

## Adjustable handles, plastic with external thread and clamping force intensifier, threaded insert black oxidized steel

Item description/product images



### Description

#### Product description:

By using adjustable handles with integrated clamping force intensifier, the clamping force can be increased by up to 75% compared to standard adjustable handles.

Furthermore, this product can also be used by persons with limited hand strength (e.g. in rehabilitation) to achieve comparable clamping forces with less effort. Less effort is also needed to loosen the adjustable handle.

The increase in clamping force is achieved by the integral needle roller thrust bearing, which generates very low surface friction on a rigid contact surface during clamping. The hardened thrust washers are designed for high clamping forces and the bearing with its high load rating guarantees a long service life.

The clamped component is permanently protected by the large, stationary contact surface. A washer is no longer required.

Due to the modular construction many special designs are available.

#### Material:

Handle fiberglass reinforced plastic with die-cast zinc toothed ring.  
Steel parts grade 5.8.

#### Version:

Steel parts black oxidized.  
Axial needle bearing with hardened and ground thrust washer.

#### Type of operation:

The handle lever is engaged in the toothed insert by means of a toothed ring when not actuated, enabling the thread to be tightened or loosened. By lifting the handle, it can be repositioned and re-engaged in the toothed ring by spring force.

#### Application:

Machine, equipment and plant construction, rehabilitation sector.

#### Assembly:

The screw-in depth must be at least 2 x the thread diameter and the thread should be lubricated lightly during installation.

#### Benefits:

Significant increase of the clamping force with the same tightening torque.  
High quality axial needle bearing with high load rating and long service life.  
The component surface is protected by the stationary lower ring.

#### On request:

Special versions.  
Other colors and thread lengths.

#### Drawing reference:

1) flat point DIN EN ISO 4753

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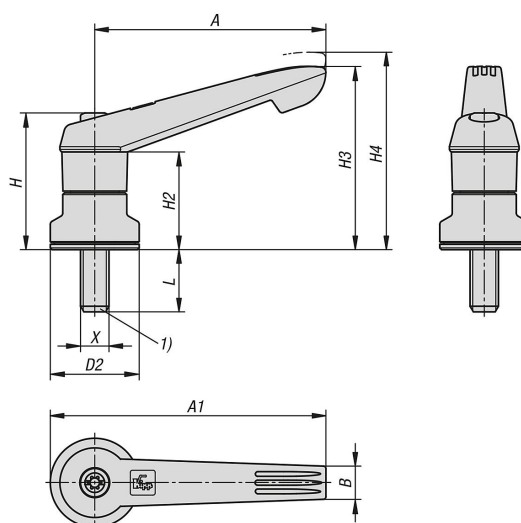


# Adjustable handles, plastic with external thread and clamping force intensifier, threaded insert black oxidized steel

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## Drawings



## Adjustable handles plastic with external thread and clamping force intensifier

| Order No.     | Main color          | X   | D2 | H    | H2   | H3   | H4   | A     | A1    | B    | L  |
|---------------|---------------------|-----|----|------|------|------|------|-------|-------|------|----|
| K1597.2081X10 | black gray RAL 7021 | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 10 |
| K1597.2081X20 | black gray RAL 7021 | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 20 |
| K1597.2081X30 | black gray RAL 7021 | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 30 |
| K1597.2081X40 | black gray RAL 7021 | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 40 |
| K1597.3101X15 | black gray RAL 7021 | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 15 |
| K1597.3101X30 | black gray RAL 7021 | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 30 |
| K1597.3101X40 | black gray RAL 7021 | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 40 |
| K1597.3101X50 | black gray RAL 7021 | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 50 |
| K1597.4101X20 | black gray RAL 7021 | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 20 |
| K1597.4101X30 | black gray RAL 7021 | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 30 |
| K1597.4101X40 | black gray RAL 7021 | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 40 |
| K1597.4101X50 | black gray RAL 7021 | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 50 |
| K1597.5121X20 | black gray RAL 7021 | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 20 |

