

# Rectangular & square punches

sized for heavy multi-pin industrial connectors and icotek cable entry systems



Rectangular and square punches and dies make it easy to punch holes into stainless steel (V2A versions), mild steel, aluminium or plastics with a max. sheet thickness of 2 mm. Available for cut-outs sizes of 10-, 16-, and 24- multi-pin heavy industrial connectors and also for numerous special cut-outs. Therefore, the punches are suitable for most icotek cable entry systems. Centre punches are integrated in the die for exact drilling of mounting holes.

The punches are for hydraulic operation only.

**Scope of delivery:**

- Punch, die, draw stud and counter nut
- robust plastic storage case (depending on size and weight)

**Note!** The following punches are only to be used with hydraulic foot pump (order no. 80002):

- 65×113 (order no. 80074)
- 68×138 (order no. 80094)
- 91×117 (order no. 80066)
- 92×92 (order no. 80060)
- 125×125 (order no. 80063)
- 68×68 (order no. 80064)
- 138×138 (order no. 80086)

## Specifications

|          |                               |
|----------|-------------------------------|
| Material | Steel, hardened and burnished |
|----------|-------------------------------|

## Advantages & benefits

- Centre punches for exact drilling of mounting holes
- Robust plastic storage case
- Suitable for hand hydraulic punch driver by icotek and other manufacturers

## Product types & sizes

Punch 24



|                |                     |                 |                      |
|----------------|---------------------|-----------------|----------------------|
| Part No.       | <b>80053</b>        | Punching        | <b>Plastic, Mild</b> |
| EAN            | <b>4251269316</b>   | material        | <b>steel (St)</b>    |
|                | <b>289</b>          | Max. wall       | <b>2 mm</b>          |
| Package        | <b>1</b>            | thickness       |                      |
| quantity       |                     | Suitable draw   | <b>80209</b>         |
| Number of      | <b>4</b>            | stud            |                      |
| centre         |                     | Suitable        | <b>80211</b>         |
| punches        |                     | counter nut     |                      |
| Cut-out size   | <b>112 × 36 mm</b>  | Suitable centre | <b>80065</b>         |
| Suitable for   | <b>KEL-ER 24,</b>   | punches         |                      |
| cable entry    | <b>KEL 24, KEL-</b> |                 |                      |
| systems:       | <b>U 24, KEL-FA</b> |                 |                      |
|                | <b>24, KEL-FG</b>   |                 |                      |
|                | <b>A, KEL-FG-ER</b> |                 |                      |
|                | <b>A, KEL-</b>      |                 |                      |
|                | <b>QUICK 24,</b>    |                 |                      |
|                | <b>KEL-QTA 24,</b>  |                 |                      |
|                | <b>KEL-BES 24,</b>  |                 |                      |
|                | <b>KEL-BES-S</b>    |                 |                      |
|                | <b>24, KEL-DPZ</b>  |                 |                      |
|                | <b>24, KEL-DPU</b>  |                 |                      |
|                | <b>24, KEL-DPU-</b> |                 |                      |
|                | <b>HD 24, KEL-</b>  |                 |                      |
|                | <b>DP 24</b>        |                 |                      |
| For cut-out of | <b>24-pin</b>       |                 |                      |
| connector      |                     |                 |                      |

Punch 24 V2A



|                |                     |                 |                    |
|----------------|---------------------|-----------------|--------------------|
| Part No.       | <b>80153</b>        | Punching        | <b>Stainless</b>   |
| EAN            | <b>4251269316</b>   | material        | <b>steel (V2A)</b> |
|                | <b>456</b>          | Max. wall       | <b>2 mm</b>        |
| Package        | <b>1</b>            | thickness       |                    |
| quantity       |                     | Suitable draw   | <b>80209</b>       |
| Number of      | <b>4</b>            | stud            |                    |
| centre         |                     | Suitable        | <b>80211</b>       |
| punches        |                     | counter nut     |                    |
| Cut-out size   | <b>112 × 36 mm</b>  | Suitable centre | <b>80065</b>       |
| Suitable for   | <b>KEL-ER 24,</b>   | punches         |                    |
| cable entry    | <b>KEL 24, KEL-</b> |                 |                    |
| systems:       | <b>U 24, KEL-FA</b> |                 |                    |
|                | <b>24, KEL-FG</b>   |                 |                    |
|                | <b>A, KEL-FG-ER</b> |                 |                    |
|                | <b>A, KEL-</b>      |                 |                    |
|                | <b>QUICK 24,</b>    |                 |                    |
|                | <b>KEL-QTA 24,</b>  |                 |                    |
|                | <b>KEL-BES 24,</b>  |                 |                    |
|                | <b>KEL-BES-S</b>    |                 |                    |
|                | <b>24, KEL-DPZ</b>  |                 |                    |
|                | <b>24, KEL-DPU</b>  |                 |                    |
|                | <b>24, KEL-DPU-</b> |                 |                    |
|                | <b>HD 24, KEL-</b>  |                 |                    |
|                | <b>DP 24</b>        |                 |                    |
| For cut-out of | <b>24-pin</b>       |                 |                    |
| connector      |                     |                 |                    |

Punch 24-XL



|              |                      |                 |              |
|--------------|----------------------|-----------------|--------------|
| Part No.     | <b>80054</b>         | Max. wall       | <b>2 mm</b>  |
| EAN          | <b>4251269316</b>    | thickness       |              |
|              | <b>296</b>           | Suitable draw   | <b>80209</b> |
| Package      | <b>1</b>             | stud            |              |
| quantity     |                      | Suitable        | <b>80211</b> |
| Number of    | <b>4</b>             | counter nut     |              |
| centre       |                      | Suitable centre | <b>80065</b> |
| punches      |                      | punches         |              |
| Cut-out size | <b>112 × 46 mm</b>   |                 |              |
| Suitable for | <b>KEL-ER 24,</b>    |                 |              |
| cable entry  | <b>KEL 24, KEL-</b>  |                 |              |
| systems:     | <b>U 24, KEL-FA</b>  |                 |              |
|              | <b>24, KEL-FG</b>    |                 |              |
|              | <b>A, KEL-FG-ER</b>  |                 |              |
|              | <b>A, KEL-</b>       |                 |              |
|              | <b>QUICK 24,</b>     |                 |              |
|              | <b>KEL-BES 24,</b>   |                 |              |
|              | <b>KEL-BES-S</b>     |                 |              |
|              | <b>24, KEL-DPZ</b>   |                 |              |
|              | <b>24, KEL-DPU</b>   |                 |              |
|              | <b>24, KEL-DPU-</b>  |                 |              |
|              | <b>HD 24</b>         |                 |              |
| Punching     | <b>Plastic, Mild</b> |                 |              |
| material     | <b>steel (St)</b>    |                 |              |

