

- |                                       |                          |
|---------------------------------------|--------------------------|
| Larger or Smaller Horse Power Systems | Installation Services    |
| 240 VAC rating                        | Operator Control Station |
| HMI Profile Generator                 | Remote Operator Controls |
| Specific customer requests            | Spare Parts              |

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