

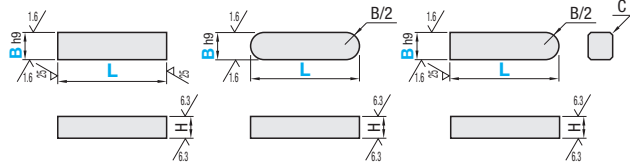
## Parallel Keys



**KED**  
**KEDS** (Stainless Steel)  
**KEDH** (Hardened Type)

**KES**  
**KESS** (Stainless Steel)  
**KESH** (Hardened Type)

**KEG**  
**KEGS** (Stainless Steel)  
**KEGH** (Hardened Type)



| L     | Tolerance         | L       | Tolerance         |
|-------|-------------------|---------|-------------------|
| ~10   | $\frac{0}{-0.18}$ | 81~120  | $\frac{0}{-0.35}$ |
| 11~18 | $\frac{0}{-0.18}$ | 121~180 | $\frac{0}{-0.40}$ |
| 19~30 | $\frac{0}{-0.21}$ | 181~250 | $\frac{0}{-0.46}$ |
| 31~50 | $\frac{0}{-0.25}$ | 251~300 | $\frac{0}{-0.52}$ |
| 51~80 | $\frac{0}{-0.30}$ |         |                   |

| Type           | Material                 | Tensile Strength             |
|----------------|--------------------------|------------------------------|
| KED KES KEG    | EN 1.1191 Equiv.         | 600N/mm <sup>2</sup> or More |
| KEDS KESS KEGS | EN 1.4401 Equiv.         | 600N/mm <sup>2</sup> or More |
| KEDH KESH KEGH | EN 1.1191 Equiv 25-30HRC | 700N/mm <sup>2</sup> or More |

 Hardened Type has an engraved mark for identification.  
 B Dimension/H Dimension conform to B 1301-1996 (New JIS Standard).

| Part Number                                                        |     | L           |    |    |    |    |    |    |    |    |    |    |    |    |    |    | H         |    | C   |      |             |             |      |             |      |
|--------------------------------------------------------------------|-----|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|----|-----|------|-------------|-------------|------|-------------|------|
| Type                                                               | Bh9 |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Tolerance |    |     |      |             |             |      |             |      |
| KED<br>KES<br>KEG<br><br>(Stainless Steel)<br>KEDS<br>KESS<br>KEGS | 2   | 0           | 6  | 8  | 10 | 15 | 20 |    |    |    |    |    |    |    |    |    |           | 2  | 0   | 0.16 |             |             |      |             |      |
|                                                                    | 3   | -0.025      | 6  | 8  | 10 | 12 | 15 | 16 | 18 | 20 | 25 | 30 |    |    |    |    |           |    |     |      |             |             | 3    | -0.025      | 0.25 |
|                                                                    | 4   | 0<br>-0.030 | 8  | 10 | 12 | 15 | 16 | 18 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |    |           |    |     |      | 4           | 0<br>-0.030 | 0.25 |             |      |
|                                                                    | 5   |             | 10 | 12 | 15 | 16 | 18 | 20 | 22 | 25 | 28 | 30 | 32 | 35 | 40 | 45 | 50        | 55 | 60  | 5    | 0.25        |             |      |             |      |
|                                                                    | 6   | 0<br>-0.030 | 10 | 12 | 15 | 16 | 18 | 20 | 22 | 25 | 28 | 30 | 32 | 35 | 40 | 45 | 50        | 55 | 60  | 6    | 0<br>-0.036 | 0.40        |      |             |      |
|                                                                    | 7   |             | 15 | 20 | 22 | 25 | 28 | 30 | 32 | 35 | 40 | 45 | 50 | 60 | 70 |    |           |    |     |      |             | 7           | 0.40 |             |      |
|                                                                    | 8   | -0.036      | 10 | 12 | 15 | 16 | 18 | 20 | 22 | 25 | 28 | 30 | 32 | 35 | 40 | 45 | 50        | 55 | 60  | 65   | 70          | 80          | 90   | 0<br>-0.090 | 0.40 |
|                                                                    | 10  | 15          | 16 | 18 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 80 | 90        | 8  |     |      |             |             |      |             |      |
|                                                                    | 12  | 0<br>-0.043 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 80 | 90 | 9  |           |    |     |      |             |             |      |             |      |
|                                                                    | 14  |             | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 80 | 90 | 10 |    |    |           |    |     |      |             |             |      |             |      |
|                                                                    | 15  |             | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 70 | 80 | 90 | 10 |    |    |    |           |    |     |      |             |             |      |             |      |
|                                                                    | 16  | 0<br>-0.043 |    |    |    |    |    |    |    |    |    |    | 40 | 45 | 50 | 55 | 60        | 70 | 80  | 90   | 100         | 0<br>-0.110 | 0.60 |             |      |
| 18                                                                 |     |             |    |    |    |    |    |    |    |    | 40 | 45 | 50 | 55 | 60 | 70 | 80        | 90 | 100 | 110  |             |             |      |             |      |



