

For Emergency and Production Stopping of  
MDC **QUICKSTOP**

## QUICKSTOP

The **QUICKSTOP** provides rapid or controlled stopping every time the trip switch is operated. The **QUICKSTOP** unit is constructed from components with ample margins for a long and arduous life. Although the number of permissible operations per hour are well in excess of the motor performance, a thermal switch is fitted to protect the control transformer in the **QUICKSTOP**. The **QUICKSTOP** incorporates all the features recommended by the Health & Safety Executive and is listed in their guidance notes for radial and heavy vertical drilling machines.

### SPECIFICATIONS

#### SUPPLY VOLTAGE:

From 240 volts single phase to  
415 volts 3 phase 50hz.

#### STANDARD MODELS:

##### QS2

For motors up to 2hp (1.5kW)  
3 phase or up to 0.75hp  
(0.55kW) single phase.

##### QS5

For motors up to 5hp (4kW)  
3 phase or up to 1hp (0.75kW)  
single phase.

##### QS10

For motors up to 10hp (7.5kW)  
3 phase or up to 2hp (1.5kW)  
single phase.

##### QS20

For motors up to 20hp (15kW)  
3 phase only.

##### QSM

For multi speed tapped wound  
motors up to 10hp (7.5kW).

##### QS10 and QS20

Units suitable for dual wound,  
D.O.L. motors.

#### OPTIONS:

Also available with built-in starters.

For applications such as higher horse powers, star-delta starting, slip-ring motors and specific retardation rates – please consult us for custom designs.

The unit comprises of: Rectifier made from high quality silicon diodes, a transformer to BS2114 and BS171 with thermal trip, and most with a range of voltage tappings to select the rate of stopping your machine. The timer also checks if the DC is available.

Dimensions	Height (mm)	Width (mm)	Depth (mm)
QS2	300	400	200
QS5	300	400	200
QS10	400	400	200
QS20	600	400	250



## Electric Motor Driven Machinery You Need the D.C. Injection Braking Unit

## QUICKSTOP

All the **QUICKSTOP** units are enclosed in a robust metal enclosure unless specified to be supplied on an open chassis plate.

### SAFETY FEATURES

#### DC MONITORING

The **QUICKSTOP** has a timer device to monitor that the DC is available for braking before reset is accepted.

#### BRAKING EFFECT

On the QS5 and above the braking effect is adjustable by changing the transformer tapping to a different voltage.

#### BRAKING TIME

The DC injection time on most of our units can be adjusted, for application where longer run down times are required.

#### PROTECTION

The unit 10hp and above are protected from abuse by a built in thermal device built into the transformer.



### MOUNTING

The units are all suitable for wall mounting. For radial drills, the telescopic actuator should be within 75mm of the centerline of the spindle on the left-hand side.

### OPERATION

To energise the **QUICKSTOP** unit, press the reset button to connect the supply to the equipment. After operation of the trip device simply remove the cause of the emergency and press the reset button. The unit, if required, can be fitted with an automatic reset.

### GENERAL

The DC connection must be made to the motor side of the starter. Provision is made on all of our units to wire an external reset button from the **QUICKSTOP** unit to a position on the machine should the unit be mounted out of reach.

### ACTUATING DEVICES

For radial drills, the unit is tripped by a telescopic switch, but before other applications, various switching devices can be used e.g. stop buttons, limit switches, foot switches, auxiliary contacts, photo electric's, pressure mats etc.