Measure wall thickness from 0.1mm to 30mm
measure - record - analyse

All non-ferrous materials:

- Plastics of any density or composition

- Multi-layer products

- Foamed material

- Laminates

- Fibreglass

- Carbon composites

- Glass

- Aluminium moulds

K-Metron offers the rotomoulder an easy to use non-destructive method for measuring part wall thickness. Measuring up to 30mm part thickness, the K-Metron meter produces the reading on the handheld display and can also send a radio signal to the receiver module that is connected to the PC. The thickness data will then be stored on the K-Metron PC software.
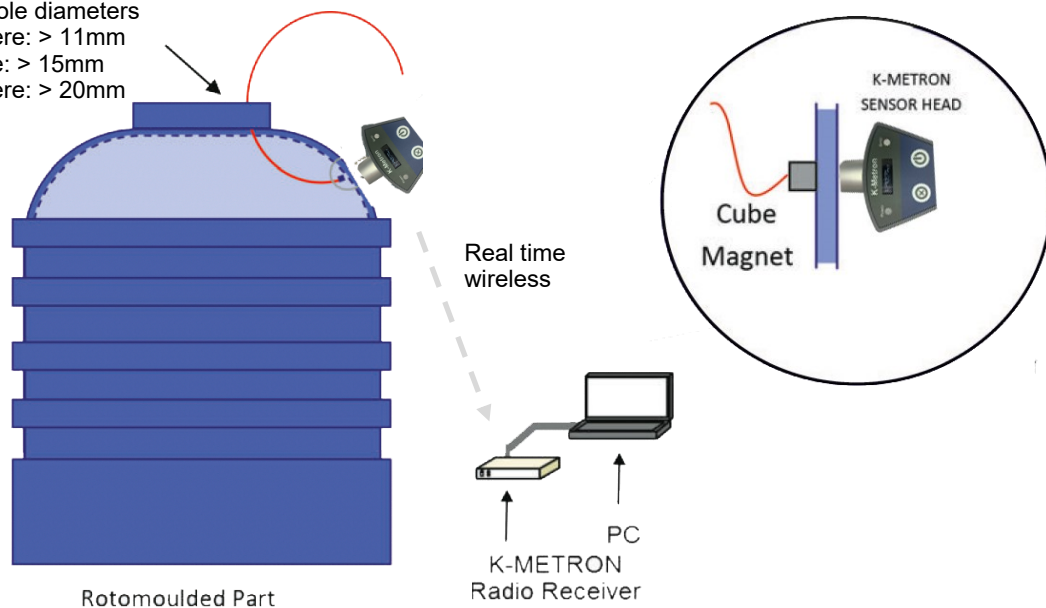
Using K-Metron

Hold the sensor head of the K-Metron against the outside surface of the moulding immediately beside the access hole e.g. the vent pipe hole. Insert the magnet ensuring that magnetic coupling is maintained between it and the sensor head when inserted. The sensor head can now be tracked around the outside of the moulding whilst maintaining magnetic coupling with the magnet.

Find the Spot

The measurement is displayed on the handheld unit or alternatively, can be recorded by transmitting the measurement to a local PC via radio communication by clicking the trigger button on the unit. If the trigger button is held while the K-Metron tracks the mould then the minimum wall thickness will be reported - a useful technique for finding thin spots in mouldings!

Minimum hole diameters
10mm sphere: > 11mm
10mm cube: > 15mm
19mm sphere: > 20mm

Real time wireless

K-METRON SENSOR HEAD

Cube Magnet

PC
K-METRON
Radio Receiver

Rotomoulded Part

K-Metron Specifications

10mm Spherical magnet	**Range**	0.1mm-20mm
	Accuracy	>14mm: +/- 0.2mm of reading; <14mm: +/- 1.0mm of reading
	Display Resolution	>14mm: 0.5mm; <14mm: 0.1mm
10mm Cuboid magnet	**Range**	3mm-20mm
	Accuracy	>17mm +/- 1mm of reading; <17mm +/- 0.2mm of reading
	Display Resolution	>17mm: 0.5mm; <17mm: 0.1mm
19mm Spherical magnet	**Range**	10mm-30mm
	Accuracy	>20mm: +/- 1mm of reading; <20mm +/- 0.2mm of reading
	Display Resolution	>20mm: 0.5mm; <20mm: 0.1mm
Operating Temperature Range:		15 - 40 degrees C. Note that when measuring hot moulds the sensor head should be periodically cooled to avoid long term drift in sensor accuracy
Minimum radius measured:		10mm spherical magnet: >5mm 10mm cuboid magnet: >8mm 19mm spherical magnet: >10mm
Power supply:		9V Lithium Ion battery.
Radio Range		30m in free air. NB range may be reduced by walls.