Easys 100

de Betriebsanleitung

en Operation instructions

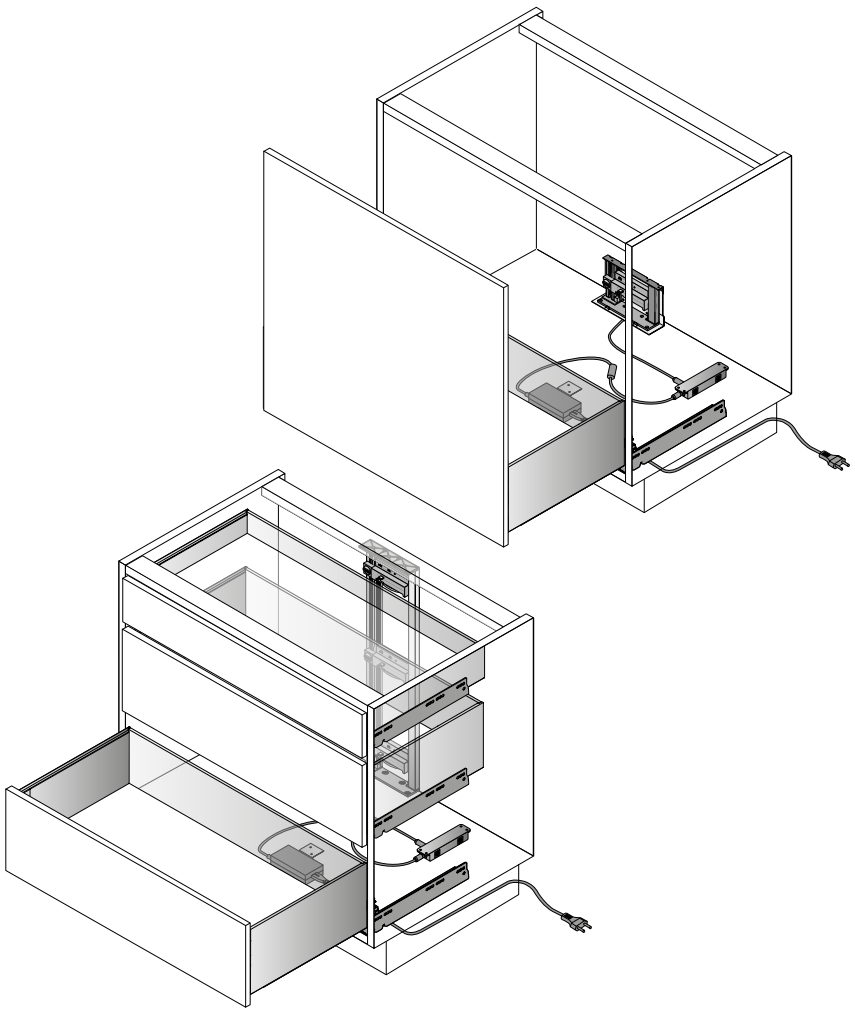
es Instrucciones de servicio

nl Bedieningshandleiding

it Istruzioni per l'uso

fr Instructions de service

cz Provozní návod



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About these instructions

These instructions provide the basis for using the Easys 100 electromechanical opening system (referred to below as "system") safely and efficiently. They are an integral part of the system and must be kept in its immediate proximity. They must be readily accessible to installation personnel and any later owner (referred to below as "personnel") at all times. These instructions must be passed on to any new owner whenever the system changes hands.



Personnel must have carefully read and understood these instructions before attempting any installation work and using the system. Working safety can only be ensured by observing all of the safety information and operating instructions provided in this manual. Also applicable are the local health and safety regulations and general safety standards with regard to using the system.

Illustrations shown in these instructions are intended to provide a basic understanding of the system and may differ from its actual design.

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Other applicable documents

Alongside these instructions, always be sure to follow the safety precautions and instructions provided on installing the system's components as well as the technical drawings and product data sheets included in the system package.

The information they contain – safety information in particular – must be followed at all times. The system's technical documentation provided by Hettich Marketing- und Vertriebs GmbH & Co. KG (HMV) shall also apply.

Product surveillance

In the context of product surveillance, we are interested in collecting information and experience from users of the system and instruction manual. Any feedback will be gratefully received. Please do not hesitate to contact us if any of the information provided in these instructions should not be clear.

Spare parts supply

Replacement parts are available through the kitchen manufacturer and kitchen retailers. Only ever use genuine replacement parts from Hettich Marketing- und Vertriebs GmbH & Co. KG (HMV).

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OPERATING INSTRUCTIONS TRANSLATED FROM THE GERMAN ORIGINAL

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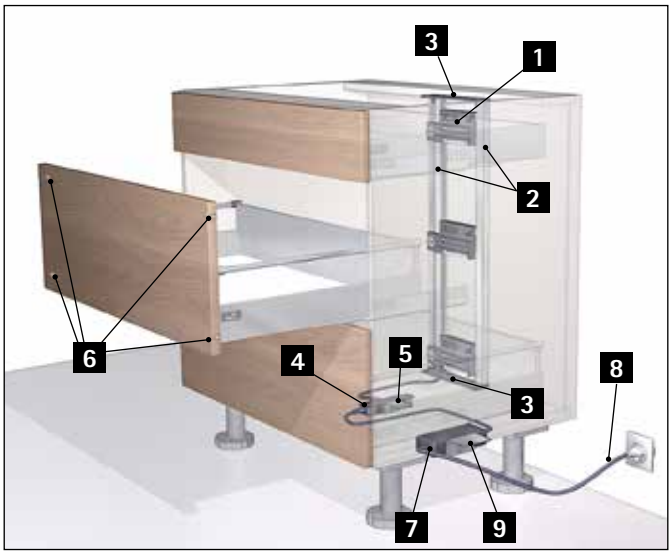
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1. Overview of the Easys 100 system

1.1 How the overall system works

Illustrated below is a typical standard configuration of the Easys 100 system.



1. Drive unit
2. Set of profiles
3. Set of profile mounts
4. Distributor
5. Distributor holder
6. Buffer, front panel
7. Power supply unit
8. Power cable
9. Power supply unit holder

Easys 100 is an electromechanical opening system that provides the capability of opening kitchen drawers all automatically. The system can be installed in kitchen cabinetry with appropriate drawer and pull-out systems. The system is configured to meet the requirements on the cabinet concerned or as part of overall kitchen planning and then implemented to suit individual customer needs.

Sensing the pressure on a drawer's front panel, the drawer is triggered by the drive unit (**1**), leaving it to move out all automatically by means of a drawer opening lever.

The drive unit is mounted on a profile set (**2**) that can carry several drive units at the level required for the height and number of drawers. The profiles are mounted on a profile adapter set (**3**) connected to a distributor (**4**) via a connecting cable. Drive units and other system components (sensors, buttons) communicate with each other via the distributor which also supplies them with power. Power is supplied from a power supply unit (**7**) with mains power cable (**8**). Holders (**5**, **9**) are used to secure power supply unit and distributor firmly in place. Buffers for the front panel (**6**) ensure the right spacing required between front panel and cabinet body for pressing a drawer in to trigger it.

1.2 System components

The Easys 00 system comprises the following components:

Article	Illustration
Drive unit Art. no.: 9078139xx	
Power supply unit Art. no.: 9321310xx	
Profile set (power profile), 750 mm Art. no.: 9106467xx, 9082353xx **Profile set (power profile), 1000 mm** Art. no.: 9106466xx, 9082356xx	
Profile adapter set Art. no.: 9078140xx, 9082357xx	

Article	Illustration
Assembly bracket Art. no.: 9082358xx, 9082759xx	
Distributor Art. no.: 9106470xx, 9082360xx	
Collision guard pushbutton Art. no.: 9109890xx, 9105850xx	
Sensor for tall fronts Art. no.: 9109889xx, 9079944xx	
Cable for corner solution Art. no.: 9109887xx, 9084790xx	

Article	Illustration
Distributor extension cable, 1500 mm Art. no.: 9106471xx, 9082362xx **Distributor extension cable, 2500 mm** Art. no.: 9105037xx, 9106449xx	
Extension connecting cable Art. no.: 9109893xx, 9100852xx	
Y cable for sensor Art. no.: 9084794xx	
Mains power cable UK (type G) Art. no.: 9079274xx, 9104901xx	

1. Overview of the Easys 100 system

Article	Illustration
Mains power cable EUROPE (EU) (type C) Art. no.: 9104899xx, 9079710xx	

Besides the electrical components, the system also includes small items (fasteners, mounting aids) that may be needed at the site of installation (www.hettich.com).

2. Safety

2.1 Use by specific groups of persons

The Easys-100 system may be used by children aged 8 or above and by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they are supervised or have been given instructions on how to use the tool safely and they understand the hazards involved. Children must not play with the device. Cleaning and user maintenance work must not be performed by unsupervised children

2.2 Safety information marking

Safety information in this instruction manual draws attention to dangers that can arise from certain actions or the failure to take specific action. They indicate the extent of any hazard arising from the failure to observe the safety measures specified therein.

The safety information in these operating instructions is structured as follows:

⚠ DANGER!
This danger note draws attention to an **immediately** dangerous situation that **will** lead to death or **serious injuries** if the safety measures are not followed.

WARNING!
This danger note draws attention to a **potentially** dangerous situation that **may** lead to **death** or **serious injuries** if the safety measures are not followed.

CAUTION!
This danger note draws attention to a **potentially** dangerous situation that **may** lead to **minor** or **slight** injuries if the safety measures are not followed.

NOTE!
This information draws attention to **potential damage to property and the environment** that may occur if the safety measures are not followed.

This note provides useful tips and additional information.

2.3 Markings in these instructions

The following marking is used in these instructions to identify and structure content:

1.	Step by step instructions and picture legend
»	Results of steps taken
•	Listings, without any set order of sequence
[Element]	Designation of a control or connection
(**1**)	Reference to an item number in a diagram or photo
> *"Section"*	Cross reference

2.4 Intended use of the overall system

The Easys 100 system is an electromechanical opening system for drawers and pull-outs in kitchen cabinetry that complies with the safety requirements for storage furniture in accordance with EN 14749 or EN 14073-74 or EN 16121.

Only these Hettich systems may be used as runner systems:

- InnoTech Atira
- ArciTech
- AvanTech YOU
- ExeoTech
- AvoriTech

In conjunction with custom drawers (e.g. wooden drawers) and the following HETTICH brand drawer runners:

- Quadro YOU
- Actro YOU
- Actro 5D

Only components approved by the manufacturer (> *„1.2 System components"*) may to be used to assemble the Easys 100 system, taking into account installation limitations (> *„5.2 System limitations on installation configurations")*.

The system must only be operated within the technical specifications (> *„11. Technical Specifications"*) in dry indoor spaces (5-40°C, max. 80% room humidity) and at an expected low level of soiling.

The system must only be connected to a readily accessible power socket by a qualified electrician in an easily accessible area or, alternatively, to a switchable socket outlet in an easily accessible area. The Easys 100 system must only be installed and started up for the first time by qualified persons.

The opening function must only be triggered in response to a brief press on a kitchen unit's front panel or by pulling a handle. It must not be activated more than eight times a minute.

The system must only be used if persons living in the household environment concerned are aware of the dangers the system poses.

Any other use of the system beyond this is deemed to be non intended use. Proper and intended use also includes adherence to all of the information provided in this instruction manual.

2.5 Intended use of individual components

2.5.1 Drive unit

This device is only intended for use as a sensor and electromechanical opening facility for drawers weighing no more than 40 kg for Easys 100 systems. Two drive units can be operated side by side for wide fronted drawers weighing up to 70 kg. The device must only be operated with an Easys 100 power supply unit and distributor in compliance with the specifications on the rating plate.

2.5.2 Power supply unit

This unit is only intended for use as a power supply unit for Easys 100 systems. It must only be operated in accordance with the specifications on the rating plate and only with the separately available, country-specific mains cable and appropriate system accessories. The maximum permissible number of components used is: 6 distributors, 12 profile adapter sets, 27 drive units, 10 m of cable to the profile adapter set positioned furthest away, 6 sensors for tall fronts on 3 Y cables for sensors, 3 collision guard buttons, 3 cables for corner solution, 2 extension leads, each for connecting to one set of profile adapters.

The device must be mounted at the point of installation with a power supply unit holder (> *„5.5.1 Basic application with a drawer unit"*). Power supply units with power indicator must be installed in a way that ensures the power indicator is easily visible

2.5.3 Mains power cable EUROPA (EU) (type C), Mains power cable UK (type G)

This cable is only intended for use as the mains power cable for Easys 100 power supply units. EUROPA mains power cables (type C) (art. no: 9104899xx, 9079710xx) must only be used in the European area, UK mains power cables (type G) (art. no: 9104901xx/9079274xx) must only be used in the United Kingdom in accordance with the specifications on the rating plate.

2.5.4 Profile set (power profile), profile adapter set, assembly bracket

Profile set (power profile)

This device must only be used for accommodating drive units as well as for connecting them to the power and data bus of an Easys 100 system in combination with the set of profile adapters. It is not permissible to install more than six drive units with different addresses.

Profile adapter set

This device must only be used for accommodating the set of profiles as well as for connecting them to the power and data bus of an Easys 100 distributor. It must only be used at connection [4] on a distributor.

Assembly bracket

This device must only be used for accommodating a drive unit as well as for connecting it to the power and data bus of an Easys 100 distributor. It must only be used at connection [4] on a distributor.

2.5.5 Collision guard button, sensor for tall fronts

Collision guard button

This device must only be used as a collision prevention sensor on an Easys 100 distributor. Merely one sensor must be used at connection [4] (and no other) on a distributor.

Sensor for tall fronts

This device must only be used as an actuation sensor on an Easys 100 distributor. It must only be used directly at connection "6" on a distributor or with a Y cable for sensors.

2.5.6 Distributor

This device must only be used for distributing the 24 V voltage from an Easys 100 power supply unit to connected Easys 100 system components as well as for providing data communication.

Only the following components must be connected to the ports:

[IN 24 V]: power supply unit or distributor extension cable

[OUT 24 V]: distributor extension cable

[3]: cable for corner solution

[4]: maximum of 2 profile adapter sets with not more than 6 drive units each and 1 collision guard button

[6]: 1 sensor for tall fronts or 1 Y cable for sensor with 2 sensors for tall fronts

The device must be screwed in place at the point of installation or mounted with a distributor holder.

2.5.7 Cables and extensions

Y cable for sensor

This cable must only be used as a power and data cable for connecting two Easys 100 sensors for tall fronts to a distributor. It must only be used at connection [6] on a distributor.

Distributor extension cable

This cable is only intended for use as the mains power extension cable for Easys 100 distributors.

It must only be used to connect the 24 V output of one distributor to the 24 V input of another distributor.

Extension cable

This cable must only be used as a power and data extension cable for connecting an Easys 100 distributor to a set of profile adapters.

It must only be used at connection [4] on a distributor.

Cable for corner solution

This cable must only be used as a data cable for Easys 100 distributors serving cross corner drawers.

The cable must only be used at connection [3] on a distributor.

2.6 Foreseeable misuse

WARNING

Hazard from misuse!

Misuse of the Easys 100 system and its individual components can lead to hazardous situations:

- Never use the system with other items of furniture or in non household environments.
- Never use the system in the open or at places where exposure to water or heavy soiling is to be expected.
- Never install the system in kitchen units that do not meet established safety requirements.
- Never use the system with components and drawer systems other than those approved by the manufacturer.
- Corner unit layouts and kitchen units with hinged doors that protrude into the travel range of drawers must never be configured without safety guards (> *„2.9 Safety guards"*).
- Never fail to observe the requisite safety distances when fitting kitchen units opposite each other.
- Never open or close several drawers at one and the same time.
- Never use the system with overloaded, jammed or damaged drawers and pull-out systems or without drawers.
- Never operate the system from a concealed and poorly accessible power socket.
- Never operate the system if specific groups of people may be at risk.
- Never operate the system outside the operating limits and system configuration specified in these instructions.
- Never operate a faulty system.
- Do not use the system if small children aged 0 to 3 are present in the household.
- Never make unauthorised technical modifications to the system.

If the system configuration is changed at a later date after it is put into operation, the system must be inspected and approved by a qualified kitchen fitter.

2.7 Work and danger zones

The interior of the unit in which an Easys 100 system is installed is regarded as a danger zone, particularly the part that is in the immediate proximity of the drive unit and power supply unit.

A user's work zone is also a danger area and is located directly in front of drawers and the area into which they open. When activating the drawer opener, the user must keep outside the area into which drawers open.

2.8 Residual hazards

Dangers of electric voltage!



⚠ DANGER!

Danger to life from electric voltage!

Power supply unit and mains power cable involve the use of voltage of a dangerous level. Improper installation and handling poses danger to life from electric shock.

- Follow all installation instructions (> *„5. Montage"*).
- Only operate power supply unit from and connect mains power cable to a power socket that has been properly installed by a qualified electrician.
- Only connect power supply unit and mains cable to an easily accessible power socket and keep these clear at all times. Depending on the installation situation, use a switchable power strip.
- Keep power supply unit and mains power cable away from moisture.
- Never use a damaged power supply unit or mains power cable.
- Immediately replace damaged components. Only replace mains power cable with an OEM mains power cable.
- Never open power supply unit.
- Never plug in mains plug without power supply unit.
- When disconnecting the cable from the power supply, always do so by pulling the mains plug and not the cable.
- Do not plug in and unplug the mains plug with wet hands.
- Disconnect power supply unit plug before attempting any installation and maintenance work.

Dangers from mechanical movements



WARNING!

Risk of injury on freely accessible drive unit!

If the drive unit is freely accessible when the unit is disassembled or when drawers are removed, there is a risk of injury on the opening lever, particularly when the lever is returning to the home position.

- Disconnect Easys 100 system from the power supply before attempting any installation and maintenance work.



WARNING!

Risk of injury from overloaded kitchen units or improperly engaged drawers!

On opening them, overloaded kitchen units can tip over, potentially leaving improperly engaged drawers to fall out and cause injuries.

- Before activation, make sure drawers are properly engaged.
- Do not activate jammed or damaged drawers until they have been repaired or replaced.
- Never overload drawers. Observe maximum weight of drawer and pull-out system.
- Make sure the drawer opening zone is unobstructed.

CAUTION!

Risk of injury from unexpected system triggering!

The Easys 100 system can be triggered unexpectedly by faults and malfunctions or if kitchen units are knocked unintentionally. Contact with the drive unit trigger or a drawer opening unexpectedly can result in injury.

- Only connect power supply unit and mains cable to an easily accessible power socket and keep these clear at all times. Depending on the installation situation, use a switchable power strip.
- Unplug the power supply unit's mains plug in the event of faults or malfunctions as well as before attempting any maintenance and cleaning work or, if a switchable power strip is being used, switch this off.
- Disconnect system from the power supply when not in use, particularly in environments that are home to infants and pets.
- Supervise children when using the system, unless its use has been explained to them, they are aware of the hazards involved and do not play with the facility.
- Do not allow children to carry out cleaning and maintenance work.
- Never let children play near kitchen units fitted with Easys 100 system..