Punch 24-XL V2A



|              |                      |                 |              |
|--------------|----------------------|-----------------|--------------|
| Part No.     | <b>80154</b>         | Max. wall       | <b>2 mm</b>  |
| EAN          | <b>4251269316463</b> | thickness       |              |
| Package      | <b>1</b>             | Suitable draw   | <b>80209</b> |
| quantity     |                      | stud            |              |
| Number of    | <b>4</b>             | Suitable        | <b>80211</b> |
| centre       |                      | counter nut     |              |
| punches      |                      | Suitable centre | <b>80065</b> |
| Cut-out size | <b>112 × 46 mm</b>   | punches         |              |
| Suitable for | <b>KEL-ER 24,</b>    |                 |              |
| cable entry  | <b>KEL 24, KEL-</b>  |                 |              |
| systems:     | <b>U 24, KEL-FA</b>  |                 |              |
|              | <b>24, KEL-FG</b>    |                 |              |
|              | <b>A, KEL-FG-ER</b>  |                 |              |
|              | <b>A, KEL-</b>       |                 |              |
|              | <b>QUICK 24,</b>     |                 |              |
|              | <b>KEL-BES 24,</b>   |                 |              |
|              | <b>KEL-BES-S</b>     |                 |              |
|              | <b>24, KEL-DPZ</b>   |                 |              |
|              | <b>24, KEL-DPU</b>   |                 |              |
|              | <b>24, KEL-DPU-</b>  |                 |              |
|              | <b>HD 24</b>         |                 |              |
| Punching     | <b>Stainless</b>     |                 |              |
| material     | <b>steel (V2A)</b>   |                 |              |

Punch KEA 24



|              |                      |                 |              |
|--------------|----------------------|-----------------|--------------|
| Part No.     | <b>80101</b>         | Max. wall       | <b>2 mm</b>  |
| EAN          |                      | thickness       |              |
| Package      | <b>1</b>             | Suitable draw   | <b>80209</b> |
| quantity     |                      | stud            |              |
| Number of    | <b>4</b>             | Suitable        | <b>80211</b> |
| centre       |                      | counter nut     |              |
| punches      |                      | Suitable centre | <b>80065</b> |
| Cut-out size | <b>112 × 56 mm</b>   | punches         |              |
| Suitable for | <b>KEA 24 W90</b>    |                 |              |
| cable entry  | <b>S, KEA 24</b>     |                 |              |
| systems:     | <b>W90 R</b>         |                 |              |
| Punching     | <b>Plastic, Mild</b> |                 |              |
| material     | <b>steel (St)</b>    |                 |              |

Punch KEA 24 V2A



|                                   |                                   |                         |              |
|-----------------------------------|-----------------------------------|-------------------------|--------------|
| Part No.                          | <b>80225</b>                      | Max. wall thickness     | <b>2 mm</b>  |
| EAN                               |                                   | Suitable draw stud      | <b>80209</b> |
| Package quantity                  | <b>1</b>                          | Suitable counter nut    | <b>80211</b> |
| Number of centre punches          | <b>4</b>                          | Suitable centre punches | <b>80065</b> |
| Cut-out size                      | <b>112 × 56 mm</b>                |                         |              |
| Suitable for cable entry systems: | <b>KEA 24 W90 S, KEA 24 W90 R</b> |                         |              |
| Punching material                 | <b>Stainless steel (V2A)</b>      |                         |              |

Punch 24-E



|                                   |                      |                      |                                 |
|-----------------------------------|----------------------|----------------------|---------------------------------|
| Part No.                          | <b>80061</b>         | Punching material    | <b>Plastic, Mild steel (St)</b> |
| EAN                               | <b>4251269318757</b> | Max. wall thickness  | <b>2 mm</b>                     |
| Package quantity                  | <b>1</b>             | Suitable draw stud   | <b>80209</b>                    |
| Number of centre punches          | <b>-</b>             | Suitable counter nut | <b>80211</b>                    |
| Cut-out size                      | <b>112 × 66 mm</b>   |                      |                                 |
| Suitable for cable entry systems: | <b>KEL 24-E</b>      |                      |                                 |
| For cut-out of connector          | <b>32-pin</b>        |                      |                                 |

Punch 16



|                |                     |                 |                      |
|----------------|---------------------|-----------------|----------------------|
| Part No.       | <b>80052</b>        | Punching        | <b>Plastic, Mild</b> |
| EAN            | <b>4251269316</b>   | material        | <b>steel (St)</b>    |
|                | <b>272</b>          | Max. wall       | <b>2 mm</b>          |
| Package        | <b>1</b>            | thickness       |                      |
| quantity       |                     | Suitable draw   | <b>80209</b>         |
| Number of      | <b>4</b>            | stud            |                      |
| centre         |                     | Suitable        | <b>80211</b>         |
| punches        |                     | counter nut     |                      |
| Cut-out size   | <b>86 × 36 mm</b>   | Suitable centre | <b>80065</b>         |
| Suitable for   | <b>KEL-ER 16,</b>   | punches         |                      |
| cable entry    | <b>KEL 16, KEL-</b> |                 |                      |
| systems:       | <b>U 16, KEL-FA</b> |                 |                      |
|                | <b>16, KEL-</b>     |                 |                      |
|                | <b>QUICK 16,</b>    |                 |                      |
|                | <b>KEL-BES 16,</b>  |                 |                      |
|                | <b>KEL-BES-S</b>    |                 |                      |
|                | <b>16, KEL-DPZ</b>  |                 |                      |
|                | <b>16, KEL-DP</b>   |                 |                      |
|                | <b>16</b>           |                 |                      |
| For cut-out of | <b>16-pin</b>       |                 |                      |
| connector      |                     |                 |                      |

Punch 16 V2A



|                |                     |                 |                    |
|----------------|---------------------|-----------------|--------------------|
| Part No.       | <b>80152</b>        | Punching        | <b>Stainless</b>   |
| EAN            | <b>4251269316</b>   | material        | <b>steel (V2A)</b> |
|                | <b>449</b>          | Max. wall       | <b>2 mm</b>        |
| Package        | <b>1</b>            | thickness       |                    |
| quantity       |                     | Suitable draw   | <b>80209</b>       |
| Number of      | <b>4</b>            | stud            |                    |
| centre         |                     | Suitable        | <b>80211</b>       |
| punches        |                     | counter nut     |                    |
| Cut-out size   | <b>86 × 36 mm</b>   | Suitable centre | <b>80065</b>       |
| Suitable for   | <b>KEL-ER 16,</b>   | punches         |                    |
| cable entry    | <b>KEL 16, KEL-</b> |                 |                    |
| systems:       | <b>U 16, KEL-FA</b> |                 |                    |
|                | <b>16, KEL-</b>     |                 |                    |
|                | <b>QUICK 16,</b>    |                 |                    |
|                | <b>KEL-BES 16,</b>  |                 |                    |
|                | <b>KEL-BES-S</b>    |                 |                    |
|                | <b>16, KEL-DPZ</b>  |                 |                    |
|                | <b>16, KEL-DP</b>   |                 |                    |
|                | <b>16</b>           |                 |                    |
| For cut-out of | <b>16-pin</b>       |                 |                    |
| connector      |                     |                 |                    |

