

DESKLIFT™ DL21 IC

Data Sheet





The DESKLIFT™ DL21 IC (Integrated Controller) is a compact three-part lifting column, based on the DL21 column. The DL21 IC is a perfect choice for adjustable economy office desks using only two columns but needing the maximum adjustment range. The DL21 IC lifting column has the same outer dimensions (50 x 80 mm) and mounting holes as the two-part DL20 IC column. Thus, they can be used in the same top frame and foot constructions, including the Kick & Click™ top frame. Versions prepared for Click-on Feet are also available. For benching desk solutions, the column is available with a bench bracket. The DL21 IC column is very sturdy, and the compact motor housing makes the column easy to integrate in various desk designs.

The DL21 is a PLUS™ column ensuring a clean design without visible gliding pads. The column is available in several colours, and trim rings for optimised appearance are available in black, grey or white.

An IC system consists of two columns, a Control column and a Companion column connected via a motor cable. The Control column has a built-in control PCB; thus, no separate control box must be mounted in an IC system. The mains supply is an external SMPS (Switch Mode Power Supply) unit, and a variety of desk panels can be used for adjusting the desk. A Desk Sensor™ 1 anti-collision dongle can be added to the system to limit material damage to a desk or an object in case a collision occurs during driving of the desk.

Features/Options/Usage

Features

- Two-part motor-housing column
- PLUS™: No visible gliding pads
- In combination with SMPS001/002/006:

Parameter	With SPMS001 / SMPS002 / SMPS006
Max. speed (unloaded)	38 mm/s
Max. load (per column)	500 N
Self-lock (per column)	500 N

- Installation dimension: 560 mm
518 mm (BIFMA)
- Stroke length: 650 mm
665 mm (BIFMA)
- Weight: Approximately 8.5 kg per column
- Dimensions column: 60 x 90 mm (see also [Dimension drawings](#))
- Dimension motor housing: 177 x 97 x 46 mm
- Four M6 and two M8 threaded holes in bottom plate for mounting of feet
- Colour: Available in black (RAL 9005), grey (RAL 9006) or white (RAL 9016)
- Low noise level

Options

- Available in custom colours
- Available with bench bracket
- Available with trim rings in black, grey or white
- Versions prepared for Click-on Feet

Usage

- 2 parallel drive with one DL21 IC Control, one DL21 IC Companion, and an external power supply (SMPS001 (230 V), SMPS002 (120 V) or SMPS006 (Universal))
- Duty cycle: 10 % ≈ 2 minutes continuous use at full load, followed by 18 minutes pause
- For indoor use in dry locations

Parameter	Operation	Storage and transportation
Temperature	10 to 40 °C	-10 to +50 °C
Relative humidity	20% to 80% - non-condensing	20% to 80% - non-condensing
Atmospheric pressure	700 to 1060 hPa	700 to 1060 hPa
Altitude	Max. 2000 m	Max. 2000 m

- Compatible with DESKLINE® controls
- Compatible with Battery Box BA001
- Compatible with the Kick & Click™ top frame
- Compatible with Click-on Feet
- System compliance, see the Declaration of Conformity in the [User Manual](#).



Be aware that when a desk panel DP1CS, DPF1C, DPF1D, or DPT is used, the light intensity must be configured to 50% before use.

Ordering

	DL21	
SPINDLE TYPE	0	0 = 20 mm pitch
TRIM RINGS	0	0 = No trim rings A = Grey trim rings B = Black trim rings D = White trim rings
MOUNTING BRACKET	0	0 = None L = Bench bracket on left narrow side (Companion) R = Bench bracket on right narrow side (Control)
COLOUR	B	A = Grey (RAL 9006) B = Black (RAL 9005) D = White (RAL 9016)
OPTION	P	P = PLUS series Z = Prepared for Click-on Foot
MOTOR TYPE	M	M = IC Control S = IC Companion
STROKE LENGTH	650	650 = 650 mm 665 = 665 mm (BIFMA)
INSTALLATION DIM.	560	560 = 560 mm 518 = 518 mm (BIFMA)
Selected item type: DL21000BPM650560		



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



Please observe that the item numbers for columns with bench bracket will be created so that the control column will be on the right and the companion column on the left side of the desk, seen from the position of the user.



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 data below is measured in connection with two IC lifting columns and SMPS001/002/006. 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.