Dangers from heat build up

WARNING!

Risk of fire from components getting hot!

The drive unit and power supply unit can heat up during operation and start a fire if there is inadequate ventilation.

- Make sure power supply unit and drive are provided with adequate ventilation at the point of installation.
- Never cover power supply unit and drive with objects or textiles.
- Only use Easys 100 power supply unit.

General hazards from using the system

WARNING!

Risk of injury from improper installation, start up and maintenance.

Improper installation, start up and maintenance harbour the risk of injury.

- Installation, initial start up and maintenance work must only be carried out by qualified kitchen fitters.

CAUTION!

Risk of tripping over drawers in the process of opening and from furniture left open!

As they open, drawers present a tripping hazard.

If open kitchen units are not properly closed again by the user, they present a tripping hazard.

- When activating the system, be prepared for the drawer to open and keep an eye on this process.
- Do not open several kitchen units at one and the same time.
- Watch out for open kitchen units.
- After opening kitchen units, always close them by hand again.
- If the system malfunctions, do not use it again until it is repaired.

2.9 Safety guards

Mains plug

The mains plug on the mains cable is also used to disconnect the system from the power supply.

Cable for corner solution

A cable for corner solution must be used to avoid collisions with furniture positioned across a corner. This prevents them from opening at one and the same time (> *„3.2.12 Cable for corner solution“*).

Button for collision guard

A collision guard button must be used to avoid collisions between drawers and a hinged door. This prevents drawers from opening while the hinged door is open (> *„3.2.7 Button for collision guard“*).

2. Safety

2.10 Safety markings

Depending on the product, symbols are provided as safety markings on the rating plates of individual components. Their meaning is as follows:

CE-Konformität

UKCA conformity

Read instructions

Indoor use only

Protection class 2 device

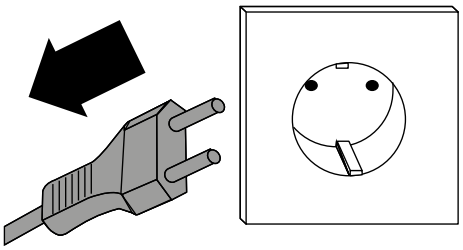
Protection class 3 device

Dispose of product and packaging separately

Do not dispose of product as household waste

2.11 Reliable disconnection from the mains power supply

Before attempting any work on the system and in the event of a fault, the system must be reliably switched off and disconnected from the mains power supply.



Proceed as follows:

- Unplug the power supply unit from the mains power socket

Or when using a switchable power socket:

- Turn off switch on the switchable power socket.
- Make sure that no third party turns the switch back on again.

Or in the event of danger:

- Switch off or remove fuse in the fuse box protecting the building's wiring system.

2.12 Responsibility of the owner

The owner is the person who uses the Easys 100 system in everyday kitchen routine.

- The owner shall undertake to use the system only as intended and not to make any technical modifications to the system.
- The owner shall undertake to make sure the power socket to which the system is connected remains accessible at all times.
- The owner shall undertake to make sure children cannot play with the system.
- The owner shall undertake to supervise children, other vulnerable persons and pets if there is any risk of them not being able to assess dangerous situations.
- The owner shall undertake to carry out cleaning and user maintenance in accordance with these instructions.
- The owner shall undertake to set up the Easys system in such a way that the opening force is limited to the necessary level.
- In the event of damage or malfunction, the owner shall undertake to disconnect the system permanently from the power supply, to stop using it until it has been repaired by qualified personnel and not to attempt to any unauthorised repair work on it.

2.13 Personnel qualification

These instructions specify various activities that must only be carried out by appropriately qualified personnel.

Qualified electrician

Given their professional training, knowledge and experience as well as knowledge of the pertinent standards and regulations, qualified electricians are able and authorised to carry out work on electrical wiring installations in buildings and to identify and avoid potential hazards without any outside assistance.

Kitchen furniture designer

The kitchen furniture designer plans and designs kitchen furniture for individual needs. He or she is familiar with the pertinent standards and regulations on designing kitchen furniture and is in a position to plan, put together and design kitchen furniture in line with the state of the art for different spatial requirements or to draw up design plans by him or herself.

Qualified kitchen fitters

The qualified kitchen fitter assembles kitchen furniture in line with design plans and using planning aids to suit individual needs, and fits kitchen furniture at the place at which a user (owner) will be using such. They are familiar with the pertinent standards and regulations on constructing kitchen furniture and have the craft skills to fit and adapt such. They have the expertise necessary for installing electromechanical opening systems.

User (owner)

The user employs an Easys 100 system in the context of using his or her kitchen furniture. He or she is familiar with the dangers posed by the system and its correct use after receiving induction training and reading the pertinent instruction manuals. He or she is familiar with the necessary safety precautions while using the system and is able to identify and avoid potential hazards without assistance.

3. Configuration and mode of operation

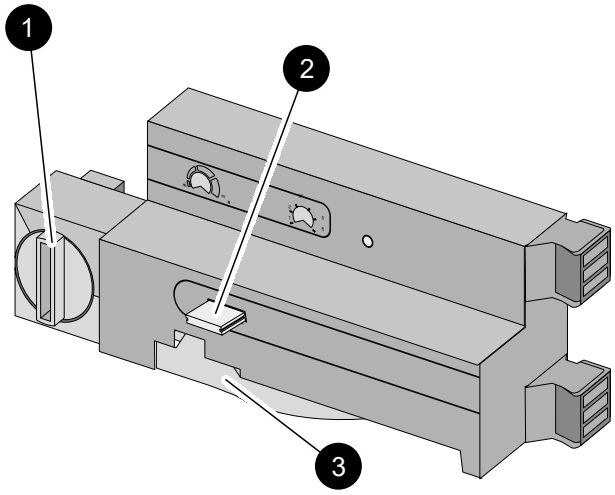
3.1 How the system works

> „1.1 Funktionsbeschreibung des Gesamtsystems"

3.2 How individual components work

See photos of each component (> *„2.5.6 Distributor"*).

3.2.1 Drive unit



1. Locking twist knob
2. Sensor
3. Drawer opening lever

The drive unit is used for opening drawers. It has a sensor (**2**) that registers pressure applied to drawer front. When the sensor is activated in response to pushing on the drawer, the drawer opening lever (**3**) is actuated after a brief delay. This pushes the drawer from behind, opening it via the pull-out system by the distance defined by the drive force that is selected. Opening force as well as drive unit address can be selected (> *„3.3.1 Control dials, power indicator and connections on the drive unit"*). Set to the same device address, two drive units can be triggered side by side to open large drawers.

The drive unit is hooked into the profile adapter with one side at the required height and fixed in place in the profile on the other side with the locking twist knob (**1**). Height can be subsequently adjusted by opening the lock and moving the drive unit on the profile.

3.2.2 Distributor

The distributor is used for distributing power from the power supply unit to the system's various components and permits data communication between different components via the dedicated connection ports.

3.2.3 Power supply unit

The power supply unit is used for supplying power to the system and delivers a voltage of 24 V. It is plugged in to the [IN 24 V] connection on a distributor and is connected to the mains power socket by means of a country specific mains cable.

3.2.4 Set of profile mounts

The profile adapter set provides a base for holding the profiles and for connecting them to the furniture. The profiles are inserted into the profile connectors and, through these, connected to the power supply and the distributor's data line.

3.2.5 Set of profiles

The profiles serve as supports for the drive units. They can be cut to length to suit the required height and then pushed into the set of profile adapters. The profile set connects the 24 V DC power supply and the data lines from the set of profile adapters to the relevant contacts on the drive units.

3.2.6 Mounting bracket

The assembly bracket serves as a profile for confined or specific installation situations. It consists of a preassembled package of profile and profile adapters (> *„3.2.5 Set of profiles"* and > *„3.2.4 Set of profile mounts"*) and a stabilising rear panel.

3.2.7 Button for collision guard

The collision guard button serves as a pushbutton for hinged doors. It is used to prevent drawers from colliding with an open hinged door.

When the pushbutton is triggered, all drive units connected to the same distributor will be deactivated until the open hinged door is closed again. The pushbutton can be distinguished from the sensor for tall fronts by its black connecting cable.

3.2.8 Sensor for tall fronts

The sensor for tall fronts provides an additional sensor for tall drawer fronts to extend the detection range on pressing the drawer front panel. Triggering the sensor in response to a push activates the drive unit (with address 1) connected to the same distributor. The sensor can be distinguished from the collision guard button by its white connecting cable.

3.2.9 Y-cable for sensor

The Y cable serves as a splitter cable at connection [6] on a distributor. This cable extends the connection capability at the distributor, providing two connections for sensors for tall fronts,

so as to extend the detection range of very tall or wide fronts on pressing the front panel.

3.2.10 Distributor extension

The distributor extension cable provides a connecting cable between two distributors. It is connected to the [IN 24 V] and [OUT 24 V] ports.

3.2.11 Extension lead

The extension connecting cable serves as an extension cable from a distributor's connection [4] to a profile adapter set or an assembly bracket. This cable provides the capability of connecting components located very far apart in larger type kitchen units (e.g. tall unit).

3.2.12 Cable for corner solution

The cable for corner solution provides a connection from one drawer to another and permits data communication between both distributors. It is used to prevent any collision between drawers set across a corner.

When the drawer opening function of a drive unit connected to one distributor has been triggered, the drawer opening function of the drive units connected to the other distributor is deactivated until the open drawer is closed again.

3.2.13 Power cable

The mains cable is used for connecting the power supply unit to the local power supply. It is connected to the mains power socket of the power supply unit and, depending on version, comes with a country specific mains plug.

3.2.14 Buffers

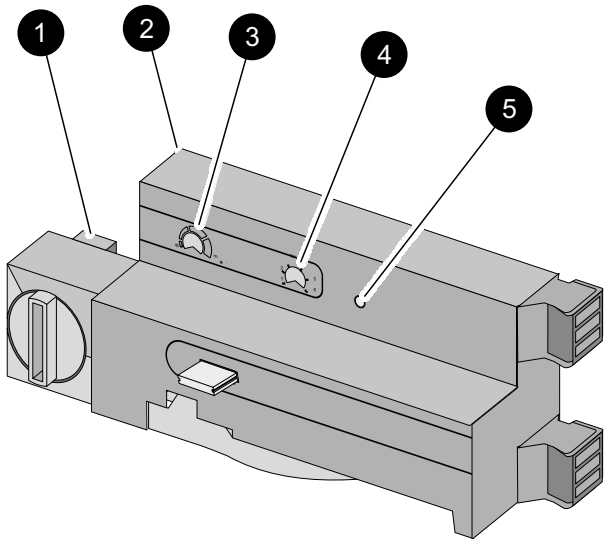
The buffers provide "spring travel" for front panels on drawers. They keep the drawer at the requisite distance from the drive unit sensor and allow the front panels to recede slightly after pressing on the drawer.

3.2.15 Rear-panel adapter

The rear panel adapter serves as an adapter for installing different drawer systems.

3.3 Controls, indicators and connections

3.3.1 Control dials, power indicator and connections on the drive unit



1. Connection contacts (power supply)
2. Connection contacts (data communication)
3. Drive force control dial
4. Device address control dial
5. Power LED

On the drive unit there are two control dials.

The left hand control dial (**3**) can be used to adjust the driving force and hence drawer opening force (> *„5.4.3 Setting the driving force"*).

The right hand control dial (**4**) can be used to select the drive unit's device address (> *„5.4.2 Setting drive unit addresses"*).

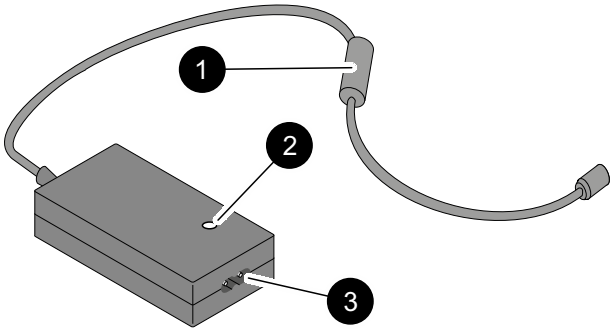
A drive unit's device address must be selected individually for each drawer level.

The drive unit has a power indicator in the form of a power LED (**5**). When the drive unit is correctly connected, this lights up as soon as the respective drawer is opened. In the event of a fault, the status LED flashes or does not light up at all, even if power is being supplied (> *„8"*).

When installed, the connecting contacts engage in the profiles and are used for supplying power (**1**) and connecting up to the drive unit's data communication system (**2**).

Contact is made as soon as the drive unit is correctly installed on the profile.

3.3.2 Power indicator and connections on power supply unit



1. Connecting cable with plug connector
2. Status LED (specific power supply units versions only)
3. Mains power connection socket

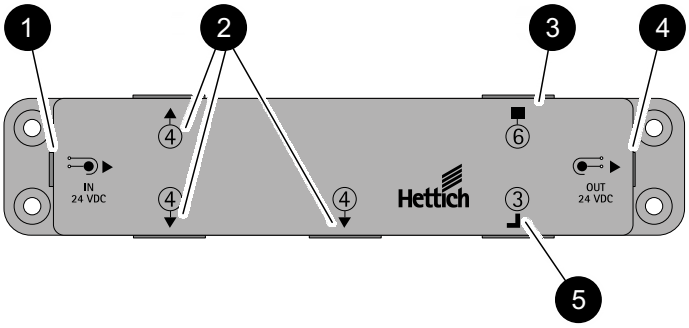
Depending on power supply unit version, the power supply unit has a power indicator in the form of an LED (**2**). This lights up as soon as the power supply unit is connected to the mains power supply.

The mains power connection socket (**3**) is used for connecting a country specific mains cable. The connecting cable with plug connector (**1**) is used for supplying power to a distributor. It must be plugged in at the connection [IN 24 V] on the distributor.

3.3.3 Drawer front panel

Once the kitchen unit is fully assembled and fitted, the front panels on the drawers provide a control element for the user. Briefly pushing the front panel triggers drawer opening.

3.3.4 Distributor connections



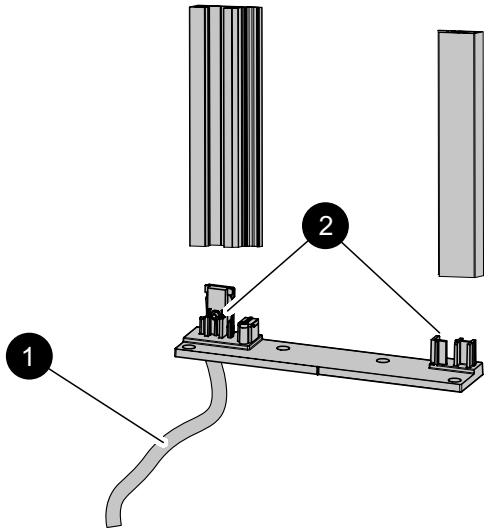
1. [IN 24 V]: Power supply connection for power supply unit distributor extension cable
2. [4]: Connection for profile adapter set and collision guard button
3. [6]: Connection for sensor for tall fronts or 1 Y cable for sensor
4. [OUT 24 V]: Power connection for further distributors
5. [3]: Connection for the cable for corner solution

The distributor has connections for supplying power and for connecting the components used for the particular configuration.

Connection [IN 24 V] (**1**) is used for connecting the power supply unit or an upstream distributor via a distributor extension cable. Connections [4] (**2**) are used for connecting the set of profile adapters and a collision guard button. Connection [6] (**3**) is used for connecting a sensor for tall fronts. Using a Y cable, this connection can also be used for connecting 2 sensors. Connection [OUT 24 V] is used for connecting a further distributor and its power supply. Connection [3] (**5**) is used for connecting a cable for corner solution in furniture configurations involving cross corner kitchen units.

Observe connection limitations (> *„5.2 System limitations on installation configurations“*).

3.3.5 Connections – set of profile adapters and profiles



1. Cable with plug connector
2. Profile connector

The profile adapter set has a cable with plug connector (**1**). This must be connected to connection [4] on a distributor. The profile connectors (**2**) also serve as power and data connection for the profiles. Contact is made as soon as the profiles are pushed in.

3.3.6 Connections – assembly bracket, collision guard button and sensor for tall fronts

The assembly bracket, collision guard button and sensor for tall fronts each have a cable with plug connector. This must be connected to the relevant socket on the distributor (> *„3.3.4 Distributor connections“*).

3.4 Operating modes

The Easys 100 system operates in normal mode as soon as the power supply unit's mains plug is connected to the mains power supply.

4. Shipment and packaging

Easys 100 components are delivered in secure individual packaging or industrial packaging.

Onward transportation is the responsibility of the kitchen furniture designer and qualified kitchen fitters.

4.1 Safety information on transportation and packaging



WARNING!

Risk of suffocation from packaging material!

When playing, children and pets can get entangled in packaging material (e.g. plastic sheeting) and suffocate.

- Keep packaging material out of the reach of children and pets.



NOTE!

Damage to property from handling packages and components improperly!

Handling packages and unpacked components improperly can damage components while they are being transported.

- Always transport individual components in the original transport packaging.
- Only remove transport packaging immediately before installing components.
- Take into account the length and weight of unpacked individual components.
- Observe additional transportation instructions and symbols on packaging.

4.2 Storing packages

Storage conditions are the same as the ambient conditions under which the system may be used (> *„11.2 Ambient conditions“*).

5. Installation

NOTE!

All installation work must only be carried out by qualified kitchen fitters.

5.1 Safety information on assembly and installation

⚠ DANGER!

Danger to life from improperly laid connecting cables!

If connecting cables, particularly the mains cable, are crushed or sheared off on moving furniture parts, live furniture parts can result in fatal electric shock.

- Lay connecting cables, particularly the mains cable, in such a way that they are unable to come into contact with moving furniture parts, are not exposed to intense heat or moisture and do not run over sharp corners and edges.
- Secure the connecting cables with suitable fastening materials (e.g. cable ties, cable clips).
- Never use damaged connecting cables

WARNING!

Risk of injury and damage to property from unsecured kitchen units tipping over!

On opening unsecured kitchen units, they can tip over and cause serious injuries and considerable damage to property.

- When fitting kitchen units, secure them to the wall or floor with suitable fasteners to prevent them from tipping over.
- Follow instructions for the kitchen units concerned.

WARNING!

Risk of injury improperly engaged drawers!

Improperly engaged drawers can fall out of cabinets and cause injuries.

- Make sure drawers are properly engaged once they have been fitted.

WARNING!

Risk of injury from failure to observe system limitations!

Any failure to observe system limitations poses a risk of injury and damage to property.

- Always observe system limitations at the planning and installation stage, and configure the system accordingly.

CAUTION!

Risk of injury from improperly assembled and fitted kitchen units!

Moving furniture parts can produce crushing and shearing points as well as sharp edges, creating a source of injury.

Crushing points can result from opposite and cross corner kitchen units as well as from other objects.

