

- > for fine cutting work in electronics and fine mechanics
- > sturdy, zero backlash box-joint
- > low-friction double spring for gentle and even opening
- > mirror polish, with a fine film of oil, offers effective rust protection – no circuit faults caused by peeling chrome from plated tools
- > cutting edges induction hardened (approx. 60 HRC)
- > ball bearing steel

**77 01 115 / 77 02 130 / 77 01 130**  
Round head, with bevel; cutting edge hardness approx. 62 HRC

**77 02 115 / 77 22 130**  
Round head, with small bevel; cutting edge hardness approx. 60 HRC

**77 12 115**  
Round head, with bevel and lead catcher – no uncontrolled loss of cut wire ends; cutting edge hardness approx. 62 HRC

**77 21 115**  
Pointed head, without bevel; cutting edge hardness approx. 57 HRC

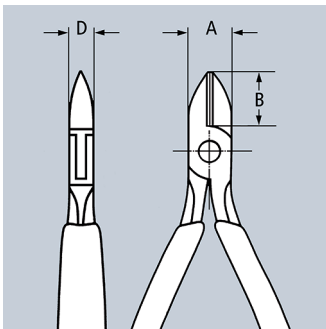
**77 22 115**  
Round head, without bevel; cutting edge hardness approx. 57 HRC

**77 32 115**  
Pointed head, with small bevel; cutting edge hardness approx. 60 HRC

**77 42 115 / 77 42 130**  
Pointed head, without bevel; cutting edge hardness approx. 57 HRC

**77 52 115**  
Pointed, flat head, with small bevel; cutting edge hardness approx. 60 HRC

**77 72 115**  
Pointed mini-head, with small bevel; cutting edge hardness approx. 60 HRC



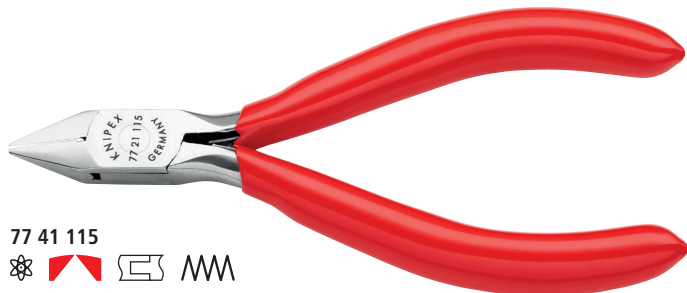
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77 32 115



