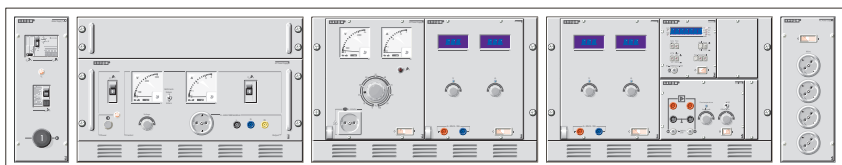
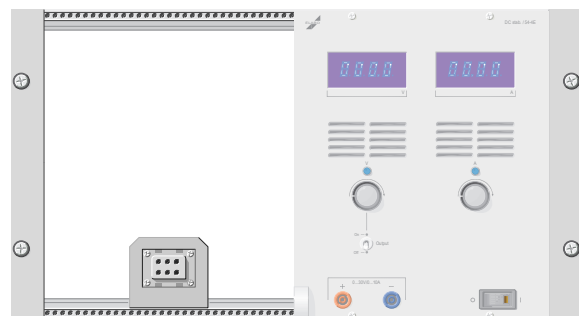
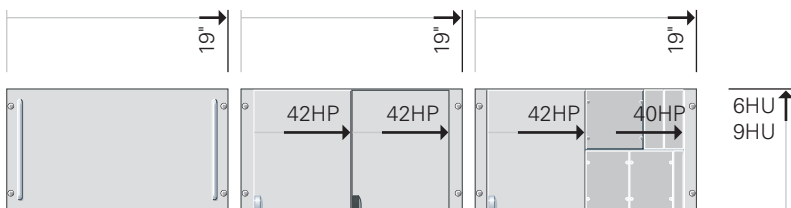
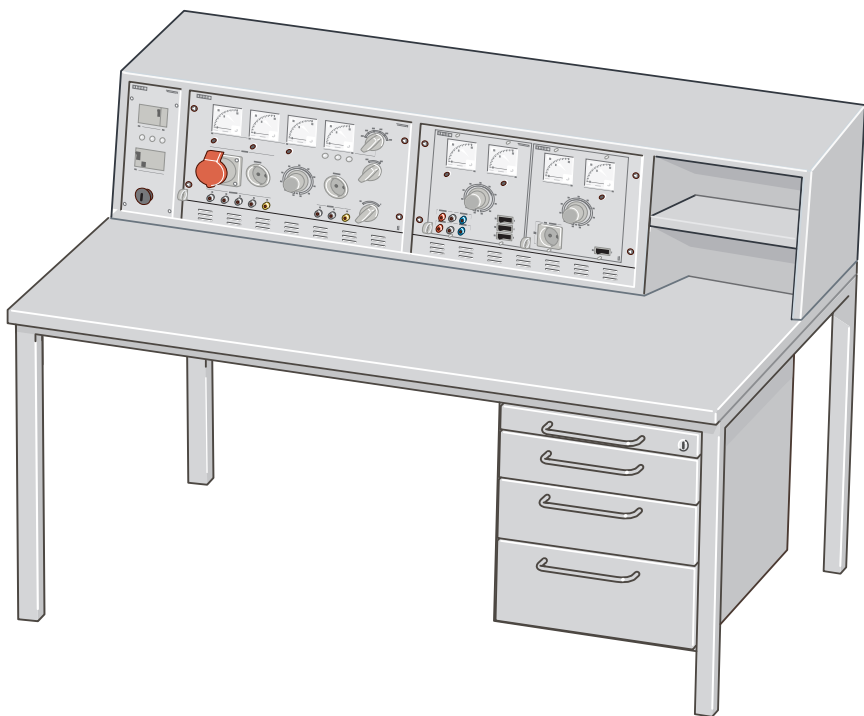


# System 19"

This range of slide-in units, manufactured to DIN 41494, is available in 6HU and 9HU (1HU = 1 rack height unit = 44.45 mm). Standardisation means that System 19" components can be combined with both other Elabo and third party systems. The optional rack mount also allows the 3HU cassette range to be used with the 19" units.