- Construct and install kitchen units in line with the state of the art and and only use appropriate furniture parts.
- Make sure that spacings at moving parts are less than 8 mm or greater than 25 mm.
- When planning and fitting cabinetry, be sure to allow a minimum distance of 500 mm to kitchen units positioned opposite or set across a corner.

CAUTION!

Risk of injury on aluminium profiles shortened to length!

Cutting aluminium profiles to length can produce sharp edges that present a risk of injury.

- Always deburr aluminium profiles after cutting them to length.

5.2 System limitations on installation configurations

Drive unit

- A drive unit must only be used for opening a drawer weighing no more than 40 kg.
- Two drive units may be used for opening a wider drawer weighing no more than 70 kg.

Power supply unit

A power supply unit must be used for powering no more than the following components:

- 6 Distributors
- 12 profile adapter sets with a profile set and a total of 27 drive units
- Cable length of 10 m from the power supply unit enclosure to the set of profile adapters positioned furthest away. This

can be done, for example with a combination of distributor extension cables, 1500 mm and 2500 mm, while adhering to the total 10 m length

- 6 sensors for tall fronts on up to 3 Y cables
- 3 collision guard button
- 3 Cable for corner solution
- 2 extension connecting cables (each connected to a separate set of profile adapters)

Distributor

A distributor must be used for no more than the following components:

- 2 profile adapter sets with one profile set and 6 drive units each
- 2 sensors for tall fronts via a Y cable or a sensor for tall fronts direct
- 1 collision guard button
- 1 Cable for corner solution

Set of profile mounts

One profile adapter set must be used for no more than the following components:

- 6 drive units with different device addresses

Y cable

- 2 sensors for tall fronts

5.3 Fundamental installation procedure

Qualification required:

- Qualified kitchen fitters

In all installation work, observe the installation limitations (> *„5.2 System limitations on installation configurations“*).

For custom application examples, refer to sections (> *„5.5 Typical applications“*).

Instead of the combination of profile adapter set and profile set mentioned in the installation description, a preassembled assembly bracket can also be used.

CAUTION!

Risk of injury from improperly assembled and fitted kitchen units!

1. Plan kitchen units with the chosen pull-out systems and assembly them.

When planning, observe the minimum distance of 500 mm between open drawers and other kitchen units or objects.

2. Remove drawers from the kitchen unit.
3. Mount buffers (in drill hole or screw mounted) on the drawers or cabinet body, depending on version.
4. Measure the profile length required for the set of profiles set in kitchen unit.

» The profiles must be cut to length in such a way that the package of profile adapter set, profile set and filler piece can be screwed to bottom and top panel of the kitchen unit.

CAUTION!

Risk of injury on aluminium profiles shortened to length!

5. Cut the profile set to length with a metal saw and then deburr.
6. Insert the profile set into the profile adapter set (2 per set).
7. Fit end connectors on top of the profiles.
8. Measure and note down the height of individual drawer levels inside the kitchen unit from the top edge of the bottom panel to the top edge of the runners (> *„5.6.8 Planning dimensions and examples of assigning addresses to drive unit“*). The dividing lines on the profiles must then be measured from the lower edge of the profile adapter, adding a specific value (depending on system).
9. Mark the height noted down (measured from the profile adapter set) on the profiles with a pencil.
10. Measure the depth required for installing the preassembled package of profile adapter set, profile set and filler piece in the kitchen unit and predrill the drill hole positions on the kitchen unit's bottom and top panel for feeding through the connecting cable (cf. drilling patterns > *„11.1 Components“*).
11. Insert the preassembled package of profile adapter set, profile set and filler connector into the kitchen unit (with the profile set extending down to the bottom panel) and screw into place.
12. Hook drive unit on the right hand side into the profile at the height previously marked on the profile, and secure the drive unit to the profiles by means of the locking twist knob (> *„5.4.1 Installing drive unit“*).
13. Set a drive unit's device address on the control dial (from the lowest drawer level upwards) to the relevant address (> *„5.4 Installing and configuring drive unit“*)..

14. Preset a drive unit's driving force to the chosen drawer opening force using the control dial (> *„5.4.3 Setting the driving force"*).
15. Install and configure further drive units as described in steps 12 to 14.
16. Install the power supply unit holder underneath the kitchen unit, screw it in place and insert the power supply unit.

If the power supply unit has a power indicator, make sure the power indicator is **not** facing the cabinet's bottom panel.

17. Install the distributor underneath the kitchen unit and screw into place.
18. Connect power supply unit with connection [IN 24 V] on the distributor.
19. Connect profile adapter set with connection [4] on the distributor.
20. If applicable, connect further profile adapter sets with a connection [4] on the distributor.
21. If applicable, connect further distributors via connection [OUT 24 V] to the distributor extension cable.
22. Connect mains cable to the power supply unit.

⚠ DANGER!

Danger to life from improperly laid connecting cables!

23. Lay and secure all connecting cables with suitable fixing materials so they do not come into contact with moving furniture parts or run over sharp corners and edges.
24. Fit kitchen unit and insert drawers.

⚠ DANGER!

Danger to life from improperly laid connecting cables!

25. Make sure that the connecting cables are not exposed to intense heat or moisture at the place of use. If necessary, readjust cable routing.

WARNING!

Risk of injury improperly engaged drawers!

26. Make sure drawers are properly engaged.

WARNING!

Risk of injury and damage to property from unsecured kitchen units tipping over!

27. Screw kitchen units to the floor or wall at the place of use..

5.4 Installing and configuring drive unit

5.4.1 Installing drive unit

The drive unit must be installed in a defined order of sequence.

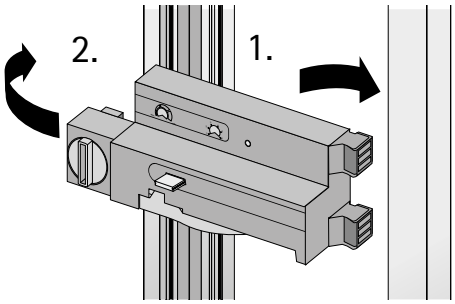
Qualification required:

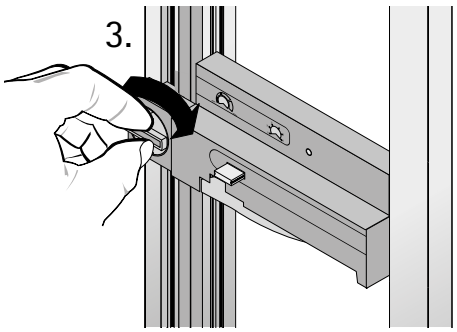
- Qualified kitchen fitters

Make sure that the locking twist knob is set to the vertical position.

1. Hook drive unit into the profile on the right hand side.
2. Fit drive unit into the profile on the left hand side.
3. Turn locking twist knob 90° clockwise.

» The locking twist knob is now set to the horizontal position. The drive unit is locked in place.





A coin can be used to make the locking twist knob easier to turn.

5.4.2 Setting drive unit addresses

WARNING!

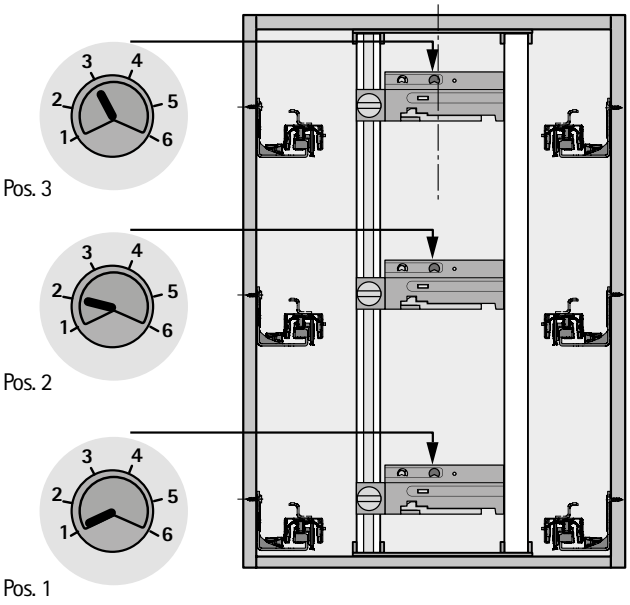
Risk of injury from failure to observe system limitations!

Any failure to observe system limitations poses a risk of injury and damage to property.

- Never give the same address to drive units in a profile adapter set

Depending on application, drive units must be correctly addressed so they operate independently of each other or in conjunction with one another.

The device address should be incremented from bottom to top in line with the respective drawer level.



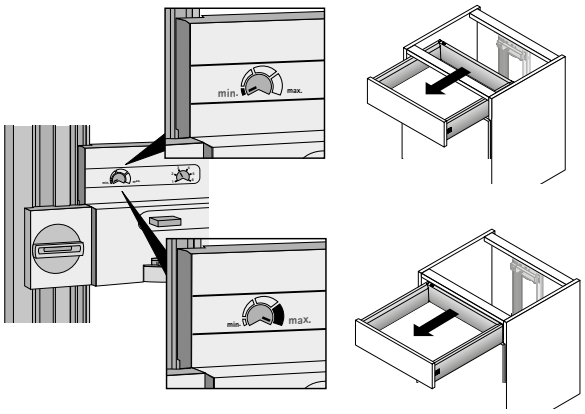
- Drive units set to an individually defined address will trigger individually when the respective sensor detects any push or pull on a drawer's front panel.
  This setting is necessary to operate drawers on different levels independently of each other.
- Drive units set to the same address will trigger as a group when the sensor of one of the two drive units detects any push or pull on a drawer's front panel.
  This setting is necessary if a very wide drawer is to be fitted with two drive units so as to detect any push or pull over the entire front panel and to open the drawer evenly (> *„5.5.3 Use with two drive units operating at the same time"*).

Qualification required:

- Qualified kitchen fitters

1. Using a screwdriver, turn the drive unit's right hand control dial to the required position.

5.4.3 Setting the driving force



Each drive unit's driving force can be adjusted as chosen. The stronger the driving force, the further a drawer will be opened.

The driving force should be set to a level that opens drawers by about 2/3 of the way when the Easys system is activated. Pay attention to drawer content weight..

Qualification required:

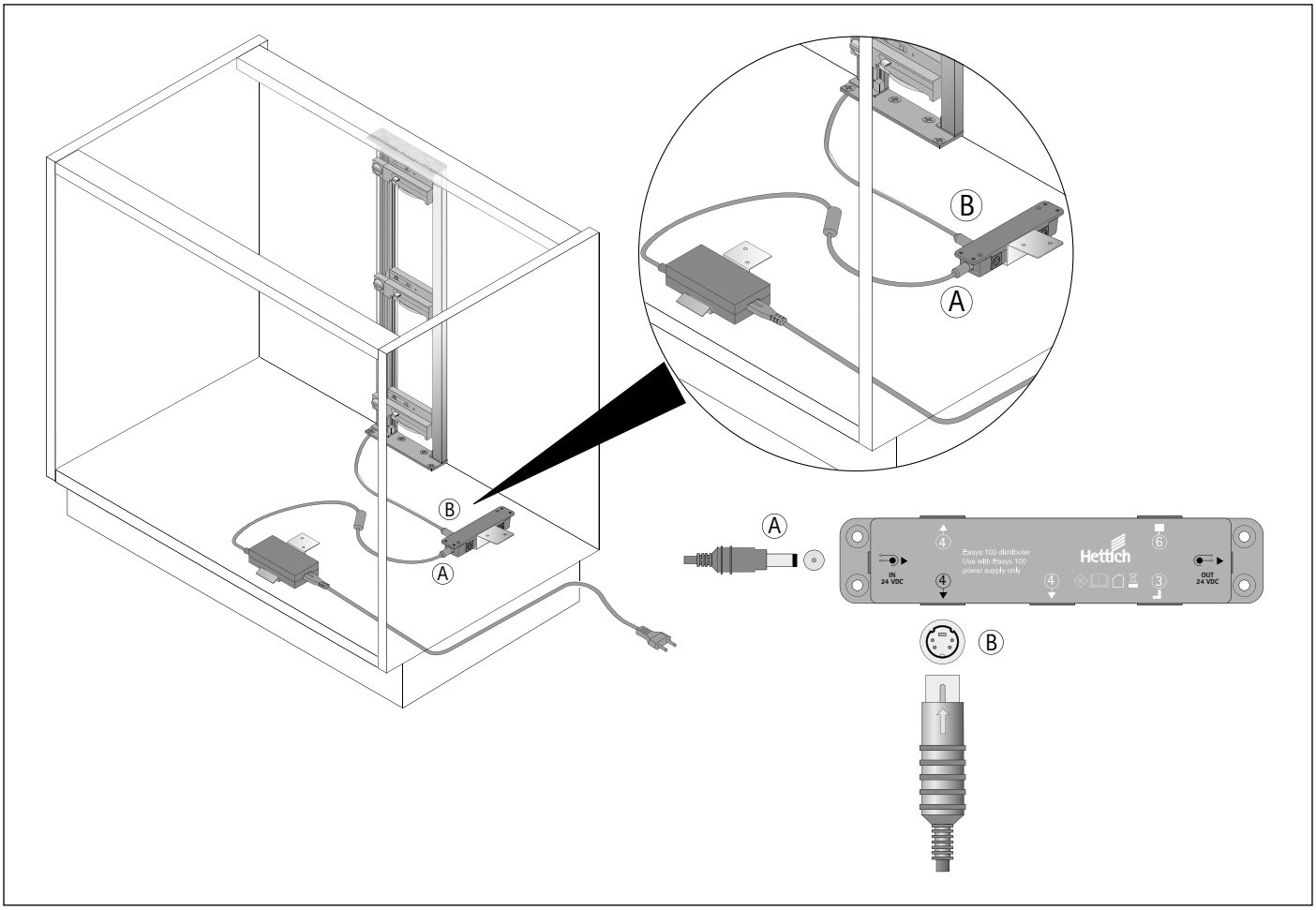
- Qualified kitchen fitters

1. Using a screwdriver, turn the drive unit's left hand control dial to the required position.

If driving force needs to be adjusted later on after fitting drawers into the kitchen unit, the drawers concerned must be removed again to access the drive unit.

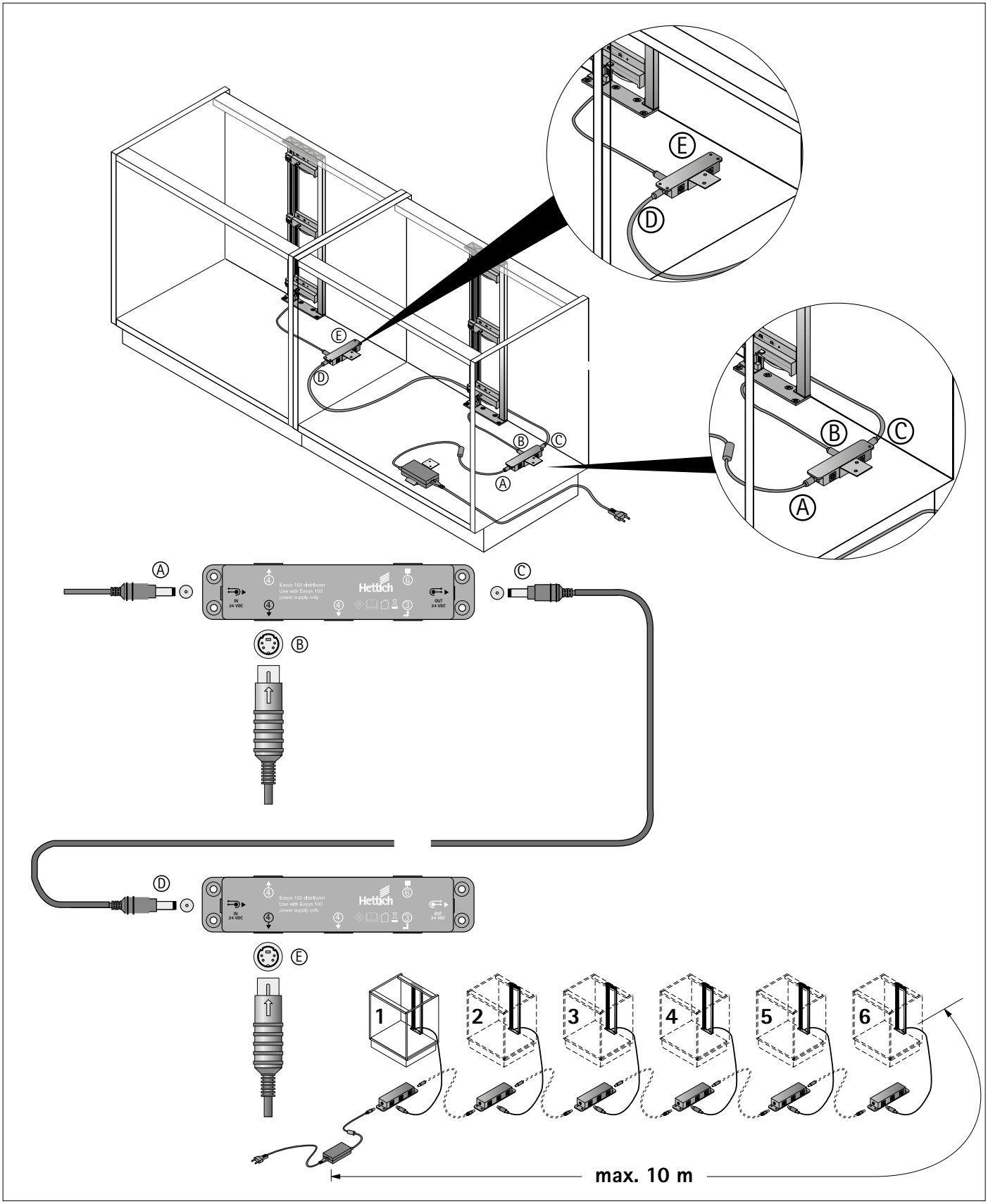
5.5 Typical applications

5.5.1 Basic application with a drawer unit



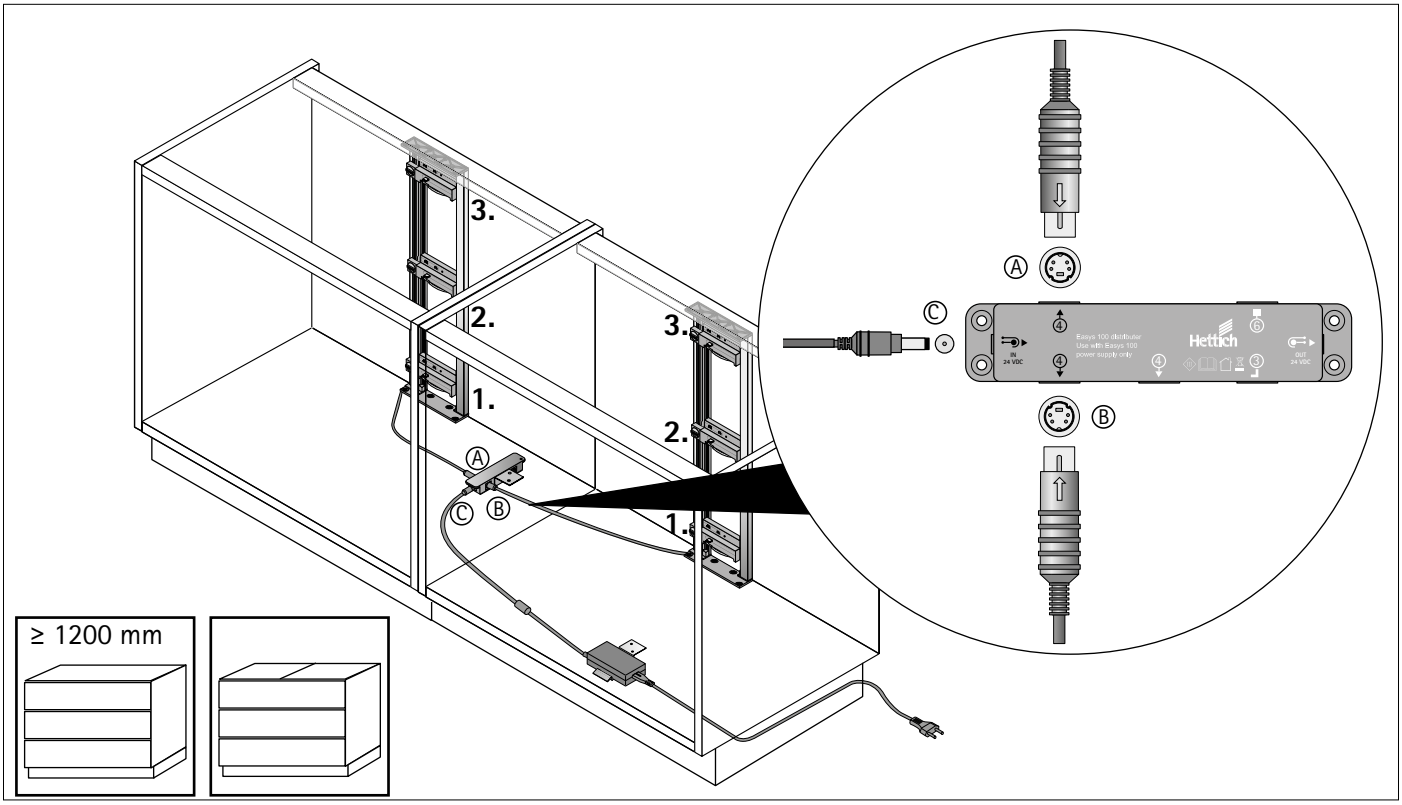
In its basic application with one drawer unit, the system uses a distributor with power supply unit and profile adapter set, as illustrated.