With SMPS001/002/006

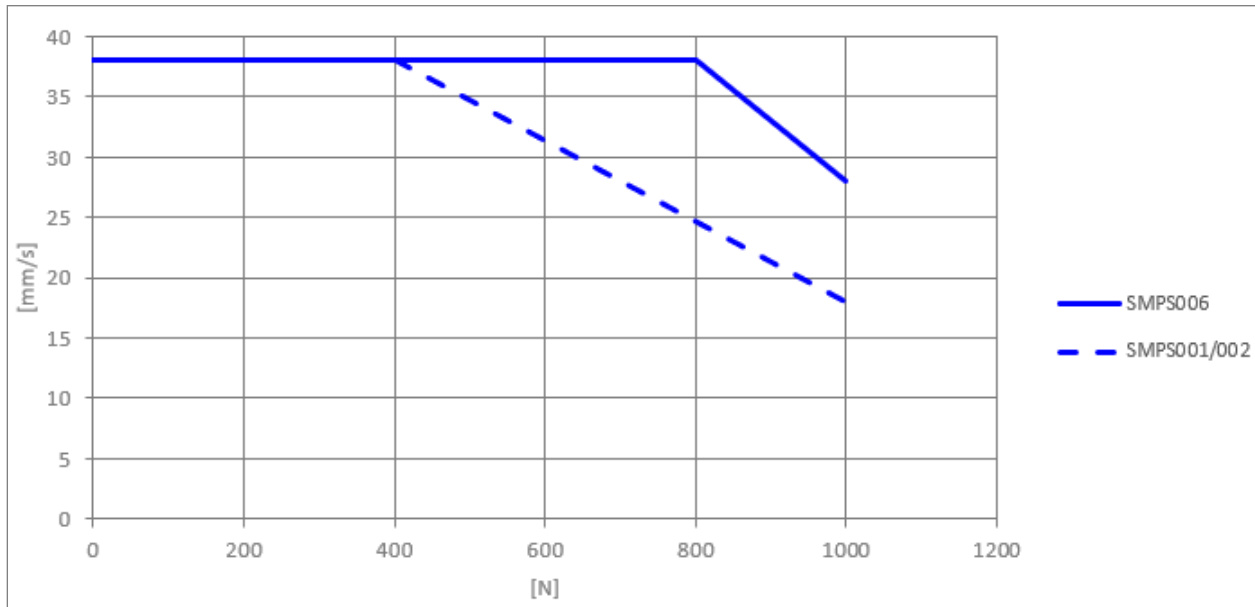


Figure 1 Two IC columns (equally loaded) with SMPS001/002/006



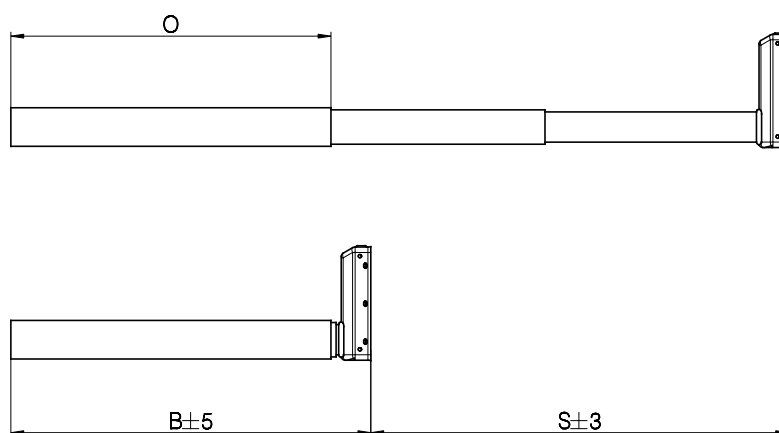
The end-stop system in the IC column is based on a buffer system, meaning that you must be aware of the lengths when initialising. The products must be able to drive:

Inward direction: Installation dimension - tolerances - 5 mm

Outward direction: Installation dimension + stroke length + tolerances + 5 mm

Dimension drawings

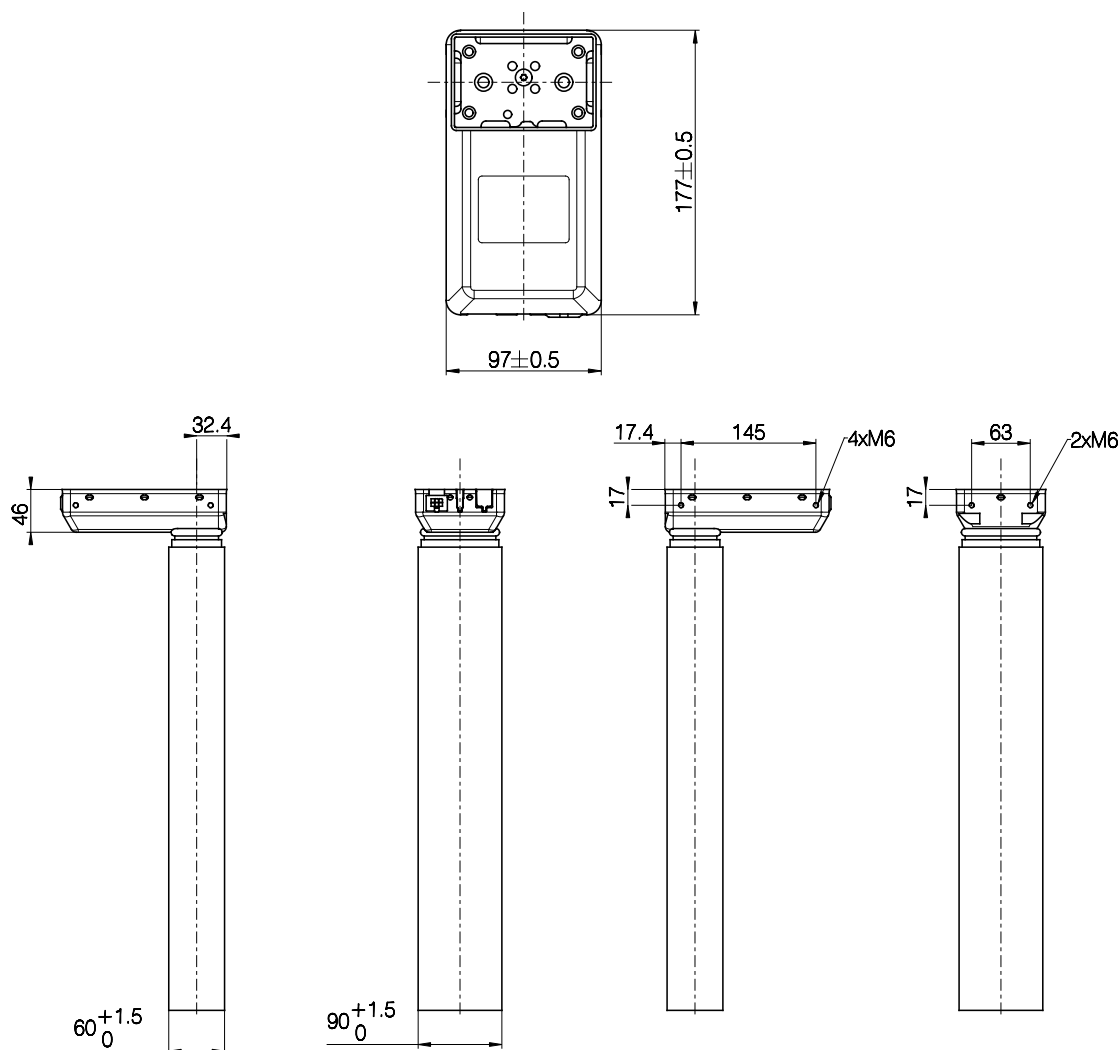
Columns



Drawing No. 1064W8901

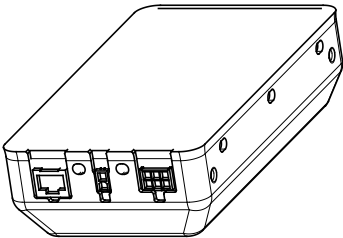
Version	Combination code	B (Built-in length) [mm]	S (Stroke length) [mm]	O (Outer profile length) [mm]
EU	DL21xxxxxx650560	560	650	498
BIFMA	DL21xxxxxx665518	518	665	456

Figure 2 Built-in length, stroke length, and outer profile length (mm)

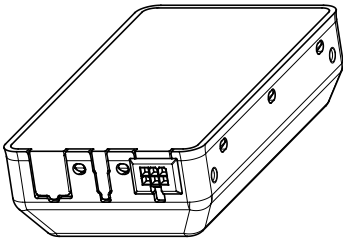


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Figure 3 Motor-housing and profile dimensions (mm)



