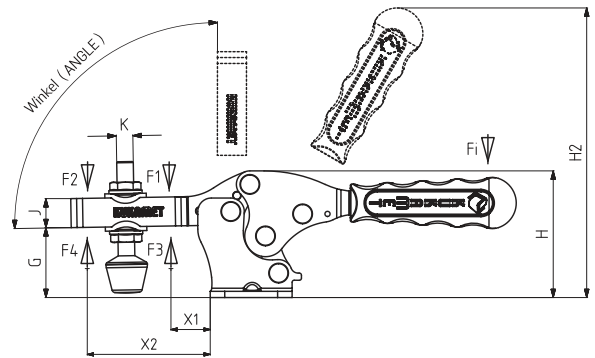
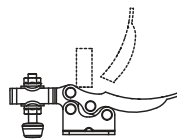
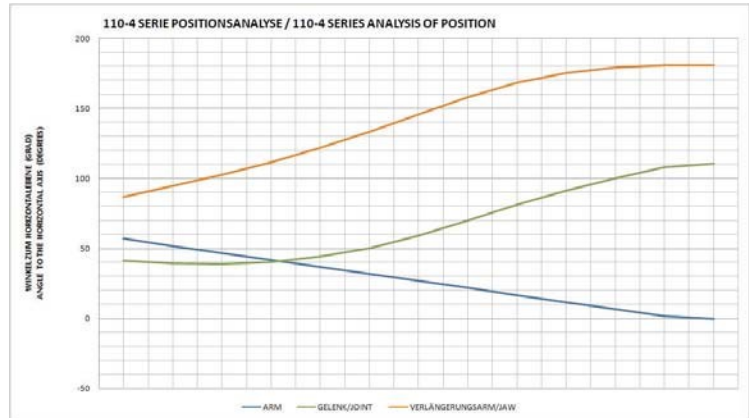


| Modell Nr. | Rostfrei (Edelstahl) (STAINLESS) | Schwarz (BLACK) | F1 (N) | F2 (N) | F3 (N) | F4 (N) | Fi | | Andruckspindel (SQUEEZE SCREW) | Winkel (ANGLE) ($\pm 5^\circ$) | Gewicht (WEIGHT) (gr) |
|------------|----------------------------------|-----------------|--------|--------|--------|--------|-------------------------------------|-------------------------------------|--------------------------------|----------------------------------|-----------------------|
| | | | | | | | (X1) Andruckkraft (YIELD) (F1 : Fi) | (X2) Andruckkraft (YIELD) (F2 : Fi) | | | |
| 111 - 0 | S 111 - | B 111 - | 450 | 300 | 520 | 350 | 5:1 | 2:1 | M4X25 | 90° | 42 |
| 111 - 1 | S 111 - | B 111 - | 850 | 650 | 1000 | 800 | 7:1 | 3:1 | M5X35 | 90° | 125 |
| 111 - 2 | S 111 - | B 111 - | 1000 | 750 | 1200 | 1000 | 7:1 | 3:1 | M6X40 | 90° | 225 |
| 111 - 3 | S 111 - | B 111 - | 2300 | 1250 | 2500 | 1350 | 8:1 | 4:1 | M8X50 | 90° | 340 |
| 111 - 4 | S 111 - | B 111 - | 3500 | 1800 | 3650 | 2000 | 9:1 | 4:1 | M10X70 | 90° | 810 |
| 111 - 5 | S 111 - | B 111 - | 4500 | 2000 | 5000 | 2125 | 10:1 | 5:1 | M12X80 | 90° | 1520 |

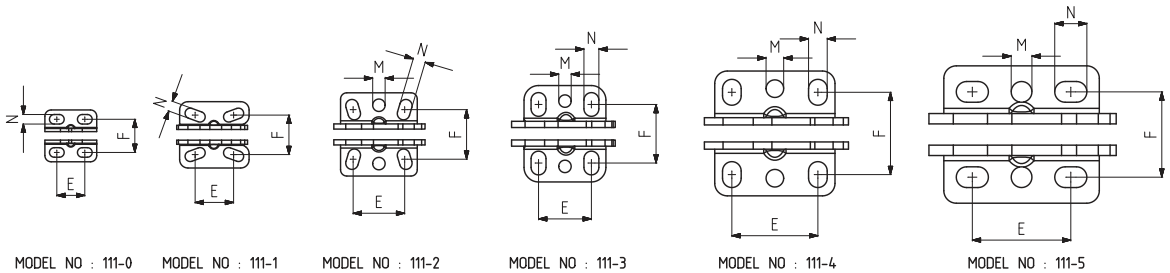
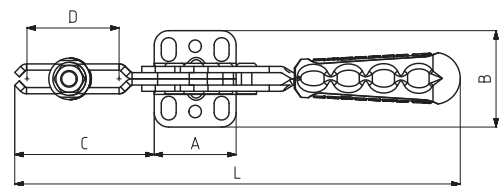
F1 - F2 : Druckkraft (EXERTING FORCE), F3 - F4 : Haltekraft (HOLDING CAPACITY), Fi : Anwendungskraft (APPLIED FORCE)