5.5.2 Use with several drawer units positioned side by side



Using the system with several drawer units side by side, each kitchen unit is each fitted with a distributor operated from a power supply unit, as illustrated. Observe the maximum cable length of 10 m from the power supply unit to the last profile adapter set in the group (in this example, "6 profile adapter sets").

5.5.3 Use with two drive units operating at the same time



When using the system in cabinets with wide drawer fronts, two profile adapter sets and drive units are used on a distributor and power supply unit, as illustrated.

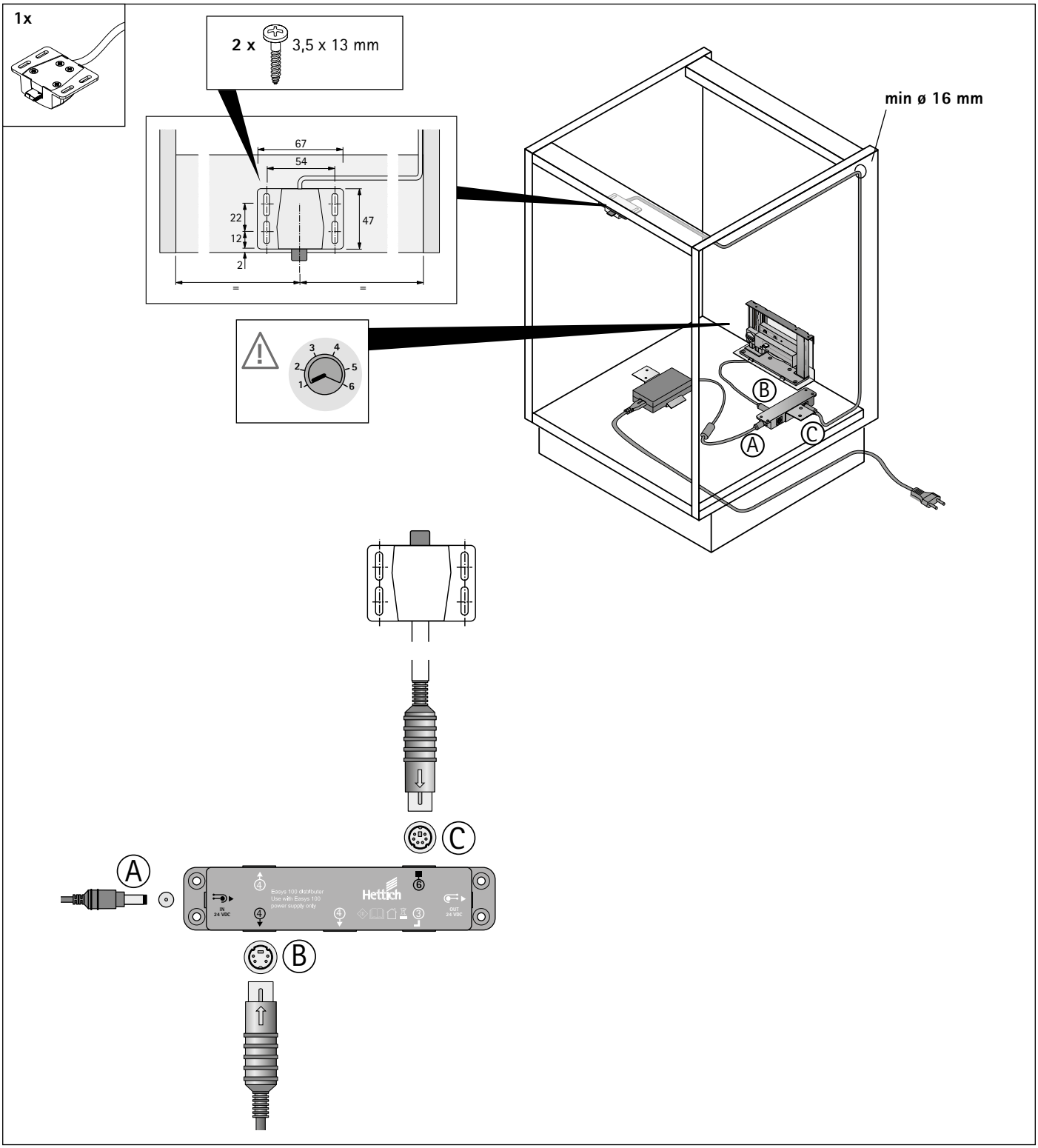
The two drive units on one level must be set to the same unit address so that pushing or pulling on the front panel is detected across the entire width, leaving both drive units to trigger simultaneously.

This configuration is used both for a single drawer with wide front and for two drawers with a connected wide front.

When activating two drive units at one and the same time, make sure each drive remains below its mechanical loading capacity.

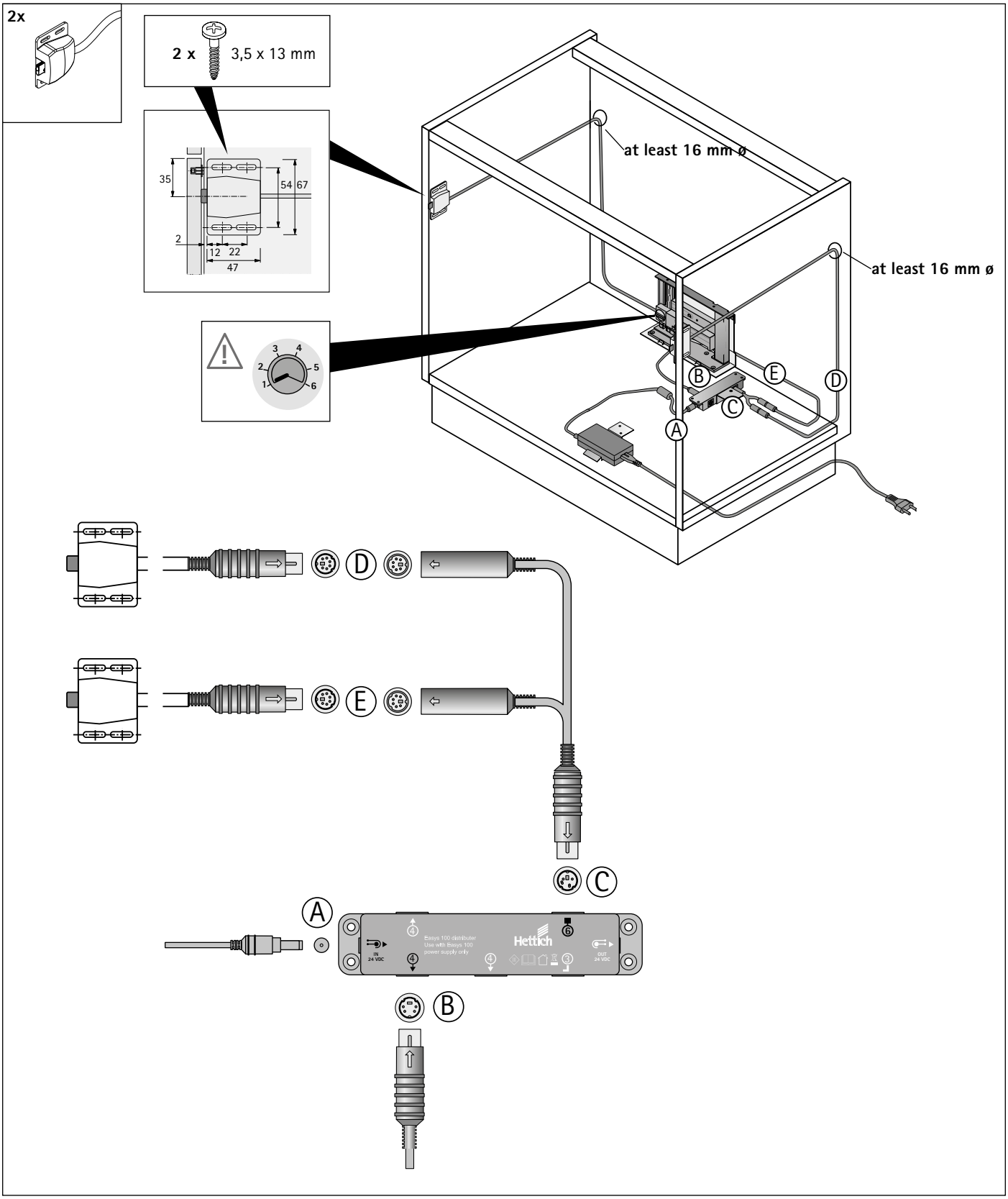
- Two drive units may be used to open a drawer with a max. total weight of 70 kg (drawer including contents).
- Two drive units may be used to open two drawers, each with a max. total weight of 40 kg (drawer including contents) behind a wide drawer front. Together, however, the two drawers must not exceed a total weight of 70 kg (drawer including contents).

5.5.4 Use of sensor for tall fronts



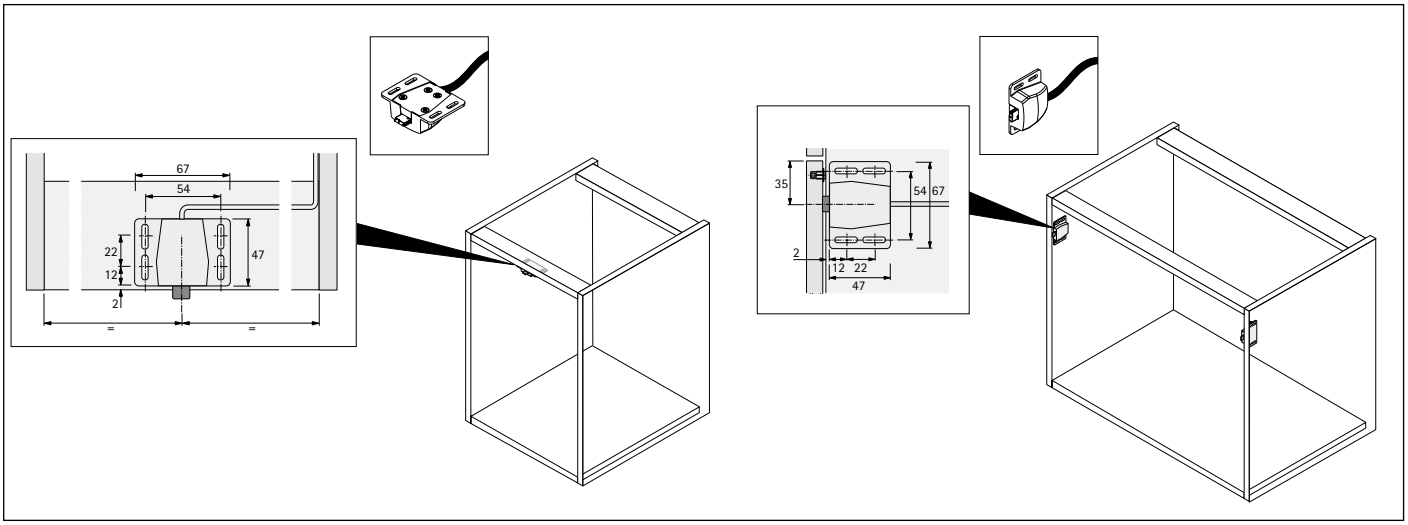
Using the system in kitchen units with tall drawer fronts requires a sensor for tall fronts, as illustrated. This increases triggering sensitivity across the entire front panel. For the sensor to be active, the drive unit's device address intended to trigger the respective drawer must be set to "1". This configuration is used with distributor and a power supply unit.

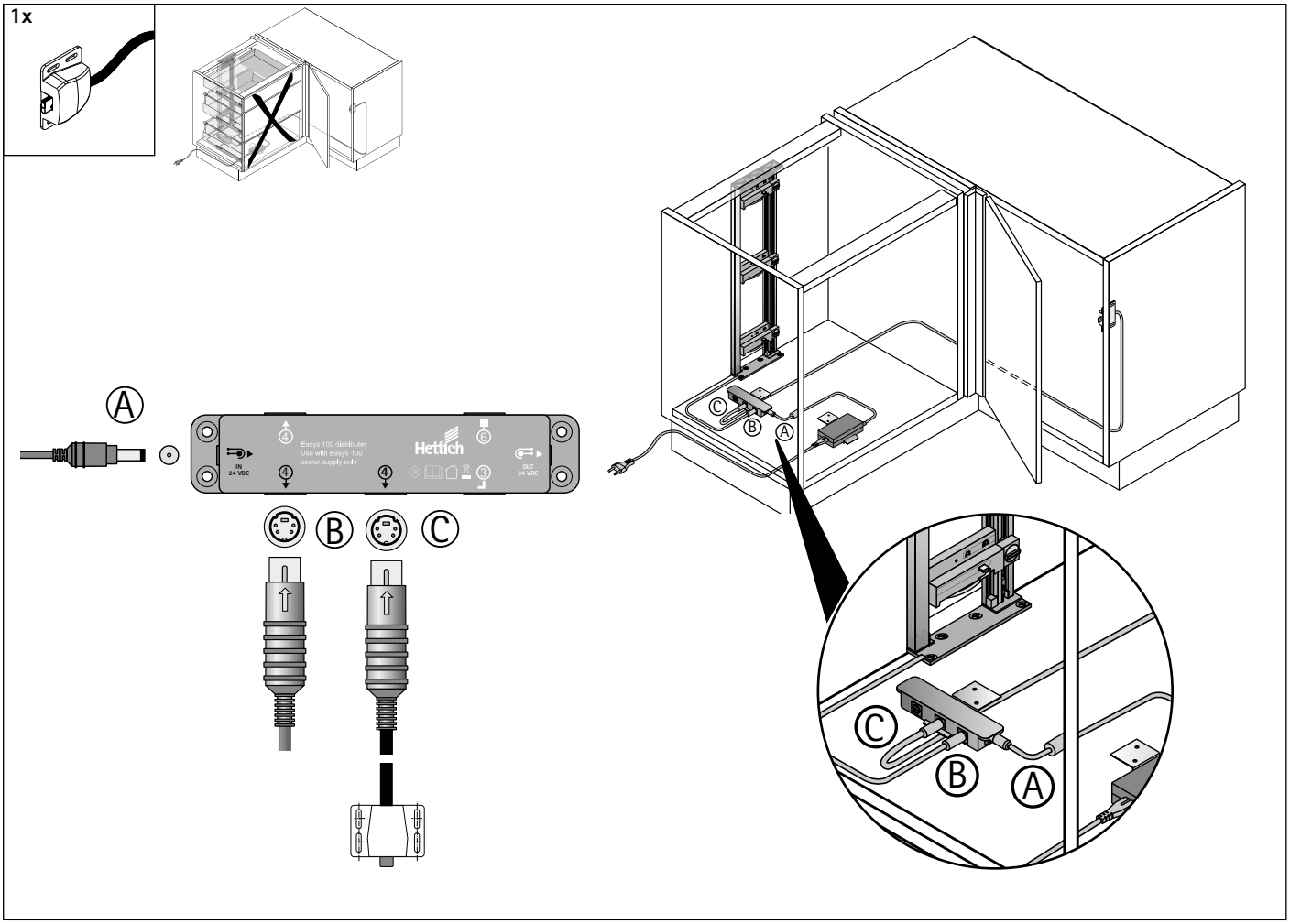
5. Installation



Particularly tall drawer fronts require the use of two sensors for tall fronts with a Y cable connected to a distributor. For the sensor to be active, the drive unit's device address intended to trigger the respective drawer must be set to "1". This configuration is used with distributor and a power supply unit.

