

DESKLIFT™ DL20 IC

Data Sheet





The DESKLIFT™ DL20 IC (Integrated Controller) is a compact two-part lifting column. The DL20 IC is a perfect choice for adjustable economy office desks using only two columns and requiring a stroke length of maximum 500 mm. The DL20 IC lifting column has the same outer dimensions (60 x 90 mm) as the three-part DL21 IC column. For benching desk solutions, the column is available with a bench bracket. The DL20 IC column is very sturdy for which reason a crossbar is not necessary, and the compact motor housing makes the column easy to integrate in various desk designs.

The DL20 IC is a PLUS™ column ensuring a clean design without gliding pads. The column is available in three standard colours (black, grey and white) - and can optionally be delivered in other colours. 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 SMPS:

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

- Standard installation dimension: 645 mm
- Standard stroke length: 500 mm
- Weight: Approximately 6.8 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 trim rings in black, grey or white
- Available with bench bracket

Usage

- 2 parallel drive with one DL20 IC Control and one DL20 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
- 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

	DL20	
SPINDLE TYPE	0	0 = 20 mm pitch
TRIM RING	0	0 = No trim ring A = Grey trim ring B = Black trim ring D = Whit trim ring
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
MOTOR TYPE	0	M = Control S = Companion
STROKE LENGTH	500	500 = 500 mm
INSTALLATION DIM.	645	645 = 645 mm
Selected item type: DL20000BP0500645		



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.

