

## Hamilton TEA XP600M Transplanter



The Hamilton T.E.A. XP600M series transplanter is a radical new development of the XP series of transplanters, highly user friendly and designed for all sizes of greenhouse. Each head is independently controlled by a sophisticated, but easy to use, computer. It can be constructed with 3 to 8 heads, resulting in the ideal setup for your operation. A four head machine can transplant at a rate of 6500+ plants per hour, depending on the application, rising to nearly 10000 plants per hour for a six head machine. Typically, two operators can keep up with production, one to load trays and label packs, and the other to unload and patch the occasional misses.

Computer controlled for accuracy and versatility, it can transplant from virtually any plug tray into almost any pot or pack configuration. It can even transplant from small to large plug trays. Trays can be fed lengthways or widthways through the machine to increase the transplanting options. The computer can be programmed through the control panel at the factory, or by the operator, with up to 99 plug tray programs and 99 pack/pot programs, giving nearly 10000 possible combinations. Pickup and planting depth, and speed, can be varied while the machine is operating. A floppy disk drive is provided for backup, and program and software updates.



Programming for different trays is achieved by entering the tray dimensions into the computer memory. The memory can be recalled at the touch of a button and no tools are required when changing trays and packs. All motions are motor controlled and no manual adjustments are required. Plug trays and packs up to 600mm (24") wide can be accommodated. The computer automatically selects the optimum number of heads to be used, and parks those not required, eliminating the need to add and remove heads manually.



State of the art motor technology allows precise, repeatable plug pick-up and placement. This smooth action of controlled acceleration and deceleration means maximum speed with minimum plant disturbance. The Hamilton T.E.A. Transplanter uses standard plug trays and the special gripping finger design allows plants with little root to be transplanted successfully. Another unique feature is the switchable 'side step' pickup, whereby the pickup heads approach the plug from the side, instead of from the top. This prevents stem and leaf damage on certain subjects.

The frame is of aluminium construction with a non-scratch table surface and clear plastic safety guards. Large wheels are standard, which makes the machine easy to move around the greenhouse or work area. Safety switches and emergency stop systems are incorporated and the unit is CE marked. Options include a feed conveyor extension, and special large fingers for oversize plugs. Full training on programming and operation is given on installation by factory trained technicians.

### Technical Specification

Typical speed	1650+ plants per head per hour (variable speed)
Power Consumption	1 kW single phase (specify 110 or 240v).
Air Consumption	Compressor of 200 litres/min is recommended (5 bar max)
Dimensions (in mm)	3000 L (incl. exit platform) x 1750 W x 1800 H (mm – approx.)
Weight	Approx. 500 Kg

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