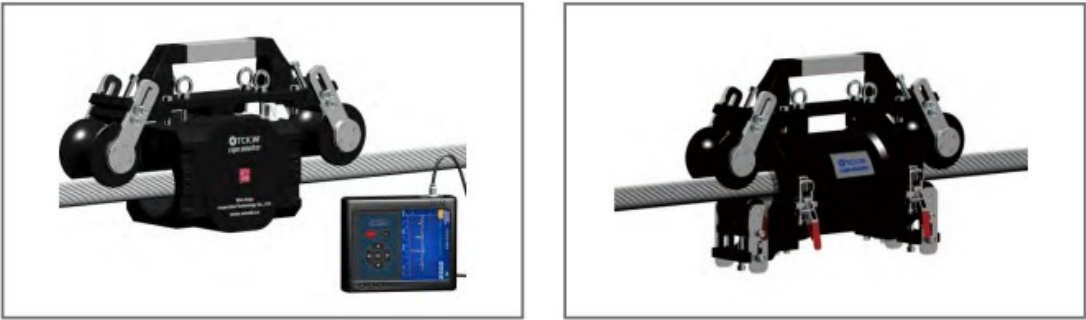
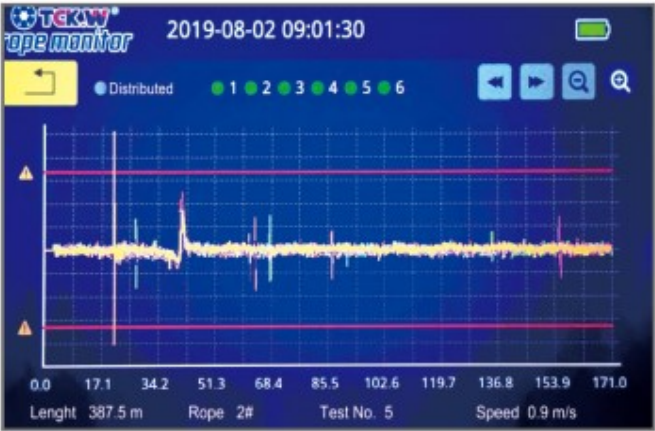
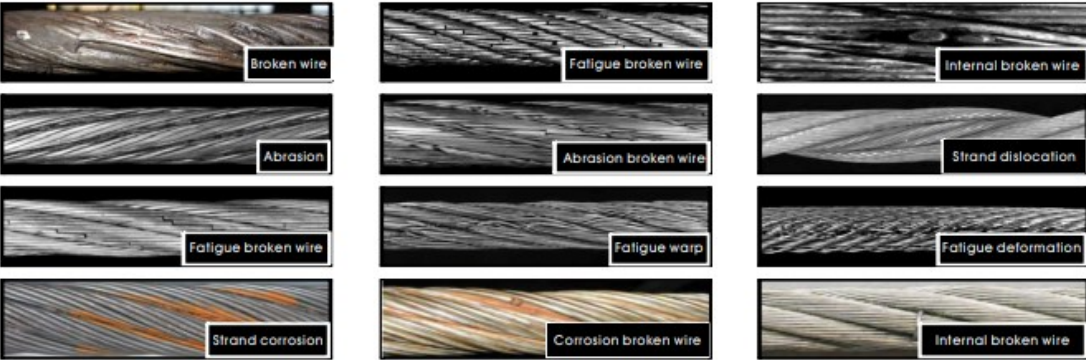


Portable Wire Rope Inspection System

01 Smart Wire Rope Inspection Equipment-5G



Accurate Inspection for Various Flaws of Wire Rope



Specification and Models

Model	Diameter of wire rope(mm)	Dimension (LxWxH)(mm)
TCK.W-BX40-4G	16-26	316X178X195(D) 267X155X195(M)
TCK.W-BX55-4G	26-42	316X178X195(D) 460X193X301(M)
TCK.W-BX65-4G	36-52	316X178X195(D) 460X193X301(M)
TCK.W-ZN0838-5G	8-38	430X130X263(D) 460X193X301(M)
TCK.W-ZN3560-5G	35-60	430X130X263(D) 465X231X324(M)
TCK.W-ZN6080-5G	60-80	546X243X400(D) 546X243X400(M)
TCK.W-ZN80120-5G	80-120	Customized

Technical Parameters

1. Inspection function: quantitative inspection on broken wires, abrasion, corrosion and fatigue.
2. LMA of MRT Inspection uncertainty : $\leq \pm 1\%$
3. Flaw positioning accuracy: $\geq 99\%$
4. Automatic benchmarking function: adapt to benchmarking for varied wire rope and automatic benchmarking once on single point location without need to benchmark at multiple positions for multiple times.
5. Self-diagnosis function: have self-diagnosis function for sensor property, communication modular, storage modular, AD/DA modular and remaining capacity.
6. Emergency unlock of device: personnel and device can be guaranteed by withdrawing rapidly with unlock time <1 second;
7. Operation model: equipped with wide color touch screen and key pad with key membrane. Support dual mode operation.
8. Display function: wide color touch screen to display inspection curve during inspection.
9. Retrieval function: can retrieve inspection content on real-time through touch screen, including current curve of wire rope, flaw position, flaw quantity list. Historic inspection data can also be retrieved.
10. Report function: By connecting with computer through Wi-Fi, inspection report can be printed out instantly. Can also print inspection report of any historic point whenever necessary. Inspection report is automatically generated by software and easy to be read and interpreted.
11. Magnetic memory regulation device: self- contained unit with function of regulating memorized magnetic field. Memorized magnetic field can be maintained forever if no external interference.
12. Inspection device: self- contained unit with non-contact weak magnetic sensor array. Can collect magnetic energy potential differential information in wire rope and analyze quantitatively without connecting external operation system.
13. Data storage: 64G Class 10 high speed flash memory can support saving maximum 50,000 meters long wire rope for single inspection. Storage supports saving 1,000 inspections for 10,000 meter/time.
14. Passing-through capability: air gap between sensor and wire rope: 10-30mm
15. Inspection speed: 0-3m/s. Not affected by surface warp, oil and deformation.
16. Data transmission: Wifi transmission or USB transmission.
17. Sensitivity of sensor: 1.5V/mT
18. Electric magnetic sensing signal-to-noise ratio: S/N >85 dB
19. Maximum Sampling rate: 1024 times/m
20. Rated working voltage: Power supply by Lithium battery, DC 7.4 V
21. Continuous operation hours of battery: ≥ 6 hours
22. Ingress protection:IP53
23. Working environment: -20 $^{\circ}$ C-+55 $^{\circ}$ C; RH 95%