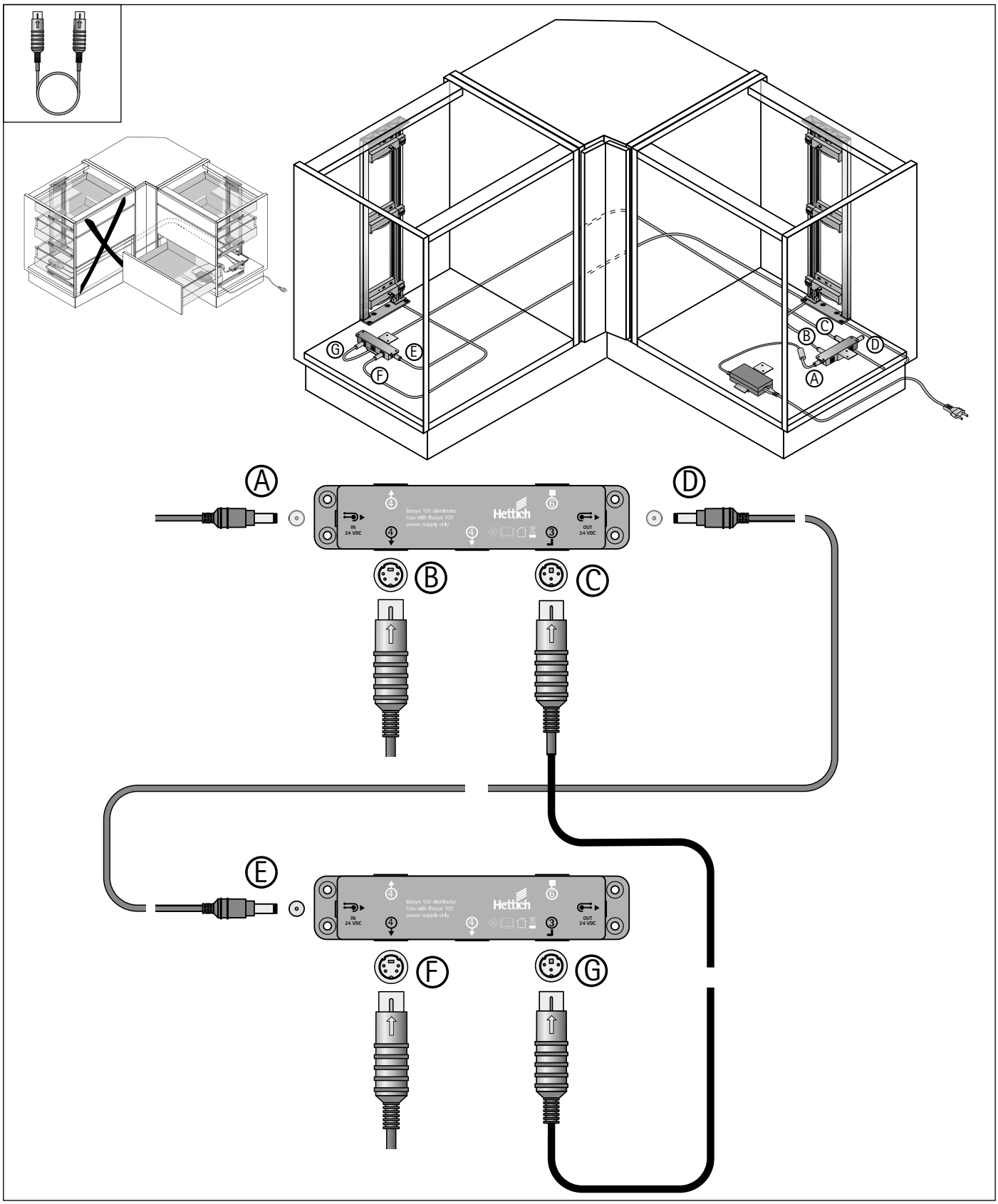
5.5.5 Use with cross corner drawer units and kitchen cabinet with hinged door





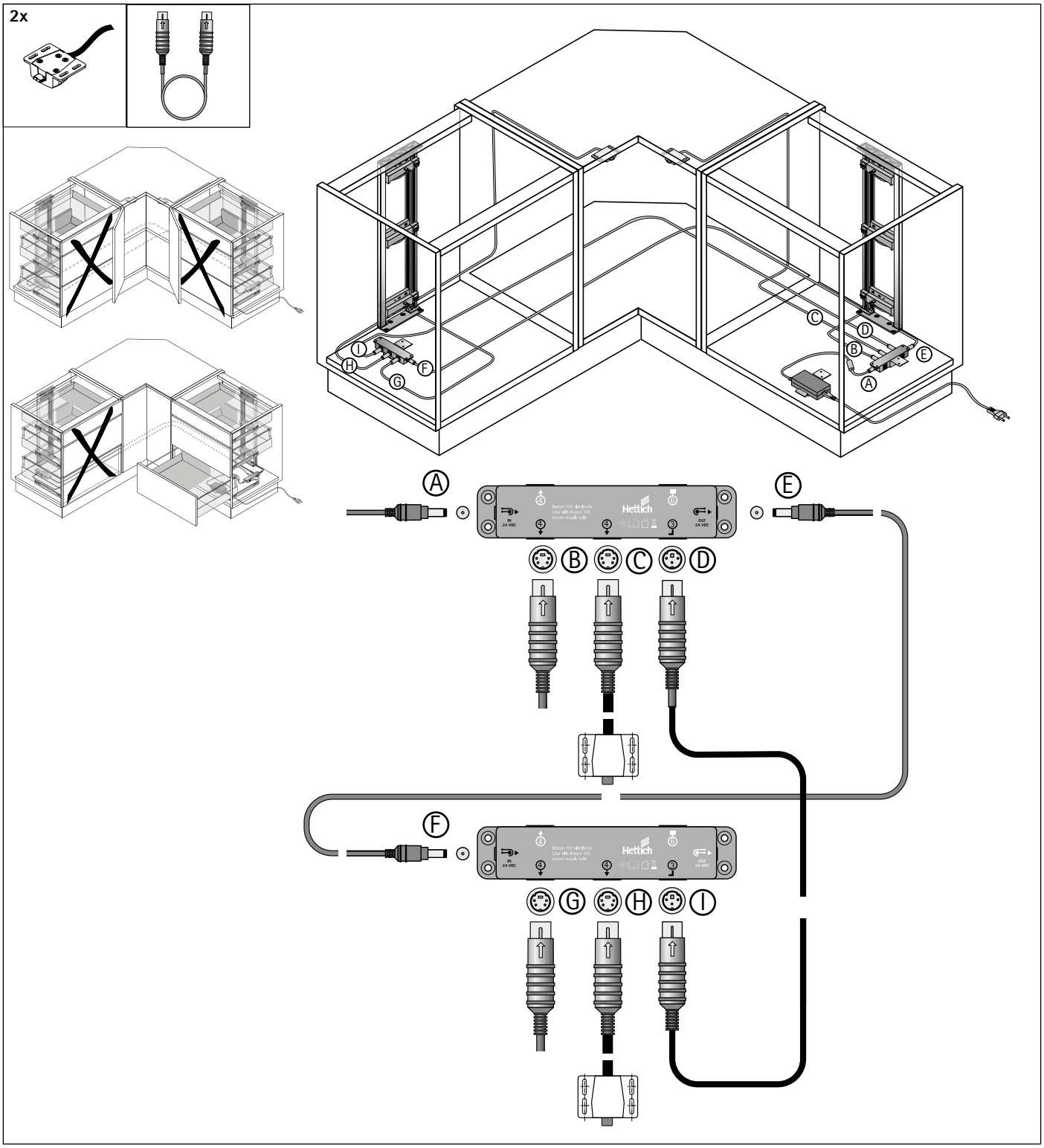
Using the system with cross corner drawer units and one hinged door, a collision guard button (black connecting cable) must, as illustrated, be fitted on the kitchen unit with hinged door. This identifies an open hinged door, preventing drawers from opening at one and the same time. This configuration is used with distributor and a power supply unit.

5.5.6 Use on two cross corner drawer units



Using the system with cross corner drawer unit requires two distributors which, as illustrated, must be interconnected via a cable for corner solution. This suppresses drive unit function in the other kitchen units as soon as a drawer is opened. This configuration is operated from a power supply unit.

5.5.7 Use with two cross corner drawer units and a unit with two hinged doors

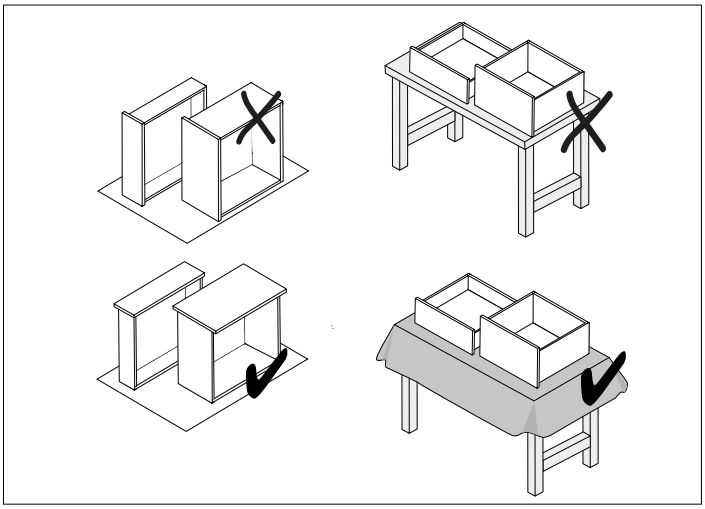


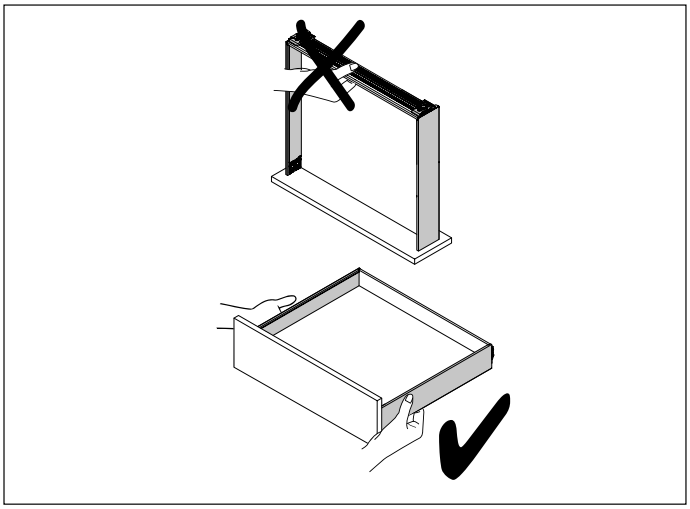
Using the system with two cross corner drawer units and a kitchen unit with two hinged drawers requires two distributors which, as illustrated, must be interconnected via a cable for corner solution. On the kitchen unit with the hinged doors, a collision guard button is used on each hinged door. The function of all drive units in both kitchen units is suppressed when a hinged door is open, and the function of the drive units in the other kitchen units is suppressed as soon as a drawer is opened. This configuration is operated from a power supply unit.

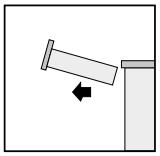
5.6 Using Easys 100 with Hettich drawer systems

Example applications and planning dimensions are given below for various Hettich drawer systems.

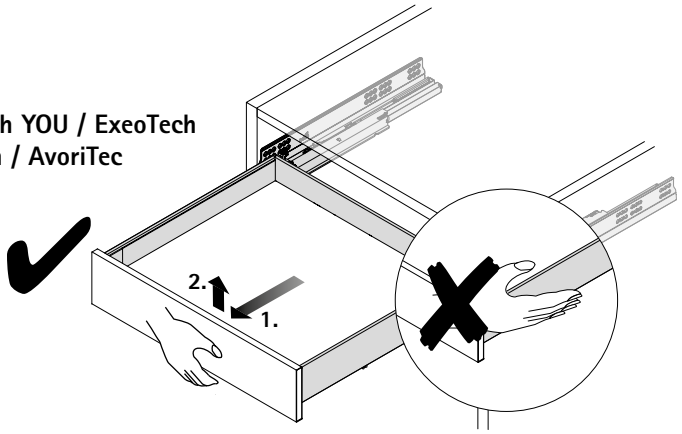
5.6.1 Removing existing drawers



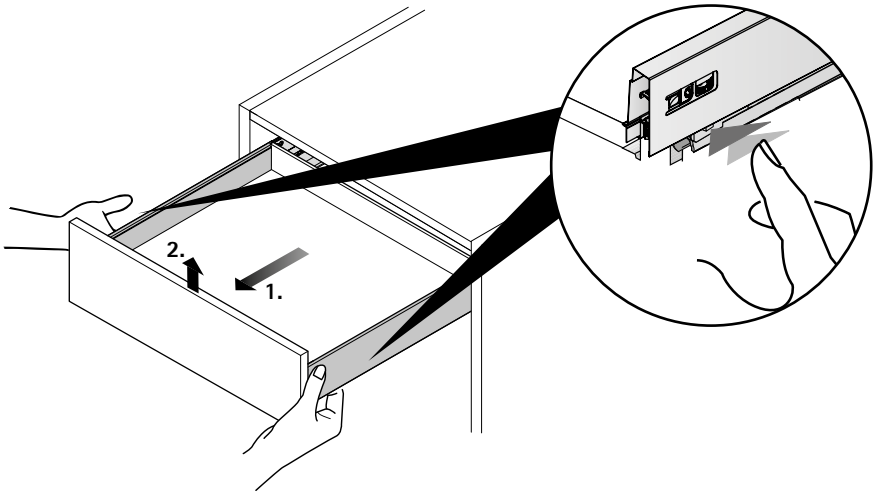




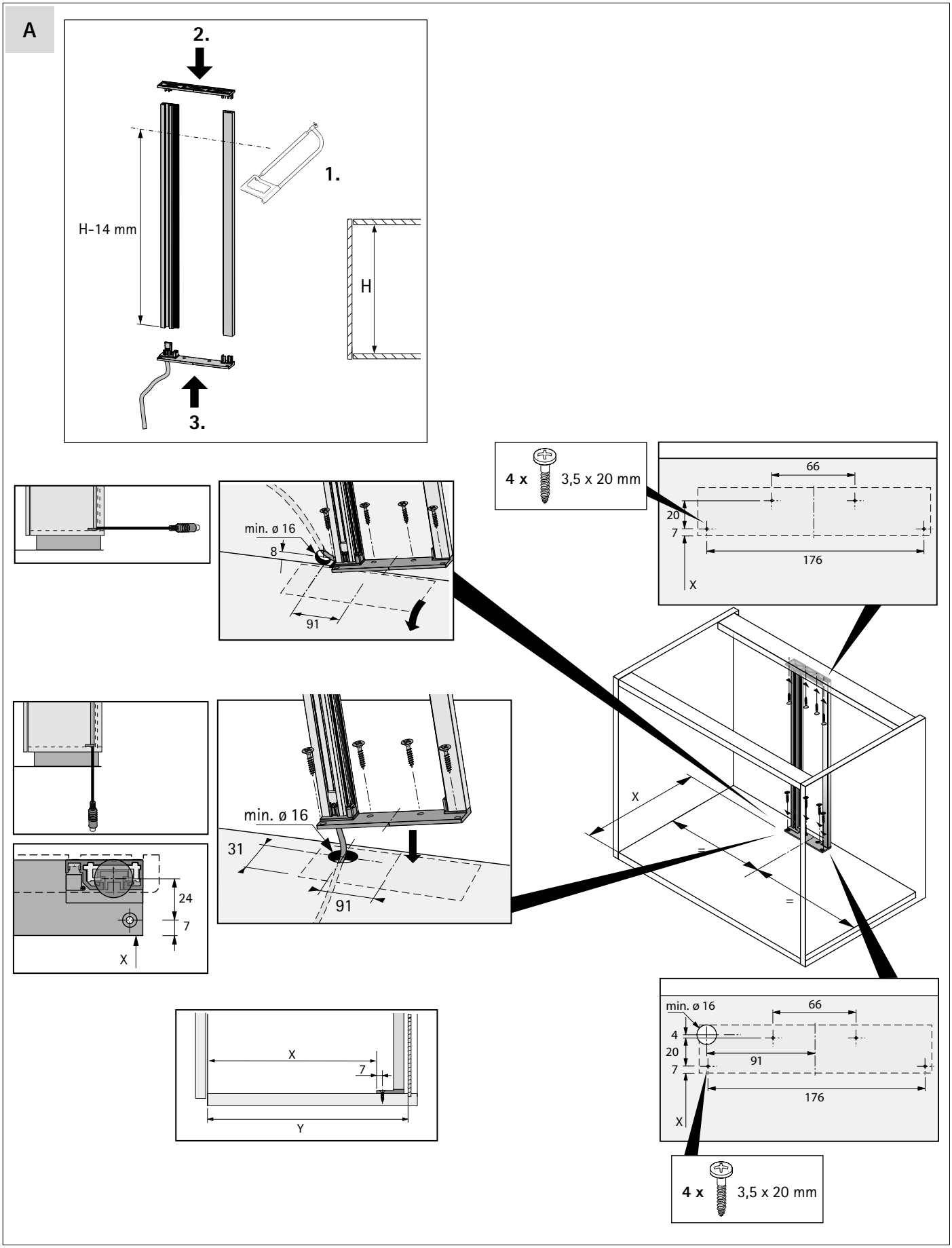
AvanTech YOU / ExeoTech
ArciTech / AvoriTec



InnoTech

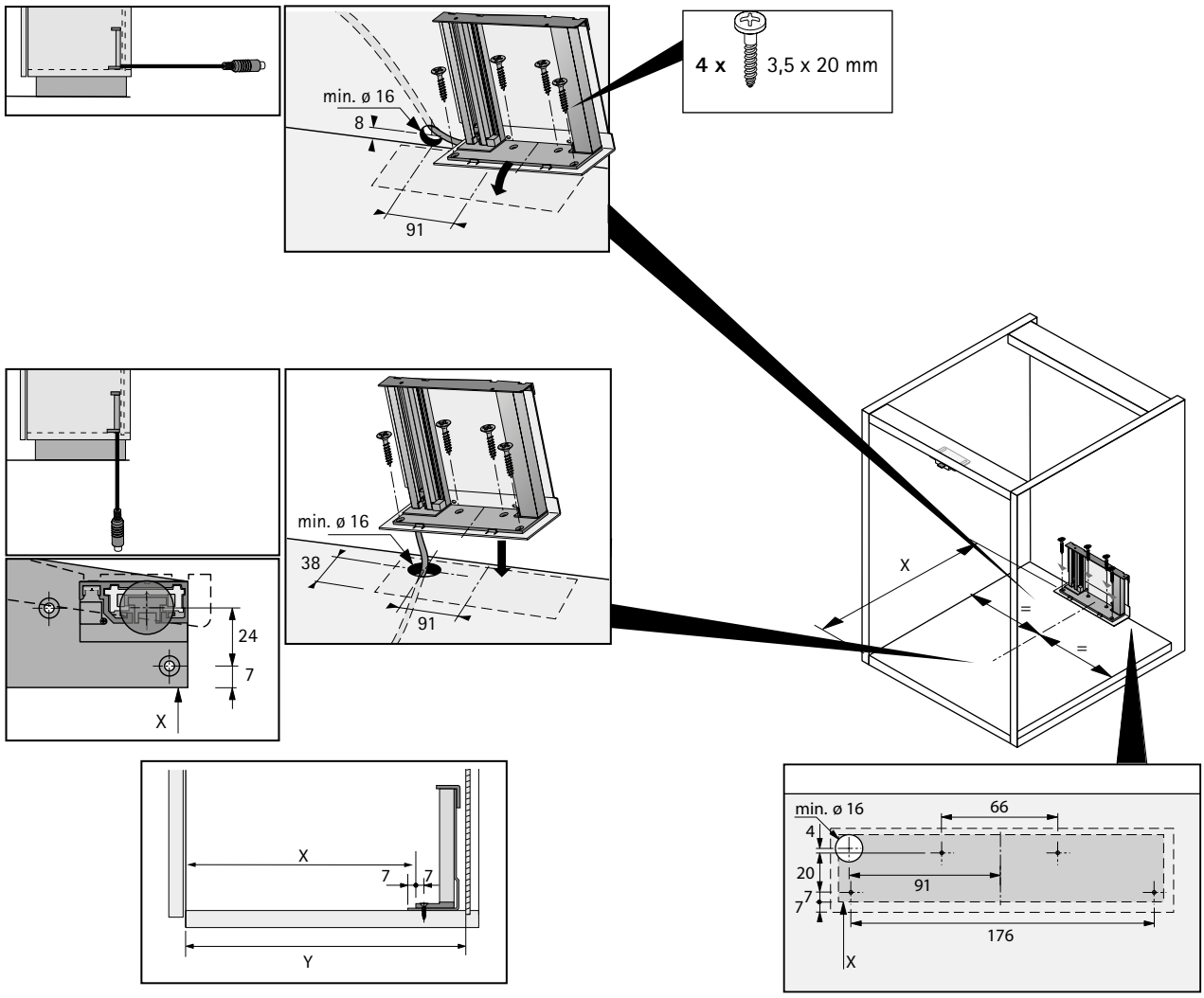


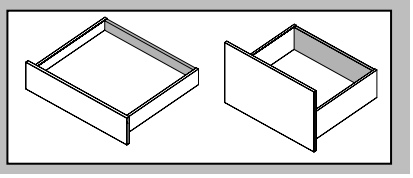
5.6.2 Planning dimensions when using set of profile with set of profiles