Punch 10



|                |                     |                 |                      |
|----------------|---------------------|-----------------|----------------------|
| Part No.       | <b>80051</b>        | Punching        | <b>Plastic, Mild</b> |
| EAN            | <b>4251269316</b>   | material        | <b>steel (St)</b>    |
|                | <b>265</b>          | Max. wall       | <b>2 mm</b>          |
| Package        | <b>1</b>            | thickness       |                      |
| quantity       |                     | Suitable draw   | <b>80209</b>         |
| Number of      | <b>4</b>            | stud            |                      |
| centre         |                     | Suitable        | <b>80211</b>         |
| punches        |                     | counter nut     |                      |
| Cut-out size   | <b>65 × 36 mm</b>   | Suitable centre | <b>80065</b>         |
| Suitable for   | <b>KEL-ER 10,</b>   | punches         |                      |
| cable entry    | <b>KEL 10, KEL-</b> |                 |                      |
| systems:       | <b>U 10, KEL-FA</b> |                 |                      |
|                | <b>10, KEL-</b>     |                 |                      |
|                | <b>QUICK 10,</b>    |                 |                      |
|                | <b>KEL-QTA 10,</b>  |                 |                      |
|                | <b>KEL-BES 10,</b>  |                 |                      |
|                | <b>KEL-BES-S</b>    |                 |                      |
|                | <b>10, KEL-DPZ</b>  |                 |                      |
|                | <b>10, KEL-DP</b>   |                 |                      |
|                | <b>10</b>           |                 |                      |
| For cut-out of | <b>10-pin</b>       |                 |                      |
| connector      |                     |                 |                      |

Punch 10 V2A



|                |                     |                 |                    |
|----------------|---------------------|-----------------|--------------------|
| Part No.       | <b>80151</b>        | Punching        | <b>Stainless</b>   |
| EAN            | <b>4251269316</b>   | material        | <b>steel (V2A)</b> |
|                | <b>432</b>          | Max. wall       | <b>2 mm</b>        |
| Package        | <b>1</b>            | thickness       |                    |
| quantity       |                     | Suitable draw   | <b>80209</b>       |
| Number of      | <b>4</b>            | stud            |                    |
| centre         |                     | Suitable        | <b>80211</b>       |
| punches        |                     | counter nut     |                    |
| Cut-out size   | <b>65 × 36 mm</b>   | Suitable centre | <b>80065</b>       |
| Suitable for   | <b>KEL-ER 10,</b>   | punches         |                    |
| cable entry    | <b>KEL 10, KEL-</b> |                 |                    |
| systems:       | <b>U 10, KEL-FA</b> |                 |                    |
|                | <b>10, KEL-</b>     |                 |                    |
|                | <b>QUICK 10,</b>    |                 |                    |
|                | <b>KEL-QTA 10,</b>  |                 |                    |
|                | <b>KEL-BES 10,</b>  |                 |                    |
|                | <b>KEL-BES-S</b>    |                 |                    |
|                | <b>10, KEL-DPZ</b>  |                 |                    |
|                | <b>10, KEL-DP</b>   |                 |                    |
|                | <b>10</b>           |                 |                    |
| For cut-out of | <b>10-pin</b>       |                 |                    |
| connector      |                     |                 |                    |

Punch 6

|                |                      |                 |                      |
|----------------|----------------------|-----------------|----------------------|
| Part No.       | <b>80062</b>         | Punching        | <b>Plastic, Mild</b> |
| EAN            | <b>4251269319013</b> | material        | <b>steel (St)</b>    |
|                |                      | Max. wall       | <b>2 mm</b>          |
| Package        | <b>1</b>             | thickness       |                      |
| quantity       |                      | Suitable draw   | <b>80209</b>         |
| Number of      | <b>4</b>             | stud            |                      |
| centre         |                      | Suitable        | <b>80211</b>         |
| punches        |                      | counter nut     |                      |
| Cut-out size   | <b>52 x 36 mm</b>    | Suitable centre | <b>80065</b>         |
| Suitable for   | <b>KEL-DPZ 6,</b>    | punches         |                      |
| cable entry    | <b>KEL-DP 6</b>      |                 |                      |
| systems:       |                      |                 |                      |
| For cut-out of | <b>6-pin</b>         |                 |                      |
| connector      |                      |                 |                      |



Punch 6 V2A

|                |                      |                 |                    |
|----------------|----------------------|-----------------|--------------------|
| Part No.       | <b>80149</b>         | Punching        | <b>Stainless</b>   |
| EAN            | <b>4251269321542</b> | material        | <b>steel (V2A)</b> |
|                |                      | Max. wall       | <b>2 mm</b>        |
| Package        | <b>1</b>             | thickness       |                    |
| quantity       |                      | Suitable draw   | <b>80209</b>       |
| Number of      | <b>-</b>             | stud            |                    |
| centre         |                      | Suitable        | <b>80211</b>       |
| punches        |                      | counter nut     |                    |
| Cut-out size   | <b>52 x 36 mm</b>    | Suitable centre | <b>80065</b>       |
| Suitable for   | <b>KEL-DPZ 6,</b>    | punches         |                    |
| cable entry    | <b>KEL-DP 6</b>      |                 |                    |
| systems:       |                      |                 |                    |
| For cut-out of | <b>6-pin</b>         |                 |                    |
| connector      |                      |                 |                    |



Punch B



|              |                      |                 |              |
|--------------|----------------------|-----------------|--------------|
| Part No.     | <b>80049</b>         | Max. wall       | <b>2 mm</b>  |
| EAN          | <b>4251269331</b>    | thickness       |              |
|              | <b>831</b>           | Suitable draw   | <b>80209</b> |
| Package      | <b>1</b>             | stud            |              |
| quantity     |                      | Suitable        | <b>80211</b> |
| Number of    | <b>4</b>             | counter nut     |              |
| centre       |                      | Suitable centre | <b>80065</b> |
| punches      |                      | punches         |              |
| Cut-out size | <b>46 × 46 mm</b>    |                 |              |
| Suitable for | <b>KEL-ER-B,</b>     |                 |              |
| cable entry  | <b>KEL-B, KEL-</b>   |                 |              |
| systems:     | <b>U-B, KEL-FG-</b>  |                 |              |
|              | <b>B, KEL-FG-</b>    |                 |              |
|              | <b>ER-B, KEL-</b>    |                 |              |
|              | <b>QUICK-B,</b>      |                 |              |
|              | <b>KEL-QTA-B,</b>    |                 |              |
|              | <b>KEL-DPZ-B</b>     |                 |              |
| Punching     | <b>Plastic, Mild</b> |                 |              |
| material     | <b>steel (St)</b>    |                 |              |

