

Model RMD-100-5 Remote Motor Drive

With the CNMC Model RMD-100-5 Remote Motor Drive you can convert the manual crank mechanism of the CNMC WP-3040, WP-3840 and STP-145M detector positioning assembly to allow detector positioning from outside of the treatment room, adding convenience and significant savings to your data acquisition time.

Installation is easy, since it makes use of existing threaded holes for mounting the motor drive assembly to the detector positioning assembly. Although the installation includes adding two drive sprockets, the hand crank is reinstalled on the motor shaft, thereby retaining the original manual positioning and mechanical counter readout functions.

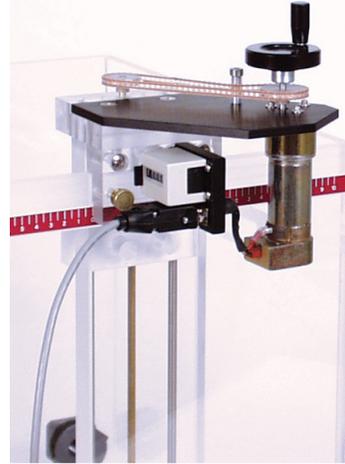
The control/display module is connected to the drive motor by a 15-meter cable for complete control of detector position from the accelerator console. Its six-digit liquid crystal display indicates the depth position in units of centimeters to 0.001 cm. The RUN switch operates the motor drive in a continuous mode, while the JOG switch provides intermittent operation. Both switches control the motor drive in up/down directions, indicated on display as + and – respectively.

Model RMD-100-1

The Model RMD-100-1 may be specified for adaptation to the existing Med-Tec MT-100 and MT-150 water phantoms. Except for the mounting hardware, all features and technical specifications are identical to the RMD-100-5.

Model RMD-100-3

The Model RMD-100-3 may be specified for adaptation to the existing CNMC WP-300 and WP-380 water phantoms. Except for the mounting hardware, all features and technical specifications are identical to the RMD-100-5.



Left: Motor drive assembled to the depth drive

Right: Remote control/display module

Features

- ▶ Control detector position of CNMC WP-3040, WP-3840 and STP-145 M from the accelerator console
- ▶ Easy bolt-on installation
- ▶ Positioning accuracy: 0.1 mm (± 0.05 mm)
- ▶ Retains the original manual detector positioning
- ▶ Also fits Med-Tec MT-100/150 and CNMC WP-300/380 phantoms

Specifications

Display	6-digit liquid crystal display with +/- indicators corresponding to up/down, and decimal point
Accuracy	Depth displayed to 0.001 cm (depth measured to 0.005 cm)
Controls	Bi-directional continuous (RUN) and intermittent (JOG), display reset switch to establish reference position, on/off switch
Motor	12 VDC, reversible, variable speed, 160 rpm ± 12 VDC
Cable	Controller to motor; 15 m (50 ft), PVC-jacketed, multi-conductor cable (custom lengths available)
Power	120/240 VAC, 50/60 Hz
Dimensions	19.7 cm x 15.2 cm x 8 cm (7.75 in x 6 in x 2.75 in)
Weight	3 kg (6.6 lb) including controller, motor and mounting assembly, and cable