

# DL19

## Data Sheet





DL19 standard



DL19 PLUS™

The DESKLIFT™ DL19 is a three-part lifting column with square profiles and a motor housing. It is a perfect choice for a wide range of different desk applications ranging from industry to office desks. The DL19 has the same outer dimensions (70 x 70 mm) and motor-housing mounting holes as the two-part DL18 column, which makes them fit the same top frame and foot constructions, including the Kick & Click™ top frame. The three-part construction ensures a short installation dimension combined with a long stroke length making the DL19 an optimum choice no matter what the height of the person using the desk is. The middle profile of the DL19 moves synchronously so the profiles are always in the same height optimising the desk design and the stability. The DL19 has a compact motor housing, which is almost invisible in the tabletop construction, and the column is very sturdy. The DL19 is available in several standard colours to fit into a wide range of desk designs.

The wide DL19 product programme offers various options such as:

- PLUS™ - a design-optimised version - optionally available with trim rings in black, grey or white for optimised appearance
- PLUS™ versions prepared for Click-on Feet
- PLUS™ High-speed - fast height adjustment and optimised design
- PLUS™ High-speed XL - fast height adjustment, optimised design, and long stroke length
- PIEZO™ (collision protection) minimising the risk of damage to a desk caused by collision with an obstacle
- versions for bench solutions

The DL19 system is controlled by a DESKLINE® control box (CBD). The control box ensures optimal parallel drive and a pleasantly low noise level. The DL19 can be used as a single column or in 2, 3 or 4 parallel systems, or up to 16 columns in multi-parallel systems. A Desk Sensor™ 1 anti-collision dongle can be plugged into the control box to limit material damage to a desk or an object in case a collision occurs during driving of the desk.

## Features/Options/Usage

### Features

- Three-part motor housing column
- Square profiles, outer profile 70 x 70 mm
- In combination with CBD6S:

Parameter	With CBD6S (300 W or 200 W)
Max. speed (unloaded)	38 mm/s
Max. load (per column)	800 N
Self-lock (per column)	800 N

- Installation dimension: 560 mm  
518 mm (BIFMA)
- Stroke length: 650 mm  
665 mm (BIFMA)
- Weight: 8.5 kg per column
- Dimensions column: 70 x 70 mm (outer profile), 63.6 x 63.6 mm (middle profile), and 57.2 x 57.2 mm (inner profile). See also [Dimensional drawings](#).
- Dimension motor housing: 177 x 97 x 46 mm
- Bending moment:  $M_y = \max. 150 \text{ Nm}$  dynamic
- Colour: Available in black (RAL 9005), silver grey (RAL 9006) or white (RAL9016)
- Low noise level

## Options

- PIEZO™: Integrated sensor minimising the risk for damage to a desk caused by squeezing or blocking it in upward or downward direction
- PLUS™: Invisible gliding pads and a smooth outer profile with no punch marks
- PLUS™ columns available with standard bracket
- PLUS™ columns available with trim rings in black, grey or white
- PLUS™ columns prepared for Click-on Feet
- PLUS™ columns available as high-speed variants for fast height adjustment (in combination with CBD6S with software SW03002024 version 1.03 or newer)

Parameter	With CBD6S (300 W)	With CBD6S (200 W)
Max. speed (unloaded)	80 mm/s	60 mm/s
Max. load (per column)	600 N	
Self-lock (per column)	1200 N	

- High-speed XL: PLUS™ High speed columns are available in variants with long stroke length

Parameter	With CBD6S (300 W)	With CBD6S (200 W)
Max. speed (unloaded)	80 mm/s	60 mm/s
Built-in dimension	785 mm	
Stroke length	1100 mm	
Max. load (per column)	600 N	
Self-lock (per column)	1200 N	
Bending moment	My = max. 100 Nm dynamic	

- Max. load 1200 N per column (12 mm spindle pitch)
- Available with bench bracket (see [Dimensional drawings](#))
- Available as DESKLIFT™ SetPack

## Usage

- Single or 2, 3 or 4 parallel drive or even multi-parallel with up to 16 columns
- Duty cycle: 10 %  $\approx$  2 minutes continuous use at full load, followed by 18 minutes pause
- For indoor use in dry locations
- Ambient temperature: 10 to 40 °C
- Storage and transportation temperature: -10 to +70 °C
- Compatible with DESKLINE® control boxes and all DESKLINE® controls
- Compatible with the Kick & Click™ top frame
- Compatible with DESKLIFT™ Feet; PLUS™ columns also compatible with Click-on Feet
- System compliance, see the Declaration of Conformity in the [User Manual](#)