Ordering Example: **Part Number** - **L**  
**KED6** - **30**

| Part Number                                                  |             |             |    |    |    |    |    |    |    |             |              |    | H           |              | C            |    |    |
|--------------------------------------------------------------|-------------|-------------|----|----|----|----|----|----|----|-------------|--------------|----|-------------|--------------|--------------|----|----|
| Type                                                         | Bh9         |             | L  |    |    |    |    |    |    |             |              |    | Tolerance   |              |              |    |    |
| <div>(Hardened Type)</div> <div>KEDH<br/>KESH<br/>KEGH</div> | 4           | 0<br>-0.030 | 8  | 10 | 12 | 15 | 16 | 20 | 25 | 30          |              | 4  | 0<br>-0.030 | 0.16<br>0.25 |              |    |    |
|                                                              | 5           |             | 10 | 12 | 15 | 16 | 20 | 25 | 26 | 28          | 30           | 32 |             | 35           | 40           | 45 | 50 |
|                                                              | 6           |             | 10 | 15 | 16 | 20 | 25 | 26 | 28 | 30          | 32           | 35 |             | 40           | 45           | 50 |    |
|                                                              | 7           | 0<br>-0.036 | 15 | 20 | 25 | 26 | 28 | 30 | 32 | 35          | 40           | 45 | 50          | 0<br>-0.036  | 0.25<br>0.40 |    |    |
|                                                              | 8           |             | 15 | 20 | 25 | 26 | 28 | 30 | 32 | 35          | 40           | 45 | 50          |              |              |    |    |
|                                                              | 10          |             | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50          |              |    |             |              |              |    |    |
| 12                                                           | 0<br>-0.043 | 20          | 25 | 30 | 35 | 40 | 45 | 50 | 8  | 0<br>-0.090 | 0.40<br>0.60 |    |             |              |              |    |    |

Ordering Example

Part Number

KESH6

-

L

-

30



Ordering Example 

|             |   |    |
|-------------|---|----|
| Part Number | - | L  |
| KESH6       | - | 30 |

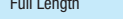
| B  | KED, KES, KEG |        |          |         | KEDS, KESS, KEKS |        |          |         | KEDH, KESH, KEKH |        |          |         |
|----|---------------|--------|----------|---------|------------------|--------|----------|---------|------------------|--------|----------|---------|
|    | Unit Price    | Volume | Discount | Rate    | Unit Price       | Volume | Discount | Rate    | Unit Price       | Volume | Discount | Rate    |
|    | 1 - 3 pc(s)   | 4-19   | 20-100   | 101-400 | 1 - 3 pc(s)      | 4-19   | 20-100   | 101-400 | 1 - 3 pc(s)      | 4-19   | 20-100   | 101-400 |
| 2  |               |        |          |         |                  |        |          |         |                  |        |          |         |
| 3  |               |        |          |         |                  |        |          |         | -                | -      | -        | -       |
| 4  |               |        |          |         |                  |        |          |         | -                | -      | -        | -       |
| 5  |               |        |          |         |                  |        |          |         |                  |        |          |         |
| 6  |               |        |          |         |                  |        |          |         |                  |        |          |         |
| 7  |               |        |          |         |                  |        |          |         |                  |        |          |         |
| 8  |               |        |          |         |                  |        |          |         |                  |        |          |         |
| 10 |               |        |          |         |                  |        |          |         |                  |        |          |         |
| 12 |               |        |          |         |                  |        |          |         |                  |        |          |         |
| 14 |               |        |          |         |                  |        |          |         | -                | -      | -        | -       |
| 15 |               |        |          |         |                  |        |          |         | -                | -      | -        | -       |
| 16 |               |        |          |         |                  |        |          |         | -                | -      | -        | -       |
| 18 |               |        |          |         |                  |        |          |         | -                | -      | -        | -       |



