



TMEiC
We drive industry

Drive System Modernization



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Retrofitting drives? Work with the experts.

TMdrive®-DC

A complete new DC drive with or without a cabinet



Inside the TMdrive-DC

The new power bridge is under the electronic controls module (DFE)



TMdrive-DC DFE module

The digital front end module (DFE) - a set of new drive electronics suitable for mounting on the old DC power bridge



TMEiC Drive Retrofit Procedure

A choice of retrofit levels to meet your needs:

- Upgrade legacy DC drives with the new TMdrive-DC DFE control board module and
 - Keep the original power bridge and cabinet
 - Keep the DC motor
- Keep the cabinet and motor, replace the original DC drive with a new TMdrive-DC drive (see above center)
- Replace the original DC main drive and motor with a new AC main drive and motor

The Drive Retrofit brings many benefits:

- Reduce the upgrade and installation costs with the DFE module by keeping the original power bridge, cabinet, wiring, and DC motor
- Reduce the maintenance cost of the older drive equipment
- Obtain high performance digital control and high-speed communications

Legacy DC Drives



Silco 1985






Siltron 1980



DC300 1985

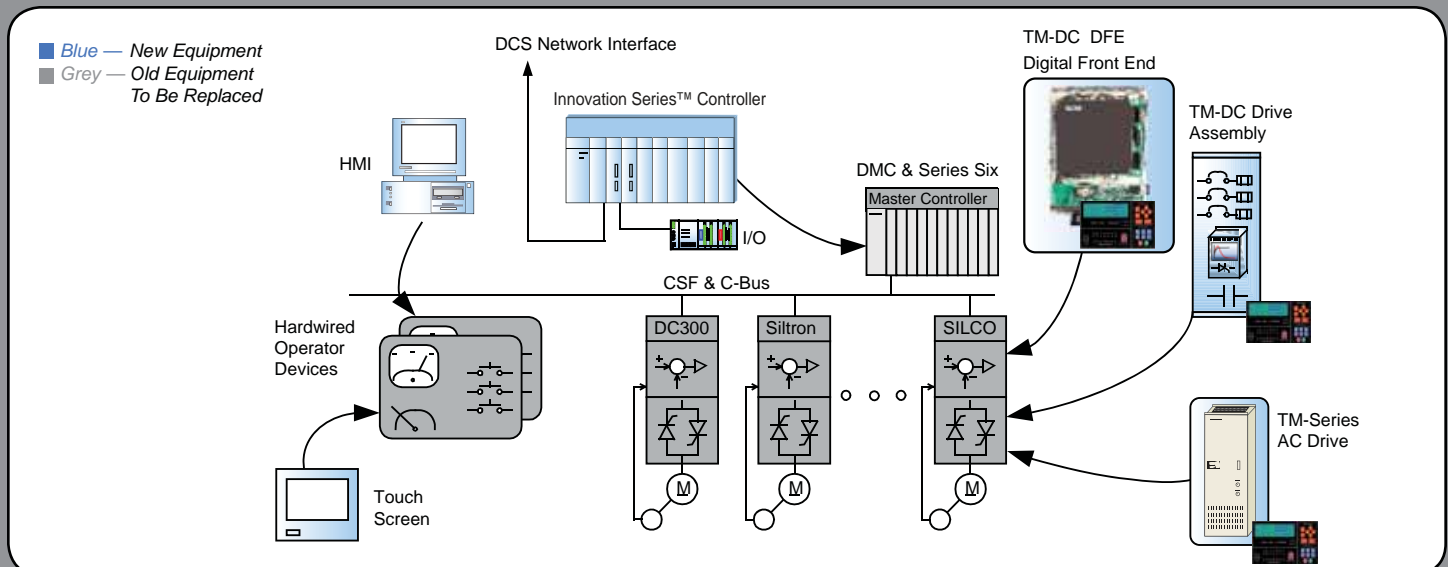
DC2000 1990

New features available with the TMdrive-DC Retrofit

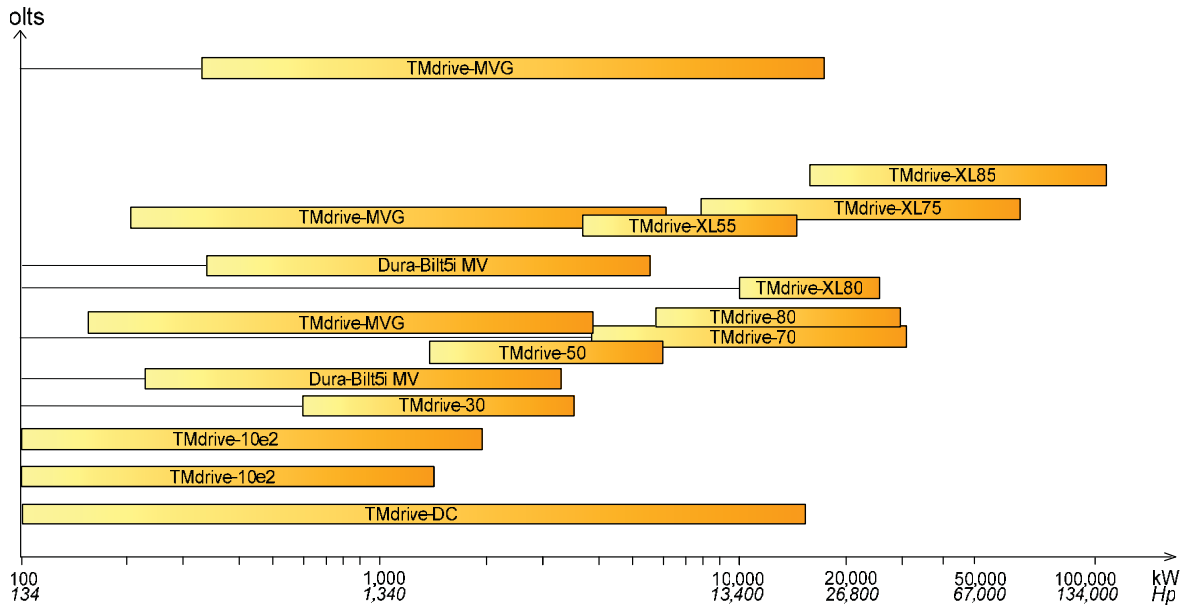
Features		Benefits