## Ordering

	DL19	
SPINDLE TYPE	0	0 = 20 mm pitch (Standard) 3 = 30 mm pitch **      1 = 12 mm pitch (1200 N)
TRIM RINGS	0	0 = No trim rings      A = Grey trim rings * B = Black trim rings *      D = White trim rings *
MOUNTING BRACKET	0	0 = None      1 = 120 x 40 x 8 mm (with 2 x M8) * L = Bench bracket on left side      R = Bench bracket on right side V = Bench bracket on left side ***      H = Bench bracket on right side ***
COLOUR	B	A = Grey (RAL 9006)      B = Black (RAL 9005) D = White (RAL 9016)
OPTION	P	0 = Standard      P = PLUS series Z = Prepared for Click-on Foot *
MOTOR TYPE	0	0 = Standard      E = PIEZO T = High-speed *      V = High-speed + PIEZO *
STROKE LENGTH	650	650 = 650 mm      665 = 665 mm (BIFMA) 1100 = 1100 mm (High-speed XL) **
INSTALLATION DIM.	560	560 = 560 mm      518 = 518 mm (BIFMA) 785 = 785 mm (High-speed XL) **

**Selected item type: DL19000BP0650560**

\*: Only available with PLUS™ columns. Not available for 12 mm spindle (1200 N) columns

\*\* : Always in combination with motor type option T or V

\*\*\*: Columns with bench bracket compatible with the LINAK cross member set for a complete bench solution.  
Cross members must be ordered separately



All cables for creating a fully connected DESKLINE® system must be ordered separately. We offer a range of different versions and lengths. For more information as ordering number, colour and length of the cables - please contact your local LINAK



If you want to operate a 1200 N column **without** PIEZO™ with a desk panel with display, you must configure the actuator type in the control box to ensure the correct read-out.

If you want to operate a 1200 N column **with** PIEZO™, do not configure the actuator type. This column has IID and will automatically be detected as the right type of column.



A column in BIFMA version is less stable in the full stroke length compared to a standard column as it has less overlap between the profiles.

## Performance curves

The following data is measured in connection with 2 to 4 lifting columns and control box CBD6S. The desk is driving upwards.



The curves below apply to a centrally placed load. With moment load, there will be increased friction in the columns, which will reduce the lifting force correspondingly.

