



CLARK HARDNESS TESTERS, BOTH
STANDARD AND SUPERFICIAL MODELS,
ARE GUARANTEED ACCURATE
FOR ALL "ROCKWELL TESTING"...

**INSTRUCTIONS FOR
COMPARABLE
MACHINE**



CLARK STANDARD TESTER

There are 15 different "Rockwell Scales" used with the Standard Tester. Each is best suited to its particular purpose.

All are alike, however, in that they use the standard 10 kg. minor load. The major load may vary for the scale, being either 60, 100 or 150 kg.

This variation is shown on the chart below together with the specific type of penetrator required and the dial on which the readings appear — black or red.

All that is necessary to adapt the "CLARK" to any standard "Rockwell Scale" is the insertion of the proper penetrator in the spindle and the application of the proper major load.

"ROCKWELL SCALES" FOR USE WITH CLARK STANDARD HARDNESS TESTER

Scale	Major Load kg	Type of Penetrator	Dial Figures	Typical Materials Tested
A	60	"C" Diamond	Black	Extremely hard materials, tungsten carbides, thin steel and low case hardened steel
B	100	1/16" Ball	Red	Medium hard materials, low and medium carbon steels, brass, bronze, aluminum, alloys, malleable iron, etc.
C	150	"C" Diamond	Black	Hardened steels, hardened and tempered alloys, hard cast iron, pearlitic malleable iron, titanium, and other materials harder than B 100
D	100	"C" Diamond	Black	Medium Case hardened steel, thin steel, and pearlitic malleable iron
E	100	1/8" Ball	Red	Cast iron, aluminum and magnesium alloys, bearing metals
F	60	1/16" Ball	Red	Annealed brass and copper alloys, thin soft sheet metals
G	150	1/16" Ball	Red	Beryllium copper, phosphor bronze, malleable irons, etc.
H	60	1/8" Ball	Red	Aluminum sheet, zinc, lead
K	150	1/8" Ball	Red	Cast iron, aluminum alloys, bearing materials
L	60	1/4" Ball	Red	Plastics and soft metals such as lead, thin materials
M	100	1/4" Ball	Red	Same as L scale
P	150	1/4" Ball	Red	Same as L scale
R	60	1/2" Ball	Red	Same as L scale
S	100	1/2" Ball	Red	Same as L scale
V	150	1/2" Ball	Red	Same as L scale

CLARK HARDNESS TESTER

FOR "ROCKWELL TESTING" complete with major and minor load beams; minor load tension adjustment; dial indicating adjustment to maintain correct ratio and accuracy of readings; direct indicating dial prechecked for accuracy at every subdivision; three standard weights; zero-drag tripping lever; fully enclosed elevating screw; supply of test blocks of various hardness grades; and standard equipment as listed on page 7.



SPECIFICATIONS

STANDARD MODELS: C-4A, C-8A, C-12A, and C-16A
 SUPERFICIAL MODELS: S-4A, S-8A, S-12A, and S-16A

Description	C-4A	C-8A	C-12A	C-16A	S-4A	S-8A	S-12A	S-16A
Vertical Capacity	4"	8"	12"	16"	4"	8"	12"	16"
Throat	7"	7"	7"	7"	7"	7"	7"	7"
Overall Height	24"	29"	34"	38"	24"	29"	34"	38"
Shipping Weight (approx.)	125 lbs.	160 lbs.	165 lbs.	185 lbs.	125 lbs.	155 lbs.	160 lbs.	180 lbs.
Operating Screw	1-11/16" D.	1-11/16" D.	1-11/16" D.	1-11/16" D.	1-11/16" D.	1-11/16" D.	1-11/16" D.	1-11/16" D.
Operating Screw Thread	5 Pitch Acme	5 Pitch Acme	5 Pitch Acme	5 Pitch Acme	5 Pitch Acme	5 Pitch Acme	5 Pitch Acme	5 Pitch Acme

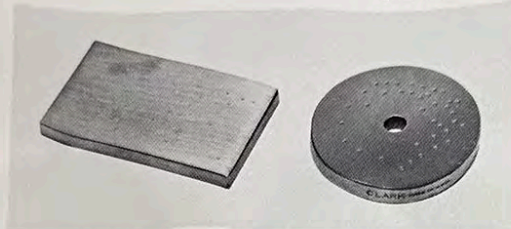
STANDARD EQUIPMENT

DIAMOND PENETRATOR
INCLUDED IN PRICE
OF TESTER.

