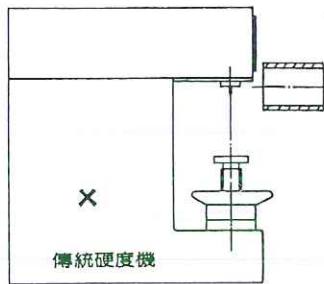


HARDNESS TESTER ENGLAND U.K.



傳統硬度機

傲視全球獨特專利設計  
結構學電子學巧妙結合

專利號碼美國4,104,901

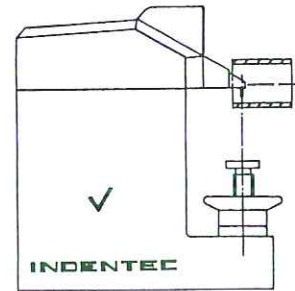
英國1561732

1561733

法國7630911

德國P 2645911-0

還有加拿大、日本、義大利等次級  
工業化國家之專利，恕難一一陳列。



INDENTEC

## INDENTEC機型及系列命名法

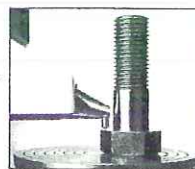
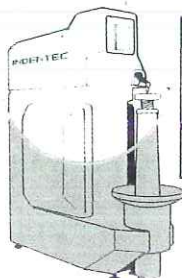
### 機型別

- 4150型 (洛氏硬度型)  
ROCKWELL型氏，總荷重 (10)60 100 150 kgf
- 4045型 (洛氏微硬度型)  
SUPERFICIAL ROCKWELL型式，總荷重 (3) 15 30 45 kgf
- 8150型 (綜合型) 總荷重 (3/10)15 30 45 60 100 150 kgf  
COMBINED ROCKWELL AND SUPERFICIAL ROCKWELL型式

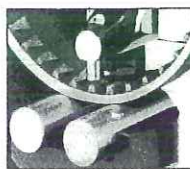
### 系列別

- AK系列、BK系列  
半自動操作，液晶數字顯示。
- LK系列  
半自動操作，微電腦螢光幕顯示。
- SK系列  
自動操作，微電腦螢光幕顯示。

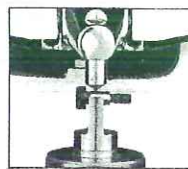
## 獨特優點



測試高張力螺釘  
的壓縮面



測試截斷環內面  
內徑約250mm，這  
個環置放在標準  
圓筒站上



測試套筒螺絲，  
螺絲置放在窄的  
V型站



測試軸承轉動面  
的內部軌道，使  
用矩形鑽石測頭  
—— Indentec特  
別型

## 產品概述：

最大垂直空間距離： 250mm  
喉深 (螺桿中心線至本體)： 150mm  
外型全高： 750mm  
外型全寬： 250mm  
由前至後： 725mm

導螺桿直徑： 76mm  
最大導螺桿延伸機座下： 250mm  
建議桌面高度： 685~762mm  
最小可量測外徑值： 1mm

最小可量測內徑值： 15mm  
鋁合金鑄件機座淨重： 85kg  
毛重： 125kg  
裝箱體積： 0.7m<sup>3</sup>

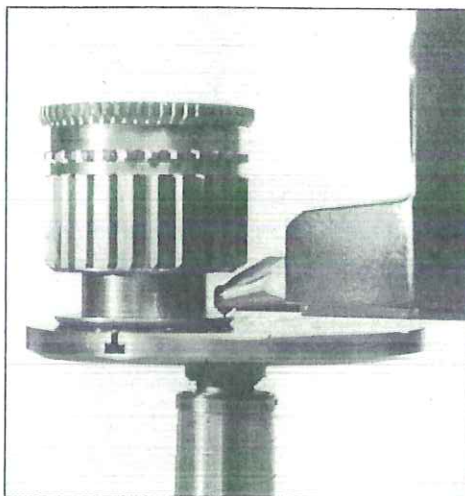
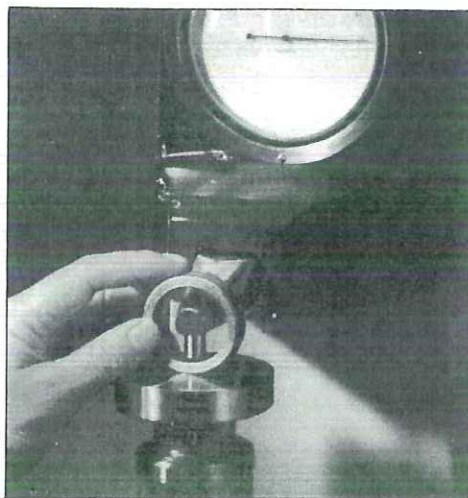
Table 1. Regular Tester

Scale Symbol	Penetrator	Load In Kilograms-force
A*	Brale*	60
B	1/16" ball	100
C	Brale	150
D	Brale	100
E	1/8" ball	100
F	1/16" ball	80
G	1/16" ball	150
H	1/8" ball	80
K	1/8" ball	150
L	1/4" ball	80
M	1/4" ball	100
P	1/4" ball	150
R	1/2" ball	80
S	1/2" ball	100
V	1/2" ball	150