IC Control

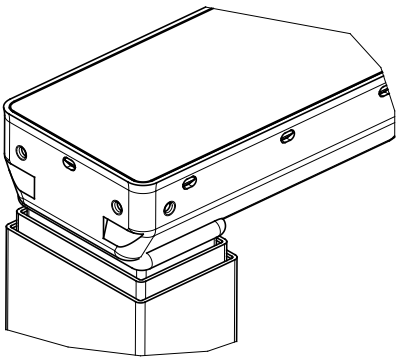


IC Companion

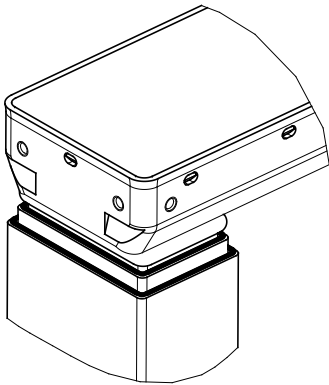
Drawing No. 1041W7906

Combination code	Type
DL21xxxxMxxxxxx	IC Control
DL21xxxxSxxxxxx	IC Companion

Figure 4 Socket combination



Without trim rings

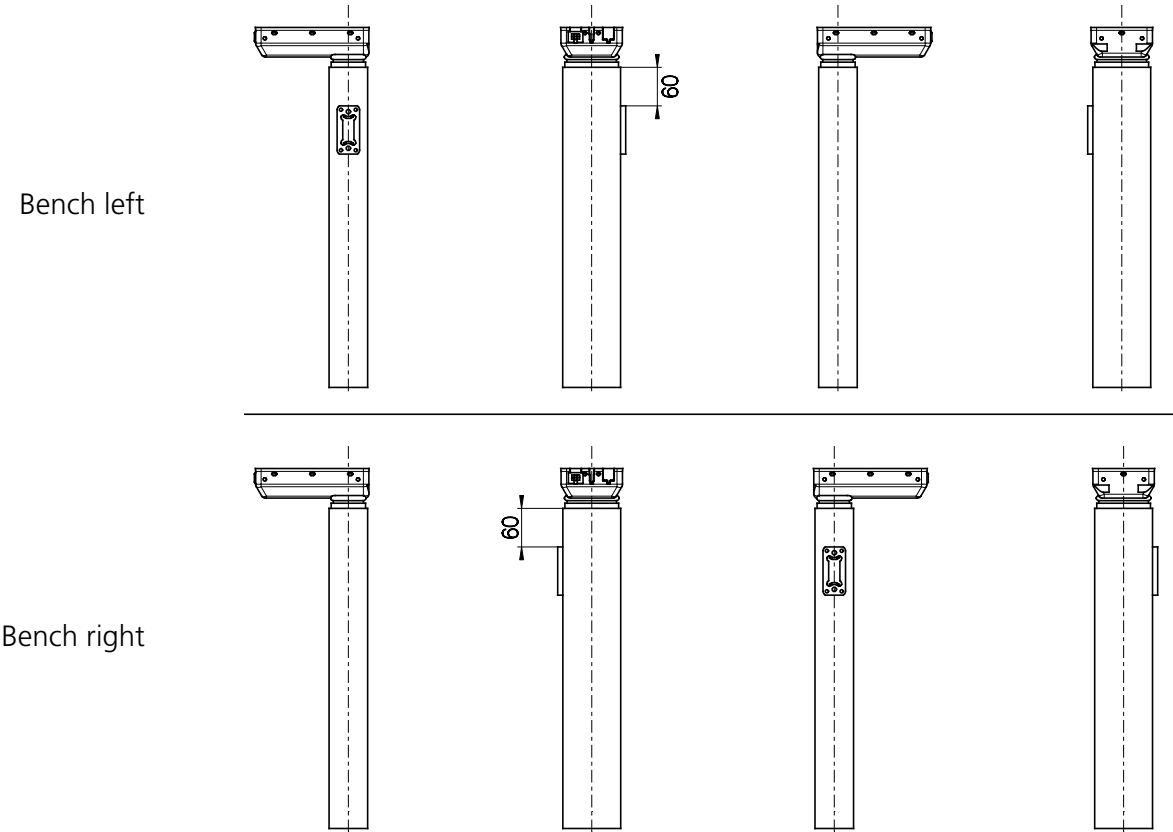


With trim rings

Drawing No. 1041W7906

Figure 5 Profile designs

Bracket options

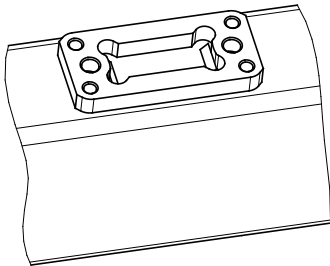


Drawing No. 1041W7906

Combination code	Bench left	Bench right
DL21xxLxxSxxxxxx	X	
DL21xxRxxMxxxxxx		X

Figure 6 Bracket options (dimensions in mm)

Bracket



Drawing No. 1041W7906

Figure 7 Bench bracket (type L and R) dimensions (mm)

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