### DL19 800 N (20 mm spindle) with CBD6S

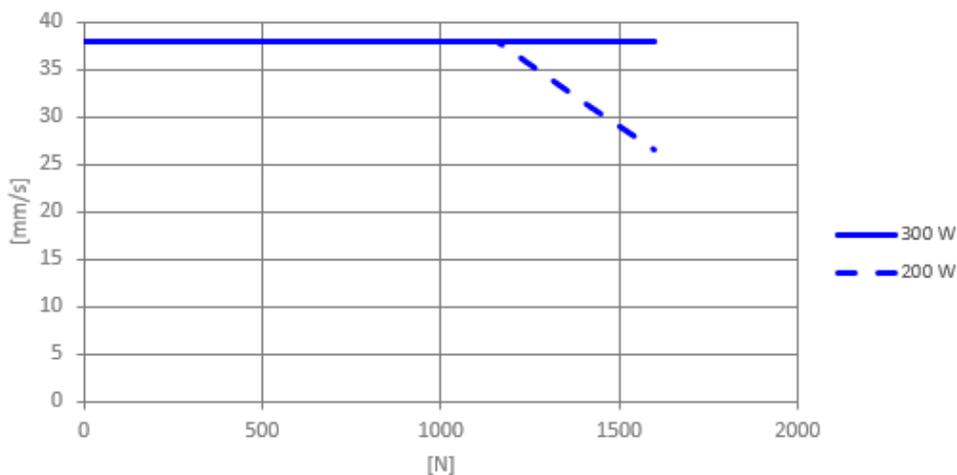


Figure 1 Two columns (equally loaded) with CBD6S

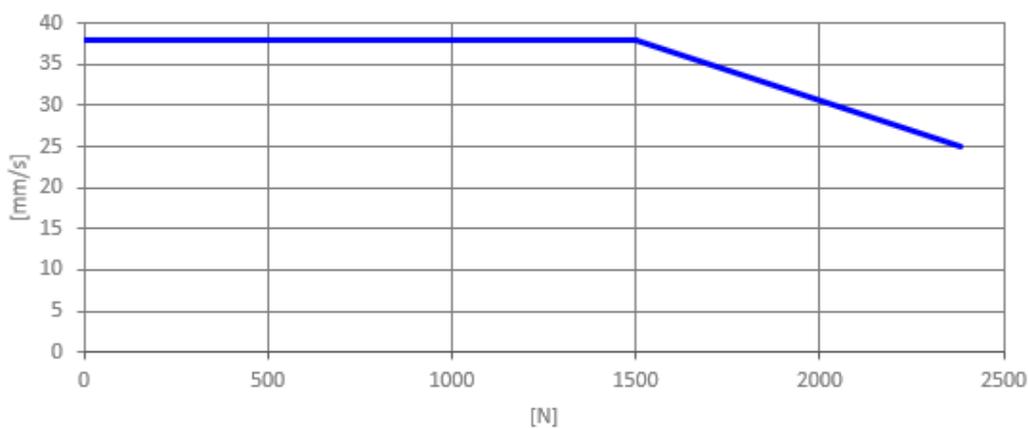


Figure 2 Three columns (equally loaded) with CBD6S

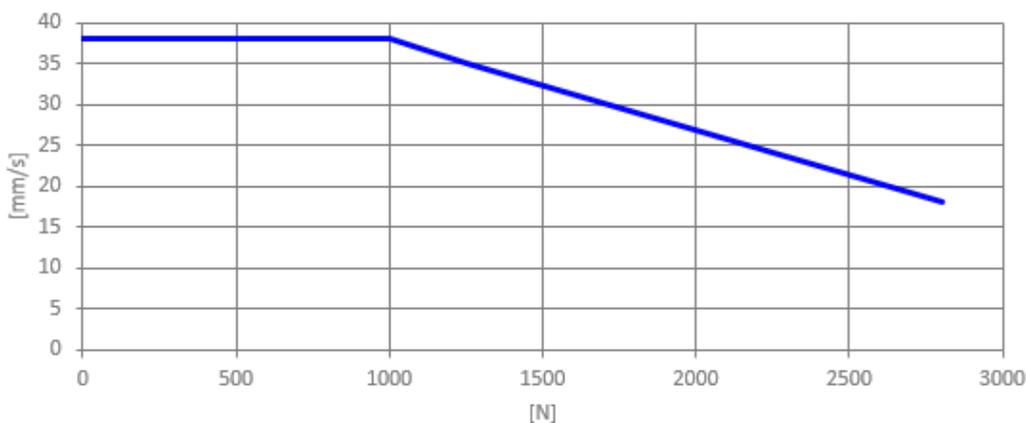


Figure 3 Four columns (equally loaded) with CBD6S

## DL19 High-speed columns

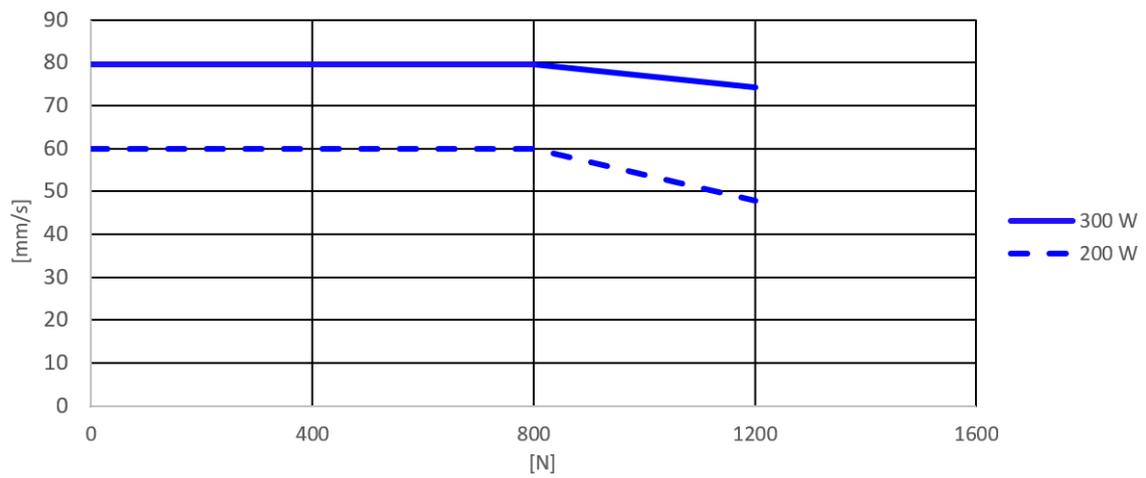


