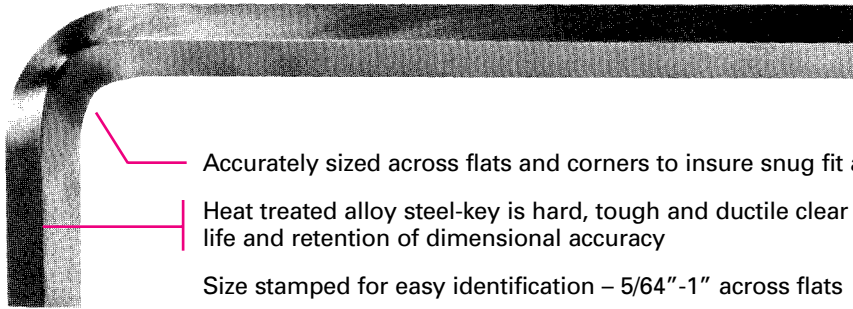


HEX KEYS ■ Dimensions ■ Mechanical Properties ■ Screw Size Table



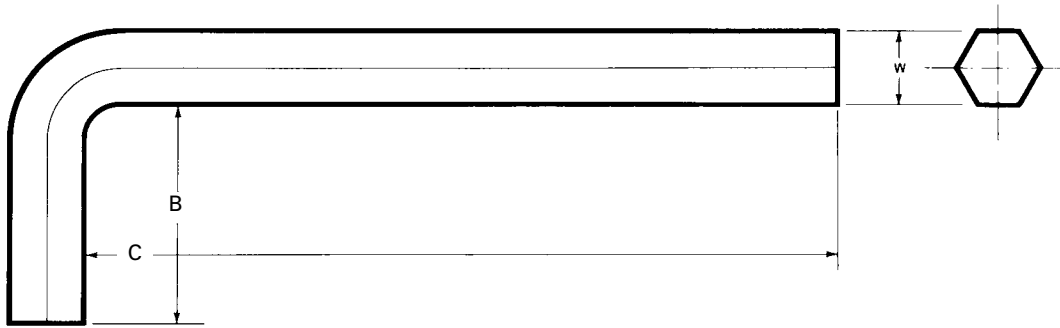
Accurately sized across flats and corners to insure snug fit and full wall contact

Heat treated alloy steel-key is hard, tough and ductile clear through for longer life and retention of dimensional accuracy

Size stamped for easy identification – 5/64"-1" across flats

Square cut end engages the socket full depth for better tightening of screw

GGG-K-275. ANSI B18.3



DIMENSIONS

MECHANICAL PROPERTIES

| key size W | | dash number size page 87 | C length of long arm | | | | B length of short arm | | torsional shear strength inch-lbs. min. | torsional yield inch-lbs. min. |
|---------------|-------|-----------------------------------|-------------------------|--------|-------------|--------|--------------------------|-------|--|--------------------------------------|
| max. | min. | | short series | | long series | | max. | min. | | |
| | | | max. | min. | max. | min. | | | | |
| .028 | .0275 | 1 | 1.312 | 1.125 | 2.688 | 2.500 | .312 | .125 | 1.1 | .9 |
| .035 | .0345 | 2 | 1.312 | 1.125 | 2.766 | 2.578 | .438 | .250 | 2.3 | 2.0 |
| .050 | .049 | 3 | 1.750 | 1.562 | 2.938 | 2.750 | .625 | .438 | 6.5 | 5.6 |
| 1/16 | .0615 | 4 | 1.844 | 1.656 | 3.094 | 2.906 | .656 | .469 | 12.2 | 10.5 |
| 5/64 | .0771 | 5 | 1.969 | 1.781 | 3.281 | 3.094 | .703 | .516 | 25 | 21 |
| 3/32 | .0927 | 6 | 2.094 | 1.906 | 3.469 | 3.281 | .750 | .562 | 43 | 35 |
| 7/64 | .1079 | 7 | 2.219 | 2.031 | 3.656 | 3.469 | .797 | .609 | 68 | 60 |
| 1/8 | .1235 | 8 | 2.344 | 2.156 | 3.844 | 3.656 | .844 | .656 | 98 | 85 |
| 9/64 | .1391 | 9 | 2.469 | 2.281 | 4.031 | 3.844 | .891 | .703 | 146 | 125 |
| 5/32 | .1547 | 10 | 2.594 | 2.406 | 4.219 | 4.031 | .938 | .750 | 195 | 165 |
| 3/16 | .1860 | 11 | 2.844 | 2.656 | 4.594 | 4.406 | 1.031 | .844 | 342 | 295 |
| 7/32 | .2172 | 12 | 3.094 | 2.906 | 4.969 | 4.781 | 1.125 | .938 | 535 | 460 |
| 1/4 | .2485 | 13 | 3.344 | 3.156 | 5.344 | 5.156 | 1.219 | 1.031 | 780 | 670 |
| 5/16 | .3110 | 14 | 3.844 | 3.656 | 6.094 | 5.906 | 1.344 | 1.156 | 1,600 | 1,370 |
| 3/8 | .3735 | 15 | 4.344 | 4.156 | 6.844 | 6.656 | 1.469 | 1.281 | 2,630 | 2,260 |
| 7/16 | .4355 | 16 | 4.844 | 4.656 | 7.594 | 7.406 | 1.594 | 1.406 | 4,500 | 3,870 |
| 1/2 | .4975 | 17 | 5.344 | 5.156 | 8.344 | 8.156 | 1.719 | 1.531 | 6,300 | 5,420 |
| 9/16 | .5600 | 18 | 5.844 | 5.656 | 9.094 | 8.906 | 1.844 | 1.656 | 8,900 | 7,650 |
| 5/8 | .6225 | 19 | 6.344 | 6.156 | 9.844 | 9.656 | 1.969 | 1.781 | 12,200 | 10,500 |
| 3/4 | .7470 | 20 | 7.344 | 7.156 | 11.344 | 11.156 | 2.219 | 2.031 | 19,500 | 16,800 |
| 7/8 | .8720 | 21 | 8.344 | 8.156 | 12.844 | 12.656 | 2.469 | 2.281 | 29,000 | 24,900 |
| 1 | .9970 | 22 | 9.344 | 9.156 | 14.344 | 14.156 | 2.719 | 2.531 | 43,500 | 37,400 |
| 1 1/4 | 1.243 | 23 | 11.500 | 11.000 | | | 3.250 | 2.750 | 71,900 | 62,500 |
| 1 1/2 | 1.493 | 24 | 13.500 | 13.000 | | | 3.750 | 3.250 | 124,000 | 108,000 |
| 1 3/4 | 1.743 | 25 | 15.500 | 15.000 | | | 4.250 | 3.750 | 198,000 | 172,000 |
| 2 | 1.993 | 26 | 17.500 | 17.000 | | | 4.750 | 4.250 | 276,000 | 240,000 |