Befestigungsart : mit waagrechtm Fuß
Body Mounting Base: Horizontal



MODEL NO : 111-0
Metallgriff ohne Beschichtung
(not covered metal handle)

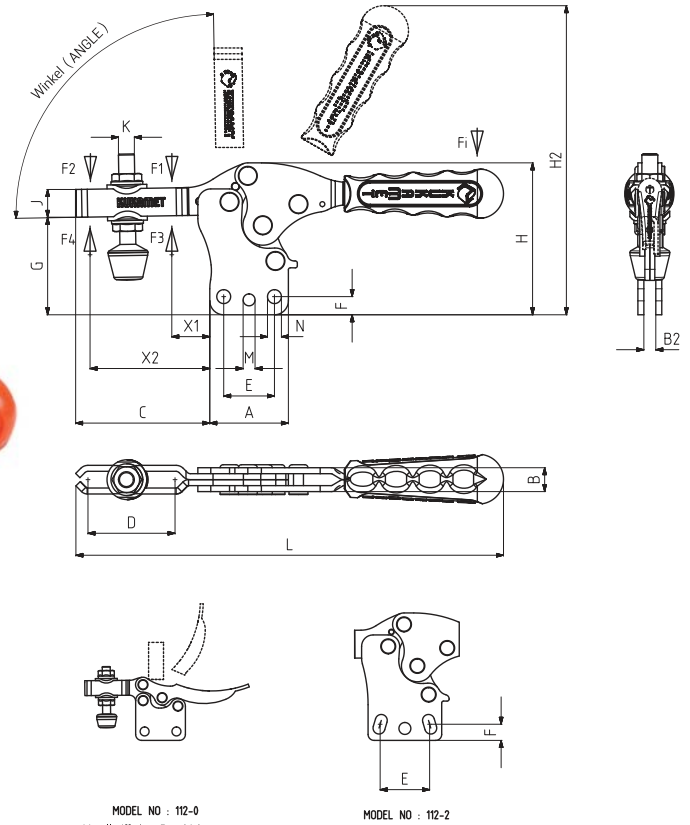


| Modell Nr. | A | B | C | D | E | F | G | H | H2 | J | K | L | M | N | X1 | X2 |
|------------|------|------|------|----|-----------|-------------|----|-----|-----|------|-----|------|-------|-----------|----|-----|
| 111 - 0 | 25 | 25 | 25,5 | 13 | 11 - 16 | 16 | 15 | 24 | 60 | 7,5 | M4 | 82,5 | | 4,5 x 7 | 11 | 18 |
| 111 - 1 | 33,5 | 32 | 43 | 28 | 14 - 23 | 17,5 - 20,5 | 21 | 40 | 95 | 10 | M5 | 148 | | 5 x 10 | 15 | 33 |
| 111 - 2 | 37 | 40 | 66 | 47 | 23,7 - 26 | 20 - 27,5 | 28 | 51 | 110 | 14 | M6 | 184 | Ø 6 | 6 x 10 | 19 | 54 |
| 111 - 3 | 39,5 | 46,5 | 68 | 42 | 25,5 | 24 - 32,5 | 34 | 61 | 136 | 14 | M 8 | 215 | Ø 6 | 7 x 11,5 | 25 | 53 |
| 111 - 4 | 58 | 60 | 100 | 73 | 41,5 | 36 - 43 | 45 | 82 | 175 | 19 | M10 | 296 | Ø 8,5 | 9 x 12,5 | 27 | 83 |
| 111 - 5 | 75 | 66 | 129 | 92 | 42 - 53 | 42 | 55 | 104 | 218 | 25,5 | M12 | 345 | Ø 10 | 10 x 15,5 | 37 | 107 |

| Modell Nr. | Rostfrei (Edelstahl) (STAINLESS) | Schwarz (BLACK) | F1 (N) | F2 (N) | F3 (N) | F4 (N) | Fi | | Andruckspindel (SQUEEZE SCREW) | Winkel (ANGLE) (±5 °) | Gewicht (WEIGHT) (gr) |
|------------|--|--------------------|-----------|-----------|-----------|-----------|---|---|-----------------------------------|-----------------------------|-----------------------------|
| | | | | | | | (X1) Andruckkraft (YIELD) (F1 : Fi) | (X2) Andruckkraft (YIELD) (F2 : Fi) | | | |
| 112 - 0 | S 112 - | B 112 - | 450 | 300 | 520 | 350 | 5:1 | 2:1 | M4X25 | 90 ° | 42 |
| 112 - 1 | S 112 - | B 112 - | 850 | 650 | 1000 | 800 | 7:1 | 3:1 | M5X35 | 90 ° | 125 |
| 112 - 2 | S 112 - | B 112 - | 1000 | 750 | 1200 | 1000 | 7:1 | 3:1 | M6X40 | 90 ° | 225 |
| 112 - 3 | S 112 - | B 112 - | 2300 | 1250 | 2500 | 1350 | 8:1 | 4:1 | M8X50 | 90 ° | 340 |
| 112 - 4 | S 112 - | B 112 - | 3500 | 1800 | 3650 | 2000 | 9:1 | 4:1 | M10X70 | 90 ° | 810 |
| 112 - 5 | S 112 - | B 112 - | 4500 | 2000 | 5000 | 2125 | 10:1 | 5:1 | M12X80 | 90 ° | 1520 |