Punch B



|              |                      |               |              |
|--------------|----------------------|---------------|--------------|
| Part No.     | <b>80050</b>         | Max. wall     | <b>2 mm</b>  |
| EAN          | <b>4251269316</b>    | thickness     |              |
|              | <b>258</b>           | Suitable draw | <b>80209</b> |
| Package      | <b>1</b>             | stud          |              |
| quantity     |                      | Suitable      | <b>80211</b> |
| Number of    | <b>-</b>             | counter nut   |              |
| centre       |                      |               |              |
| punches      |                      |               |              |
| Cut-out size | <b>46 × 46 mm</b>    |               |              |
| Suitable for | <b>KEL-ER-B,</b>     |               |              |
| cable entry  | <b>KEL-B, KEL-</b>   |               |              |
| systems:     | <b>U-B, KEL-FG-</b>  |               |              |
|              | <b>B, KEL-FG-</b>    |               |              |
|              | <b>ER-B, KEL-</b>    |               |              |
|              | <b>QUICK-B,</b>      |               |              |
|              | <b>KEL-QTA-B,</b>    |               |              |
|              | <b>KEL-DPZ-B</b>     |               |              |
| Punching     | <b>Plastic, Mild</b> |               |              |
| material     | <b>steel (St)</b>    |               |              |



Punch B V2A



|              |                     |               |              |
|--------------|---------------------|---------------|--------------|
| Part No.     | <b>80150</b>        | Max. wall     | <b>2 mm</b>  |
| EAN          | <b>4251269316</b>   | thickness     |              |
|              | <b>425</b>          | Suitable draw | <b>80209</b> |
| Package      | <b>1</b>            | stud          |              |
| quantity     |                     | Suitable      | <b>80211</b> |
| Number of    | <b>-</b>            | counter nut   |              |
| centre       |                     |               |              |
| punches      |                     |               |              |
| Cut-out size | <b>46 × 46 mm</b>   |               |              |
| Suitable for | <b>KEL-ER-B,</b>    |               |              |
| cable entry  | <b>KEL-B, KEL-</b>  |               |              |
| systems:     | <b>U-B, KEL-FG-</b> |               |              |
|              | <b>B, KEL-FG-</b>   |               |              |
|              | <b>ER-B, KEL-</b>   |               |              |
|              | <b>QUICK-B,</b>     |               |              |
|              | <b>KEL-QTA-B,</b>   |               |              |
|              | <b>KEL-DPZ-B</b>    |               |              |
| Punching     | <b>Stainless</b>    |               |              |
| material     | <b>steel (V2A)</b>  |               |              |

Punch E5



|              |                      |                 |              |
|--------------|----------------------|-----------------|--------------|
| Part No.     | <b>80058</b>         | Max. wall       | <b>2 mm</b>  |
| EAN          | <b>4251269316</b>    | thickness       |              |
|              | <b>333</b>           | Suitable draw   | <b>80226</b> |
| Package      | <b>1</b>             | stud            |              |
| quantity     |                      | Suitable        | <b>80211</b> |
| Number of    | <b>2</b>             | counter nut     |              |
| centre       |                      | Suitable centre | <b>80065</b> |
| punches      |                      | punches         |              |
| Cut-out size | <b>112 × 24 mm</b>   |                 |              |
| Suitable for | <b>KEL-ER-E5,</b>    |                 |              |
| cable entry  | <b>KEL-E5, KEL-</b>  |                 |              |
| systems:     | <b>FG-E5, KEL-</b>   |                 |              |
|              | <b>FG-ER-E5,</b>     |                 |              |
|              | <b>KEL-QUICK-</b>    |                 |              |
|              | <b>E5, KEL-FL 4</b>  |                 |              |
| Punching     | <b>Plastic, Mild</b> |                 |              |
| material     | <b>steel (St)</b>    |                 |              |

Punch E4



|              |                      |                 |              |
|--------------|----------------------|-----------------|--------------|
| Part No.     | <b>80057</b>         | Max. wall       | <b>2 mm</b>  |
| EAN          | <b>4251269316326</b> | thickness       |              |
| Package      | <b>1</b>             | Suitable draw   | <b>80226</b> |
| quantity     |                      | stud            |              |
| Number of    | <b>2</b>             | Suitable        | <b>80211</b> |
| centre       |                      | counter nut     |              |
| punches      |                      | Suitable centre | <b>80065</b> |
| Cut-out size | <b>86 × 24 mm</b>    | punches         |              |
| Suitable for | <b>KEL-ER-E4,</b>    |                 |              |
| cable entry  | <b>KEL-E4, KEL-</b>  |                 |              |
| systems:     | <b>QUICK-E4,</b>     |                 |              |
|              | <b>KEL-FL 3</b>      |                 |              |
| Punching     | <b>Plastic, Mild</b> |                 |              |
| material     | <b>steel (St)</b>    |                 |              |

Punch E3



|              |                      |                 |              |
|--------------|----------------------|-----------------|--------------|
| Part No.     | <b>80056</b>         | Max. wall       | <b>2 mm</b>  |
| EAN          | <b>4251269316319</b> | thickness       |              |
| Package      | <b>1</b>             | Suitable draw   | <b>80226</b> |
| quantity     |                      | stud            |              |
| Number of    | <b>2</b>             | Suitable        | <b>80211</b> |
| centre       |                      | counter nut     |              |
| punches      |                      | Suitable centre | <b>80065</b> |
| Cut-out size | <b>65 × 24 mm</b>    | punches         |              |
| Suitable for | <b>KEL-ER-E3,</b>    |                 |              |
| cable entry  | <b>KEL-E3, KEL-</b>  |                 |              |
| systems:     | <b>FG-E3, KEL-</b>   |                 |              |
|              | <b>FG-ER-E3,</b>     |                 |              |
|              | <b>KEL-QUICK-</b>    |                 |              |
|              | <b>E3, KEL-FL 2</b>  |                 |              |
| Punching     | <b>Plastic, Mild</b> |                 |              |
| material     | <b>steel (St)</b>    |                 |              |