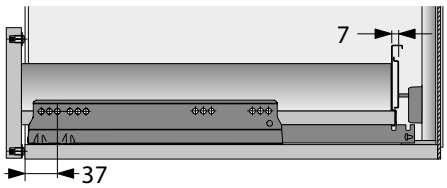
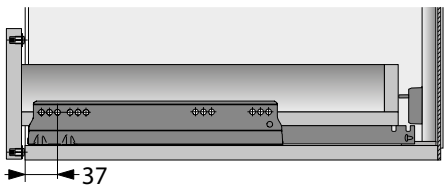
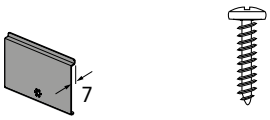
5.6.3 Planning dimensions when using assembly brackets

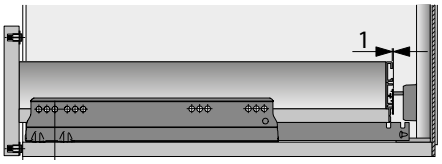
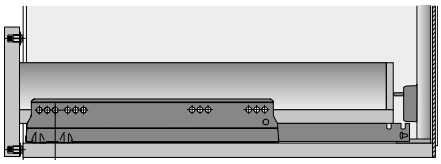
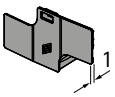
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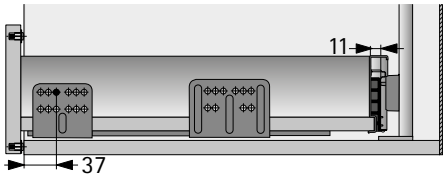
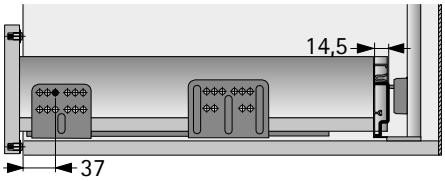
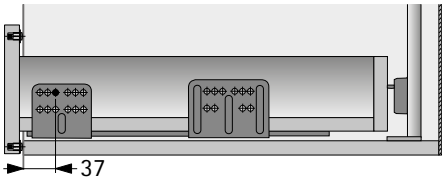
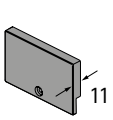
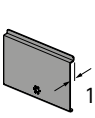




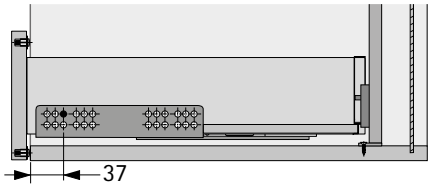
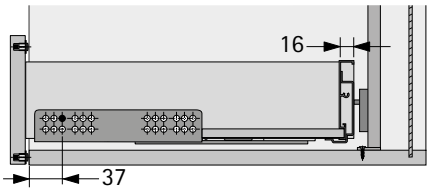
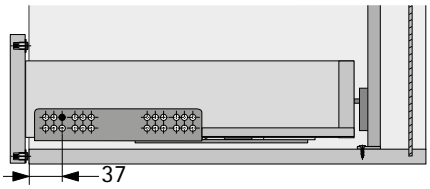
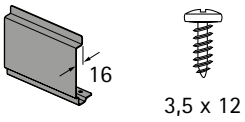
5.6.4 Overview of rear panel adapters for standard drawers

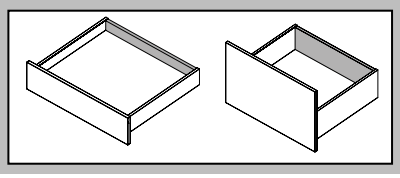
AvanTech YOU / ExeoTech	
Steel rear panel	Aluminium rear panel / wooden rear panel
	
 3,5 x 30	

AvoriTech		
Steel rear panel	Aluminium rear panel	Wooden rear panel
		
	  3,5 x 12	

ArciTech		
Steel rear panel	Aluminium rear panel	Wooden rear panel
		
  3,5 x 40	  3,5 x 40	

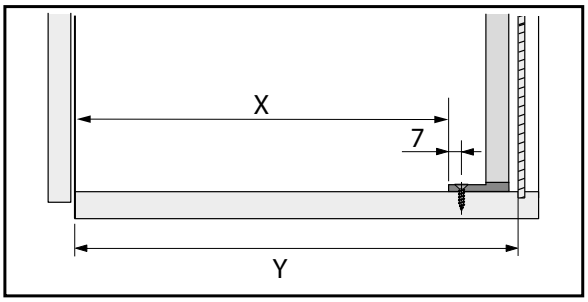
5. Installation

InnoTech / InnoTech Atira		
Steel rear panel	Aluminium rear panel	Wooden rear panel
		
	 3,5 x 12	

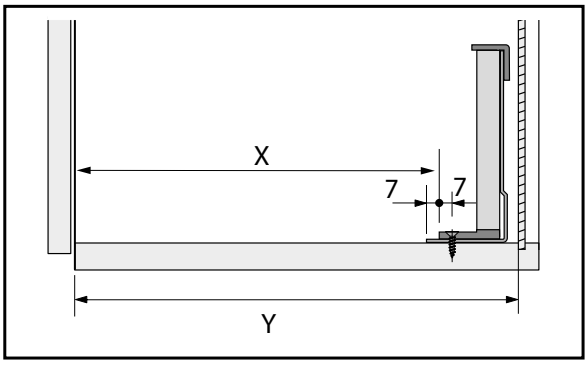


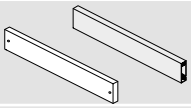
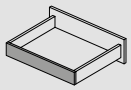
5.6.5 Planning dimensions for standard drawer

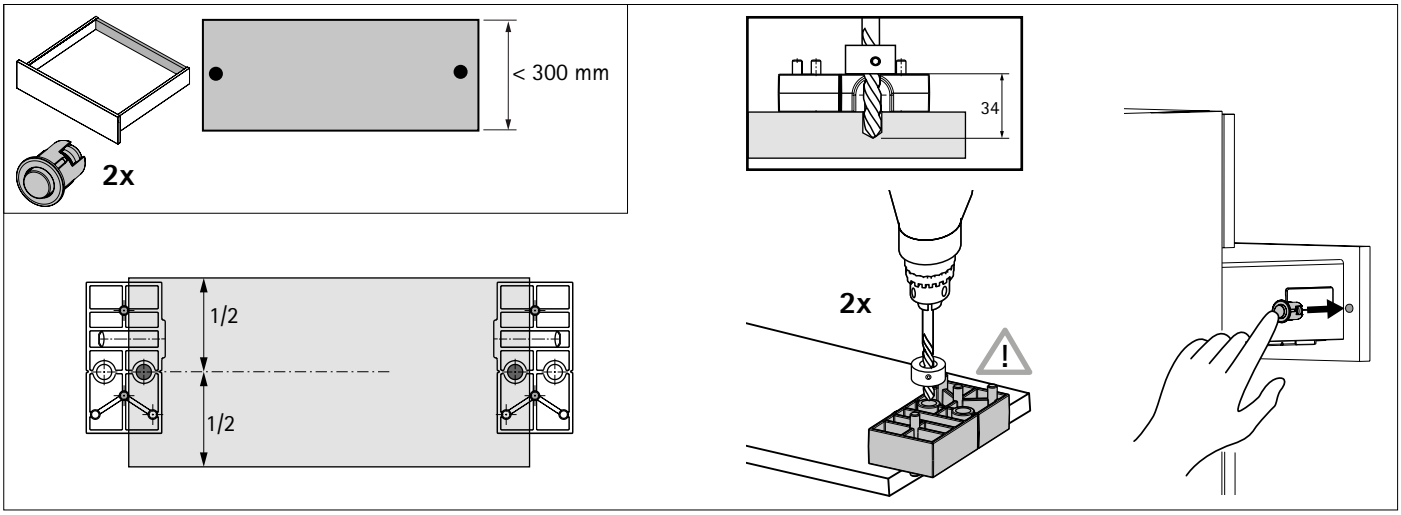
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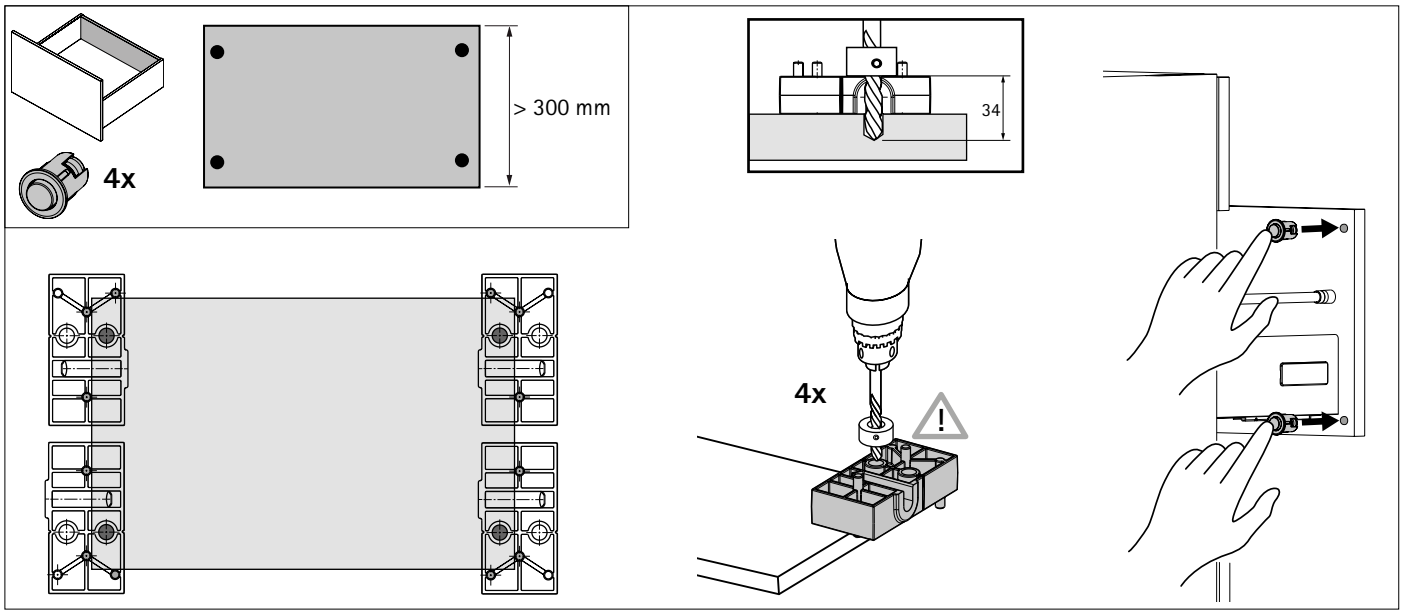


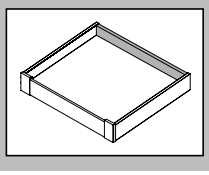
B



	AvanTech YOU / ExeoTech		AvoriTech		ArciTech		InnoTech / InnoTech Atira	
	A	**B**	**A**	**B**	**A**	**B**	**A**	**B**
	X = NL - 14 Y = NL + 26	X = NL - 14 Y = NL + 31	X = NL - 22 Y = NL + 18	X = NL - 22 Y = NL + 23	X = NL - 13 Y = NL + 27	X = NL - 13 Y = NL + 32	X = NL + 5 Y = NL + 45	X = NL + 5 Y = NL + 50
	X = NL - 22 Y = NL + 18	X = NL - 22 Y = NL + 23			X = NL - 19 Y = NL + 21	X = NL - 19 Y = NL + 26	X = NL - 10 Y = NL + 30	X = NL - 10 Y = NL + 35

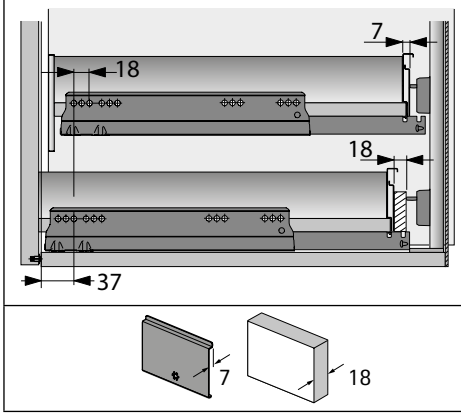
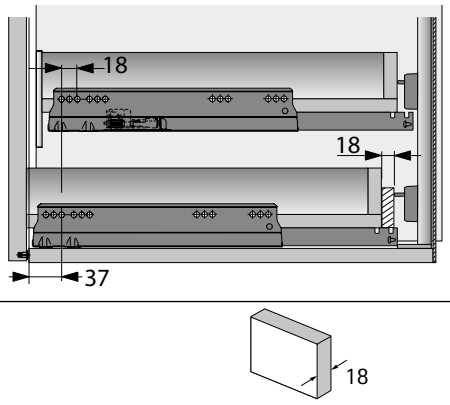




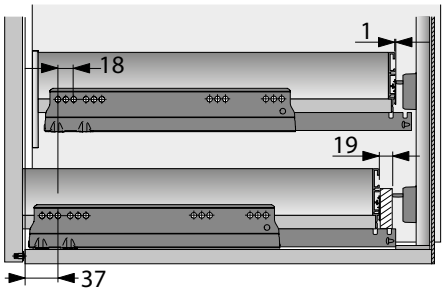
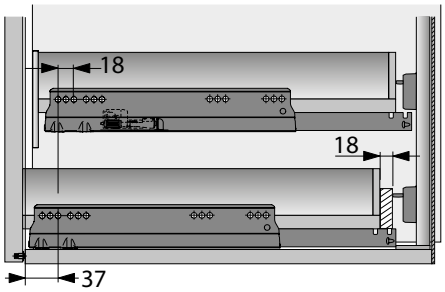
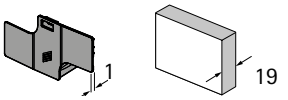
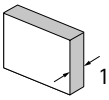


5.6.6 Overview of rear panel adapters for internal drawer

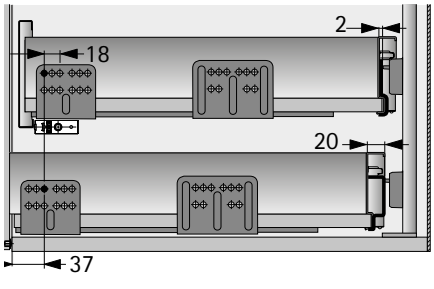
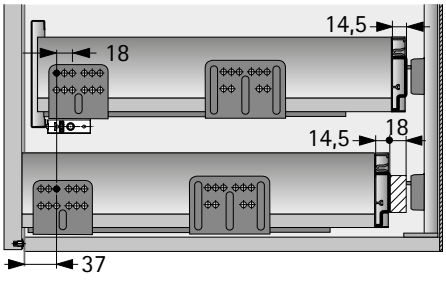
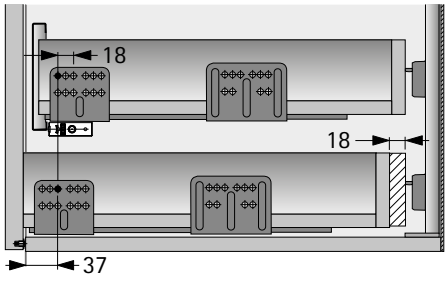
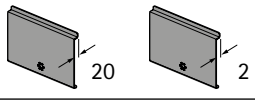
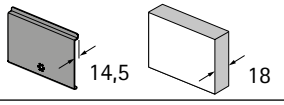
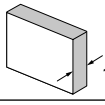
AvanTech YOU / ExeoTech

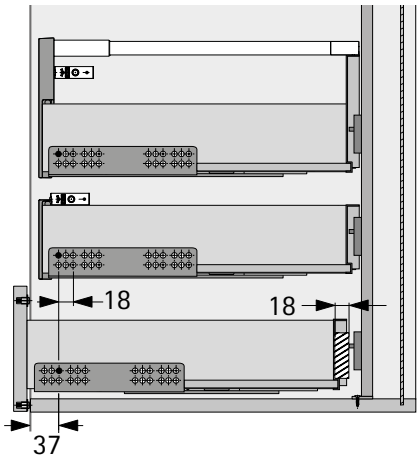
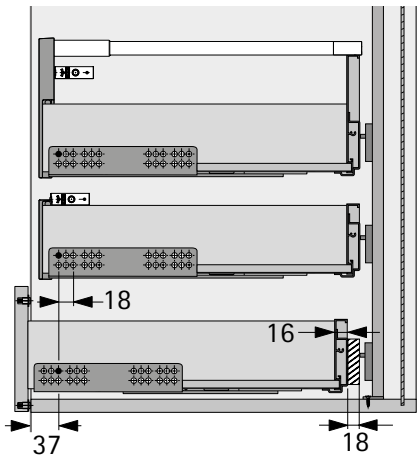
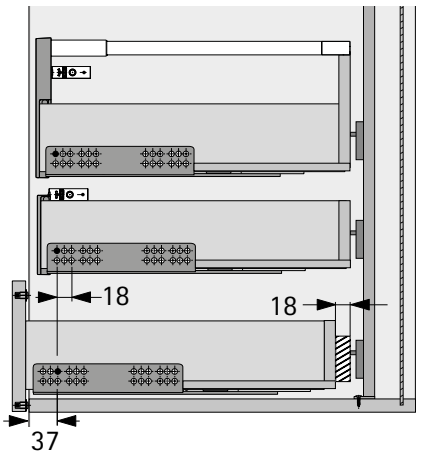
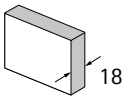
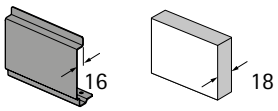
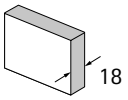
Steel rear panel	Aluminium rear panel / wooden rear panel
	