F1 - F2 : Druckkraft (EXERTING FORCE), F3 - F4 : Haltekraft (HOLDING CAPACITY), Fi : Anwendungskraft (APPLIED FORCE)

112



Befestigungsart : mit senkrechtem Fuß
Body Mounting Base: Vertical

MODEL NO : 112-0
Metallgriff ohne Beschichtung
(not covered metal handle)

MODEL NO : 112-2



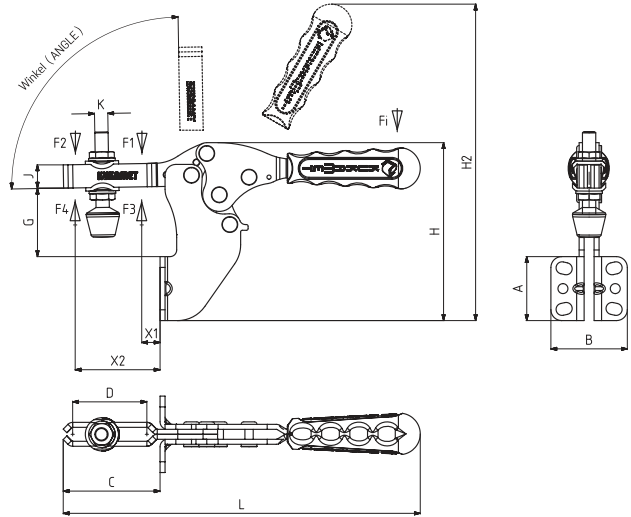
| Modell Nr. | A | B | B2 | C | D | E | F | G | H | H2 | J | K | L | M | N | X1 | X2 |
|------------|------|----|----|------|----|-----------|----------|------|-----|-----|------|-----|------|-------|--------|----|-----|
| 112 - 0 | 25 | 7 | 4 | 25.5 | 13 | 16 | 4.5 | 22.5 | 32 | 68 | 7.5 | M4 | 82.5 | | Ø 4.5 | 11 | 18 |
| 112 - 1 | 33.5 | 9 | 5 | 43 | 28 | 23 | 5.5 | 31 | 50 | 105 | 10 | M5 | 148 | | Ø 5 | 15 | 33 |
| 112 - 2 | 37 | 10 | 5 | 66 | 47 | 23.7 - 26 | 10 - 6.5 | 41 | 64 | 123 | 14 | M6 | 184 | Ø 6 | 6 x 10 | 19 | 54 |
| 112 - 3 | 39.5 | 12 | 6 | 68 | 42 | 25.5 | 9 | 49 | 76 | 151 | 14 | M8 | 215 | Ø 6 | Ø 7 | 25 | 53 |
| 112 - 4 | 58 | 16 | 8 | 100 | 73 | 41.5 | 8.5 | 65 | 102 | 195 | 19 | M10 | 296 | Ø 8.5 | Ø 9 | 27 | 83 |
| 112 - 5 | 75 | 20 | 10 | 129 | 92 | 47.5 | 12 | 75 | 124 | 238 | 25.5 | M12 | 345 | Ø 10 | Ø 10 | 37 | 107 |

| Modell Nr. | Rostfrei (Edelstahl) (STAIN- LESS) | Schwarz (BLACK) | F1 (N) | F2 (N) | F3 (N) | F4 (N) | Fi | | Andruckspindel (SQUEEZE SCREW) | Winkel (ANGLE) (± 5 °) | Gewicht (WEIGHT) (gr) |
|------------|--|--------------------|-----------|-----------|-----------|-----------|---|---|-----------------------------------|------------------------------|-----------------------------|
| | | | | | | | (X1) Andruckkraft (YIELD) (F1:Fi) | (X2) Andruckkraft (YIELD) (F2:Fi) | | | |
| 113 - 1 | S 113 - | B 113- | 850 | 650 | 1000 | 800 | 7:1 | 3:1 | M5X35 | 90 ° | 155 |
| 113 - 2 | S 113 - | B 113- | 1000 | 750 | 1200 | 1000 | 7:1 | 3:1 | M6X40 | 90 ° | 270 |
| 113 - 3 | S 113 - | B 113- | 2300 | 1250 | 2500 | 1350 | 8:1 | 4:1 | M8X50 | 90 ° | 420 |
| 113 - 4 | S 113 - | B 113- | 3500 | 1800 | 3650 | 2000 | 9:1 | 4:1 | M10X70 | 90 ° | 940 |
| 113 - 5 | S 113- | B 113- | 4500 | 2000 | 5000 | 2125 | 10:1 | 5:1 | M12X80 | 90 ° | 1840 |