Punch E2

|              |                      |                 |              |
|--------------|----------------------|-----------------|--------------|
| Part No.     | <b>80055</b>         | Max. wall       | <b>2 mm</b>  |
| EAN          | <b>4251269316302</b> | thickness       |              |
|              |                      | Suitable draw   | <b>80226</b> |
| Package      | <b>1</b>             | stud            |              |
| quantity     |                      | Suitable        | <b>80211</b> |
| Number of    | <b>2</b>             | counter nut     |              |
| centre       |                      | Suitable centre | <b>80065</b> |
| punches      |                      | punches         |              |
| Cut-out size | <b>43 × 24 mm</b>    |                 |              |
| Suitable for | <b>KEL-ER-E2,</b>    |                 |              |
| cable entry  | <b>KEL-E2, KEL-</b>  |                 |              |
| systems:     | <b>FG-E2, KEL-</b>   |                 |              |
|              | <b>FG-ER-E2,</b>     |                 |              |
|              | <b>KEL-QUICK-</b>    |                 |              |
|              | <b>E2, KEL-FL 1</b>  |                 |              |
| Punching     | <b>Plastic, Mild</b> |                 |              |
| material     | <b>steel (St)</b>    |                 |              |



Punch E1

|              |                      |               |              |
|--------------|----------------------|---------------|--------------|
| Part No.     | <b>80075</b>         | Max. wall     | <b>2 mm</b>  |
| EAN          | <b>4251269332517</b> | thickness     |              |
|              |                      | Suitable draw | <b>80205</b> |
| Package      | <b>1</b>             | stud          |              |
| quantity     |                      | Suitable      | <b>80227</b> |
| Number of    | <b>2</b>             | counter nut   |              |
| centre       |                      |               |              |
| punches      |                      |               |              |
| Cut-out size | <b>21 × 27 mm</b>    |               |              |
| Suitable for | <b>KEL-E1</b>        |               |              |
| cable entry  |                      |               |              |
| systems:     |                      |               |              |
| Punching     | <b>Plastic, Mild</b> |               |              |
| material     | <b>steel (St)</b>    |               |              |



Punch SUB-D9



|                |                      |               |              |
|----------------|----------------------|---------------|--------------|
| Part No.       | <b>80073</b>         | Suitable draw | <b>80228</b> |
| EAN            |                      | stud          |              |
| Package        | <b>1</b>             | Suitable      | <b>80229</b> |
| quantity       |                      | counter nut   |              |
| Number of      | -                    |               |              |
| centre         |                      |               |              |
| punches        |                      |               |              |
| For cut-out of | <b>SUB-D9</b>        |               |              |
| connector      |                      |               |              |
| Punching       | <b>Plastic, Mild</b> |               |              |
| material       | <b>steel (St)</b>    |               |              |
| Max. wall      | <b>2 mm</b>          |               |              |
| thickness      |                      |               |              |

Punch 12.7×12.7



|              |                      |               |              |
|--------------|----------------------|---------------|--------------|
| Part No.     | <b>80079</b>         | Suitable draw | <b>80228</b> |
| EAN          | <b>4251269336</b>    | stud          |              |
|              | <b>102</b>           | Suitable      | <b>80229</b> |
| Package      | <b>1</b>             | counter nut   |              |
| quantity     |                      |               |              |
| Number of    | -                    |               |              |
| centre       |                      |               |              |
| punches      |                      |               |              |
| Cut-out size | <b>12.7 × 12.7</b>   |               |              |
|              | <b>mm</b>            |               |              |
| Punching     | <b>Plastic, Mild</b> |               |              |
| material     | <b>steel (St)</b>    |               |              |
| Max. wall    | <b>2 mm</b>          |               |              |
| thickness    |                      |               |              |

Punch 15.4×14.5



|              |                       |               |              |
|--------------|-----------------------|---------------|--------------|
| Part No.     | <b>80220</b>          | Suitable draw | <b>80228</b> |
| EAN          |                       | stud          |              |
| Package      | <b>1</b>              | Suitable      | <b>80229</b> |
| quantity     |                       | counter nut   |              |
| Number of    | -                     |               |              |
| centre       |                       |               |              |
| punches      |                       |               |              |
| Cut-out size | <b>15.4 × 14.5 mm</b> |               |              |
| Punching     | <b>Plastic, Mild</b>  |               |              |
| material     | <b>steel (St)</b>     |               |              |
| Max. wall    | <b>2 mm</b>           |               |              |
| thickness    |                       |               |              |

Punch 15.8×15.8



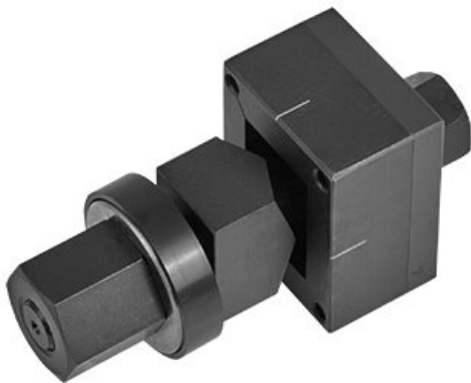
|              |                       |               |              |
|--------------|-----------------------|---------------|--------------|
| Part No.     | <b>80080</b>          | Suitable draw | <b>80228</b> |
| EAN          | <b>4251269336</b>     | stud          |              |
|              | <b>119</b>            | Suitable      | <b>80229</b> |
| Package      | <b>1</b>              | counter nut   |              |
| quantity     |                       |               |              |
| Number of    | -                     |               |              |
| centre       |                       |               |              |
| punches      |                       |               |              |
| Cut-out size | <b>15.8 × 15.8 mm</b> |               |              |
| Punching     | <b>Plastic, Mild</b>  |               |              |
| material     | <b>steel (St)</b>     |               |              |
| Max. wall    | <b>2 mm</b>           |               |              |
| thickness    |                       |               |              |

Punch 16.4×15.3



|                          |                                 |                      |              |
|--------------------------|---------------------------------|----------------------|--------------|
| Part No.                 | <b>80222</b>                    | Suitable draw        | <b>80228</b> |
| EAN                      |                                 | stud                 |              |
| Package quantity         | <b>1</b>                        | Suitable counter nut | <b>80229</b> |
| Number of centre punches | -                               |                      |              |
| Cut-out size             | <b>16.4 × 15.3 mm</b>           |                      |              |
| Punching material        | <b>Plastic, Mild steel (St)</b> |                      |              |
| Max. wall thickness      | <b>2 mm</b>                     |                      |              |

Punch 19×17



|                          |                                 |                      |              |
|--------------------------|---------------------------------|----------------------|--------------|
| Part No.                 | <b>80087</b>                    | Suitable draw        | <b>80228</b> |
| EAN                      | <b>4251269336188</b>            | stud                 |              |
| Package quantity         | <b>1</b>                        | Suitable counter nut | <b>80229</b> |
| Number of centre punches | -                               |                      |              |
| Cut-out size             | <b>17 × 19 mm</b>               |                      |              |
| Punching material        | <b>Plastic, Mild steel (St)</b> |                      |              |
| Max. wall thickness      | <b>2 mm</b>                     |                      |              |

