

# CONTROL TECHNIQUES



**SCIENCE  
GATE**  
*Your Automation Partner*



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# EXTREME POWER

ENGINEERED TO FIT YOUR WORLD

AC DRIVES, HIGH PERFORMANCE

**NEW**

**DRIVE OBSESSED**

# YOU LOVED THE SMALLER ONES HERE'S THE BIG ONE

Control Techniques has set the standards in motor control since 1973.

While low power accounts for most of the growth for variable speed drives, energy-saving applications are driving growth in high power drives. Fans, pumps, compressors and extruders are common uses of drives which increasingly need a higher power option.

## Light weight, but no light weight!

Enter the new high power drive, which not only offers 500 kW of power in a single module, but at 130kg is up to 60 kg lighter than competitors drives. Its small footprint and pre-engineered accessories make it easy to install or retrofit in industry-standard cubicles.

A choice of control module options

This 500 kW drive can be fitted with a Unidrive M600/M70X or Pump Drive F600 control module and every accessory required to fit in a cubicle is available to order. Alternatively, the frame can be provided pre-assembled in its own industry-standard cabinet, with user-selectable system components included. This is the ready to use DFS series free standing version.

## Installation and servicing

- A single installer can handle wiring and connection using comprehensive accessories
- Under 30 minutes for one engineer to replace the drive using service accessories
- During service, factory-tested sub-assemblies can be exchanged on site without returning the drive to base
- Wider front face design and lower centre of gravity provide greater physical stability and safety during installation
- Always smaller than an existing drive when retrofitting, so will always fit space available
- Fixed lifting points on the chassis (no additional brackets required) for safe handling
- No additional chokes are required for the vast majority of applications
- Online diagnostic app aids commissioning and user support

## Controls, communications and configuration

- Renowned Unidrive AC motor control extended up to 500 kW in a single power module
- Targeting the key high-power drive applications of fans, pumps, compressors and extruders
- As powerful as any other drive on the market, yet very light and easy to handle
- All leading industrial communications protocols supported, on-board as standard or with user-fitted options
- On-board machine control, open programming architecture and safety features
- User-connectable 12-pulse operation as standard for supply current harmonic reduction
- Enhanced IGBT protection during short circuit protects against external fault conditions
- Novel capacitor bank protection reduces damage dramatically if an internal fault is detected

## Drive ratings and ordering information

Model	No Overload		Normal Duty			Heavy Duty		
	Maximum continuous output current	Nominal power at 400 V	Maximum continuous output current	Peak current	Nominal power at 400 V	Maximum continuous output current	Peak current	Nominal power at 400 V
	A	kW	A	A	kW	A	A	kW
M000-12404800T	635	315	608	668	315	480	528	250
M000-12405660T	689	355	660	726	355	566	792	315
M000-12406600T	788	450	755	831	400	660	924	355
M000-12407200T	903	500	865	952	500	720	1008	400

Internal 125 kW brake chopper included as standard

## Dimensions

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Width 295 mm, Height 1750 mm, Depth 526 mm



## Kits and accessories ordering information

Description	Cubicle Range	Part Number	
Input wiring kit	VX25 & TS8	6772-0006	
Output wiring kit	VX25 & TS8	6772-0007	
Earthing kit	VX25 & TS8	6772-0008	
Cubicle fitting kit	VX25	6772-0009	
	TS8	6772-0010	
Pallet truck lifting kit and ramp	TS8	6500-0150	
Fixed ramp	TS8	6500-0151	
	VX25	6500-0158	
Pallet truck lifting and ramp	VX25	6500-0159	
External EMC filter (All 3 models)	VX25 & TS8	FN 3311-1000-99-C16-R55	Shaffner
		HLD 103-500/1000	Block



# Nidec

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