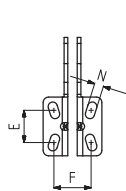
F1 - F2 : Druckkraft (EXERTING FORCE) , F3 - F4 : Haltekraft (HOLDING CAPACITY) , Fi : Anwendungskraft (APPLIED FORCE)



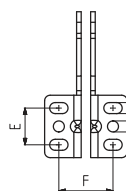
113



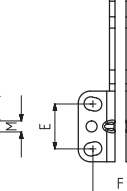
Befestigungsart : mit WinkelFuß
Body Mounting Base: Side Ward



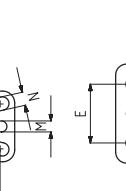
MODEL NO : 113-1



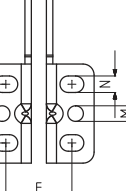
MODEL NO : 113-2



MODEL NO : 113-3



MODEL NO : 113-4



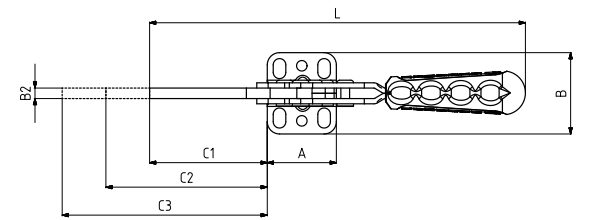
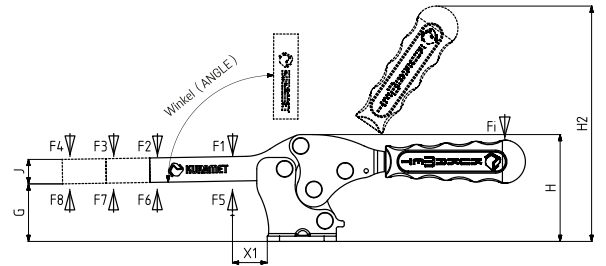
MODEL NO : 113-5



| Modell Nr. | A | B | C | D | E | F | G | H | H2 | J | K | L | M | N | X1 | X2 |
|------------|------|----|-----|----|-----------|-----------|------|-----|-----|------|-----|-----|-------|---------|----|----|
| 113 - 1 | 32 | 32 | 40 | 28 | 13,5-21,5 | 19-21,5 | 22,5 | 73 | 128 | 10 | M5 | 148 | | 5x9 | 12 | 30 |
| 113 - 2 | 34 | 45 | 60 | 47 | 20 | 25,5-33,5 | 34 | 90 | 149 | 14 | M6 | 184 | ∅ 6 | 6x10 | 13 | 48 |
| 113 - 3 | 38,5 | 46 | 58 | 42 | 24-25 | 27,5-32,5 | 41 | 107 | 183 | 14 | M 8 | 215 | ∅ 6 | 7x9,5 | 16 | 44 |
| 113 - 4 | 54 | 60 | 91 | 73 | 32 | 32-40 | 46,5 | 135 | 230 | 19 | M10 | 296 | ∅ 8,5 | 9x13 | 18 | 74 |
| 113 - 5 | 75 | 66 | 117 | 92 | 42-53 | 42 | 54 | 177 | 291 | 25,5 | M12 | 345 | ∅ 10 | 10x15,5 | 25 | 95 |

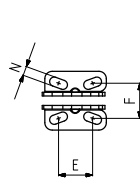
| Modell Nr. | Schwarz (BLACK) | F1 (N) | F2 (N) | F3 (N) | F4 (N) | F5 (N) | F6 (N) | F7 (N) | F8 (N) | Fi | | Winkel (ANGLE) (±5 °) | Gewicht (WEIGHT) (gr) |
|------------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|-----------------------------------|-----------------------------------|-----------------------|-----------------------|
| | | | | | | | | | | (X1) Andruckkraft (YIELD) (F1:Fi) | (C1) Andruckkraft (YIELD) (F2:Fi) | | |
| 111-1-D | B 111 - | 850 | 650 | 200 | 100 | 1000 | 800 | 200 | 125 | 7:1 | 3:1 | 90 ° | 100 |
| 111-2-D | B 111 - | 1000 | 750 | 300 | 220 | 1200 | 1000 | 350 | 250 | 7:1 | 3:1 | 90 ° | 200 |
| 111-3-D | B 111 - | 2300 | 1250 | 560 | 400 | 2500 | 1350 | 740 | 530 | 8:1 | 4:1 | 90 ° | 300 |
| 111-4-D | B 111 - | 3500 | 1800 | 900 | 700 | 3650 | 2000 | 1035 | 800 | 9:1 | 4:1 | 90 ° | 730 |
| 111-5-D | B 111 - | 4500 | 2000 | 1250 | 1000 | 5000 | 2125 | 1350 | 1080 | 10:1 | 5:1 | 90 ° | 1400 |