77 52 115



77 42 115



77 72 115



| Product Number | Packaging | ↔<br>Inch<br>mm |   | Head            | Handles                | Cutting capacities       |                |                | Dimensions      |                 |                 | ⚖<br>lbs |
|----------------|-----------|-----------------|---|-----------------|------------------------|--------------------------|----------------|----------------|-----------------|-----------------|-----------------|----------|
|                |           |                 |   |                 |                        | Ø Inch<br>Ø mm           | Ø Inch<br>Ø mm | Ø Inch<br>Ø mm | A<br>Inch<br>mm | B<br>Inch<br>mm | D<br>Inch<br>mm |          |
| 77 01 115      |           | 4 1/2<br>115    | ✱ | mirror polished | plastic coated         | 1/64 - 1/16<br>0.3 - 1.6 | 3/64<br>1.2    | 1/64<br>0.3    | 7/16<br>11.0    | 35/64<br>14.0   | 19/64<br>7.5    | 0.15     |
| 77 01 130      |           | 5 1/4<br>130    | ✱ | mirror polished | plastic coated         | 1/64 - 5/64<br>0.3 - 2.0 | 1/16<br>1.5    | 1/32<br>0.8    | 19/32<br>15.0   | 23/32<br>18.3   | 3/8<br>9.5      | 0.24     |
| 77 02 115      |           | 4 1/2<br>115    | ✱ | mirror polished | multi-component grips  | 1/64 - 1/16<br>0.3 - 1.6 | 3/64<br>1.2    | 1/64<br>0.3    | 7/16<br>11.0    | 35/64<br>14.0   | 19/64<br>7.5    | 0.18     |
| 77 02 130      |           | 5 1/4<br>130    | ✱ | mirror polished | multi-component grips  | 1/64 - 5/64<br>0.3 - 2.0 | 1/16<br>1.5    | 1/32<br>0.8    | 19/32<br>15.0   | 23/32<br>18.3   | 3/8<br>9.5      | 0.30     |
| 77 11 115      |           | 4 1/2<br>115    | ✱ | mirror polished | single-component grips | 1/64 - 1/16<br>0.3 - 1.6 | 3/64<br>1.2    | 1/64<br>0.3    | 7/16<br>11.0    | 35/64<br>14.0   | 19/64<br>7.5    | 0.18     |
| 77 12 115      |           | 4 1/2<br>115    | ✱ | mirror polished | multi-component grips  | 1/64 - 1/16<br>0.3 - 1.6 | 3/64<br>1.2    | 1/64<br>0.3    | 35/64<br>14.0   | 7/16<br>11.0    | 19/64<br>7.5    | 0.18     |
| 77 21 115 N    |           | 4 1/2<br>115    | ✱ | mirror polished | single-component grips | 1/64 - 3/64<br>0.3 - 1.3 | 3/64<br>1.0    | -              | 7/16<br>11.0    | 33/64<br>10.3   | 9/32<br>7.0     | 0.11     |
| 77 21 130      |           | 5 1/4<br>130    | ✱ | mirror polished | single-component grips | 1/64 - 1/16<br>0.3 - 1.6 | 3/64<br>1.2    | -              | 19/32<br>15.0   | 23/32<br>18.3   | 3/8<br>9.5      | 0.30     |
| 77 22 115      |           | 4 1/2<br>115    | ✱ | mirror polished | multi-component grips  | 1/64 - 3/64<br>0.3 - 1.3 | 3/64<br>1.0    | -              | 7/16<br>11.0    | 35/64<br>14.0   | 9/32<br>7.0     | 0.18     |
| 77 22 130      |           | 5 1/4<br>130    | ✱ | mirror polished | multi-component grips  | 1/64 - 5/64<br>0.3 - 2.0 | 1/16<br>1.5    | -              | 19/32<br>15.0   | 23/32<br>18.3   | 23/64<br>9.0    | 0.27     |
| 77 32 115      |           | 4 1/2<br>115    | ✱ | mirror polished | multi-component grips  | 1/64 - 3/64<br>0.3 - 1.3 | 3/64<br>1.0    | 1/64<br>0.5    | 7/16<br>11.0    | 35/64<br>14.0   | 19/64<br>7.5    | 0.18     |
| 77 41 115      |           | 4 1/2<br>115    | ✱ | mirror polished | plastic coated         | 1/64 - 3/64<br>0.3 - 1.3 | 1/32<br>0.8    | -              | 35/64<br>14.0   | 1/2<br>13.0     | 19/64<br>7.5    | 0.18     |
| 77 42 115      |           | 4 1/2<br>115    | ✱ | mirror polished | multi-component grips  | 1/64 - 3/64<br>0.3 - 1.3 | 1/32<br>0.8    | -              | 7/16<br>11.0    | 35/64<br>14.0   | 19/64<br>7.5    | 0.18     |
| 77 42 130      |           | 5 1/4<br>130    | ✱ | mirror polished | multi-component grips  | 1/64 - 1/16<br>0.3 - 1.6 | 3/64<br>1.3    | -              | 19/32<br>15.0   | 23/32<br>18.3   | 3/8<br>9.5      | 0.18     |
| 77 52 115      |           | 4 1/2<br>115    | ✱ | mirror polished | multi-component grips  | 1/64 - 3/64<br>0.3 - 1.0 | 1/32<br>0.8    | 1/64<br>0.5    | 7/16<br>11.0    | 35/64<br>14.0   | 19/64<br>7.5    | 0.17     |
| 77 72 115      |           | 4 1/2<br>115    | ✱ | mirror polished | multi-component grips  | 1/64 - 1/32<br>0.3 - 0.8 | -              | -              | 3/8<br>9.5      | 13/32<br>10.5   | 15/64<br>6.0    | 0.15     |