



Tapping Exfoliation Detector

Woodpecker

WP632

Patent and trademark are being applied for.



A tapping hammer was a "must" to see if exfoliation was produced inside the honeycomb board or laminated plate, by listening to the slight difference in a tone of sound of tapping. This method has been a common place elsewhere, but it requires much skill and years of experience.

The Mitsui-developed Woodpecker WP632, a hand-held tapping unit, not only has eliminated such requirements, but also mechanized and automated the tapping work. It even shows on a display the degree of exfoliation.

With its built-in CPU, and a sensor fitted to the battery-driven solenoid hammer, the WP632 can detect and show exfoliation in graduation on the LED display. In addition, the position and shape of core material can be checked by pushing INSERT on the DEBOND/INSERT switch.

The WP632 can also be connected to WP632M, a separate monitoring unit available on option, for showing and memorizing of the measured values, when required, WP632M can transmit such data to a personal computer.

The unique and innovative WP632 can work even in a noisy place, and its quantitative display of defects is never interrupted.

Features

- Compact and lightweight
- Easy to operate
- Quantitative display of defects
- Logging of measured values (when used with optional WP632M)
- Operative even in a noisy place

Applications

- Detection of exfoliation inside the honeycomb material
- Detection of damage to core

material connected to the surface of honeycomb boards

- Checking of position and shape of core material
- Detection of exfoliation in layers of composite material
- Detection of exfoliation in connected parts of composite structure
- Detection of position of a beam in the wall
- Detection of exfoliation of tiles
- Detection of exfoliation of clad steel

Particulars

Size: 100mm(H) x 46mm(W)
x 276mm(L)

Weight: 400g

Power: Size AA battery x 4

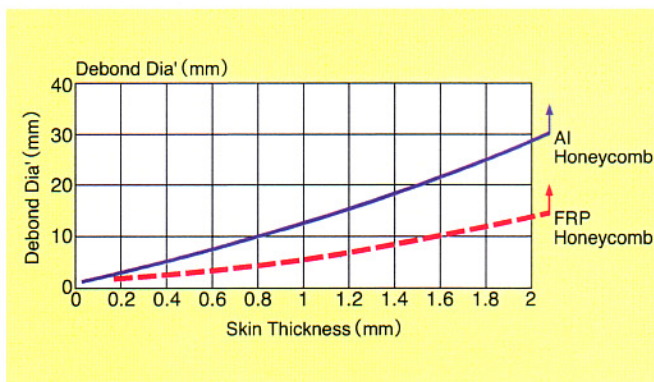
Power consumption:
1 watt

Battery life: About 10 hours where alkaline batteries are continuously used.

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The detected exfoliations in an aluminum honeycomb board and FRP honeycomb board are shown in the diagram below.



WP632M Separate Monitoring Unit

Available on Option



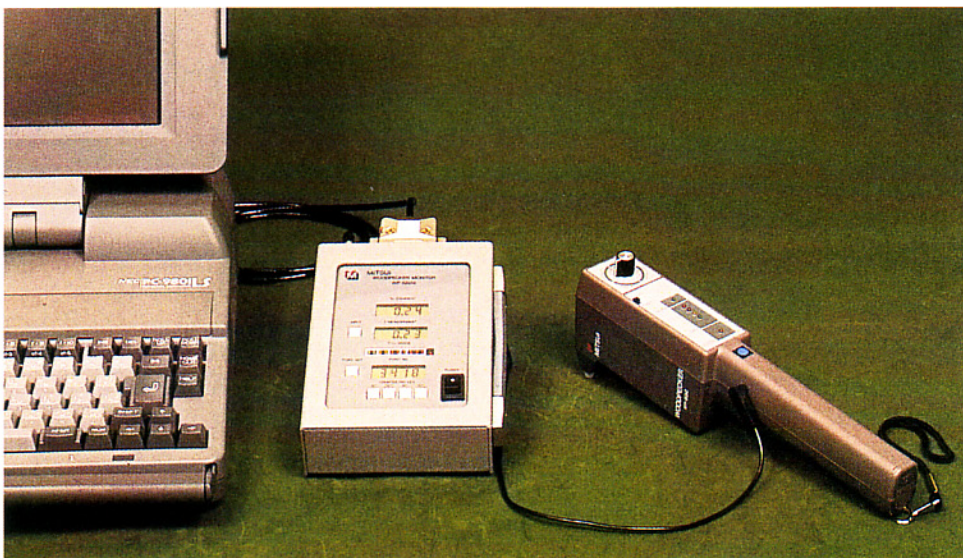
This monitoring unit when connected to WP632, shows the measured values both digitally and in a bar-graph, and memorizes them. It is provided with a connector for data transmission to a personal computer available on the market.

Functions

- Digital display of the base value
- Digital and bar-graph display of the measured values
- Memorizing of the base value and measured values as well as display of the number of memorized points
- Data transmission to a personal computer
- Memory capacity up to 5,000 points

Particulars

- Size: 170mm(H) x 130mm(W) x 50mm(D)
- Weight: 650g
- Power: Size AA battery x 4
- Power consumption: 0.3 watt



*In Combination
with Option....*