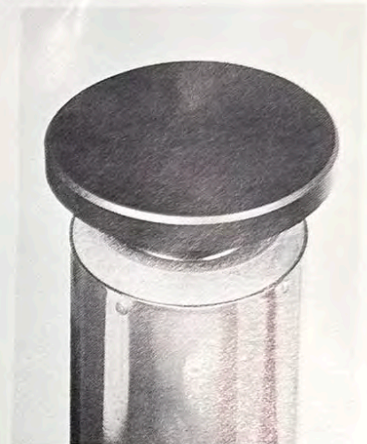
1. 1/16" HARDENED STEEL BALL PENETRATOR for "Rockwell B" testing of medium soft metals (with extra balls).
2. TEST BLOCKS — 4 QUANTITY (2 shown only)
3. STANDARD 3" ANVIL for large work having a flat bearing surface.
4. CHECKING ANVIL has a raised spot of extra hard steel for testing most standard size pieces and for use with test blocks.
5. "V" ANVIL is used in testing medium size round and cylindrical parts. 1-1/2" diameter.
6. RAISED "V" ANVIL for checking small sizes.
7. COVER FOR INSTRUMENT is durably made, preserves and protects your CLARK.
8. TELESCOPING COVER FOR ELEVATING SCREW protects threads from dust, grit, and rust.
9. OIL RESERVOIR FOR ELEVATING SCREW completely encloses screw, supplies lubricant.



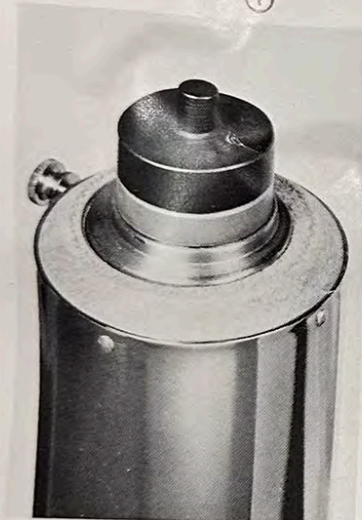
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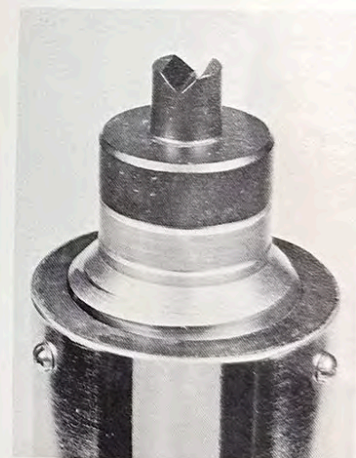
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Extra Equipment

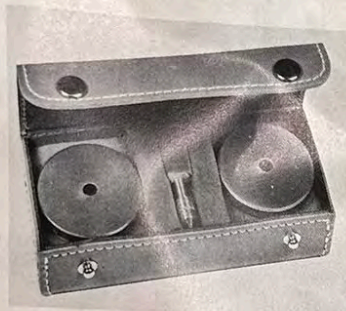
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EXTRA EQUIPMENT