Figure 4 Two High-speed columns (equally loaded) with CBD6S

## DL19 1200 N (12 mm spindle) with CBD6S

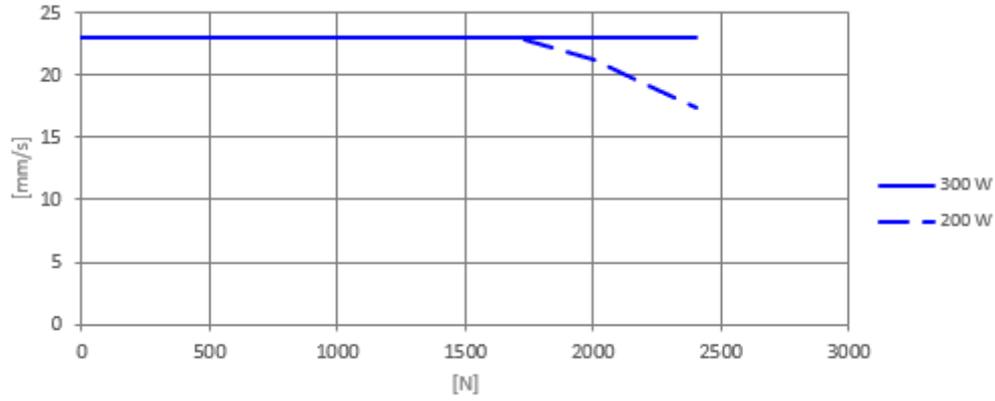


Figure 5 Two columns (equally loaded) with CBD6S

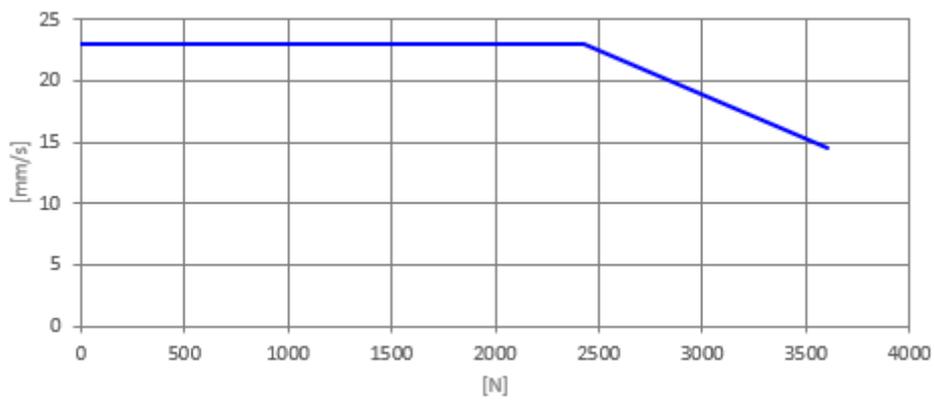


Figure 6 Three columns (equally loaded) with CBD6S

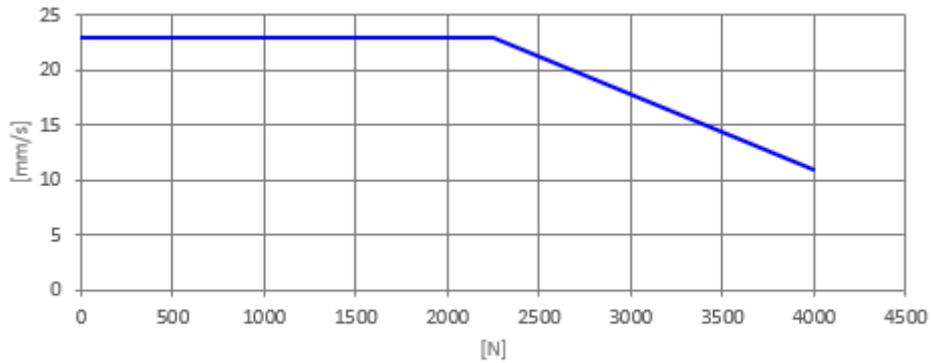
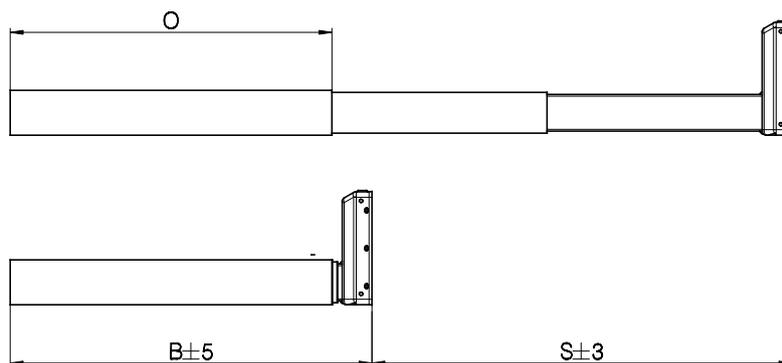