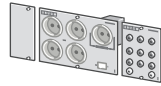
Can be combined with:  
System 3HU  
System 6HU

|                                     |      |
|-------------------------------------|------|
| Dimensions                          | E103 |
| Mains supply, AC supply             | E104 |
| DC stabilizer                       | E106 |
| Rack mount                          | E108 |
| Blank panel, slide-in module, field | E110 |

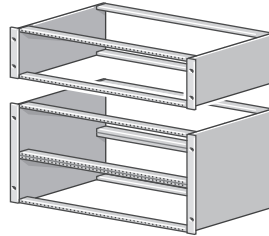


The 19" bench racks can be equipped with slide-in panels, slide-in units and DIN 41494 compatible rack mounts. Standardised third-party units up to a depth of 360 mm may also be fitted. All modules are supplied ready for use.

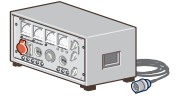
## Installation variants



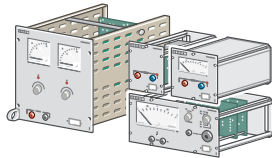
3HU-Euro-Cassettes  
one and two-row



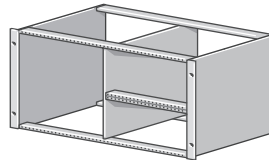
3HU- and 2x3HU-rack mounts  
System 19"



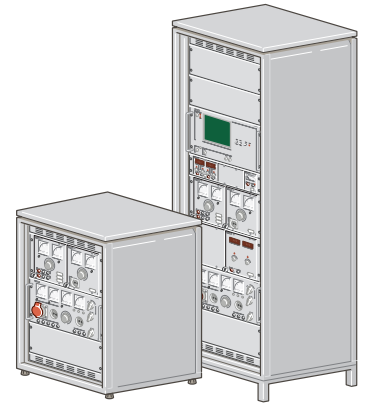
Housings System 19" (3HU to 16HU)



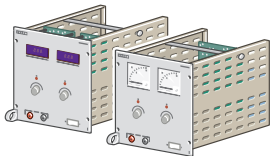
6HU-Euro-Cassette  
3HU-Euro-Cassettes two-row



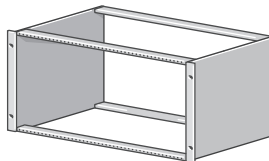
2x3HU/6HU-rack mounts  
System 19"



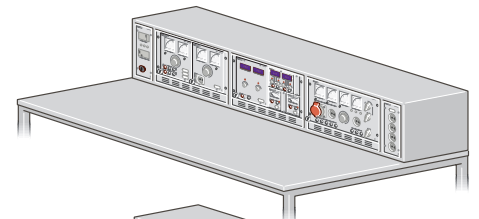
Cabinets System 19"



6HU-Euro-Cassettes



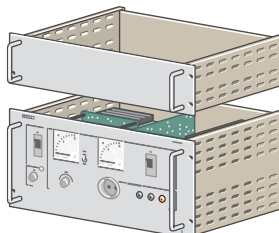
6HU-rack mounts System 19"



bench rack System 19"



Slide-in Panel 7HE  
(for unused bays in bench racks)



Plug-in modules System 19"

## Technical Information

### 19" system modules

All modules are 19" wide. By using rack mounts 3HU and 6HU eurocassettes can also be fitted.

Measurement units (according to DIN 41494)

Standard width = 19" = 483mm  
1 rack height unit = 1 HU = 44.45mm.  
1 horizontal pitch unit = HP = 5.08mm

For unused bays in the 19" bench rack:  
1 width unit = 1 WU = 113 mm

### Front panels:

All front panels are manufactured from 3 mm hard aluminium, powder coated on both sides in light grey (similar to RAL 7035). The lettering is applied with 2-component screen printing ink and is resistant to rubbing.






Slide-in panels take simple components that do not require a full slide-in unit.