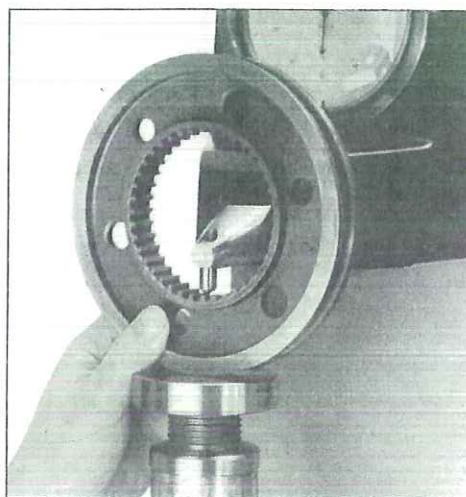
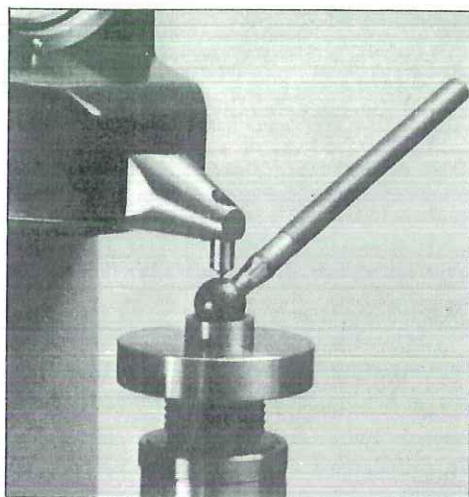
\*Two scales — carbide and steel.

Table 2. Superficial Tester

Scale Symbol	Penetrator	Load In Kilograms-force
15N	N Brale	15
30N	N Brale	30
45N	N Brale	45
15T	1/16" ball	15
30T	1/16" ball	30
45T	1/16" ball	45
15W	1/8" ball	15
30W	1/8" ball	30
45W	1/8" ball	45
15X	1/4" ball	15
30X	1/4" ball	30
45X	1/4" ball	45
15Y	1/2" ball	15
30Y	1/2" ball	30
45Y	1/2" ball	45



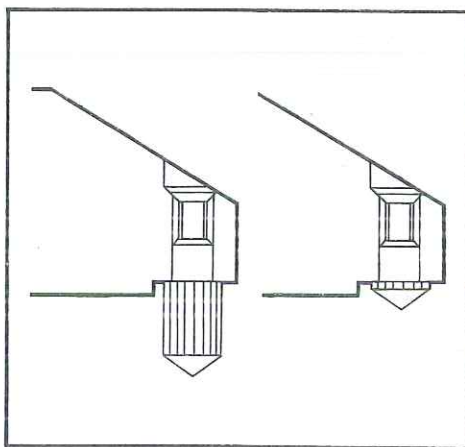
Difficult components but no testing problems:  
(top left) Testing lightly case-hardened track of outer race of ball bearing on a type 4045.  
(top right) Testing the thrust face of a transmission gear on a type 4150.  
(bottom left) Testing the end of a track rod (type 4150).  
(bottom right) Testing a shift hub for a commercial gearbox on a type 8150.



#### FLEXURE DESIGN — FOR CONSISTENT PERFORMANCE

But there's more to the Indentec than that. For consistent repeatability and a long life of sustained high-accuracy testing, the indenter carrier is mounted on a system of crossed flexures. This assures very precise control of indenter motion, eliminating all the usual sources of side play, friction and wear.

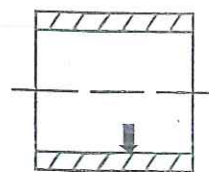
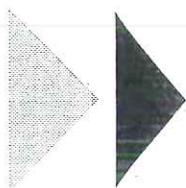
Furthermore, the indenter is anchored solidly into its mounting by a single draw screw. Similar to that used on the Primary Standard Hardness machine at the NPL, this method eliminates errors resulting from microscopic movement of the indenter under load. (A movement of eighty millionths of an inch will give an error of more than one Rockwell division.)



Profile of carrier:  
(left) with standard indenter.  
(right) minimum-length indenter for access to small bores.

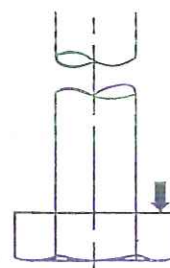
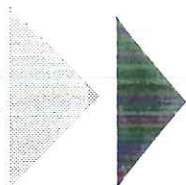


CAN YOU  
TEST  
HERE .....



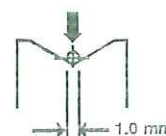
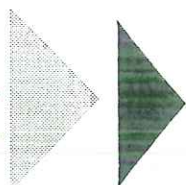
你可以測  
試內孔嗎?

... OR HERE



你可以測  
試L邊嗎?

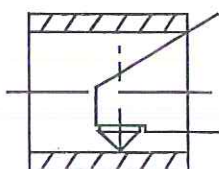
... OR HERE



你可以測試  
 $\phi 1\text{mm}$  圓形嗎?

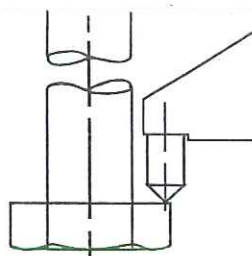


INDENTEC  
可以測內孔



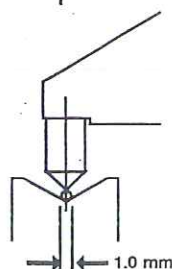
INDENTEC  
CAN . . . !

INDENTEC  
可以測L邊



INDENTEC  
CAN . . . !

INDENTEC 可以  
測  $\phi 1\text{mm}$  圓形



INDENTEC  
CAN . . . !