Figure 7 Four columns (equally loaded) with CBD6S

## Dimensional drawings

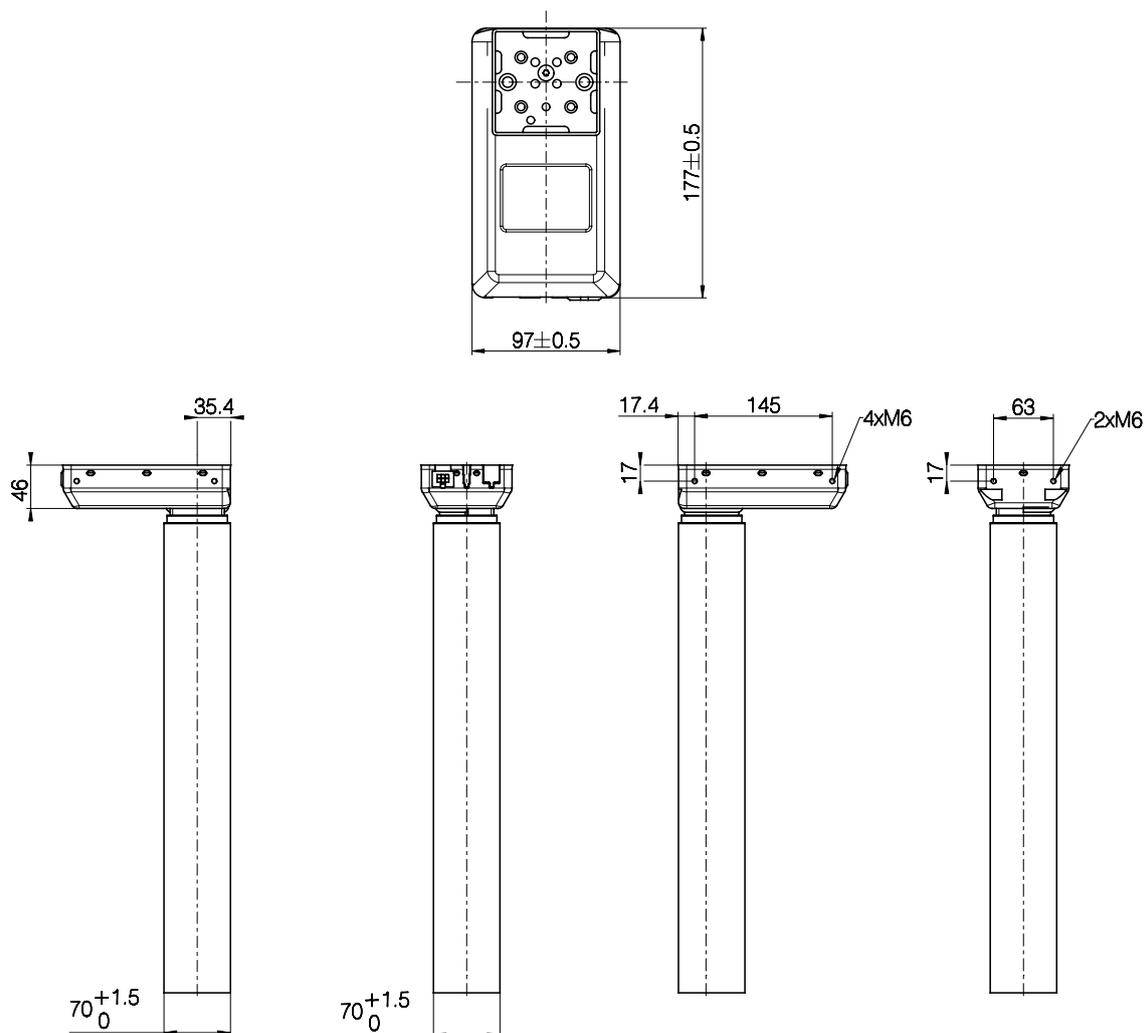
### Columns



Drawing No. 1029W7901

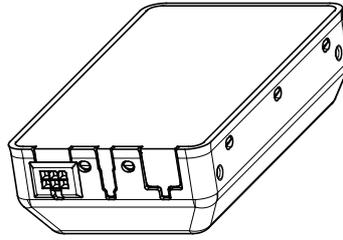
Version	Combination code	B (Built-in length) [mm]	S (Stroke length) [mm]	O (Outer profile length) [mm]
EU	DL19xxxxxx650560	560	650	498
BIFMA	DL19xxxxxx665518	518	665	456
High-speed XL	DL193xxxPx1100785	785	1100	723