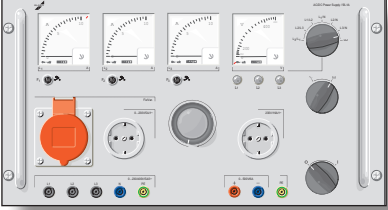

All slide-in units and 42 HP cassettes are also fitted with perforated steel sheet sidewalls, adjustable chassis plate and carrying handle.

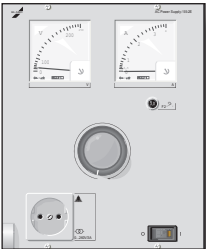
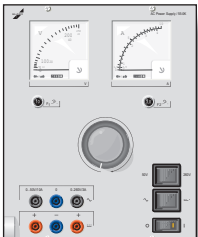
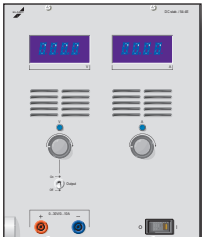
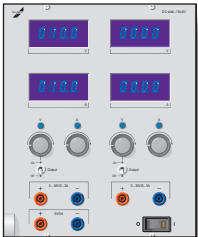
### Rack mounts:

The 19" rack mounts accept 3HU and/or 6HU cassettes. They are fitted with closed aluminium sidewalls that take the front and rear cross profiles. The front and rear profiles have M 2.5 tapped holes drilled in a grid at 5.08 mm intervals. The internal profiles are prepared with integrated fixing rails according to DIN 41612. Four versions are available: 3HU, 2 x 3HU, 6HU and mixed 2 x 3HU / 6HU.

Elabo mains panels are used to turn the central power supply on and off and provide protection for bench racks. They may be mounted on the left or right depending upon the bench rack. Unless otherwise stipulated however, mains panels will be fitted on the left side. All mains panels and slide-in panels are wired at the factory and ready for operation.

|   |   | Technical data   | Order no.      |
|---|---|--|----------------|
| Mains supply panel<br>1 ph AC<br>7HU / 1 WU |    | Mains supply panel 1 ph AC<br>1 keyswitch<br>1 one phase earth leakage circuit breaker 25 A / 30 mA<br>1 motor protection circuit breaker<br>1 undervoltage trip<br>1 phase indicator lamp                             | 52-0B          |
| Mains supply panel<br>3 ph AC<br>7HU / 1 WU |   | Mains supply panel 3 ph AC<br>1 keyswitch<br>1 three phase earth leakage circuit breaker 25 A / 30 mA<br>1 under voltage trip<br>1 motor protection circuit breaker<br>3 phase indicator lamp                          |                |
|   |   | Residual current protective device<br>Type A, for AC fault current and pulsating DC fault current<br>Type B, AC/DC sensitive, also for smooth DC fault current   | 52-0A<br>52-0C |
| Mains supply panel<br>3 ph AC<br>7HU / 1 WU |  | Mains supply panel 3 ph AC<br>1 three phase earth leakage circuit breaker 25 A / 30 mA<br>1 undervoltage trip<br>1 motor protection circuit breaker<br>3 phase indicator lamp<br>1 EMERGENCY OFF button (not wired up) | 52-0D          |
| AC supply, 1 ~<br>7HU / 1 WU                |  | Fixed panel with<br>4 earth safety sockets<br>1 illuminated rocker switch  | 52-1J          |
| AC supply 1 ~, 3~<br>7HU / 1 WU             |  | Fixed panel with<br>2 earth safety sockets<br>1 CEE- socket outlet 5pole, 400 V / 16 A<br>5 safety lab terminals   | 52-1L          |