## Adjustable handles, plastic with external thread and clamping force intensifier, threaded insert black oxidized steel

| Order No.      | Main color               | X   | D2 | H    | H2   | H3   | H4   | A     | A1    | B    | L  |
|----------------|--------------------------|-----|----|------|------|------|------|-------|-------|------|----|
| K1597.5121X30  | black gray RAL 7021      | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 30 |
| K1597.5121X40  | black gray RAL 7021      | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 40 |
| K1597.5121X50  | black gray RAL 7021      | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 50 |
| K1597.2082X10  | orange RAL 2004          | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 10 |
| K1597.2082X20  | orange RAL 2004          | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 20 |
| K1597.2082X30  | orange RAL 2004          | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 30 |
| K1597.2082X40  | orange RAL 2004          | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 40 |
| K1597.3102X15  | orange RAL 2004          | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 15 |
| K1597.3102X30  | orange RAL 2004          | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 30 |
| K1597.3102X40  | orange RAL 2004          | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 40 |
| K1597.3102X50  | orange RAL 2004          | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 50 |
| K1597.4102X20  | orange RAL 2004          | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 20 |
| K1597.4102X30  | orange RAL 2004          | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 30 |
| K1597.4102X40  | orange RAL 2004          | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 40 |
| K1597.4102X50  | orange RAL 2004          | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 50 |
| K1597.5122X20  | orange RAL 2004          | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 20 |
| K1597.5122X30  | orange RAL 2004          | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 30 |
| K1597.5122X40  | orange RAL 2004          | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 40 |
| K1597.5122X50  | orange RAL 2004          | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 50 |
| K1597.20816X10 | rapeseed yellow RAL 1021 | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 10 |
| K1597.20816X20 | rapeseed yellow RAL 1021 | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 20 |
| K1597.20816X30 | rapeseed yellow RAL 1021 | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 30 |
| K1597.20816X40 | rapeseed yellow RAL 1021 | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 40 |
| K1597.31016X15 | rapeseed yellow RAL 1021 | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 15 |
| K1597.31016X30 | rapeseed yellow RAL 1021 | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 30 |
| K1597.31016X40 | rapeseed yellow RAL 1021 | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 40 |
| K1597.31016X50 | rapeseed yellow RAL 1021 | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 50 |
| K1597.41016X20 | rapeseed yellow RAL 1021 | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 20 |
| K1597.41016X30 | rapeseed yellow RAL 1021 | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 30 |
| K1597.41016X40 | rapeseed yellow RAL 1021 | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 40 |
| K1597.41016X50 | rapeseed yellow RAL 1021 | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 50 |
| K1597.51216X20 | rapeseed yellow RAL 1021 | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 20 |
| K1597.51216X30 | rapeseed yellow RAL 1021 | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 30 |
| K1597.51216X40 | rapeseed yellow RAL 1021 | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 40 |
| K1597.51216X50 | rapeseed yellow RAL 1021 | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 50 |
| K1597.20886X10 | green RAL 6032           | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 10 |
| K1597.20886X20 | green RAL 6032           | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 20 |
| K1597.20886X30 | green RAL 6032           | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 30 |
| K1597.20886X40 | green RAL 6032           | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 40 |
| K1597.31086X15 | green RAL 6032           | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 15 |
| K1597.31086X30 | green RAL 6032           | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 30 |
| K1597.31086X40 | green RAL 6032           | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 40 |
| K1597.31086X50 | green RAL 6032           | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 50 |
| K1597.41086X20 | green RAL 6032           | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 20 |
| K1597.41086X30 | green RAL 6032           | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 30 |
| K1597.41086X40 | green RAL 6032           | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 40 |
| K1597.41086X50 | green RAL 6032           | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 50 |
| K1597.51286X20 | green RAL 6032           | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 20 |
| K1597.51286X30 | green RAL 6032           | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 30 |
| K1597.51286X40 | green RAL 6032           | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 40 |
| K1597.51286X50 | green RAL 6032           | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 50 |
| K1597.20887X10 | traffic blue RAL 5017    | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 10 |
| K1597.20887X20 | traffic blue RAL 5017    | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 20 |
| K1597.20887X30 | traffic blue RAL 5017    | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 30 |
| K1597.20887X40 | traffic blue RAL 5017    | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 40 |
| K1597.31087X15 | traffic blue RAL 5017    | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 15 |
| K1597.31087X30 | traffic blue RAL 5017    | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 30 |
| K1597.31087X40 | traffic blue RAL 5017    | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 40 |
| K1597.31087X50 | traffic blue RAL 5017    | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 50 |
| K1597.41087X20 | traffic blue RAL 5017    | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 20 |
| K1597.41087X30 | traffic blue RAL 5017    | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 30 |
| K1597.41087X40 | traffic blue RAL 5017    | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 40 |
| K1597.41087X50 | traffic blue RAL 5017    | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 50 |