Punch 19.1×19.1



|                          |                                 |               |              |
|--------------------------|---------------------------------|---------------|--------------|
| Part No.                 | <b>80081</b>                    | Suitable draw | <b>80205</b> |
| EAN                      | <b>4251269336</b>               | stud          |              |
|                          | <b>126</b>                      | Suitable      | <b>80227</b> |
| Package quantity         | <b>1</b>                        | counter nut   |              |
| Number of centre punches | -                               |               |              |
| Cut-out size             | <b>19.1 × 19.1 mm</b>           |               |              |
| Punching material        | <b>Plastic, Mild steel (St)</b> |               |              |
| Max. wall thickness      | <b>2 mm</b>                     |               |              |

Punch 21.3×21.3



|                          |                                 |               |              |
|--------------------------|---------------------------------|---------------|--------------|
| Part No.                 | <b>80082</b>                    | Suitable draw | <b>80205</b> |
| EAN                      | <b>4251269336</b>               | stud          |              |
|                          | <b>133</b>                      | Suitable      | <b>80227</b> |
| Package quantity         | <b>1</b>                        | counter nut   |              |
| Number of centre punches | -                               |               |              |
| Cut-out size             | <b>21.3 × 21.3 mm</b>           |               |              |
| Punching material        | <b>Plastic, Mild steel (St)</b> |               |              |
| Max. wall thickness      | <b>2 mm</b>                     |               |              |

Punch 22.2×22.2 V2A



|                          |                              |                         |              |
|--------------------------|------------------------------|-------------------------|--------------|
| Part No.                 | <b>80148</b>                 | Max. wall thickness     | <b>2 mm</b>  |
| EAN                      |                              | Suitable draw stud      | <b>80205</b> |
| Package quantity         | <b>1</b>                     | Suitable counter nut    | <b>80227</b> |
| Number of centre punches | <b>3</b>                     | Suitable centre punches | <b>80232</b> |
| Cut-out size             | <b>22.2 × 22.2 mm</b>        |                         |              |
| For cut-out of connector | <b>HAN 3A</b>                |                         |              |
| Punching material        | <b>Stainless steel (V2A)</b> |                         |              |

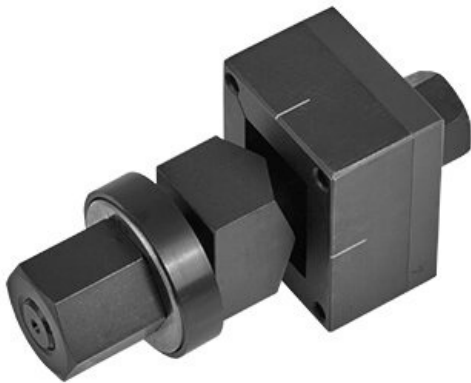
Punch 22.2×22.2



|                          |                                 |                         |              |
|--------------------------|---------------------------------|-------------------------|--------------|
| Part No.                 | <b>80067</b>                    | Max. wall thickness     | <b>2 mm</b>  |
| EAN                      |                                 | Suitable draw stud      | <b>80205</b> |
| Package quantity         | <b>1</b>                        | Suitable counter nut    | <b>80227</b> |
| Number of centre punches | <b>2</b>                        | Suitable centre punches | <b>80232</b> |
| Cut-out size             | <b>22.2 × 22.2 mm</b>           |                         |              |
| For cut-out of connector | <b>HAN 3A</b>                   |                         |              |
| Punching material        | <b>Plastic, Mild steel (St)</b> |                         |              |



Punch 22×30



|                          |                                 |               |              |
|--------------------------|---------------------------------|---------------|--------------|
| Part No.                 | <b>80088</b>                    | Suitable draw | <b>80205</b> |
| EAN                      | <b>4251269336</b>               | stud          |              |
|                          | <b>195</b>                      | Suitable      | <b>80227</b> |
| Package quantity         | <b>1</b>                        | counter nut   |              |
| Number of centre punches | -                               |               |              |
| Cut-out size             | <b>22 × 30 mm</b>               |               |              |
| Punching material        | <b>Plastic, Mild steel (St)</b> |               |              |
| Max. wall thickness      | <b>2 mm</b>                     |               |              |

Punch 22x42



|                          |                                 |               |              |
|--------------------------|---------------------------------|---------------|--------------|
| Part No.                 | <b>80089</b>                    | Suitable draw | <b>80205</b> |
| EAN                      | <b>4251269336</b>               | stud          |              |
|                          | <b>201</b>                      | Suitable      | <b>80227</b> |
| Package quantity         | <b>1</b>                        | counter nut   |              |
| Number of centre punches | -                               |               |              |
| Cut-out size             | <b>22 × 42 mm</b>               |               |              |
| Punching material        | <b>Plastic, Mild steel (St)</b> |               |              |
| Max. wall thickness      | <b>2 mm</b>                     |               |              |

Punch 22x45



|                          |                                 |               |              |
|--------------------------|---------------------------------|---------------|--------------|
| Part No.                 | <b>80059</b>                    | Suitable draw | <b>80205</b> |
| EAN                      | <b>4251269319174</b>            | stud          |              |
|                          |                                 | Suitable      | <b>80227</b> |
| Package quantity         | <b>1</b>                        | counter nut   |              |
| Number of centre punches | -                               |               |              |
| Cut-out size             | <b>22 × 45 mm</b>               |               |              |
| Punching material        | <b>Plastic, Mild steel (St)</b> |               |              |
| Max. wall thickness      | <b>2 mm</b>                     |               |              |

Punch 24x24



|                          |                                 |               |              |
|--------------------------|---------------------------------|---------------|--------------|
| Part No.                 | <b>80083</b>                    | Suitable draw | <b>80205</b> |
| EAN                      | <b>4251269336140</b>            | stud          |              |
|                          |                                 | Suitable      | <b>80227</b> |
| Package quantity         | <b>1</b>                        | counter nut   |              |
| Number of centre punches | -                               |               |              |
| Cut-out size             | <b>24 × 24 mm</b>               |               |              |
| Punching material        | <b>Plastic, Mild steel (St)</b> |               |              |
| Max. wall thickness      | <b>2 mm</b>                     |               |              |

Punch 24×57

|              |                      |                 |              |
|--------------|----------------------|-----------------|--------------|
| Part No.     | <b>80223</b>         | Suitable draw   | <b>80226</b> |
| EAN          |                      | stud            |              |
| Package      | <b>1</b>             | Suitable        | <b>80211</b> |
| quantity     |                      | counter nut     |              |
| Number of    | <b>4</b>             | Suitable centre | <b>80065</b> |
| centre       |                      | punches         |              |
| punches      |                      |                 |              |
| Cut-out size | <b>24 × 57 mm</b>    |                 |              |
| Punching     | <b>Plastic, Mild</b> |                 |              |
| material     | <b>steel (St)</b>    |                 |              |
| Max. wall    | <b>2 mm</b>          |                 |              |
| thickness    |                      |                 |              |