	LAN Interface Options <ul style="list-style-type: none"> • ISBus 5 Mps • Profibus-DP 9.6K-12 Mbs • DeviceNet 125-500 kbs • TOSLINE-S20 2 Mbs 	High-speed communications between the drives and stand controller with choice of the Innovation controller or the V-series controller for the plant floor control.
	Graphic Keypad <ul style="list-style-type: none"> • Four configurable backlit variable bar graphs with descriptive legends • Status icons reflecting health of drive at a glance • Dedicated drive control keys for manual operation • Full access to all parameters and variables 	Bar graphs, icons, menus, and numeric values provide concise status information, often eliminating the need for traditional analog meters. Drive can be operated right from the keypad.
	Toolbox for Configuring & Monitoring <ul style="list-style-type: none"> • Drive configuration and tuning • Animated graphical display of drive sequencing and regulation • Outline view functionally organizes variables and functions for quick access • Integrated trend window for real time or captured high-speed historical drive data • Fast Fourier Transform (FFT) trend analysis 	Comprehensive and powerful configuring, monitoring, and analysis capability brings productivity to your commissioning and maintenance activities.

Retrofitting your drive system? Work with the original system builders.

Example of Late 1980s GE Architecture



TMEIC AC Drives Offer Complete Coverage



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If you have any questions regarding your project requirements, please contact TMEIC Corporation at 540-283-2000.