

# STYLE B1 SWITCHMATIC POINTS MACHINE

The Switchmatic B1 Points Machine meets the general requirements of BS specification 581 and Transnet specification CSE 17A for safety and reliability for electric points machines.

## Operation

The motor shaft drives a ball screw converting rotation into linear motion. The ball screw engages a drive slide which operates an escapement crank and the final throw bar.

Two lock dogs fixed to the drive slide pass through corresponding ports in lock blades, locking the points' switchblades.

Large forces transmitted from a 'run-through' are contained by the throw bar, escapement crank and thrust block. This causes the ground rod connections to deform, absorbing the shock and protecting the point's machine from damage.

For manual operation, provision is made at one end for the insertion of a crank handle.

## Electrical operation

The standard points machine may be supplied with one of two motor options:

- AC 3-phase induction motor
- DC split-field series motor.

## AC motor operation

After the points lock is engaged, an electromagnetic brake is activated.

## DC motor operation

The drive slide reaches a position at which the points lock is engaged. The motor control switch then interrupts power to the motor and triggers the snubbing circuit to stop the motor.



## Detection

- Both switch blades are independently detected.
- The limit switches are totally enclosed, fail-safe with wiping contacts.

## Mechanical characteristics

- Maximum thrust at throw bar: 6,5 kN.
- Operating time at 3,25 kN load: 2,7 s.
- Operating time at 6,5 kN load: 3,4 s.
- Machine mass: 275 kg.
- Throw bar stroke: 140mm .
- Reverse thrust allowable 1 0 kN.

## Applications

- Operates all turnouts whether or not a drive to the heel is required.

- Moveable frog and derailer.
- Switches that require a separate drive to a facing point lock and detector.
- Double-slips.

## Ordering Details

- ACU1 points machine. 380 V, 3-phase, 750 W AC motor.
- DCU1 points machine. 1 0 V, 600 W DC motor.

Note: Machines with other motor voltages can be supplied on request

**SIGNALLING**  
A division of ACTOM (Pty) Ltd

**ACTOM**