|  | Technical data  | Order no.    |
|--|---|--------------|
| <p>AC supply 1 ~<br/>7HU / 1 WU</p>   | <p>Fixed panel with</p> <ul style="list-style-type: none"> <li>2 earth safety sockets</li> <li>1 EMERGENCY OFF button (not wired)</li> <li>1 illuminated rocker switch</li> </ul>   | <p>52-1P</p> |
| <p>3 ~ AC supply<br/>6HU / 19"</p>    | <p>Plug-in module with adjustable 3- phase AC supply</p> <p>Output: 3/ N/ PE ~ 50 Hz/ 0...400 V, switchable to:<br/>Fixed output: 3/ N/ PE ~ 50 Hz/ 0...400 V</p> <p>Rating: 0...8 A, transient 10 A over the whole range</p> <ul style="list-style-type: none"> <li>1 voltmeter 0...400 V, can be switched to phase / phase or phase/ neutral.</li> <li>3 ammeters 0...10 A</li> <li>1 switch over: "Mains", "Trafo"</li> </ul> <p>Tapping off 3 ~ AC</p> <ul style="list-style-type: none"> <li>1 CEE- socket outlet 16 A, in parallel with</li> <li>5 safety lab terminals L1, L2, L3, N, PE</li> </ul> <p>Tapping off 1 ~ AC:</p> <ul style="list-style-type: none"> <li>1 earth safety socket adjustable AC 0...230 V or fixed AC 230 V, in parallel with 3 safety lab terminal</li> </ul> <p>Mains supply:</p> <ul style="list-style-type: none"> <li>1 earth safety socket</li> <li>3 indicator lamps</li> <li>3 thermal- magnetic circuit breakers</li> <li>1 cam switch</li> </ul> | <p>56-0B</p> |
| <p>3 ~ AC supply<br/>6HU / 19"</p>  | <p>Plug-in module with adjustable 3- phase AC supply:</p> <p>Output: 3/ N/ PE ~ 50 Hz/ 0...400 V, rating 0...5 A over the whole range, switchable to DC output: 0...500 V, residual ripple approx. 5%, rating 0...6 A over the whole range</p> <ul style="list-style-type: none"> <li>1 voltmeter 0...500 V, can be switched to phase / phase or phase / neutral or to DC</li> <li>3 ammeters 0...6 A AC/DC</li> <li>1 switch over: "AC", "DC"</li> </ul> <p>Tapping off 3ph AC:</p> <ul style="list-style-type: none"> <li>1 CEE socket outlet, 5pole 400 V / 16 A</li> <li>5 safety lab terminals L1, L2, L3, N, PE</li> <li>1 earth safety socket</li> </ul> <p>Tapping off DC:</p> <ul style="list-style-type: none"> <li>3 safety lab terminals</li> </ul> <p>Mains supply:</p> <ul style="list-style-type: none"> <li>1 earth safety socket</li> <li>3 indicator lamps</li> <li>3 thermic- magnetic circuit breakers</li> <li>1 cam switch</li> </ul>                                 | <p>56-1A</p> |

|                                    |   | Technical data   | Order no.                 |
|------------------------------------|---|--|---------------------------|
| AC supply<br>6 HU / 42 HP          |    | <p>Plug-in unit for the supply with floating AC 0...260 V AC / 3 A.</p> <p>Rating: 0...3 A, transient 4 A over the whole range</p> <p>Output: Floating via transformer with separate windings</p> <ul style="list-style-type: none"> <li>1 analogue voltmeter, 1 analogue ammeter</li> <li>1 socket outlet without earth contact</li> <li>1 illuminated rocker switch</li> <li>1 thermic- magnetic circuit breaker</li> </ul>  |                           |
|                                    |   | <p>Display:</p> <p>analogue 0...300 V / 0...4 A</p> <p>digital 1 V bzw. 10 mA</p>  | <p>55-2E</p> <p>55-3E</p> |
| AC/DC supply<br>6 HU / 42 HP       |    | <p>Plug-in unit for the stepless supply with 0...50 V AC / 10 A or 0...260 V AC / 3 A, switchable to 0...50 V DC / 10 A or 0...260 V DC / 3 A (residual ripple 48%)</p> <ul style="list-style-type: none"> <li>1 analogue voltmeter:</li> <li>1. range: 0...300 V ; 2. range: 0...50 V</li> <li>1 analogue ammeter:</li> <li>1. range: 0...4 A; 2. range: 0...10 A</li> <li>6 safety lab terminals</li> <li>1 switch over AC/ DC, 1 switch over 50 / 260 V</li> <li>2 thermic- magnetic circuit breakers</li> <li>1 illuminated rocker switch</li> </ul> | 52-0K                     |
| DC stabilizer<br>6 HU / 42 HP      |  | <p>Plug-in module for the supply of adjustable, stabilized DC 0...30 V / 0...10 A (individually adjustable)</p> <ul style="list-style-type: none"> <li>1 3-digit digital voltmeter</li> <li>1 3-digit digital ammeter</li> <li>2 mode indicators for "current regulated" and "voltage regulated"</li> <li>2 10- turn potentiometers</li> <li>2 safety lab terminals for adjustable output voltage</li> <li>1 illuminated rocker switch</li> </ul>  | 54-4E                     |
| Dual DC stabilizer<br>6 HU / 42 HP |  | <p>Plug-in module for the supply of adjustable; stabilized DC 2 x 0...30 V / 2 x 0...3 A and fixed DC 5 V / 3 A</p> <ul style="list-style-type: none"> <li>2 digital voltmeters</li> <li>2 digital ammeters</li> <li>2 mode indicators for "current regulated" and "voltage regulated"</li> <li>4 10- turn potentiometers</li> <li>3 x 2 safety lab terminals for adjustable output voltage</li> <li>1 illuminated rocker switch</li> </ul>  | 54-4U                     |