Part Number - L(LC)  
KED6 - LC28



### Alterations

| Alteration                                                                                         | Code     | Spec.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |          |   |          |   |      |    |        |   |      |    |        |   |      |    |        |   |      |    |        |   |       |    |        |   |       |    |        |   |       |  |  |
|----------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|---|----------|---|------|----|--------|---|------|----|--------|---|------|----|--------|---|------|----|--------|---|-------|----|--------|---|-------|----|--------|---|-------|--|--|
| Full Length<br> | LC       | Cuts L dimension in 1mm increment. <table><tr><th>B</th><th>LC Range</th><th>B</th><th>LC Range</th></tr><tr><td>2</td><td>5-20</td><td>10</td><td>15~ 80</td></tr><tr><td>3</td><td>6-30</td><td>12</td><td>20~ 80</td></tr><tr><td>4</td><td>8-50</td><td>14</td><td>25~ 90</td></tr><tr><td>5</td><td>8-50</td><td>15</td><td>25~ 90</td></tr><tr><td>6</td><td>10-60</td><td>16</td><td>35-100</td></tr><tr><td>7</td><td>15-60</td><td>18</td><td>35-110</td></tr><tr><td>8</td><td>15-80</td><td></td><td></td></tr></table> | B        | LC Range | B | LC Range | 2 | 5-20 | 10 | 15~ 80 | 3 | 6-30 | 12 | 20~ 80 | 4 | 8-50 | 14 | 25~ 90 | 5 | 8-50 | 15 | 25~ 90 | 6 | 10-60 | 16 | 35-100 | 7 | 15-60 | 18 | 35-110 | 8 | 15-80 |  |  |
| B                                                                                                  | LC Range | B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | LC Range |          |   |          |   |      |    |        |   |      |    |        |   |      |    |        |   |      |    |        |   |       |    |        |   |       |    |        |   |       |  |  |
| 2                                                                                                  | 5-20     | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 15~ 80   |          |   |          |   |      |    |        |   |      |    |        |   |      |    |        |   |      |    |        |   |       |    |        |   |       |    |        |   |       |  |  |
| 3                                                                                                  | 6-30     | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 20~ 80   |          |   |          |   |      |    |        |   |      |    |        |   |      |    |        |   |      |    |        |   |       |    |        |   |       |    |        |   |       |  |  |
| 4                                                                                                  | 8-50     | 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 25~ 90   |          |   |          |   |      |    |        |   |      |    |        |   |      |    |        |   |      |    |        |   |       |    |        |   |       |    |        |   |       |  |  |
| 5                                                                                                  | 8-50     | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 25~ 90   |          |   |          |   |      |    |        |   |      |    |        |   |      |    |        |   |      |    |        |   |       |    |        |   |       |    |        |   |       |  |  |
| 6                                                                                                  | 10-60    | 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 35-100   |          |   |          |   |      |    |        |   |      |    |        |   |      |    |        |   |      |    |        |   |       |    |        |   |       |    |        |   |       |  |  |
| 7                                                                                                  | 15-60    | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 35-110   |          |   |          |   |      |    |        |   |      |    |        |   |      |    |        |   |      |    |        |   |       |    |        |   |       |    |        |   |       |  |  |
| 8                                                                                                  | 15-80    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |          |   |          |   |      |    |        |   |      |    |        |   |      |    |        |   |      |    |        |   |       |    |        |   |       |    |        |   |       |  |  |

## Parallel Keys

## Configurable

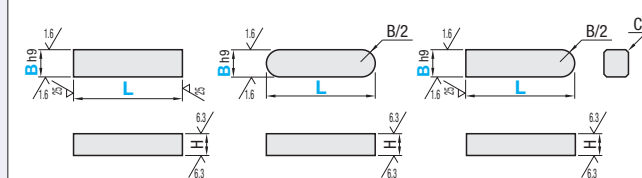


■ **Parallel Keys Configurable**

**KEDF**

**KESF**

KEGF



| L     | Tolerance         | L       | Tolerance         |
|-------|-------------------|---------|-------------------|
| ~10   | $\frac{0}{-0.18}$ | 81~120  | $\frac{0}{-0.35}$ |
| 11~18 | $\frac{0}{-0.18}$ | 121~180 | $\frac{0}{-0.40}$ |
| 19~30 | $\frac{0}{-0.21}$ | 181~250 | $\frac{0}{-0.46}$ |
| 31~50 | $\frac{0}{-0.25}$ | 251~300 | $\frac{0}{-0.52}$ |
| 51~80 | $\frac{0}{-0.30}$ |         |                   |

📍 If requested items cannot be found in Standard Type (P249), please use Configurable Type.  
B Dimension/H Dimension conform to B 1301-1996 (New JIS Standard).

| Type           | <b>M</b> Material | Tensile Strength             |
|----------------|-------------------|------------------------------|
| KEDF KESF KEGF | EN 1.1191 Equiv.  | 600N/mm <sup>2</sup> or More |

[illegible]

|                  |             |   |    |
|------------------|-------------|---|----|
| Ordering Example | Part Number | - | L  |
|                  | KEGF2       | - | 12 |

[illegible]

|                  |             |   |     |
|------------------|-------------|---|-----|
| Ordering Example | Part Number | - | L   |
|                  | KEGE28      | - | 120 |