

# ELECTRONIC HYDRAULICS

FOR MH-400 & PP-180



Setting a new standard for the turf industry, electronic hydraulics offer complete control over the hydraulic functions of your TYCROP MH-400 or PP-180, with programmable settings for precision performance at the push of a button.

MAKING LIFE EASIER



# WORK SMARTER, NOT HARDER



Controller mounted on MH-400 swing arm and extended to rear of machine.



Location of hydraulic manifold (MH-400).



Custom designed and integrated hydraulic manifold.

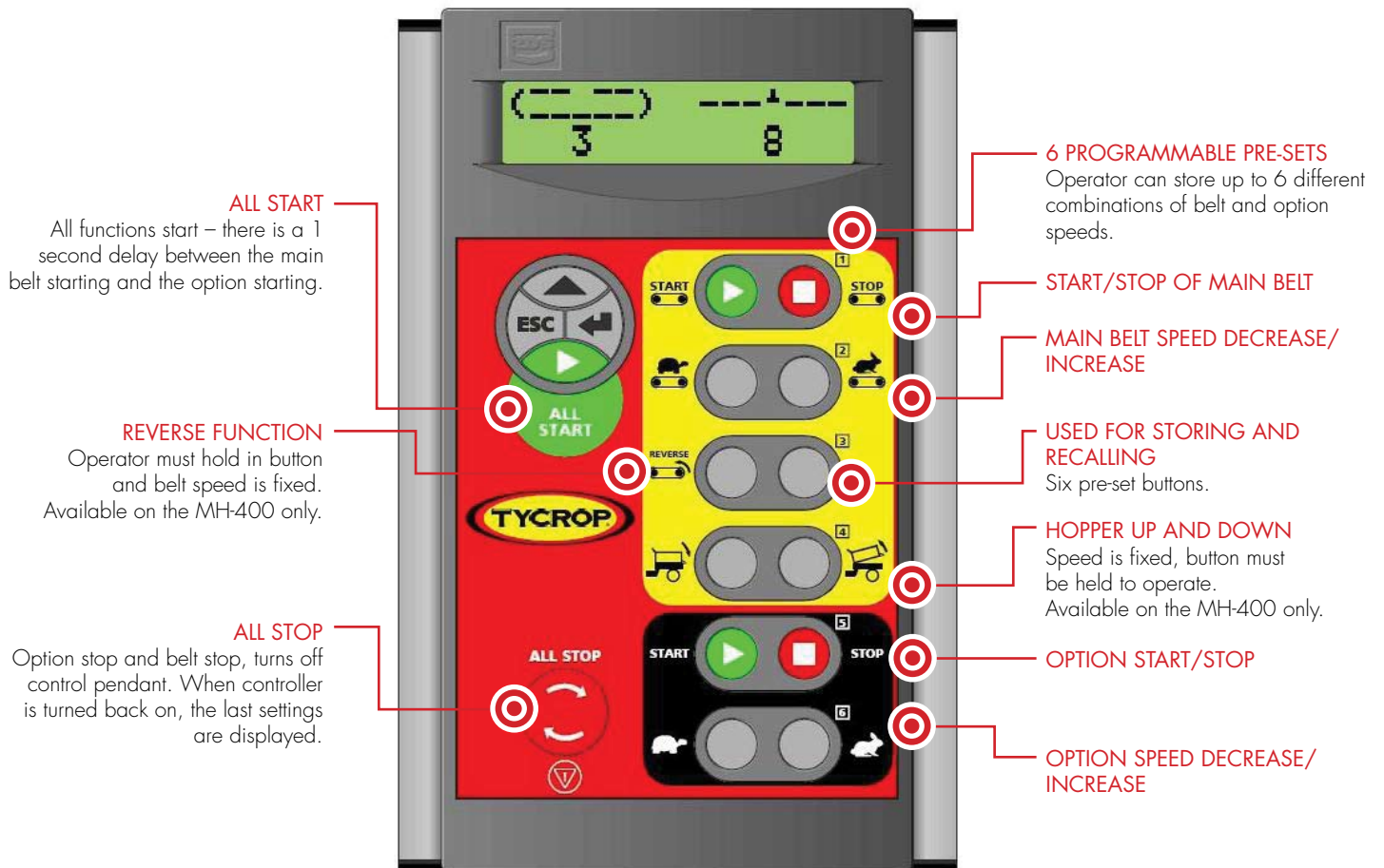


Included mounting bracket for mounting in the tractor cab or work vehicle.