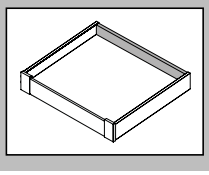
AvoriTech

Steel rear panel	Aluminium rear panel	Wooden rear panel
		
		

ArciTech

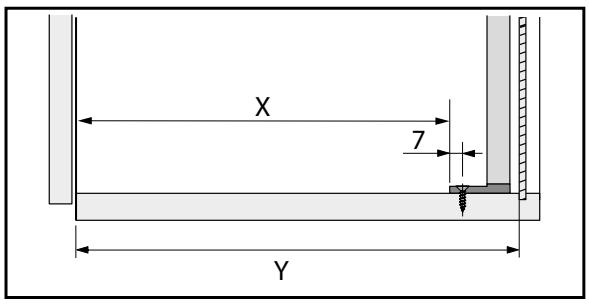
Steel rear panel	Aluminium rear panel	Wooden rear panel
		
		

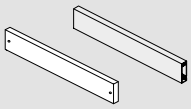
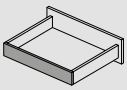
InnoTech / InnoTech Atira		
Steel rear panel	Aluminium rear panel	Wooden rear panel
		
		



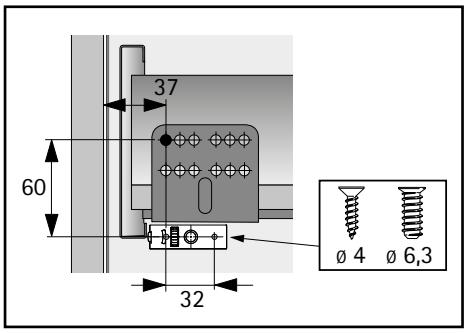
5.6.7 Planning dimensions for internal drawer

A

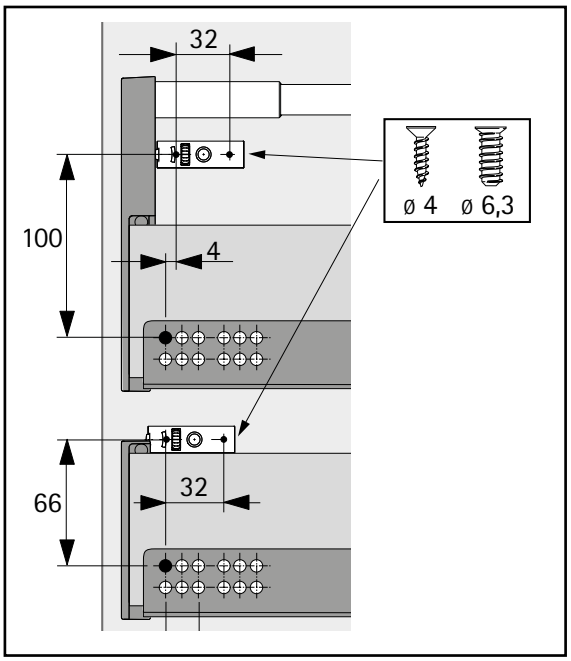


	AvanTech YOU / ExeoTech	AvoriTech	ArciTech	InnoTech / InnoTech Atira
	A	**A**	**A**	**A**
	X = NL + 4 Y = NL + 44	X = NL - 4 Y = NL + 36	X = NL + 5 Y = NL + 45	X = NL + 23 Y = NL + 63
	X = NL - 4 Y = NL + 36		X = NL - 10 Y = NL + 30	X = NL + 8 Y = NL + 48

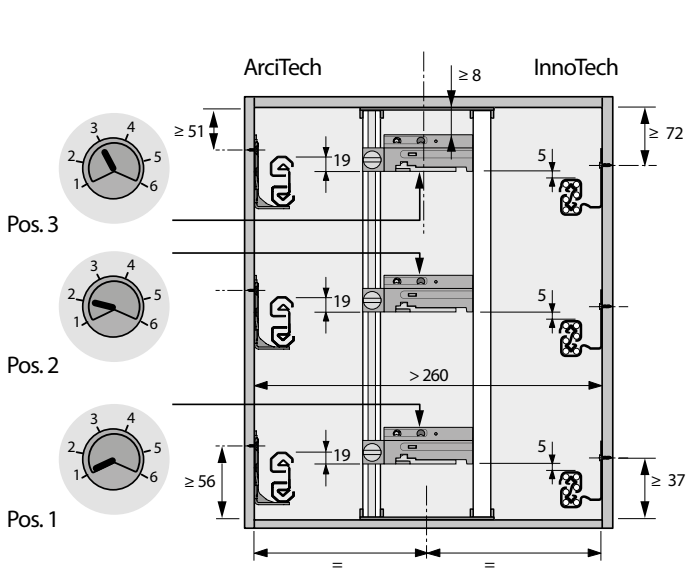
ArciTech

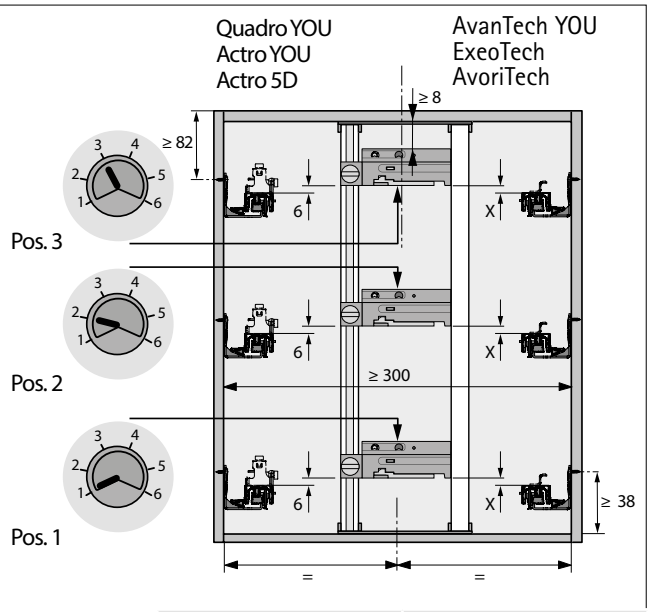


InnoTech / InnoTech Atira



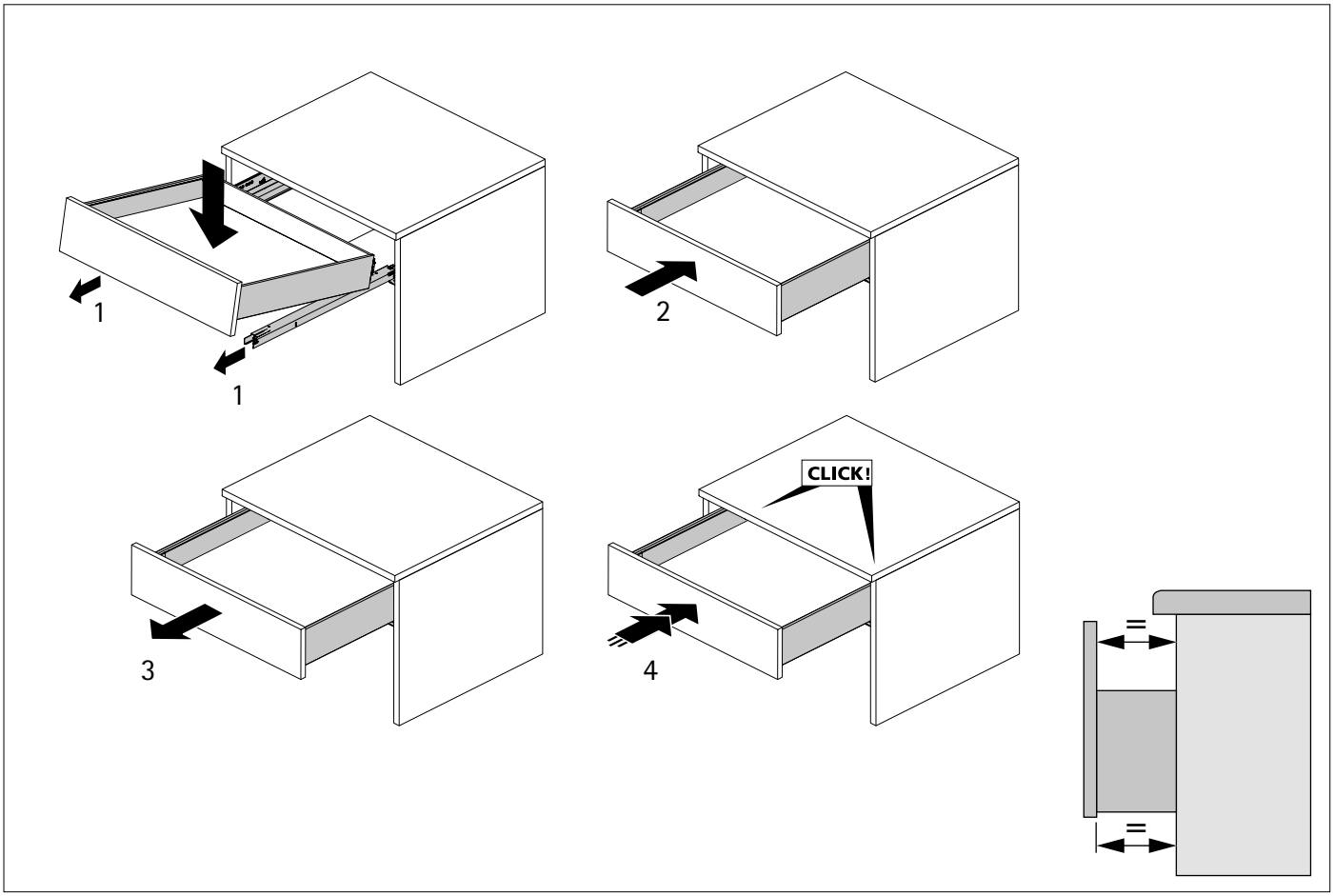
5.6.8 Planning dimensions and examples of assigning addresses to drive unit





AvanTech YOU / ExeoTech	AvoriTech
X = 15	X = 2,5

5.6.9 Installing drawers



6. First time of use

NOTE!

Initial startup must only be carried out by qualified kitchen fitters

Qualification required:

- Qualified kitchen fitters
- plus a qualified electrician, if needed

1. Remove tools and small items from kitchen units.
2. Make sure that kitchen units are fully assembled, fitted and secured in place to prevent them from tipping over.
3. Check to make sure safety distance is met between opposite kitchen units and objects.
4. Re-check all screw connections to make sure they are tight.
5. Check to ensure correct use and connection of safety guards required for cross corner kitchen units and hinged doors.
6. Check all plug connections for firm fit.
7. Check to make sure cables are properly laid and secured.
8. Check to make sure that drive units and power supply units are not concealed by objects or textiles.
9. Check to make sure drawers are properly engaged.
10. Check drawers for smooth running action.
11. Check to make sure drawer opening zones are not obstructed.
12. Check to make sure mains power socket is properly installed.
13. Connect power supply unit plug to the mains power socket.
14. Check to make sure all drawers are working properly and, if necessary, readjust the device address and driving force for specific drive units (> *„5.4.2 Setting drive unit addresses“* and > *„5.4.3 Setting the driving force“*).

If the drive unit needs to be reconfigured, drawers must be removed again.

15. Check to ensure proper working order of safety guards on cross corner kitchen units and units with hinged doors, and, if necessary, recheck safety guards for correct wiring.

» It must not be possible to trigger cross corner drawers, the opening zone of which overlaps the opening range of hinged doors.

7. Operation

7.1 Operating safety information

WARNING!

Risk of injury and damage to property from overloaded drawers falling out of cabinets!

On opening overloaded drawers, they can fall out of cabinets, causing serious injury and considerable damage to property.

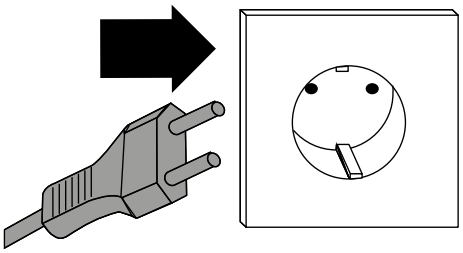
- Never overload drawers. When filling drawers, keep to the maximum permissible weight they can carry.

7.2 Switch system on and off

Qualification required:

- User

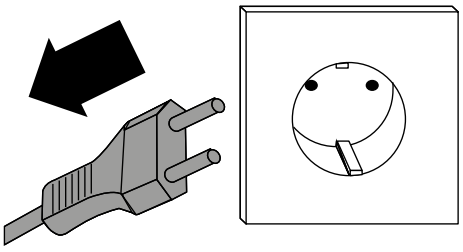
Switching on



1. Connect the power supply unit to the mains power socket. When using a switchable power socket, turn on its switch too.

» The system is ready for operation after approx. 5 seconds.

Switching off



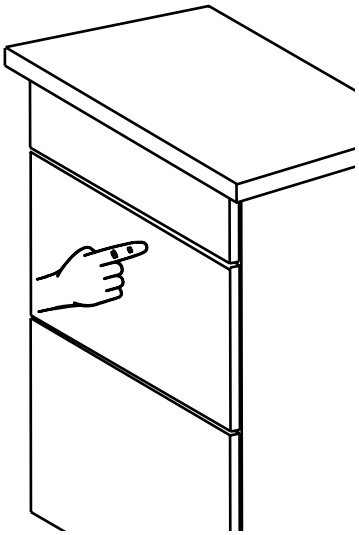
1. Pull the power supply unit's mains plug out of the socket or, if using a switchable socket, turn off its switch too.

7.3 Opening and closing drawer

Qualification required:

- User

Opening drawer



1. Briefly press on the drawer front panel or gently pull on the handle of the drawer you wish to open.
2. Step aside out of the drawer opening zone.

» The drawer moves out after a short time lag.

3. Pull the drawer out further by hand to the opening distance required.

Closing drawer

1. Push the drawer back in by hand until it engages in the cabinet body.

8. Servicing

8.1 Safety information on maintenance work

⚠ DANGER!

Danger to life from improper maintenance and cleaning!

Failure to disconnect the system from the mains power supply for maintenance and cleaning work may result in life threatening situations.

- Before attempting any maintenance and cleaning work, reliably disconnect the system from the mains power supply (> *„2.11 Reliable disconnection from the mains power supply“*).
- When cleaning kitchen units, make sure no water can get inside the power supply unit and drive.

8.2 Maintenance table

Interval	Qualification	Maintenance work
monthly	User	Carry out visual and function check on the system (> *„8.3 Conducting visual and function check on system“*)
As necessary	Qualified kitchen fitters	Cleaning components (> *„8.4 Cleaning components“*)

8.3 Conducting visual and function check on system

CAUTION!

Risk of injury and collision from simultaneously opening cross corner drawers!

In the event of a malfunction, drawer collisions may occur while conducting the function check on cross corner kitchen units if safety guards have not been correctly installed or are not working. This poses a risk of injury and damage to property.

- When conducting the function check, make sure that the respective cross corner kitchen unit is not opened all the way before attempting to open the drawer that may cause a collision.
- Do not stand in the drawer opening zone while conducting the function check.

Qualification required:

- User

A visual and function check must be carried out to make sure the system works correctly.

Checking mains plug

1. Check the mains plug for easy access and damage.

» If necessary, restore accessibility. Instruct Customer Service to replace a faulty mains power cable with an OEM mains power cable.

2. Disconnect the mains plug or, if a switchable socket is being used, switch off the socket and check to make sure the system is properly disconnected from the mains power supply.

» Drawers must no longer open automatically after switching off. Replace any faulty, switchable separate socket or socket strip. Get a qualified electrician to repair permanently installed sockets

Checking cross corner kitchen units

CAUTION!

Risk of injury and collision from non functioning safety guards!

1. In the case of cross corner kitchen units with drawers using the same opening zone, open a drawer and push it in again by hand so that it is still left slightly open but does **not** engage.
2. Try to open a cross corner drawer.

» It must not be possible to open drawers in cross corner kitchen units at one and the same time. In the event of a fault, discontinue using the system and have it repaired by Customer Service.

3. Close drawers all the way again.

Checking kitchen units with hinged doors

CAUTION!

Risk of injury and collision from non functioning safety guards!

1. For kitchen units fitted with hinged doors, open hinged door only slightly and, at the same time, try to open a cross corner drawer that opens into the opening zone of the hinged door.

» When the hinged door is open, it must not be possible to open cross corner drawers. In the event of a fault, discontinue using the system and have it repaired by Customer Service.

2. Close hinged door and all drawers all the way again.

8.4 Cleaning components

NOTE!

Cleaning work above and beyond dusting must only be carried out by qualified kitchen fitters.

NOTE!

Damage to components from unsuitable cleaning products!

Alkaline or acid based cleaning products can damage components.

- Do not use any alkaline or acid based cleaning products.

If components get heavily soiled during installation or after prolonged use, they can be cleaned as follows:

Qualification required:

- Qualified kitchen fitters

1. Reliably disconnect system from the mains power supply (> *„2.11 Reliable disconnection from the mains power supply“*).
2. Clean soiled components with a moist cloth without any other additives.
3. Remove any residual moisture or allow to dry before returning the system to operation.

There is an increased risk of soiling on the drive unit's actuating element.

9. Troubleshooting

9.1 Safety information on troubleshooting



⚠ DANGER!

Danger to life from improperly conducted trouble-shooting work!

Improperly conducted troubleshooting work may result in life threatening situations.

- Troubleshooting work involving the need to disassemble the kitchen unit or remove individual system components must only be carried out by qualified kitchen fitters.