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

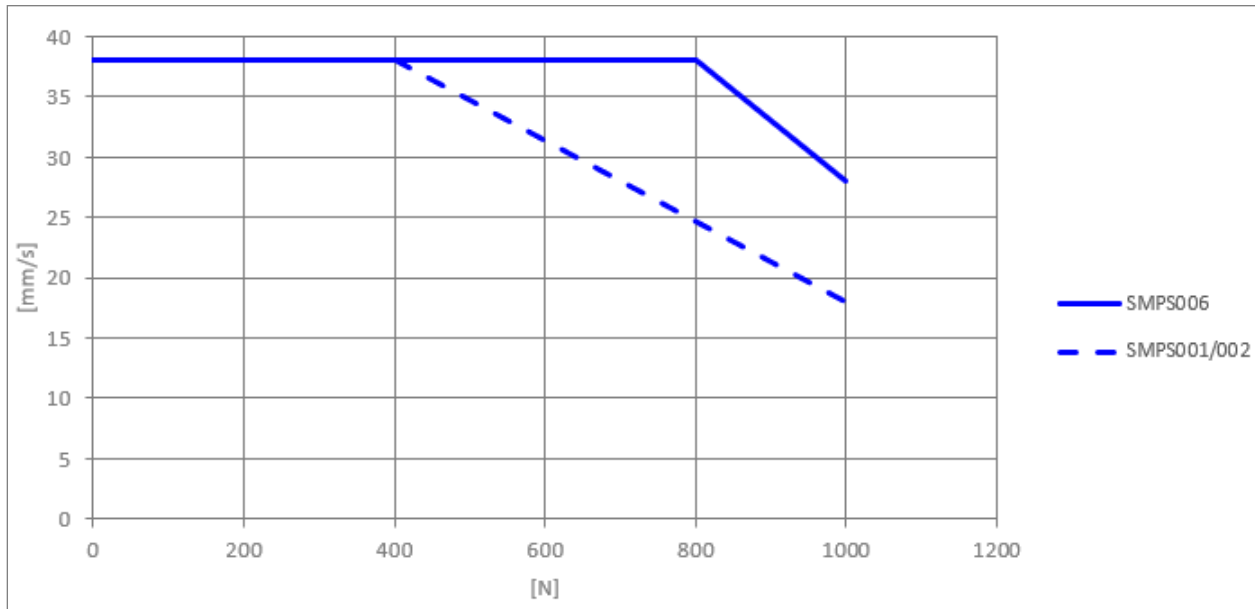


Figure 1 Two IC columns (equally loaded) with SMPS001/002/006



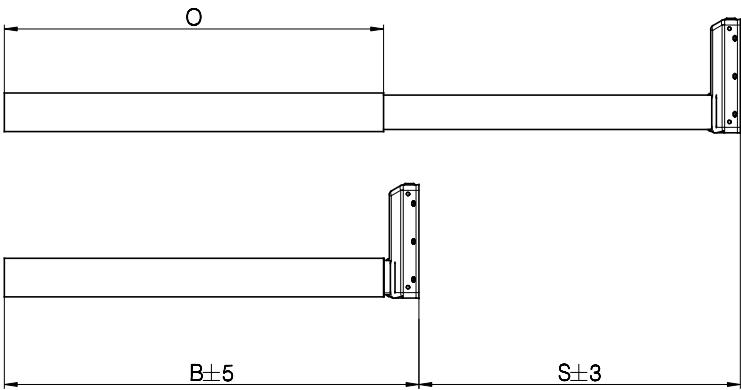
The end-stop system in the IC column is based on a buffer system, meaning that you must be aware of the lengths when initialising. The products must be able to drive:

