

HI-LO[®] AND HI-LO[®] PLUS[™] FASTENERS DRIVE/STRIP TORQUES

SCREWS FOR PLASTIC AND OTHER LOW DENSITY MATERIALS

Because the Hi-Lo screw and the Hi-Lo Plus screw displace less material when driven, they require lower driving torques. As more material remains between the threads, both types of screws absorb more torque without stripping. With this dramatic increase in the safe driving range (drive vs. strip torque), these screws can be driven easily and consistently without stripping problems and without constant fine tuning of power drivers.

The Hi-Lo Plus fastener, with both high and low sharper angle threads, has the greatest ability to absorb driving torques and consequently the greatest safe driving range.

3/8 ABS

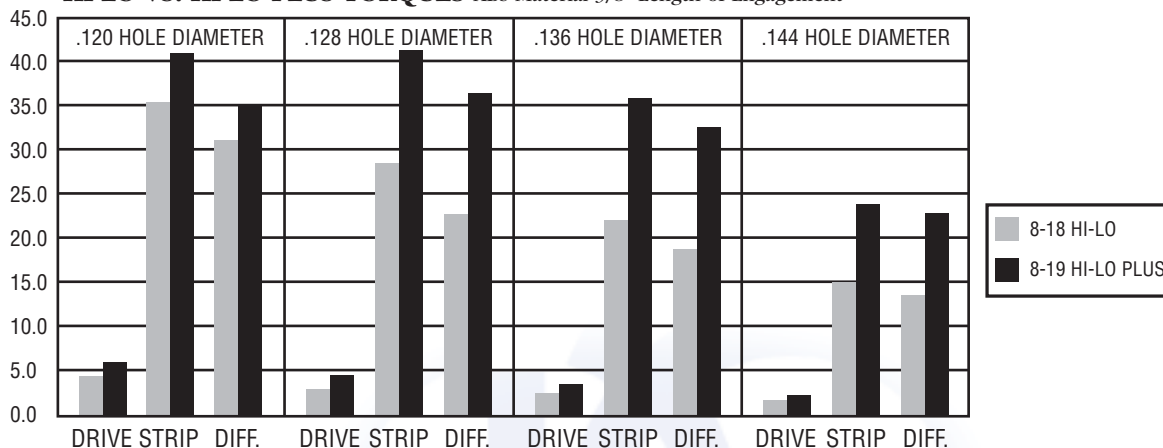
| SCREW SIZE | .120 HOLE DIAMETER | | | .128 HOLE DIAMETER | | | .136 HOLE DIAMETER | | | .144 HOLE DIAMETER | | | .152 HOLE DIAMETER | | |
|------------|--------------------|-------|-------|--------------------|-------|-------|--------------------|-------|-------|--------------------|-------|-------|--------------------|-------|-------|
| | DRIVE | STRIP | DIFF. | DRIVE | STRIP | DIFF. | DRIVE | STRIP | DIFF. | DRIVE | STRIP | DIFF. | DRIVE | STRIP | DIFF. |
| 7-19 HILO | 3.7 | 24.6 | 20.9 | 2.8 | 20.7 | 17.9 | | | | | | | | | |
| 7-21 PLUS | 5.1 | 33.3 | 28.2 | 4.0 | 31.0 | 27.0 | 2.5 | 23.2 | 20.7 | | | | | | |
| 8-18 HILO | 4.1 | 35.4 | 31.3 | 2.8 | 26.3 | 23.5 | 2.3 | 21.2 | 18.9 | 1.5 | 15.1 | 13.6 | | | |
| 8-19 PLUS | 5.7 | 40.7 | 35.0 | 4.7 | 41.0 | 36.3 | 3.8 | 35.8 | 32.0 | 2.3 | 24.0 | 21.7 | | | |
| 10-16 HILO | | | | | | | | | | 5.0 | 36.5 | 31.5 | 3.7 | 32.4 | 28.7 |
| 10-18 PLUS | | | | | | | | | | 8.1 | 51.8 | 43.7 | 6.0 | 51.1 | 45.1 |

3/8 NYLON

| SCREW SIZE | .128 HOLE DIAMETER | | | .136 HOLE DIAMETER | | | .144 HOLE DIAMETER | | | .152 HOLE DIAMETER | | |
|------------|--------------------|-------|-------|--------------------|-------|-------|--------------------|-------|-------|--------------------|-------|-------|
| | DRIVE | STRIP | DIFF. | DRIVE | STRIP | DIFF. | DRIVE | STRIP | DIFF. | DRIVE | STRIP | DIFF. |
| 7-19 HILO | 3.6 | 26.1 | 22.5 | 3.0 | 19.2 | 16.2 | | | | | | |
| 7-21 PLUS | 6.7 | 41.6 | 34.9 | 4.3 | 29.5 | 25.2 | | | | | | |
| 8-18 HILO | 6.6 | 35.5 | 28.9 | 5.2 | 30.1 | 24.9 | 3.5 | 19.9 | 16.4 | | | |
| 8-19 PLUS | 10.5 | 54.4 | 43.9 | 7.5 | 48.6 | 41.1 | 4.3 | 33.6 | 29.3 | | | |
| 10-16 HILO | | | | | | | 5.0 | 36.5 | 31.5 | 3.7 | 32.4 | 28.7 |
| 10-18 PLUS | | | | | | | 8.1 | 51.8 | 43.7 | 6.0 | 51.1 | 45.1 |

NOTE: Tests on 4-26 and 6-22 HILO screws, even in thinner materials such as .0995" and .010" thick, showed comparable drive torque/strip torque relationships. Data available on request.

HI-LO VS. HI-LO PLUS TORQUES ABS Material 3/8" Length of Engagement



Note: Hi-Lo and Hi-Lo Plus are registered trademarks of Illinois Tool Works Incorporated.