F1 – F2 – F3 – F4 : Druckkraft (EXERTING FORCE), F5 – F6 – F7 – F8 : Haltekraft (HOLDING CAPACITY), Fi : Anwendungskraft (APPLIED FORCE)

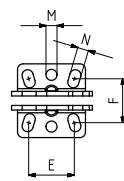


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*911-951
Please See Accessories Page

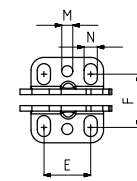
Befestigungsart : mit waagrechtm Fuß
Body Mounting Base: Horizontal



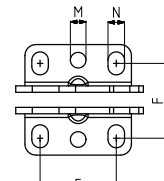
MODEL NO : 111-1-D



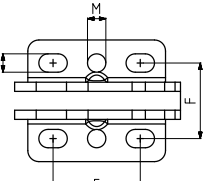
MODEL NO : 111-2-D



MODEL NO : 111-3-D



MODEL NO : 111-4-D



MODEL NO : 111-5-D



| Modell Nr. | A | B | B2 | C1 | C2 | C3 | D | E | F | G | H | H2 | J | K | L | M | N | X1 |
|------------|------|------|----|-----|-----|-----|---|-----------|-------------|----|-----|-----|------|---|-----|-------|-----------|----|
| 111-1-D | 33,5 | 32 | 5 | 43 | 93 | 143 | | 14 - 23 | 17,5 - 20,5 | 21 | 40 | 95 | 10 | | 148 | | 5 x 10 | 15 |
| 111-2-D | 37 | 40 | 5 | 66 | 116 | 166 | | 23,7 - 26 | 20 - 27,5 | 28 | 51 | 110 | 14 | | 184 | Ø 6 | 6 x 10 | 19 |
| 111-3-D | 39,5 | 46,5 | 6 | 68 | 118 | 168 | | 25,5 | 24 - 32,5 | 34 | 61 | 136 | 14 | | 215 | Ø 6 | 7 x 11,5 | 25 |
| 111-4-D | 58 | 60 | 8 | 100 | 150 | 200 | | 41,5 | 36 - 43 | 45 | 82 | 175 | 19 | | 296 | Ø 8,5 | 9 x 12,5 | 27 |
| 111-5-D | 75 | 66 | 10 | 129 | 179 | 229 | | 42 - 53 | 42 | 55 | 104 | 218 | 25,5 | | 345 | Ø 10 | 10 x 15,5 | 37 |

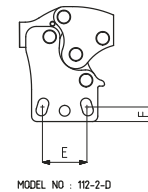
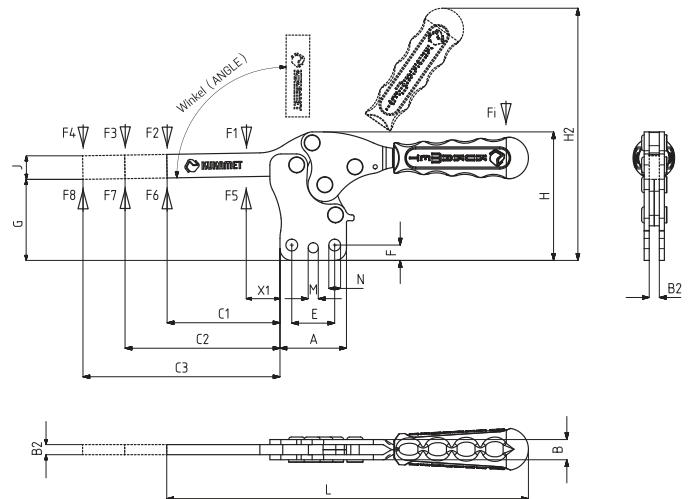
| Modell Nr. | Schwarz (BLACK) | F1 (N) | F2 (N) | F3 (N) | F4 (N) | F5 (N) | F6 (N) | F7 (N) | F8 (N) | Fi | | Winkel (ANGLE) (± 5 °) | Gewicht (WEIGHT) (gr) |
|-------------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|-----------------------------------|-----------------------------------|------------------------|-----------------------|
| | | | | | | | | | | (X1) Andruckkraft (YIELD) (F1:Fi) | (C1) Andruckkraft (YIELD) (F2:Fi) | | |
| 112 - 1 - D | B 112 - | 850 | 650 | 200 | 100 | 1000 | 800 | 200 | 125 | 7:1 | 3:1 | 90° | 100 |
| 112 - 2 - D | B 112 - | 1000 | 750 | 300 | 220 | 1200 | 1000 | 350 | 250 | 7:1 | 3:1 | 90° | 200 |
| 112 - 3 - D | B 112 - | 2300 | 1250 | 560 | 400 | 2500 | 1350 | 740 | 530 | 8:1 | 4:1 | 90° | 300 |
| 112 - 4 - D | B 112 - | 3500 | 1800 | 900 | 700 | 3650 | 2000 | 1035 | 800 | 9:1 | 4:1 | 90° | 730 |
| 112 - 5 - D | B 112 - | 4500 | 2000 | 1250 | 1000 | 5000 | 2125 | 1350 | 1080 | 10:1 | 5:1 | 90° | 1400 |