9.2 Overview of malfunctions and possible causes

Type of malfunction	Possible cause	Remedy	Person
Drawer will not open	Power supply disconnected	Make sure the mains plug is plugged in and, when using a switchable socket, its switch is turned on	User
	Object is obstructing the drawer	Remove object from the drawer opening zone	User
	Drawer front panels chafing and contacting one another	Check and, if necessary, adjust drawer reveals	Qualified kitchen fitters
	Drawer front buffer or adjustable spacer incorrectly positioned	Check and, if necessary, adjust drawer front buffer or adjustable spacer	Qualified kitchen fitters
	Insufficient number of drawer front buffers or adjustable spacers	For front panel heights > 300 mm, ensure that four front panel buffers are fitted and, if necessary, add front panel buffers	Qualified kitchen fitters
	Drawer not aligned with drive unit sensor	Check drawer position or depth / height at which drive unit is positioned and adjust if necessary	Qualified kitchen fitters
	Break in cable connection	Check all cable plug connections to make sure they are firmly in place and, if necessary, unplug them and plug them back in again.	Qualified kitchen fitters
	Component faulty	Check system and replace faulty components (> > *„9.3 Check system and replace faulty components“*)	Qualified kitchen fitters
Drawer only opens after pulling or pushing several times	System is being operated too quickly in succession	After pushing or pulling, wait at least 1 - 2 seconds	User
	Drawer front not pressed for long enough	Push front panel a little longer	User
	Front panel not pressed hard enough	Push front panel a little harder, and not at the edges	User

Type of malfunction	Possible cause	Remedy	Person
On opening, drawer travels into limitation stop position	Cabinet body/drawer is not level	Make sure cabinet body is level	Qualified kitchen fitters
	Drive unit's driving force set too high	Reduce drive unit's driving force (> *„5.4.3 Setting the driving force"*)	Qualified kitchen fitters
	Component faulty	Check system and replace faulty components (> > *„9.3 Check system and replace faulty components"*)	Qualified kitchen fitters
Several drawers open simultaneously	Drawer front panels chafing and contacting one another	Check and, if necessary, adjust drawer reveals	Qualified kitchen fitters
	Same device address assigned for different drawer levels	Set each drawer level on the respective drive unit to a unique device address (> *„5.4.2 Setting drive unit addresses"*)	Qualified kitchen fitters
Drawer not opening far enough	Cabinet body/drawer is not level	Make sure cabinet body is level	Qualified kitchen fitters
	Drive unit's driving force set too low	Increase drive unit's driving force (> *„5.4.3 Setting the driving force"*)	Qualified kitchen fitters
	Pull-out system sluggish	Check pull-out system and repair or replace if necessary	Qualified kitchen fitters
	Drawer too large for a single drive unit	Use a second drive unit for heavy and wide drawers (> *„5.5.3 Use with two drive units operating at the same time"*)	Qualified kitchen fitters
	Different device address for two drive units used for one drawer level	Set both drive units being used for one drawer to the same device address (> *„5.4.2 Setting drive unit addresses"*)	Qualified kitchen fitters
	Drive unit not properly installed or faulty	Check drive unit for correct installation and replace if necessary (> *„9.4 Replacing drive unit"*)	Qualified kitchen fitters
	Component faulty	Check system and replace faulty components (> > *„9.3 Check system and replace faulty components"*)	Qualified kitchen fitters
Drawer not closing all the way	Drawer opening lever on drive unit has not retracted	Switch off system, wait 30 seconds and switch back on again (> *„7.2 Switch system on and off"*)	User
		If the malfunction persists, replace the drive unit.	Qualified kitchen fitters
	Drawer has got stuck on the drive unit's drawer opening lever	Check drawer position or depth / height at which drive unit is positioned and adjust if necessary	Qualified kitchen fitters

Users must contact the manufacturer's kitchen retailer or customer service to remedy faults that cannot be resolved by the user measures described here (sections highlighted in grey).

9.3 Check system and replace faulty components

To locate a faulty component, first try to locate the cause of the fault using the status LEDs on the power supply unit (specific power supply unit versions only) and drive unit(s).

9.3.1 Locating source of malfunction

Qualification required:

- Qualified kitchen fitters/qualified electricians

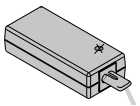
1. For power supply unit versions with power indicator, check the status shown by the power indicator.

» If the power indicator is not lit, the power supply unit is malfunctioning.

If the power supply unit does not have a power indicator, a qualified electrician must check whether the power supply unit's 24 V output voltage is present.

2. Identify and rectify the possible cause of malfunction.

Power indicator on the power supply unit not lit/no output voltage at power supply unit

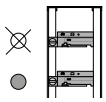


Possible cause	Remedy
Mains power socket wthout power	Use an alternative power socket and, if necessary, have the socket checked by a qualified electrician
Mains power cable not properly plugged into power supply unit or faulty	Check plug connection
Power supply unit or other system component faulty	Check relevant components for proper working order (> *„9.3.2 Checking individual components for proper working order"*)

3. Check power indicator on all drive units with drawer opened.

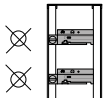
» If a drive unit's power indicator is not lit up when the drawer is open, there is a fault in a cable connection, the distributor, the profile adapter/assembly bracket or the drive unit itself.

Power indicator not lit on one drive unit



Possible cause	Remedy
Drive unit not properly installed or faulty	Check drive unit for correct installation and replace if necessary (> *„9.4 Replacing drive unit"*)

Power indicator of several drive units on a profile not lit or not lit permanently



Possible cause	Remedy
Broken cable connection between power supply unit, distributor and profile adapter/assembly bracket	Check plug connections of relevant cables
Cable, distributor or profile adapter/assembly bracket faulty	Check relevant components for proper working order (> *„9.3.2 Checking individual components for proper working order"*)

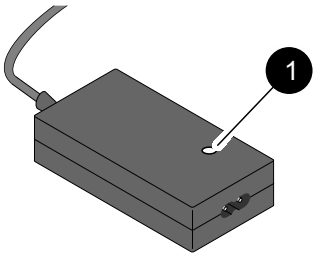
9.3.2 Checking individual components for proper working order

If the cause of malfunction cannot be unequivocally located, all components must be checked individually.

Qualification required:

- Qualified kitchen fitters/qualified electricians

1. Disconnect all cable connections between the components apart from the mains cable's connection to the power supply unit and that of the power supply unit to the distributor.



2. Check to make sure that the power supply unit's power LED (**1**) lights up when the power supply unit is plugged in.

If the power supply unit does not have a power indicator, a qualified electrician must first (and in all other further checking activities) check whether the power supply unit's 24 V output voltage is present.

3. One by one, connect additional components to the power supply unit in the order of sequence shown below and, after connecting each component, check to make sure that the power supply unit's power indicator (**1**) is still lit or that the 24 V output voltage is still present.

- Distributor
- Profile adapter/assembly bracket
- Drive unit
- Sensor for tall fronts/collision guard button

» If the power indicator on the power supply unit is no longer lit after connecting a component, or the 24 V output voltage is not present or is too low, the faulty component will have been found and must be replaced.

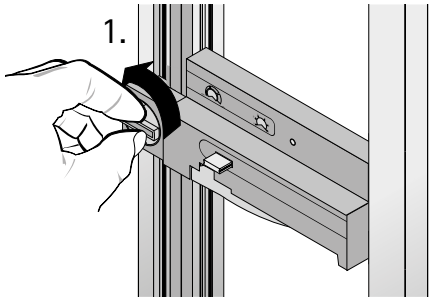
9.4 Replacing drive unit

A faulty drive unit must be replaced.

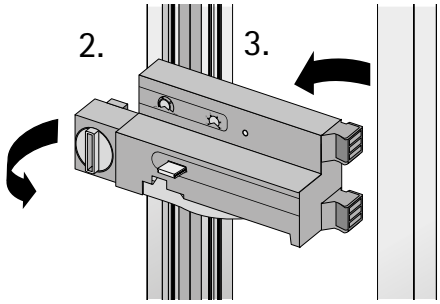
Qualification required:

- Qualified kitchen fitters

1. Reliably disconnect system from the mains power supply (> *„2.11 Reliable disconnection from the mains power supply"*).
2. Remove drawer.
3. Hold drive unit with one hand and undo the drive unit's locking twist knob with the other.



4. Remove drive unit from the profiles.



5. Fit new drive unit (> *„5.4.1 Installing drive unit"*).
6. Take the device address and driving force of the faulty drive unit and apply them to the new drive unit (> *„5.4.2 Setting drive unit addresses"* and > *„5.4.3 Setting the driving force"*).

10. Disassembly and disposal

10.1 Safety information on disassembly and disposal

⚠ DANGER!

Danger to life from improper disassembly!

If the system is not disconnected from the mains power supply before disassembly, life threatening situations may occur.

- Reliably disconnect system from the mains power supply before attempting any disassembly work (> *„2.11 Reliable disconnection from the mains power supply"*).

10.2 Disassembling and disposing of the system

Before disposing of kitchen units, the Easys 100 system must be completely removed from kitchen unit concerned and disposed of separately.

Qualification required:

- Qualified kitchen fitters

⚠ DANGER!

Danger to life from electric shock!

1. Reliably disconnect system from the mains power supply (> *„2.11 Reliable disconnection from the mains power supply"*).
2. Remove and disassemble drawers and hinged doors from kitchen units.
3. Undo cables connecting Easys 100 components.
4. Remove sensors and pushbuttons.
5. Remove small mechanical parts made of plastic and metal (buffers, spacers etc.).
6. Remove drive units from the profile adapters.
7. Remove profile adapters/assembly brackets from the kitchen unit.
8. Remove profiles from profile adapters.
9. Remove distributors and power supply units from the kitchen unit.
10. Wherever possible, retain functioning Easys 100 components for use in other kitchen units.
11. Dispose of all remaining system components separately by material type (> *„10.3 Protecting the enviroment"*)..

10.3 Protecting the environment

NOTE!

Damage to the environment from incorrect disposal!

The Easys system is an electrical and electronic facility which must be disposed of as hazardous waste and therefore separately from household waste. Its components must be recycled or disposed of separately because they contain toxic and hazardous components.

Individual components are made of recyclable raw materials (plastic and metal).

Incorrect disposal can be hazardous to the environment.

- Do not dispose of system components as household waste.
- Dispose of packaging materials and metals separately by material type.
- Dispose of cables and electronic system components as electrical waste through local collection points or return them to the specialist retail trade.
- Disposes of remaining component separately by material type.
- Observe the obligations prescribed in law in the country of use with regard to avoiding waste and proper recycling and disposal.



Dispose of product and packaging separately

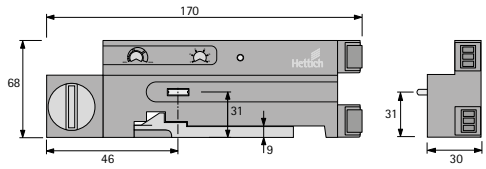


Do not dispose of product as household waste

11. Technical Specifications

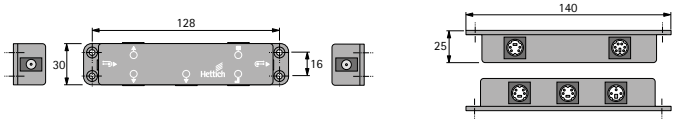
11.1 Components

Drive unit



Object:	Easys 100 drive unit
Operating voltage:	24 V DC
Max. mech. load:	40 kg
	Conditions:
	Levelled up +/- 1°
Nominal load:	1 x ON/7s OFF
	One drawer opening cycle every 7 s with one or two drive units (same configuration 1 - 6) operated in parallel.
Power consumption at maximum load:	3.5 A
Application conditions:	Only use with Easys 100 components
IP rating:	IP 20
Protection class:	III

Distributor



Object:	Easys 100 distributor
Input voltage:	24 V DC
Output voltage:	24 V DC
Application conditions:	Only use with Easys 100 components
IP rating:	IP 20
Protection class:	III

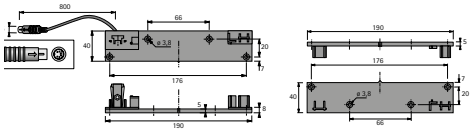
Power supply unit

Object:	Easys 100 power supply unit
Input voltage:	100 - 240 V
	50 - 60 Hz
Input current:	1.5 /2.2 A max
Output voltage (safety extra-low voltage)	24 V DC SELV
Output current:	3.75 A
Output power:	90.0 W
Rated power:	maximum of 2 Easys 100 drive ubit simultaneously (or in parallel operating mode with same addresses)
IP rating:	IP 20
Protection class:	II (totally insulated)
Application conditions:	Only use with Easys 100 components

Power cable

Object:	Easys 100 mains power cable EUROPE (type C) (Easys 100 Power Cable (EU)),
	Easys 100 mains power cable (UK, type G)
Length	1800 mm
Application conditions:	Only use Easys 100 power supply unit
IP rating:	IP 20

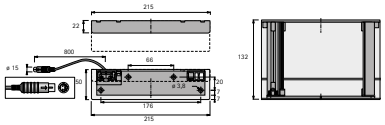
Set of profile mounts



Object:	Set of Easys 100 profile adapters
Operating voltage:	24 V DC
Nominal load:	1 set of profiles
Application conditions:	Only use with Easys 100 components
IP rating:	IP 20
Protection class:	III

11. Technical Specifications

Mounting bracket

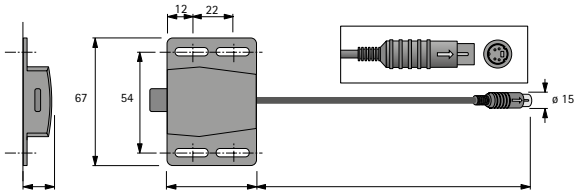


Object:	Set of Easys 100 profile adapters
Operating voltage:	24 V DC
Nominal load:	1 set of profiles 1 Drive unit
Application conditions:	Only use with Easys 100 components
IP rating:	IP 20
Protection class:	III

Set of profiles

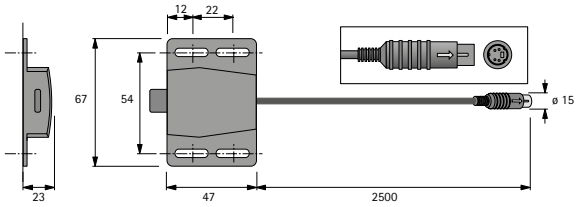
Object:	Set of Easys 100 profiles
Nominal load:	6 drive units with different addresses (1 - 6)
Application conditions:	Only use with Easys 100 components
IP rating:	IP 20
Protection class:	III

Sensor for tall fronts



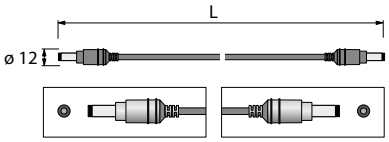
Object:	Easys 100 sensor for tall fronts
Operating voltage:	5 V DC
Application conditions:	Only use with Easys 100 components
IP rating:	IP 20
Protection class:	III

Button for collision guard



Object:	Easys 100 collision guard button
Operating voltage:	24 V DC
Application conditions:	Only use with Easys 100 components
IP rating:	IP 20
Protection class:	III

Distributor extension

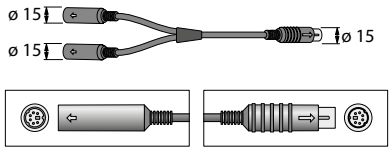


Object:	Easys 100 distributor extension cable, 1500 mm / 2500 mm
Application conditions:	Only use with Easys 100 components
IP rating:	IP 20
Protection class:	III

Extension lead

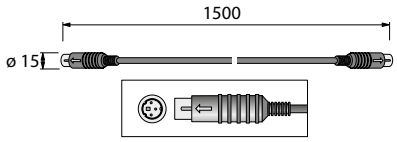
Object:	Easys 100 extension connecting cable
Length	2000 mm
Application conditions:	Only use with Easys 100 components
IP rating:	IP 20
Protection class:	III

Y cable



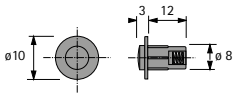
Object:	Easys 100 Y cable for sensor
Application conditions:	Only use with Easys 100 components
IP rating:	IP 20
Protection class:	III

Cable for corner solution



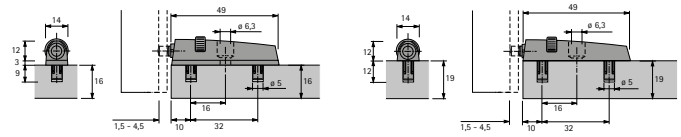
Object:	Easys 100 cable for corner solution
Application conditions:	Only use with Easys 100 components
IP rating:	IP 20
Protection class:	III

Buffer for drilling into the front panel



Object:	Buffer for drilling into the front panel

Buffer for fitting into cabinet body side



Object:	Buffer for fitting into cabinet body side

11.2 Ambient conditions

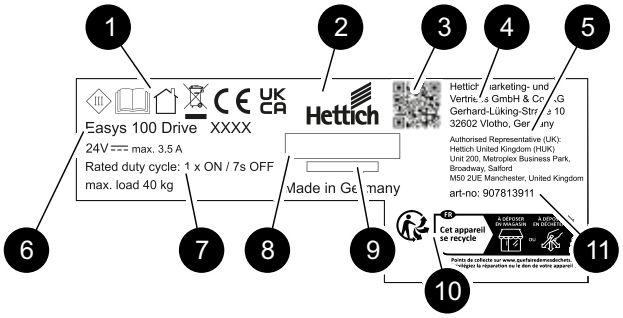
Ambient conditions:	Temperatures range from 5 to 40 °C, 10 - 80 % rel. humidity, non condensing

11.3 Rating plate

The rating plates are described on the basis of the rating plates for distributors and drive units by way of example. Appearance, size, number of symbols and technical specifications on the rating plates of other components may differ from the rating plates shown here. However, basic structure remains the same.

In addition to the information in this section, refer to the explanation of the safety symbols used (> *„2.10 Safety markings“*)..

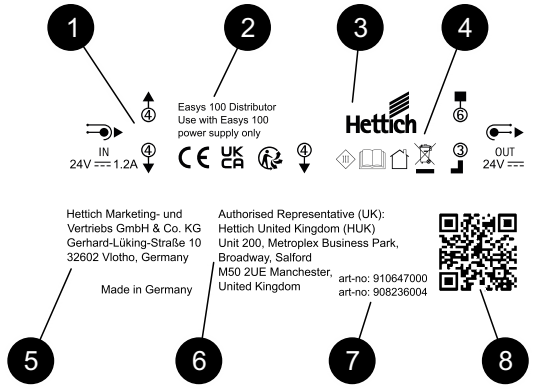
Drive unit rating plate



1. Safety marking (> *„2.10 Safety markings“*)
2. Hettich logo
3. QR code product page
4. Manufacturer's address
5. Approved UKCA agency
6. Product description
7. Technical specifications
8. Model number
9. Part number
10. Disposal labelling
11. Article numbe

11. Technical Specifications

Distributor rating plate



1. Connection designation and technical specifications
2. Product designation with specification of application conditions in accordance with intended use
3. Hettich logo
4. Safety and disposal marking (> *„2.10 Safety markings“*)
5. Manufacturer's address
6. Approved UKCA agency
7. Article number
8. QR code product page

11.4 Information on Declaration of Conformity and Ecodesign Regulation (EU) 2023/826

The Easys system's drive unit (Easys Drive) is classified as completed machinery within the meaning of Machinery Directive 2006/42/EC. The applicable Declaration of Conformity is enclosed with this article. If needed, the Declarations of Conformity for the other system components may be requested from Hettich.

Further information on compliance with the Ecodesign Regulation (EU) 2023/826 can be found at the following link:

https://www.hettich.com/short/b9x6f4