



**TOUGH CHALLENGES**  
**TIGHT TIMELINES**

*Brave Control Solutions is a systems integration company that is headquartered in Windsor, Ontario, Canada with an American location in Detroit, Michigan.*

## DC TO AC MOTOR CONVERSIONS

Brave has earned a reputation for achieving automation excellence for our ability to deliver main motor upgrades smoothly and successfully in as little as **ONE WEEK** of regularly scheduled downtime.

Our experienced team has seamlessly swapped obsolete AC motors and drives with newer, low cost DC motors while working within customers regularly scheduled downtime with virtually no changes for the operators.

### WHY CONVERT FROM DC TO AC?

#### LOWER CAPITAL COSTS

An AC motor precisely customized to your application with coordinated system components costs significantly less than an equivalent new DC motor.

#### INCREASED PRODUCTIVITY

AC motors provide increased productivity due to their extremely high dynamic response and high performance rotational accuracy and vibrational quality.

#### RELIABILITY AND AVAILABILITY

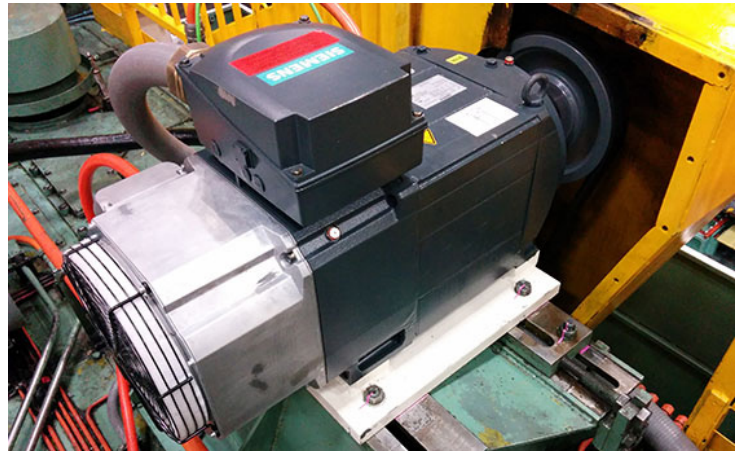
Increased electric strength along with rugged durability coupled with the swift availability of spare parts make AC motors a more reliable choice than outdated DC motors and components.

#### REDUCED OPERATING COSTS

Increased efficiency through the use of energy-efficient EC fans coupled with lower maintenance at longer maintenance intervals drastically reduces your applications operating costs.



*The obsolete DC motor was loud, inefficient, and required increasingly frequent maintenance in order to continue running to standards.*



*The new Siemens G150 AC drive package and 1PH8 motor is much smaller, more efficient and required less maintenance.*

MOTOR PROPERTIES	STANDARD DC	MODERN AC
Speed Regulation	0.01%	0.01%
Speed Range	100:1	>1,000:1
Constant Horsepower Range	4:1	4:1
Starting Torque	150%	150%
High Speed Capability	<3,000	<6,000

#### CANADA HQ

4520 Rhodes Drive  
Windsor, Ontario

1.519.974.9955

#### USA OFFICE

1449 Woodward Avenue  
Detroit, Michigan

1.810.844.9718

For more information on our current services and capabilities please visit:

[WWW.BRAVECS.COM](http://WWW.BRAVECS.COM)