Figure 8 Built-in length, stroke length, and outer profile length (mm)



Drawing No. 1029W7901

Figure 9 Motor-housing and profile dimensions (mm)

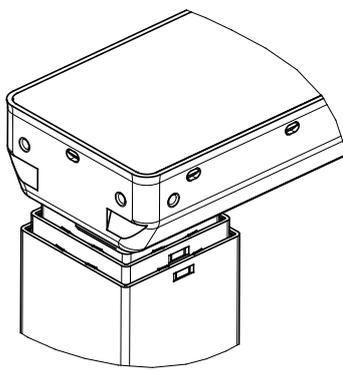


Standard

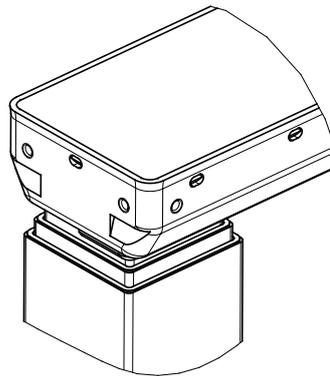
Drawing No. 1029W7901

Combination code	Type
DL19xxxxxxxxxxx	Standard

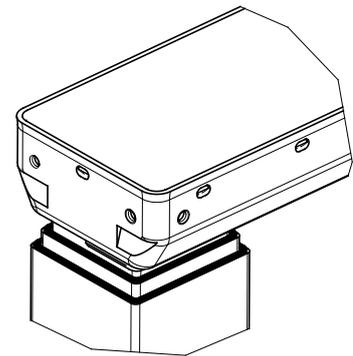
Figure 10 Socket combination



Standard



PLUS™ without trim rings

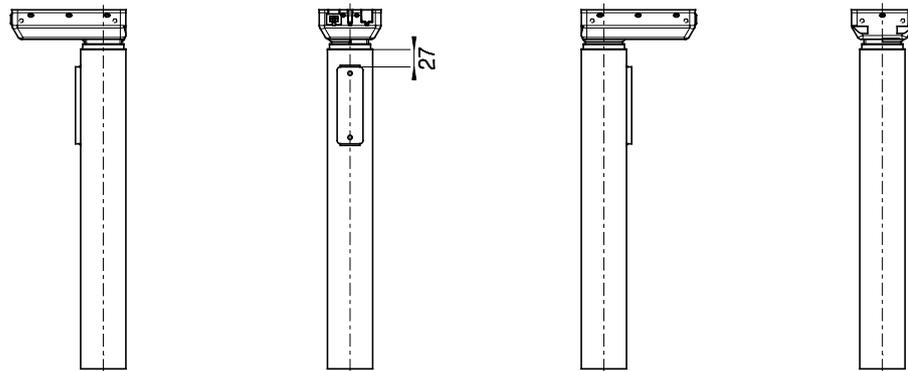