Inward direction: Installation dimension - tolerances - 5 mm

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

Dimension drawings

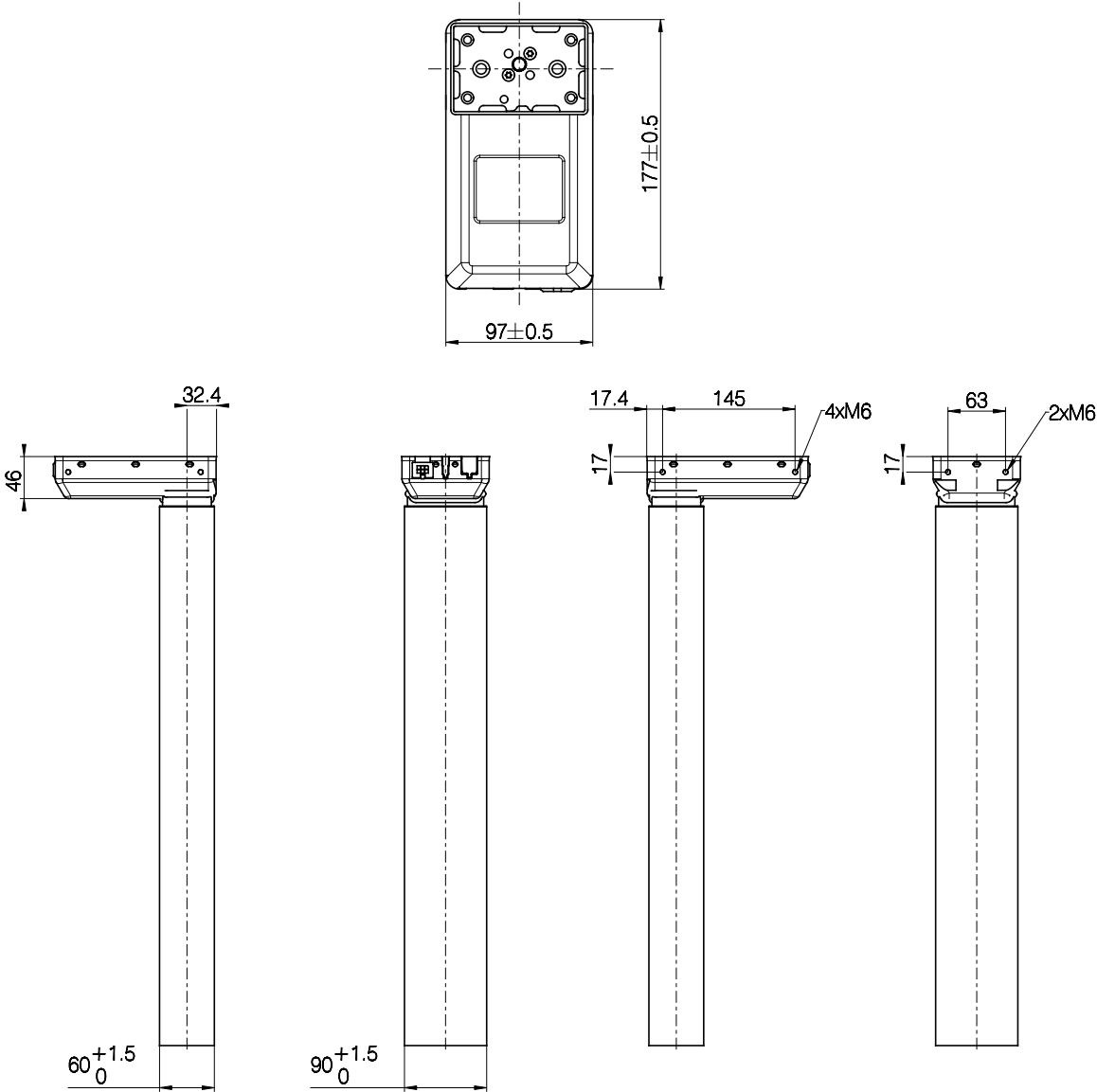
Columns



Drawing No. 1064W8902

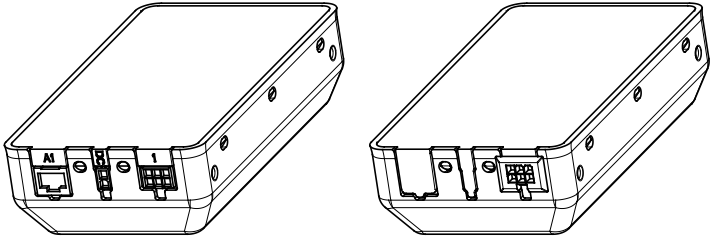
Combination code	B (Built-in length) [mm]	S (Stroke length) [mm]	O (Outer profile length) [mm]
DL20xxxxxx500645	645	500	590

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



Drawing No. 1064W8902

Figure 3 Motor-housing and profile dimensions (mm)