Punch 25.4×25.4

|              |                       |               |              |
|--------------|-----------------------|---------------|--------------|
| Part No.     | <b>80084</b>          | Suitable draw | <b>80205</b> |
| EAN          | <b>4251269336</b>     | stud          |              |
| Package      | <b>157</b>            | Suitable      | <b>80227</b> |
| quantity     |                       | counter nut   |              |
| Number of    | <b>1</b>              |               |              |
| centre       |                       |               |              |
| punches      | <b>-</b>              |               |              |
| Cut-out size | <b>25.4 × 25.4 mm</b> |               |              |
| Punching     | <b>Plastic, Mild</b>  |               |              |
| material     | <b>steel (St)</b>     |               |              |
| Max. wall    | <b>2 mm</b>           |               |              |
| thickness    |                       |               |              |



Punch 32×90



|              |                      |               |              |
|--------------|----------------------|---------------|--------------|
| Part No.     | <b>80159</b>         | Suitable draw | <b>80226</b> |
| EAN          |                      | stud          |              |
| Package      | <b>1</b>             | Suitable      | <b>80211</b> |
| quantity     |                      | counter nut   |              |
| Number of    | -                    |               |              |
| centre       |                      |               |              |
| punches      |                      |               |              |
| Cut-out size | <b>32 × 90 mm</b>    |               |              |
| Punching     | <b>Plastic, Mild</b> |               |              |
| material     | <b>steel (St)</b>    |               |              |
| Max. wall    | <b>2 mm</b>          |               |              |
| thickness    |                      |               |              |

Punch 50×25



|              |                      |               |              |
|--------------|----------------------|---------------|--------------|
| Part No.     | <b>80091</b>         | Suitable draw | <b>80231</b> |
| EAN          | <b>4251269336</b>    | stud          |              |
|              | <b>225</b>           | Suitable      | <b>80227</b> |
| Package      | <b>1</b>             | counter nut   |              |
| quantity     |                      |               |              |
| Number of    | -                    |               |              |
| centre       |                      |               |              |
| punches      |                      |               |              |
| Cut-out size | <b>25 × 50 mm</b>    |               |              |
| Punching     | <b>Plastic, Mild</b> |               |              |
| material     | <b>steel (St)</b>    |               |              |
| Max. wall    | <b>2 mm</b>          |               |              |
| thickness    |                      |               |              |

Punch 50.8×50.8



|                          |                                 |               |              |
|--------------------------|---------------------------------|---------------|--------------|
| Part No.                 | <b>80085</b>                    | Suitable draw | <b>80209</b> |
| EAN                      | <b>4251269336</b>               | stud          |              |
|                          | <b>164</b>                      | Suitable      | <b>80211</b> |
| Package quantity         | <b>1</b>                        | counter nut   |              |
| Number of centre punches | -                               |               |              |
| Cut-out size             | <b>50.8 × 50.8 mm</b>           |               |              |
| Punching material        | <b>Plastic, Mild steel (St)</b> |               |              |
| Max. wall thickness      | <b>2 mm</b>                     |               |              |

Punch 65×113



|                          |                                 |               |              |
|--------------------------|---------------------------------|---------------|--------------|
| Part No.                 | <b>80074</b>                    | Suitable draw | <b>80209</b> |
| EAN                      |                                 | stud          |              |
| Package quantity         | <b>1</b>                        | Suitable      | <b>80211</b> |
| Number of centre punches | -                               | counter nut   |              |
| Cut-out size             | <b>65 × 113 mm</b>              |               |              |
| Punching material        | <b>Plastic, Mild steel (St)</b> |               |              |
| Max. wall thickness      | <b>2 mm</b>                     |               |              |

Punch 68×68



|                          |                                 |                      |              |
|--------------------------|---------------------------------|----------------------|--------------|
| Part No.                 | <b>80064</b>                    | Suitable draw stud   | <b>80209</b> |
| EAN                      |                                 | Suitable counter nut | <b>80211</b> |
| Package quantity         | <b>1</b>                        |                      |              |
| Number of centre punches | -                               |                      |              |
| Cut-out size             | <b>68 × 68 mm</b>               |                      |              |
| Punching material        | <b>Plastic, Mild steel (St)</b> |                      |              |
| Max. wall thickness      | <b>2 mm</b>                     |                      |              |

Punch 71×29



|                          |                                 |                      |              |
|--------------------------|---------------------------------|----------------------|--------------|
| Part No.                 | <b>80161</b>                    | Suitable draw stud   | <b>80226</b> |
| EAN                      |                                 | Suitable counter nut | <b>80211</b> |
| Package quantity         | <b>1</b>                        |                      |              |
| Number of centre punches | -                               |                      |              |
| Cut-out size             | <b>71 × 29 mm</b>               |                      |              |
| Punching material        | <b>Plastic, Mild steel (St)</b> |                      |              |
| Max. wall thickness      | <b>2 mm</b>                     |                      |              |

Punch 73×24



|                          |                                 |                         |              |
|--------------------------|---------------------------------|-------------------------|--------------|
| Part No.                 | <b>80224</b>                    | Suitable draw stud      | <b>80226</b> |
| EAN                      |                                 | Suitable counter nut    | <b>80211</b> |
| Package quantity         | <b>1</b>                        | Suitable centre punches | <b>80065</b> |
| Number of centre punches | <b>4</b>                        |                         |              |
| Cut-out size             | <b>73 × 24 mm</b>               |                         |              |
| Punching material        | <b>Plastic, Mild steel (St)</b> |                         |              |
| Max. wall thickness      | <b>2 mm</b>                     |                         |              |

Punch 91×117



|                          |                                 |                      |              |
|--------------------------|---------------------------------|----------------------|--------------|
| Part No.                 | <b>80066</b>                    | Suitable draw stud   | <b>80209</b> |
| EAN                      |                                 | Suitable counter nut | <b>80211</b> |
| Package quantity         | <b>1</b>                        |                      |              |
| Number of centre punches | <b>-</b>                        |                      |              |
| Cut-out size             | <b>91 × 117 mm</b>              |                      |              |
| Punching material        | <b>Plastic, Mild steel (St)</b> |                      |              |
| Max. wall thickness      | <b>2 mm</b>                     |                      |              |