PLUS™ with trim rings

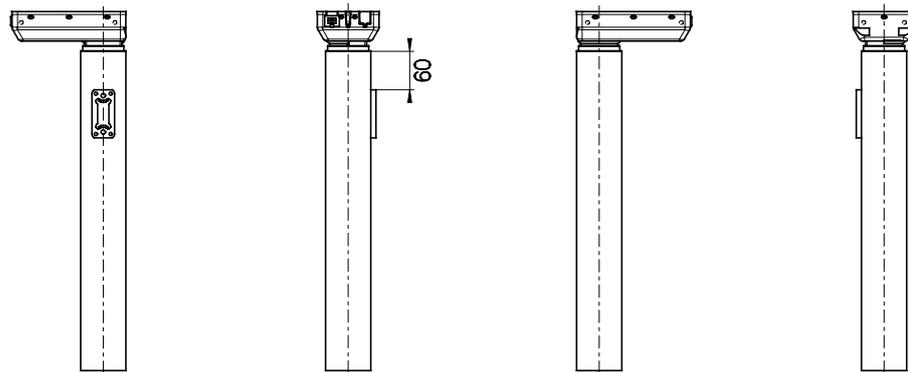
Drawing No. 1029W7901

Figure 11 Profile designs

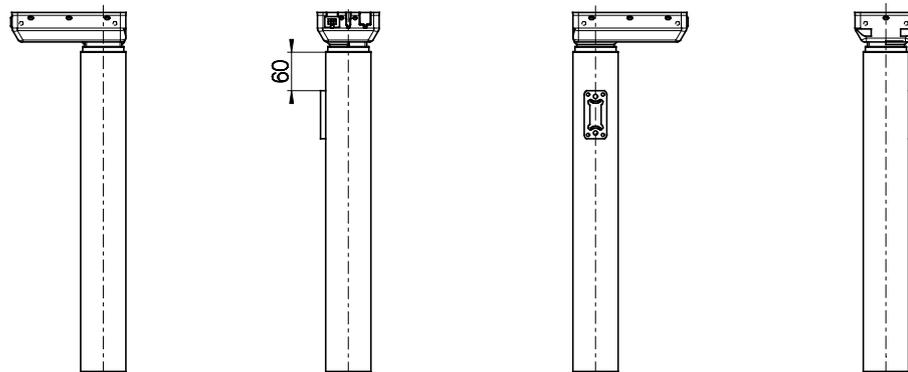
Standard



Bench left



Bench right



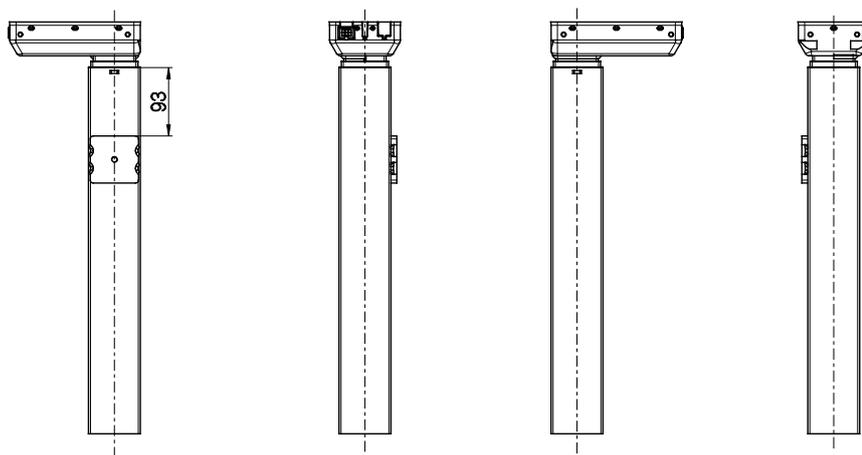
Drawing No. 1029W7901

Combination code	Standard	Bench left	Bench right
DL19xx1xPxxxxxxxx	X *		
DL19xxLxxxxxxxxxx		X	
DL19xxRxxxxxxxxxx			X

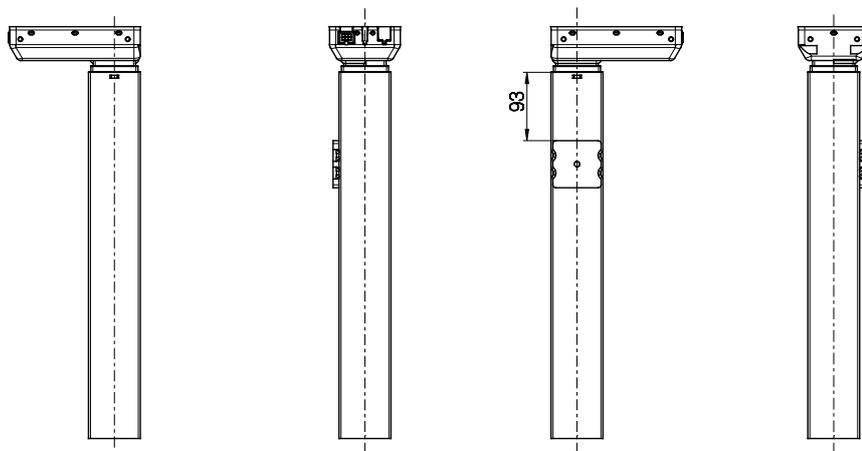
Figure 12 Bracket options (dimensions in mm)