HEXAGON KEYS

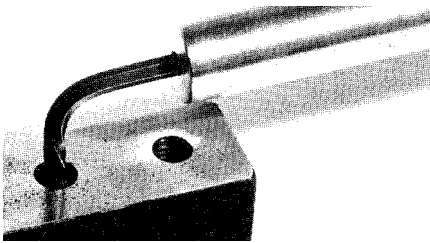
Why UNBRAKO keys tighten socket screws tighter, safely

An UNBRAKO key is not an ordinary hexagon key – it is a precision internal wrenching tool of great strength and ductility. With an UNBRAKO key, far more tightening torque than is needed can be applied without damaging the screw or the key, and it can be done safely. This is an important feature, especially true of the smaller sizes (5/32" and under) which are normally held in the hand.

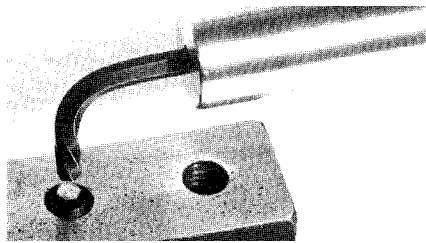
Photographs of a destruction test show what we mean. Under excessive torque a 5/64" UNBRAKO key twists but does not shear until a torque has been reached that is approximately 20% greater than can be applied with an ordinary key. At this point it shears off clean, flush with the top of the socket, leaving no jagged edge to gash a hand.

Still the UNBRAKO screw has not been harmed. The broken piece of the key is not wedged into the socket. It can be lifted out with a small magnet, convincing proof that the socket has not been reamed or otherwise damaged.

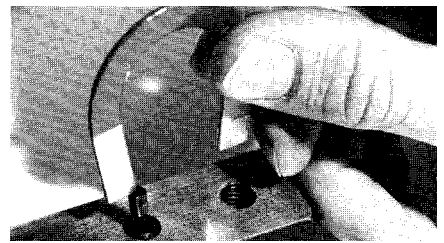
NOTE: The use of an extension in these illustrations is for demonstration purposes only. The manufacturer does not recommend the use of extensions with any hex key product under normal conditions.



A 5/64" UNBRAKO key will twist up to 180° without weakening.



Twisted to about 270°, the key shears off clean. Note the extension bar illustrated for test purposes only.



The socket hasn't been reamed or damaged. Broken section can be lifted out with a magnet.

SCREW SIZE SELECTOR TABLE

| | 1960 Series socket head cap screws | button head screws | flat head screws | shoulder screws | low heads and socket set screws | pressure* plugs |
|--|------------------------------------|----------------------|--------------------------|-------------------|---------------------------------|-------------------|
| | #0 | #0 #1,#2 | #0 #1,#2 | | #0 #1, #2 #3, #4 | |
| | #1 #2,#3 #4,#5 | #3,#4 #5,#6 #8 | #3, #4 #5,#6 #8 | | #5,#6 #8 #10 | |
| | #6 #8 | #10 | #10 | 1/4 | 1/4 | |
| | #10 1/4 | 1/4 5/16 3/8 | 1/4 5/16 3/8 | 5/16 3/8 | 5/16 3/8 7/16 | 1/16 1/8 |
| | 5/16 3/8 7/16,1/2 | 1/2 5/8 | 7/16 1/2, 9/16 5/8 | 1/2 5/8 3/4 | 1/2 5/8 3/4 | 1/4 3/8 1/2 |
| | 9/16 5/8 | | 3/4 7/8 | 7/8, 1 | 7/8 1, 1/8 | 3/4 |
| | 3/4 7/8,1 1 1/8, 1 1/4 | | 1 | 1 1/4 1 1/2 | 1 1/4, 1 3/8 1 1/2 | 1 1-1/4, 1-1/2 |
| | 1 3/8, 1 1/2 1 3/4 2 | | | 1 3/4 2 | | 1/2,2 |
| | 2 1/4, 2 1/2 2 3/4 | | | | | |

NOTES

Material: ANSI B18.3, alloy steel

Heat treat: Rc 47-57