F1 - F2 - F3 - F4 : Druckkraft (EXERTING FORCE) , F5 - F6 - F7 - F8 : Haltekraft (HOLDING CAPACITY) , Fi : Anwendungskraft (APPLIED FORCE)

112-D



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*911-951
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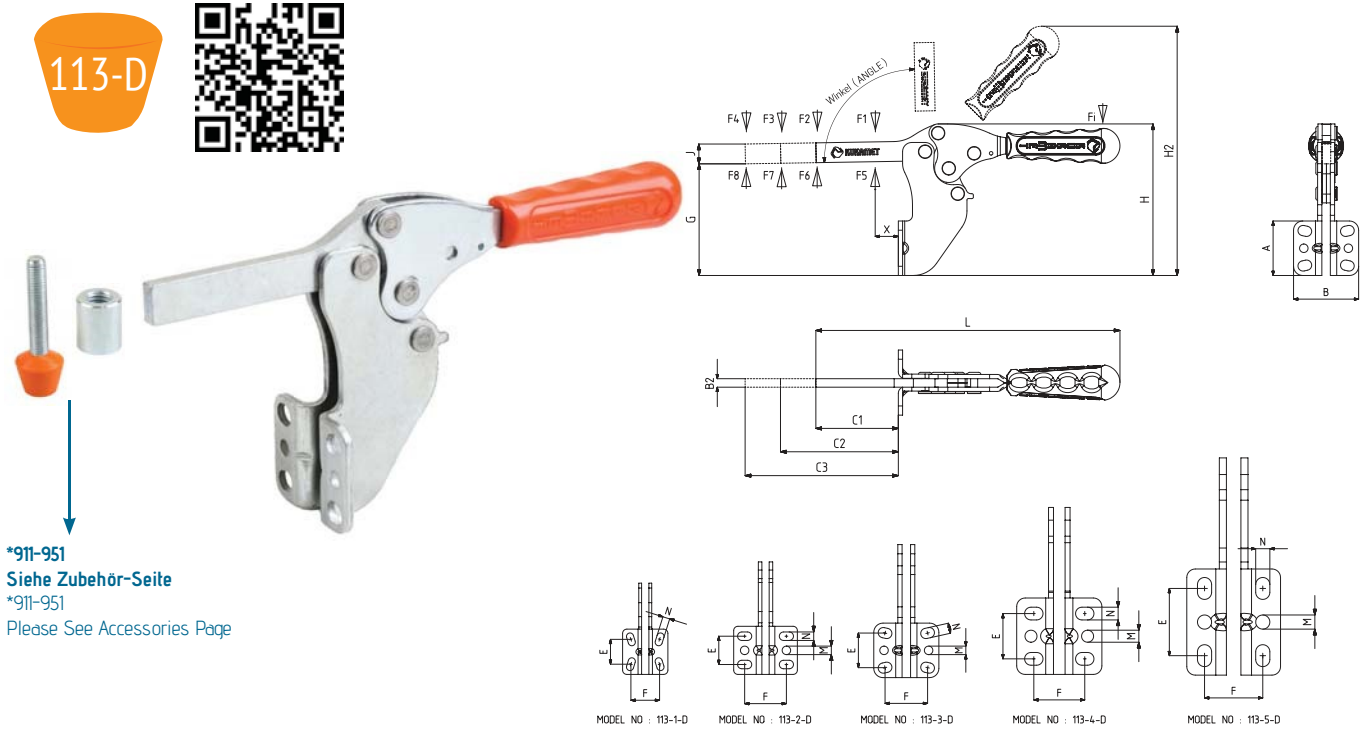
Befestigungsart : mit senkrechtem Fuß
Body Mounting Base: Vertical