\* Only available with PLUS™ columns

**DESKLINE Bench left**



**DESKLINE Bench right**



Drawing No. 1029W7901

Combination code	DESKLINE Bench left	DESKLINE Bench right
DL19xxVxPxxxxxxx	X *	
DL19xxHxPxxxxxxx		X *

Figure 13 DESKLINE Bench bracket options (dimensions in mm)  
(compatible with LINAK cross members)

\* Only available with PLUS™ columns

## Brackets

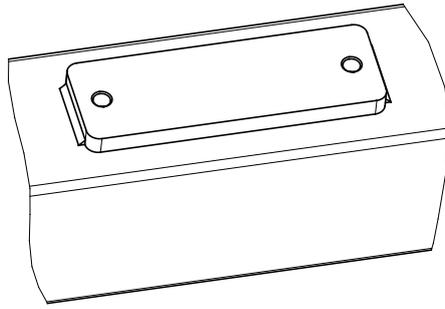


Figure 14 Standard bracket

Drawing No. 1029W7901

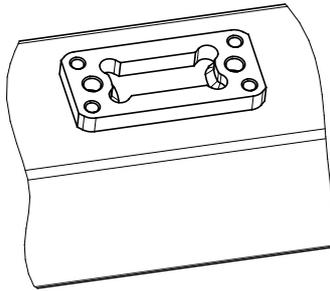


Figure 15 Bench bracket (type L and R)

Drawing No. 1029W7901

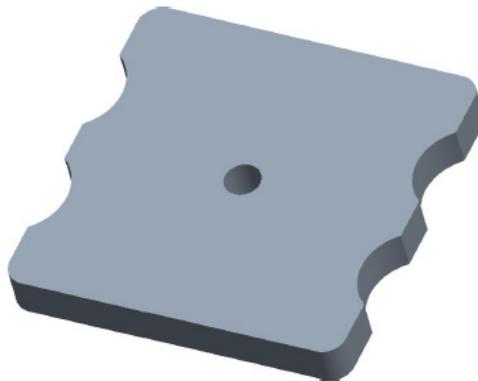
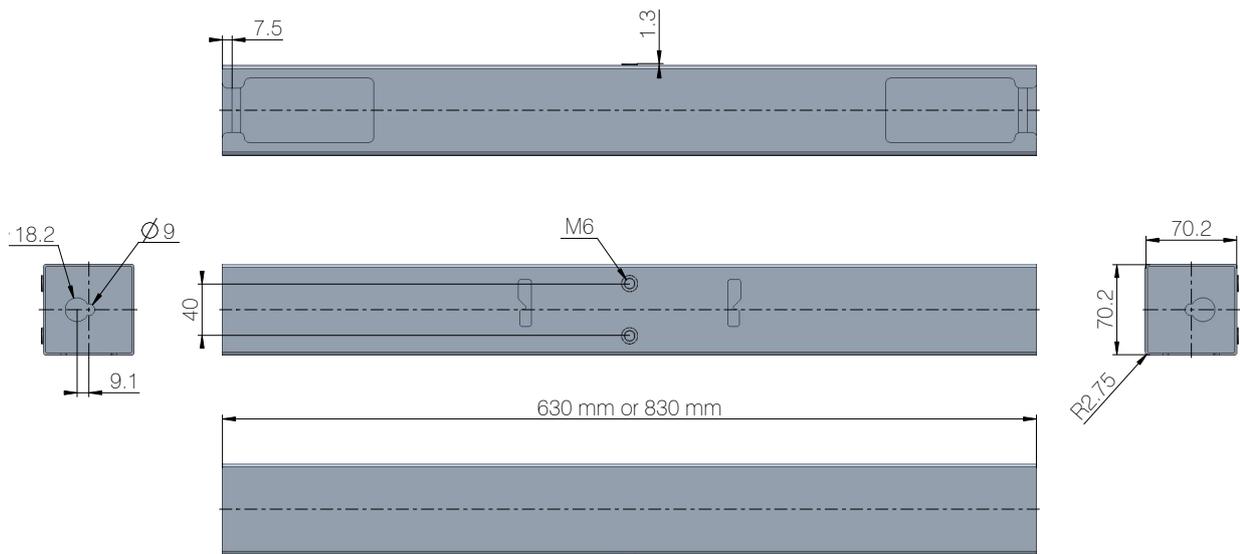


Figure 16 Bench bracket (type V and H)

Drawing No. 1066W4056

## Cross member



Drawing No. 1066W4028

Figure 17 Cross member dimensions (mm)

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