## Adjustable handles, plastic with external thread and clamping force intensifier, threaded insert black oxidized steel

| Order No.      | Main color            | X   | D2 | H    | H2   | H3   | H4   | A     | A1    | B    | L  |
|----------------|-----------------------|-----|----|------|------|------|------|-------|-------|------|----|
| K1597.51287X20 | traffic blue RAL 5017 | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 20 |
| K1597.51287X30 | traffic blue RAL 5017 | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 30 |
| K1597.51287X40 | traffic blue RAL 5017 | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 40 |
| K1597.51287X50 | traffic blue RAL 5017 | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 50 |
| K1597.20884X10 | traffic red RAL 3020  | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 10 |
| K1597.20884X20 | traffic red RAL 3020  | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 20 |
| K1597.20884X30 | traffic red RAL 3020  | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 30 |
| K1597.20884X40 | traffic red RAL 3020  | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 40 |
| K1597.31084X15 | traffic red RAL 3020  | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 15 |
| K1597.31084X30 | traffic red RAL 3020  | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 30 |
| K1597.31084X40 | traffic red RAL 3020  | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 40 |
| K1597.31084X50 | traffic red RAL 3020  | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 50 |
| K1597.41084X20 | traffic red RAL 3020  | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 20 |
| K1597.41084X30 | traffic red RAL 3020  | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 30 |
| K1597.41084X40 | traffic red RAL 3020  | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 40 |
| K1597.41084X50 | traffic red RAL 3020  | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 50 |
| K1597.51284X20 | traffic red RAL 3020  | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 20 |
| K1597.51284X30 | traffic red RAL 3020  | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 30 |
| K1597.51284X40 | traffic red RAL 3020  | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 40 |
| K1597.51284X50 | traffic red RAL 3020  | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 50 |
| K1597.20888X10 | light gray RAL 7035   | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 10 |
| K1597.20888X20 | light gray RAL 7035   | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 20 |
| K1597.20888X30 | light gray RAL 7035   | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 30 |
| K1597.20888X40 | light gray RAL 7035   | M8  | 25 | 38,5 | 27,5 | 51,6 | 55,6 | 65    | 77,5  | 9,4  | 40 |
| K1597.31088X15 | light gray RAL 7035   | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 15 |
| K1597.31088X30 | light gray RAL 7035   | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 30 |
| K1597.31088X40 | light gray RAL 7035   | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 40 |
| K1597.31088X50 | light gray RAL 7035   | M10 | 30 | 47   | 34   | 63,4 | 67,9 | 80    | 95    | 11,1 | 50 |
| K1597.41088X20 | light gray RAL 7035   | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 20 |
| K1597.41088X30 | light gray RAL 7035   | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 30 |
| K1597.41088X40 | light gray RAL 7035   | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 40 |
| K1597.41088X50 | light gray RAL 7035   | M10 | 30 | 53,1 | 36   | 71,1 | 76,1 | 95,4  | 110,4 | 13,2 | 50 |
| K1597.51288X20 | light gray RAL 7035   | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 20 |
| K1597.51288X30 | light gray RAL 7035   | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 30 |
| K1597.51288X40 | light gray RAL 7035   | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 40 |
| K1597.51288X50 | light gray RAL 7035   | M12 | 35 | 59,1 | 43   | 82,8 | 87,8 | 109,9 | 127,4 | 15,6 | 50 |