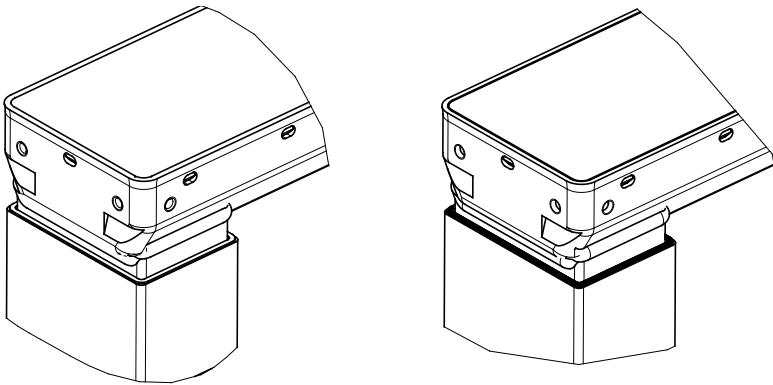
IC Control

IC Companion

Drawing No. 1064W8902

Combination code	Type
DL20xxxxxMxxxxxx	IC Control
DL20xxxxxSxxxxxx	IC Companion

Figure 4 Socket combination



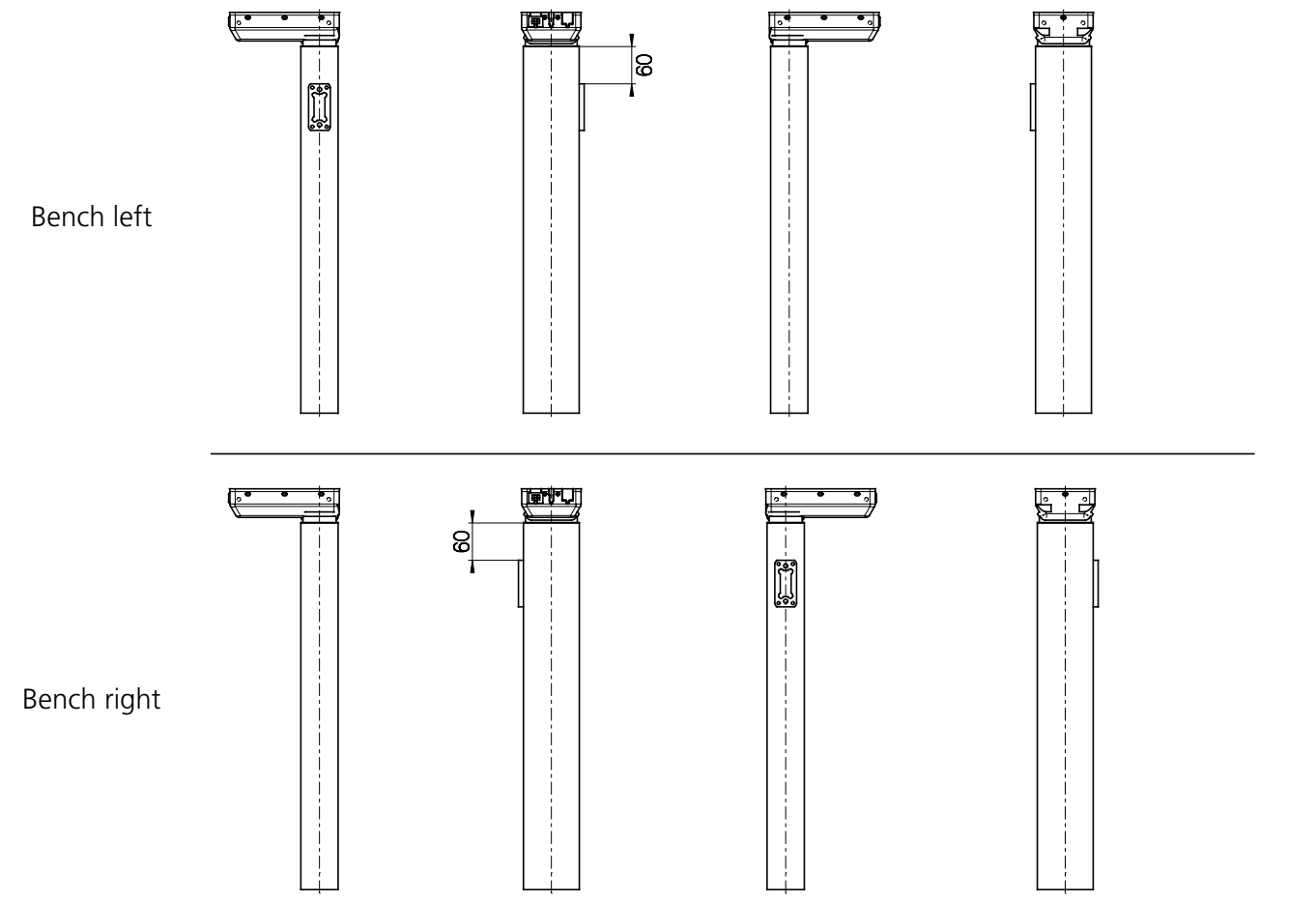
Without trim ring

With trim ring

Drawing No. 1064W8902

Figure 5 Profile design

Bracket options

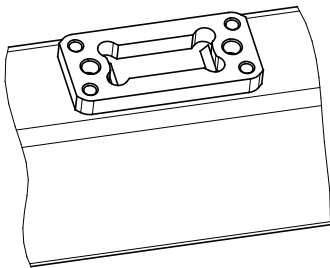


Drawing No. 1064W8902

Combination code	Bench left	Bench right
DL20xxLxxSxxxxxx	X	
DL20xxRxxMxxxxxx		X

Figure 6 Bracket options (dimensions in mm)

Bracket



Drawing No. 1041W7906

Figure 7 Bench bracket (types L and R)

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