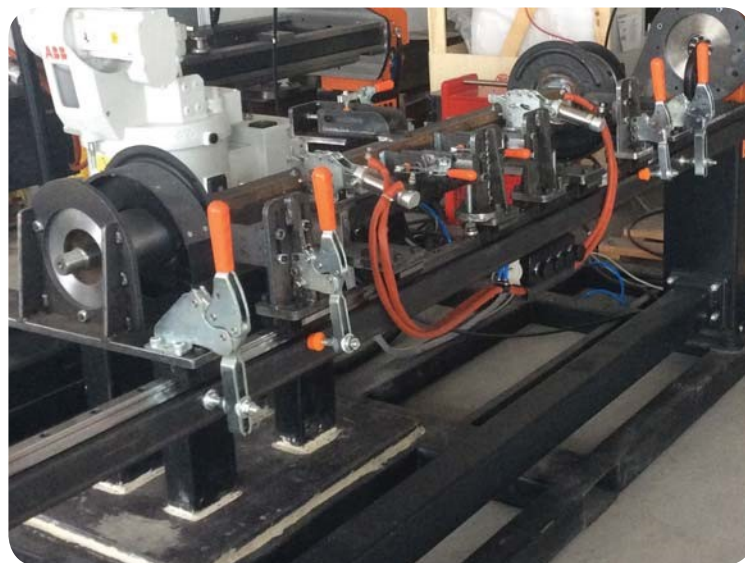
| Modell Nr. | A | B | B2 | C1 | C2 | C3 | D | E | F | G | H | H2 | J | K | L | M | N | X1 |
|-------------|------|----|----|-----|-----|-----|---|-----------|----------|----|-----|-----|------|---|-----|-------|--------|----|
| 112 - 1 - D | 33,5 | 9 | 5 | 43 | 93 | 143 | | 23 | 5,5 | 31 | 50 | 105 | 10 | | 148 | | Ø 5 | 15 |
| 112 - 2 - D | 37 | 10 | 5 | 66 | 116 | 166 | | 23,7 - 26 | 10 - 6,5 | 41 | 64 | 123 | 14 | | 184 | Ø 6 | 6 x 10 | 19 |
| 112 - 3 - D | 39,5 | 12 | 6 | 68 | 118 | 168 | | 25,5 | 9 | 49 | 76 | 151 | 14 | | 215 | Ø 6 | Ø 7 | 25 |
| 112 - 4 - D | 58 | 16 | 8 | 100 | 150 | 200 | | 41,5 | 8,5 | 65 | 102 | 195 | 19 | | 296 | Ø 8,5 | Ø 9 | 27 |
| 112 - 5 - D | 75 | 20 | 10 | 129 | 179 | 229 | | 47,5 | 12 | 75 | 124 | 238 | 25,5 | | 345 | Ø 10 | Ø 10 | 37 |

| Modell Nr. | Schwarz (BLACK) | F1 (N) | F2 (N) | F3 (N) | F4 (N) | F5 (N) | F6 (N) | F7 (N) | F8 (N) | Fi | | Winkel (ANGLE) (±5 °) | Gewicht (WEIGHT) (gr) |
|-------------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|-----------------------------------|-----------------------------------|-----------------------|-----------------------|
| | | | | | | | | | | (X1) Andruckkraft (YIELD) (F1:Fi) | (C1) Andruckkraft (YIELD) (F2:Fi) | | |
| 113 - 1 - D | B 113 - | 850 | 650 | 200 | 100 | 1000 | 800 | 200 | 125 | 7:1 | 3:1 | 90 ° | 140 |
| 113 - 2 - D | B 113 - | 1000 | 750 | 300 | 220 | 1200 | 1000 | 350 | 250 | 7:1 | 3:1 | 90 ° | 250 |
| 113 - 3 - D | B 113 - | 2300 | 1250 | 560 | 400 | 2500 | 1350 | 740 | 530 | 8:1 | 4:1 | 90 ° | 370 |
| 113 - 4 - D | B 113 - | 3500 | 1800 | 900 | 700 | 3650 | 2000 | 1035 | 800 | 9:1 | 4:1 | 90 ° | 870 |
| 113 - 5 - D | B 113 - | 4500 | 2000 | 1250 | 1000 | 5000 | 2125 | 1350 | 1080 | 10:1 | 5:1 | 90 ° | 1720 |

F1 - F2 - F3 - F4 : Druckkraft (EXERTING FORCE), F5 - F6 - F7 - F8 : Haltekraft (HOLDING CAPACITY), Fi : Anwendungskraft (APPLIED FORCE)



Befestigungsart : mit Winkelfuß
Body Mounting Base: Side Ward



| Modell Nr. | A | B | B2 | C1 | C2 | C3 | D | E | F | G | H | H2 | J | K | L | M | N | X1 |
|-------------|------|----|----|-----|-----|-----|---|-----------|-------------|------|-----|-----|------|---|-----|-------|---------|----|
| 113 - 1 - D | 32 | 32 | 5 | 40 | 90 | 140 | | 13,5-21,5 | 19 - 21,5 | 55 | 73 | 128 | 10 | | 148 | | 5x9 | 12 |
| 113 - 2 - D | 34 | 45 | 5 | 60 | 110 | 160 | | 20 | 25,5 - 33,5 | 34 | 90 | 149 | 14 | | 184 | Ø 6 | 6x10 | 13 |
| 113 - 3 - D | 38,5 | 46 | 6 | 58 | 108 | 158 | | 24-25 | 27,5 - 32,5 | 41 | 107 | 183 | 14 | | 215 | Ø 6 | 7x9,5 | 16 |
| 113 - 4 - D | 54 | 60 | 8 | 91 | 141 | 191 | | 32 | 32 - 40 | 46,5 | 135 | 230 | 19 | | 296 | Ø 8,5 | 9x13 | 18 |
| 113 - 5 - D | 75 | 66 | 10 | 117 | 167 | 217 | | 42-53 | 42 | 54 | 177 | 291 | 25,5 | | 345 | Ø 10 | 10x15,5 | 25 |

mit Sicherheitsverriegelung/Locked

Bemerkung: Die technische Details der Modelle mit Sicherheitsverschluss befinden sich auf den Seiten 4, 5, 6, 7, 8 und 9