Punch 92×45



|                          |                                 |               |              |
|--------------------------|---------------------------------|---------------|--------------|
| Part No.                 | <b>80092</b>                    | Suitable draw | <b>80209</b> |
| EAN                      | <b>4251269336</b>               | stud          |              |
|                          | <b>232</b>                      | Suitable      | <b>80211</b> |
| Package quantity         | <b>1</b>                        | counter nut   |              |
| Number of centre punches | -                               |               |              |
| Cut-out size             | <b>45 × 92 mm</b>               |               |              |
| Punching material        | <b>Plastic, Mild steel (St)</b> |               |              |
| Max. wall thickness      | <b>2 mm</b>                     |               |              |

Punch 92×46



|                          |                                 |               |              |
|--------------------------|---------------------------------|---------------|--------------|
| Part No.                 | <b>80093</b>                    | Suitable draw | <b>80209</b> |
| EAN                      | <b>4251269336</b>               | stud          |              |
|                          | <b>249</b>                      | Suitable      | <b>80211</b> |
| Package quantity         | <b>1</b>                        | counter nut   |              |
| Number of centre punches | -                               |               |              |
| Cut-out size             | <b>46 × 92 mm</b>               |               |              |
| Punching material        | <b>Plastic, Mild steel (St)</b> |               |              |
| Max. wall thickness      | <b>2 mm</b>                     |               |              |



Punch 92x92

|                          |                                 |               |              |
|--------------------------|---------------------------------|---------------|--------------|
| Part No.                 | <b>80060</b>                    | Suitable draw | <b>80209</b> |
| EAN                      | <b>4251269318</b>               | stud          |              |
|                          | <b>252</b>                      | Suitable      | <b>80211</b> |
| Package quantity         | <b>1</b>                        | counter nut   |              |
| Number of centre punches | -                               |               |              |
| Cut-out size             | <b>92 × 92 mm</b>               |               |              |
| Punching material        | <b>Plastic, Mild steel (St)</b> |               |              |
| Max. wall thickness      | <b>2 mm</b>                     |               |              |



Punch 125x125

|                          |                                 |             |              |
|--------------------------|---------------------------------|-------------|--------------|
| Part No.                 | <b>80063</b>                    | Suitable    | <b>80214</b> |
| EAN                      | <b>4251269322</b>               | counter nut |              |
|                          | <b>709</b>                      |             |              |
| Package quantity         | <b>1</b>                        |             |              |
| Number of centre punches | -                               |             |              |
| Punching material        | <b>Plastic, Mild steel (St)</b> |             |              |
| Max. wall thickness      | <b>2 mm</b>                     |             |              |
| Suitable draw stud       | <b>80213</b>                    |             |              |



Punch 138×68



|                          |                                 |               |              |
|--------------------------|---------------------------------|---------------|--------------|
| Part No.                 | <b>80094</b>                    | Suitable draw | <b>80213</b> |
| EAN                      | <b>4251269336</b>               | stud          |              |
|                          | <b>256</b>                      | Suitable      | <b>80214</b> |
| Package quantity         | <b>1</b>                        | counter nut   |              |
| Number of centre punches | -                               |               |              |
| Cut-out size             | <b>68 × 138 mm</b>              |               |              |
| Punching material        | <b>Plastic, Mild steel (St)</b> |               |              |
| Max. wall thickness      | <b>2 mm</b>                     |               |              |

Punch 138×138



|                          |                                 |               |              |
|--------------------------|---------------------------------|---------------|--------------|
| Part No.                 | <b>80086</b>                    | Suitable draw | <b>80213</b> |
| EAN                      | <b>4251269336</b>               | stud          |              |
|                          | <b>171</b>                      | Suitable      | <b>80214</b> |
| Package quantity         | <b>1</b>                        | counter nut   |              |
| Number of centre punches | -                               |               |              |
| Cut-out size             | <b>138 × 138 mm</b>             |               |              |
| Punching material        | <b>Plastic, Mild steel (St)</b> |               |              |
| Max. wall thickness      | <b>2 mm</b>                     |               |              |

Draw stud 80205



|                  |               |
|------------------|---------------|
| Part No.         | <b>80205</b>  |
| EAN              |               |
| Package quantity | <b>1</b>      |
| Diameter D1      | <b>13 mm</b>  |
| Diameter D2      | <b>11 mm</b>  |
| Length           | <b>105 mm</b> |

Draw stud 80209



|                  |               |
|------------------|---------------|
| Part No.         | <b>80209</b>  |
| EAN              |               |
| Package quantity | <b>1</b>      |
| Diameter D1      | <b>19 mm</b>  |
| Length           | <b>135 mm</b> |

Draw stud 80213



|                  |                |
|------------------|----------------|
| Part No.         | <b>80213</b>   |
| EAN              |                |
| Package quantity | <b>1</b>       |
| Diameter D1      | <b>28,3 mm</b> |
| Diameter D2      | <b>25 mm</b>   |
| Length           | <b>155 mm</b>  |

Draw stud 80226



|                  |               |
|------------------|---------------|
| Part No.         | 80226         |
| EAN              | 4251269336263 |
| Package quantity | 1             |
| Diameter D1      | 19 mm         |
| Diameter D2      | 14 mm         |
| Length           | 130 mm        |

Draw stud 80228



|                  |               |
|------------------|---------------|
| Part No.         | 80228         |
| EAN              | 4251269336287 |
| Package quantity | 1             |
| Diameter D1      | 9,5 mm        |
| Diameter D2      | 8,25 mm       |
| Length           | 105 mm        |

Draw stud 80231



|                  |               |
|------------------|---------------|
| Part No.         | 80231         |
| EAN              | 4251269336317 |
| Package quantity | 1             |
| Diameter D1      | 16 mm         |
| Diameter D2      | 14,5 mm       |
| Length           | 110 mm        |

Counter nut 80206

|                  |         |
|------------------|---------|
| Part No.         | 80206   |
| EAN              |         |
| Package quantity | 1       |
| Thread           | 1/2 UNF |



Counter nut 80211

|                  |         |
|------------------|---------|
| Part No.         | 80211   |
| EAN              |         |
| Package quantity | 1       |
| Thread           | 3/4 UNF |



Counter nut 80229

|                  |               |
|------------------|---------------|
| Part No.         | 80229         |
| EAN              | 4251269336294 |
| Package quantity | 1             |
| Thread           | 3/8 UNF       |



**Counter nut 80214**



|                  |              |
|------------------|--------------|
| Part No.         | <b>80214</b> |
| EAN              |              |
| Package quantity | <b>1</b>     |

**HSS Multi-stage drill**



|                  |                                                         |
|------------------|---------------------------------------------------------|
| Part No.         | <b>80204</b>                                            |
| EAN              |                                                         |
| Package quantity | <b>1</b>                                                |
| Drilling steps   | <b>8 / 10 / 11,5 /<br/>12,5 / 14,5 /<br/>17 / 21 mm</b> |

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