MITECH

# CDX-III

## Magnetic Particle Flaw Detector

- Professional manufacturer, best quality with competitive price
- Recommended by the world UT NDT inspection association for training and examination
- Core technology with independent intellectual property rights, certificate of CE, GOST and etc..


## Overview

MITECH CDX-III Multi-functional magnetic flaw detector is based on the interaction of magnetic field leakage and powder. It can accurately show the shape of the leakage, as well as its position, size and severity, thus tells the damage level.The instrument uses a variety of magnetization methods, can detect all parts of the workpiece, widely used in petroleum, chemical, metallurgical, shipbuilding,aviation, railway and other areas of defect detection. It is a necessary professional precision instrument of quality control, in-service safety monitoring and life assessment.



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## Technical Specifications

Parameters of main body:

| Technical Specifications | Technical Parameters |
|---|---|
| Power input | AC220V, ±10%, 50HZ,5A |
| Power output | AC36V*2, 15A, can equip A, D, E, O four probes |
| Flaw detection speed | ≥6m/min |
| Probe temperature-rise | ≤60℃ |
| Working conditions | When continuous working, magnetizing time≤3s, clearance time≥5s |
| Weight | About 7.0KG |

Main parameters of magnetic yoke (Type A):

| Technical Specifications | Technical Parameters |
|---|---|
| Dimensions | 110mm×240mm×45mm |
| Polar distance | 20-160mm |
| Weight | 1.8kg |

Complex index:

| Technical Specifications | Technical Parameters |
|---|---|
| Lifting | ≥45N(no less than 5kg). |
| Flaw detection speed | ≥6 m/min. |
| Probe temperature-rise | ≤60℃. |
| Complex sensitivity | clearly show the artificial notch of type A 30/100 standard specimen. |

## Features

- New power mode adopted, which improves sensitivity as well as depth in metal surface detection.
- Adjustable magnetic yoke, making the detector more practical.
- Lighting equipped to perform in dark situation.
- Four different types of probes makes it possible to detect various kinds of shape to ensure accuracy.
- A variety of magnetization methods makes it available to get to perform well.
- Ergonomic designed Thyristor as magnetizing switch, easy to control.
- The detection speed is fast and costs little.
- Can test the flaws between 0.5~3mm below;for bigger air hole, the depth can be up to 5mm.
- Extremely high detection sensitivity, Minimum width for detection can reach 0.1 μm.

## Applications

It is widely used in the industry of aircraft manufacturing, boiler and pressure vessel, electric, oil field, shipbuilding, turbine and combustion engine parts, mine, machinery, standard parts, oil pump, vehicle parts, bridging, chemical, railway, large mechanical components, steel structure equipment etc. It mainly detects the surface detection of forging, quenching, welding, fatigue, for example, irregular workpiece of chain, crankshaft, bearing, high strength bolt, spring, forging, petrochemical pipe, valve, vane, gear, anchor chain, welding seam etc.





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## Configuration

| | NO. | Parts name | Type | QTY |
|---|---|---|---|---|
| | 1 | Main unit | CDX-Ⅲ | 1 |
| Standard config | 2 | Type A magnetic yoke probe | | 1 |
| | 3 | Magnetic yoke line | | 1 |
| | 4 | Cable line | | 1 |
| | 5 | User's manual | | 1 |
| Optional config | 6 | Type D magnetic yoke probe | | 1 |
| | 7 | Type E magnetic yoke probe | | 1 |
| | 8 | Type O magnetic yoke probe | | 1 |