Note: Technical details of locked model 4, 5, 6, 7, 8 and 9



111-L



Befestigungsart : mit waagrechtem Fuß
Body Mounting Base: Horizontal



112-L



Befestigungsart : mit senkrechtem Fuß
Body Mounting Base: Vertical



113-L



Befestigungsart : mit Winkelfuß
Body Mounting Base: Side Ward



111-D-L



Befestigungsart : mit waagrechtem Fuß
Body Mounting Base: Horizontal



112-D-L



Befestigungsart : mit senkrechtem Fuß
Body Mounting Base: Vertical



113-D-L

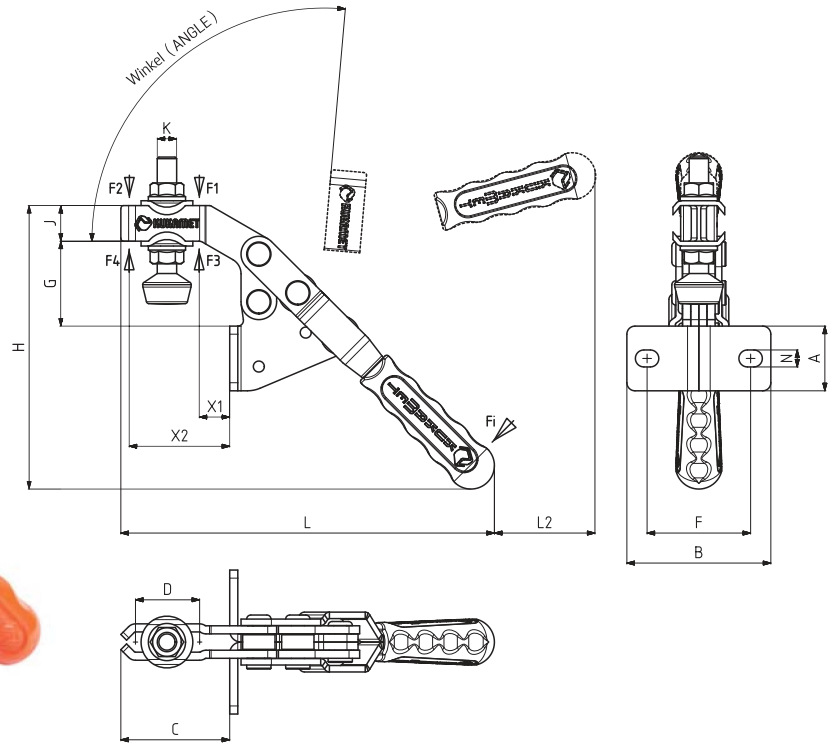


Befestigungsart : mit Winkelfuß
Body Mounting Base: Side Ward

| Modell Nr. | Rostfrei (Edelstahl) (STAINLESS) | Schwarz (BLACK) | F1 (N) | F2 (N) | F3 (N) | F4 (N) | Fi | | Andruckspindel (SQUEEZE SCREW) | Winkel (ANGLE) (± 5 °) | Gewicht WEIGHT (gr) |
|------------|--|--------------------|-----------|-----------|-----------|-----------|---|---|-----------------------------------|------------------------------|---------------------------|
| | | | | | | | (X1) Andruckkraft (YIELD) (F1 : Fi) | (X2) Andruckkraft (YIELD) (F2 : Fi) | | | |
| 133 - 5 | S 133 - | B 133 - | 4500 | 3250 | 5000 | 3500 | 10:1 | 5:1 | M12X80 | 90 ° | 1191 |

F1 - F2 : Druckkraft (EXERTING FORCE), F3 - F4 : Haltekraft (HOLDING CAPACITY), Fi : Anwendungskraft (APPLIED FORCE)

133



Befestigungsart : mit Winkelfuß
Body Mounting Base: Side Ward



| Modell Nr. | A | B | C | D | F | G | H | J | K | L | L2 | N | X1 | X2 |
|------------|----|----|-----|----|-------|------|-----|----|-----|-----|----|-------------|----|----|
| 133 - 5 | 40 | 89 | 675 | 20 | 60-68 | 52.5 | 180 | 22 | M12 | 233 | 62 | 10.5 x 14.5 | 21 | 56 |