1. **CLARK DIAMOND CONE PENETRATOR** — For "Rockwell Scale Testing" Standard and Superficial.
2. **HARDENED STEEL BALL PENETRATORS, 1/8", 1/4", and 1/2"** with extra balls (not shown — similar to Item No. 1 of Standard Equipment).
3. **MASTER DIAMOND CHECKING SET** — Consists of a master diamond penetrator and two test blocks. Designed to be used only for checking purposes.
4. **DIAMOND HOLDER EXTENSION 4"** — Used to extend diamond penetrator to check deep internal surfaces.
5. **EXTENSION REST** — For testing long cylindrical stock. Second anvil slides to adjust for length of stock being tested.
6. **GOOSENECK ADAPTER 2-1/4"** — Used to test inside walls of rings, tubes or angular parts. Specials supplied upon request. Sketch or part must be furnished.
7. **DIAMOND SPOT ANVIL** — For supporting thin, soft sheet metal in making "Rockwell" Superficial tests.
8. **FLAT TABLE ANVILS, 8", 12" and 14"** — Designed as a work support for large pieces, and for large areas, 8" Flat table shown.
9. **1-1/2" FLAT ANVIL** (not shown — similar to Item No. 3 of Standard Equipment).
10. **3/4" EYEBALL ANVIL** — Designed for checking angular surfaces. Shaped pockets can be ground in the ball to support or accommodate irregular shapes.
11. **3-1/2" VEE ANVIL** — For testing large round and cylindrical parts.
12. **JACK RESTS FOR 8", 12" and 16" TESTERS** — For holding extra long stock. Independent elevating screw corresponds with that on tester. 8" Jack Rest shown.



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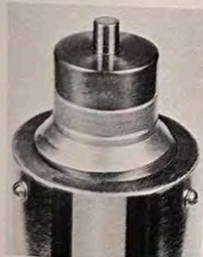
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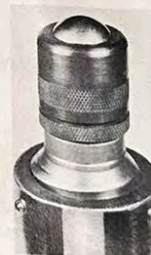
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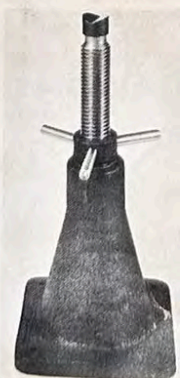
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CLARK INSTRUMENT, INCORPORATED

10200 FORD RD. POST OFFICE BOX 59
DEARBORN, MICH. 48121, AREA CODE (313) 582-3636

CLARK STANDARD TESTER

TESTS HARD AND SOFT STEEL, BRASS, ALUMINUM CAST IRON, COPPER, OTHER METALS, ALLOYS, AND PLASTICS

Model	Vertical Capacity	Throat	Overall Height	Shipping Wt. Approx.	Price
C 8A	8"	7"	29"	160 lbs.	\$830.00
C 12A	12"	7"	34"	165 lbs.	850.00
C 16A	16"	7"	38"	185 lbs.	925.00

CLARK SUPERFICIAL TESTER

TESTS NITRIDED OR LIGHTLY CARBURIZED STEEL, VERY THIN MATERIALS, ROLLED SHEET METAL, OR VERY SMALL AREAS

Model	Vertical Capacity	Throat	Overall Height	Shipping Wt. Approx.	Price
S 8A	8"	7"	29"	155 lbs.	\$840.00
S 12A	12"	7"	34"	160 lbs.	860.00
S 16A	16"	7"	38"	180 lbs.	925.00

STANDARD EQUIPMENT

CLARK HARDNESS TESTER FOR "ROCKWELL TESTING," complete with major and minor load beams; minor load tension adjustment; dial indicating adjustment to maintain correct ratio and accuracy of readings; direct indicating dial prechecked for accuracy at every subdivision; three standard weights; zero-drag tripping lever; fully enclosed elevating screw; supply of test blocks of various hardness grades; and standard equipment as listed below:

- CLARK DIAMOND CONE PENETRATOR for Rockwell testing of hardened steels.
- 1/16" HARDENED STEEL BALL PENETRATOR for Rockwell "B" testing of medium soft metals (with extra balls).
- TEST BLOCKS (4).
- ROLLER BEARING CAPSTAN HANDWHEEL.
- STANDARD 3" ANVIL for large work having a flat bearing surface.
- CHECKING ANVIL has a raised spot of extra hard steel for testing most standard size pieces and for use with test blocks.
- "V" ANVIL is used in testing medium size round and cylindrical parts. 1-1/2" diameter.
- RAISED "V" ANVIL for checking small sizes.
- TELESCOPING COVER FOR ELEVATING SCREW protects threads from dust, grit, and rust.
- 1/2 PINT CAN ELEVATING UNIT OIL.
- 1/2 PINT CAN DASH POT OIL.
- COVER FOR INSTRUMENT is durably made, preserves and protects your CLARK.
- CONVERSION CHART — Installation, operation and maintenance manual.

CLARK INSTRUMENT, INCORPORATED
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