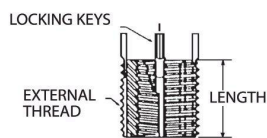


## KEY INSERTS – HEAVY DUTY

BODY: 303 STAINLESS STEEL. KEYS: 302 STAINLESS STEEL



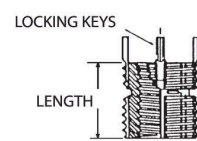
**Heavy Duty –  
Stainless Steel**



Stainless steel version of our general-purpose threaded inserts with a thick, heavy-duty thread wall. Key Inserts are ideal for thread reinforcement, especially when the mating stud or bolt will be removed frequently. These stainless inserts provide strong, permanent stainless steel threads in any parent material, ferrous, non-ferrous, or non-metallic. Key Inserts are also well suited for quick repair of stripped, damaged, or worn threads. Locking keys positively prevent the insert from rotating.



**Heavy Duty –  
Stainless Steel  
Internal-Thread  
Locking**



Stainless Key Inserts are optionally available with “Internal Thread Locking,” which uses a modified internal thread to prevent the installed bolt or stud from rotating. This feature is useful for one-time, permanent installations.

See Technical Information at the beginning of this section for complete installation steps. Key Inserts are installed with standard drills and taps. Important: Use exactly the tap-drill size specified in the tables (slightly larger than the standard tap drill for that thread size). Locking keys are driven down into the parent material during installation, providing a positive mechanical lock against rotation. See tables for optional installation tools.

### KEY INSERTS — HEAVY DUTY, STAINLESS STEEL (INCH)

| PART NO.     | INTERNAL THREAD | EXTERNAL THREAD | LENGTH | SHEAR ENGAGEMENT AREA (sq in) | MS EQUIVALENT | NAS EQUIVALENT |
|--------------|-----------------|-----------------|--------|-------------------------------|---------------|----------------|
| CL-1024-SKS  | #10-24          | 3/8-16          | .31    | .190                          | MS 51831-101  | —              |
| CL-1032-SKS  | #10-32          |                 |        |                               | MS 51831-201  | NAS 1395C3     |
| CL-1420-SKS  | 1/4-20          | 7/16-14         | .37    | .284                          | MS 51831-102  | —              |
| CL-1428-SKS  | 1/4-28          |                 |        |                               | MS 51831-202  | NAS 1395C4     |
| CL-51618-SKS | 5/16-18         | 1/2-13          | .43    | .359                          | MS 51831-103  | —              |
| CL-51624-SKS | 5/16-24         |                 |        |                               | MS 51831-203  | NAS 1395C5     |
| CL-3816-SKS  | 3/8-16          | 9/16-12         | .50    | .498                          | MS 51831-104  | —              |
| CL-3824-SKS  | 3/8-24          |                 |        |                               | MS 51831-204  | NAS 1395C6     |
| CL-1213-SKS  | 1/2-13          | 3/4-16          | .62    | 1.057                         | —             | —              |
| CL-1220-SKS  | 1/2-20          |                 |        |                               | —             | —              |
| CL-5811-SKS  | 5/8-11          | 7/8-14          | .87    | 1.487                         | MS 51831-108  | —              |
| CL-3410-SKS  | 3/4-10          | 1-1/8"-12       | 1.12   | 2.490                         | MS 51831-109  | —              |

### KEY INSERTS — HEAVY DUTY, STAINLESS STEEL (METRIC)

| PART NO.       | INTERNAL<br>THREAD | INTERNAL<br>THREAD<br>PITCH<br>(mm) | EXTERNAL<br>THREAD | EXTERNAL<br>THREAD<br>PITCH<br>(mm) | LENGTH<br>(mm) | SHEAR<br>ENGAGEMENT<br>AREA<br>(sq mm) |
|----------------|--------------------|-------------------------------------|--------------------|-------------------------------------|----------------|--|
| CLM-58-SKSM    | M5                 | .8                                  | M10x1.25           | 1.25                                | 10             | 177                                    |
| CLM-61-SKSM    | M6                 | 1                                   | M12x1.25           |                                     | 12             | 266                                    |
| CLM-8125-SKSM  | M8                 | 1.25                                | M14x1.5            | 1.5                                 | 14             | 342                                    |
| CLM-81-SKSM    | M8x1               | 1                                   |                    |                                     | 16             | 470                                    |
| CLM-1015-SKSM  | M10                | 1.5                                 | M16x1.5            |                                     | 18             | 529                                    |
| CLM-10125-SKSM | M10x1.25           | 1.25                                |                    |                                     |                |  |
| CLM-12175-SKSM | M12                | 1.75                                | M18x1.5            | 2                                   | 30             | 1770                                   |
| CLM-12125-SKSM | M12x1.25           | 1.25                                |                    |                                     | 33             | 2150                                   |
| CLM-162-SKS    | M16                | 2                                   | M22x1.5            |                                     |                |  |
| CLM-2025-SKS   | M20                | 2.5                                 | M30x2              |                                     |                |  |
| CLM-243-SKS    | M24                | 3                                   | M33x2              |                                     |                |  |