## ELECTRONIC HYDRAULIC CONTROLLER FEATURES & BENEFITS

- All hydraulic functions are controlled by the fully programmable controller. Speeds on the main floor belt and options can be changed "on the fly" (MH-400 and PP-180). The hopper of the MH-400 can also be raised and lowered, this function should only be performed while the machine is stationary. MH-400 belt can also be reversed by holding in the reverse button, for easy loading of materials from the rear of the tailgate.
- Easily understandable digital display of belt and option speeds. Also, graphical representation of when the main belt and option are either stopped or moving.
- Includes "all start" main floor belt and option (with 1 second delay) and emergency "all stop" buttons.
- Controller has last setting "memory", no need to reset if repeating same operations at different locations. Also has 6 programmable pre-sets, which can be set by the operator to increase productivity.
- Movable controller allows greater versatility ie: can be mounted and used in the cab of the tractor or work vehicle (with supplied mounting bracket) or on the side of the machine via swing arm (MH-400). Also allows multiple tow vehicles to be used.
- Controller is a CPU therefore future programmability and expandability for options/features without having to replace, ie: future programmable for various languages and diagnostics.
- Utilizes Pulse Width Modulation (PWM) technology to optimize hydraulic output.
- Factory programmable speed ramps allow gradual starting / stopping of hydraulic motors, reducing impact and wear.
- Controller is removable from main harness for secure storage. Wiring is sealed utilizing transportation grade, weather proof connectors.
- Controller can withstand a 5G vibration force and 100G shock force.
- Custom designed & integrated hydraulic manifold reduces complicated hydraulic line routing and system maintenance. Reduced number of hydraulic lines by 37%.
- Solenoids have manual by-pass to allow for machine unloading in the event of solenoid failure. Solenoids can be serviced/changed without disturbing hydraulic lines.

# ELECTRONIC HYDRAULIC CONTROLLER FUNCTIONS



## ALL START

All functions start – there is a 1 second delay between the main belt starting and the option starting.

## REVERSE FUNCTION

Operator must hold in button and belt speed is fixed. Available on the MH-400 only.

## ALL STOP

Option stop and belt stop, turns off control pendant. When controller is turned back on, the last settings are displayed.

## 6 PROGRAMMABLE PRE-SETS

Operator can store up to 6 different combinations of belt and option speeds.

## START/STOP OF MAIN BELT

## MAIN BELT SPEED DECREASE/ INCREASE

## USED FOR STORING AND RECALLING

Six pre-set buttons.

## HOPPER UP AND DOWN

Speed is fixed, button must be held to operate. Available on the MH-400 only.

## OPTION START/STOP

## OPTION SPEED DECREASE/ INCREASE

# ELECTRONIC HYDRAULIC CONTROLLER SPECIFICATIONS

## TEMPERATURE

-10 C (14 F) to 50 C (122 F) operating  
-30 C (22 F) to 70 C (158 F) storage

## VIBRATION

5G @ 10 to 250 Hz

## SHOCK

100G

## SEALING

Seal rating of IP54 protects against splashing water and most dust.

## CONTROLLER SLEEVE

Heavy plastic, protecting against sand and water contamination.

## PROGRAMMING PRE-SETS/SETTINGS RECALL:

The control pendant has the ability to store 6 pre-set speeds for the belt and the option. The current speeds can be stored as a pre-set so that they can quickly be recalled.

### To Store:

- Press the Store/Recall button, square brackets will appear in the center of the bottom line of the display.
- Press and hold button 1 through 6 for 3 seconds, the square bracket will begin flashing. The current belt and spinner speed will be stored to that preset.

### To Recall:

- Press the Store/Recall button square brackets will appear in the center of the bottom line of the display.
- Press button 1 through 6. The pre-set belt and spinner speed for that button will become the current belt and spinner speed.

Other quality turf products available from TYCROP



PP-180  
TOP DRESSER



QP-450  
MULTI FUNCTIONAL  
TOP DRESSER



TD-460  
LARGE AREA  
TOP DRESSER



MH-400  
MATERIAL HANDLING  
UNIT

