

INTEGRAL SPRINGS

HARDNESS TESTER FOR 100% TESTING OF SPRINGS



Integral Springs is a hardness tester with a multi-slot head with integrated milling. it's suitable for high and very high production rates on delicate pieces such as springs, where the preparation milling must give a rounded surface without sharp edges.

Thanks to its high-speed revolver head, this instrument can perform a complete test in 20 seconds: milling, hardness test and automatic indentation measurement with appropriate camera follow automatically one another. The head of Integral In Line is tilted by 90° and faces the operator.

INTEGRAL SPRINGS:

This solution finds its perfect application in production lines with automatic conveyor, for 100% piece testing. The hardness tester is equipped with a second horizontal drive axis on the roller conveyor, so that the distancing of the tests can be programmed at the start, the middle and the end of the cylinder-spring body. On request, it is also possible to install a 180° rotating device to perform tests on the underside of the product being tested.

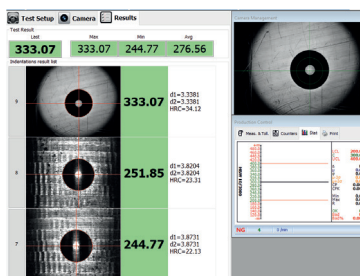
One of the benefits of the multi-slot head is that the machine can perform both Rockwell and Brinell tests, without the need to change the indenter.

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Equipped with the special **Multi-slot head** designed by Easydur, INTEGRAL SPRINGS can:

- Automatically perform surface preparation, adjusting RPM and test depth (up to 5 mm) through a dedicated slot inside the revolver head
- Complete the indentation, using the appropriate indenter
- Read the indentation using the optical system with autofocus
- Generate the test report, which is directly forwarded to the company management system



TECHNICAL CHARACTERISTICS:

| | |
|---|--------------------------------|
| Surface preparation even on small pieces without clamping | |
| Possibility of milling pieces up to | 55 HRC |
| Adjustable milling depth | from 0 to 5 mm (Ra 2.5 to 3.2) |
| Test loads | 750 - 1.000 - 3.000 Kg |
| Spheres from | Ø 5 mm to Ø 10 mm |
| OPC-UA Module for Interface 4.0 with Management Software | |
| Functional control with a single command | |
| Solid Steel Structure (not cast iron) | |



INTERFACEABLE EXTERNAL HARDWARE

- Marker
- QR/BAR Code Reader
- Optical instruments in general
- Automatic Lines
- AGV intelligent forklifts
- Automatic bridge crane