|                                    | Technical data   | Order no. |
|------------------------------------|--|-----------|
| Dual DC stabilizer<br>6 HU / 42 HP | Plug-in module with dual DC stabilizer 2 x 0...30 V / 0...1,4 A with analogue displays<br>fixed DC + 5 V / 3 A<br>1 ten-turn potentiometer | 54-0Q     |
| Dual DC stabilizer<br>6 HU / 42 HP | Plug-in module with dual DC stabilizer 2 x 0...30 V / 0...3 A with analogue displays<br>fixed DC + 5 V / 3 A<br>1 ten-turn potentiometer   | 54-0U     |
| Dual DC stabilizer<br>6 HU / 42 HP | Plug-in module with dual DC stabilizer 2 x 0...30 V / 0...1,5 A with digital displays<br>fixed DC + 5 V / 3 A<br>1 ten-turn potentiometer  | 54-4Q     |

#### Technical data for variable output DC regulated power supplies:

Interference voltage at output: 1 mV  
 Recovery time: typically 50 ms, maximum 100 ms  
 Temperature coefficient: 0.01 %/ °C  
 Load regulation: 0.015%  
 Ambient temperature: 0...45 °C

Thanks to the 19" system rack, alternatively 3HU and 6HU measuring and testing devices as well as power and voltage supply systems can also be integrated into a 19" system. For example, the DC stabilizer 45-2X.





#### Rack mounts for eurocassettes:

Rack mounts are adapters between bench racks and the various system slide-in units.

While using the rack mounts described here it is possible to combine modules from the System 3HU eurocassette range and corresponding plug-in units with System 6HU and 19" bench racks in two rows.

Rack mounts are composed of two side sections together with front and rear connecting profiles made of anodised aluminium.

A distribution feeder is fitted to the rear of the rack for wiring purposes. The wiring from this feeder clamp set to the female multipoint connector with spring contacts on the cassettes is included in the price of the cassettes.

The rack mounts comply with DIN 41494 and IEC 279. They are divided into height and width according to modular sizes.

One unit of height (HU) equates to 44.45 mm. For width, horizontal pitch is used (HP). One HP equates to 5.08 mm which means that a 19" rack is 84 HP wide.

For the Elabo System 6HU two special rack mount sizes are available: 2 and 4 WU. Here, space is provided for two rows, each of 3HU, one above another.

The rack mounts are fixed using four screws on the vertical intermediate rod of the System 6HU bench racks. For fastening the slide-in units in place rails are fitted at the front of the rack. These have M 2.5 tapped holes drilled in a grid at 5.08 mm intervals.

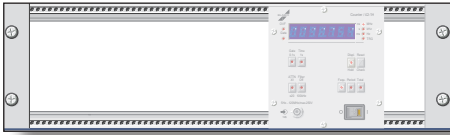
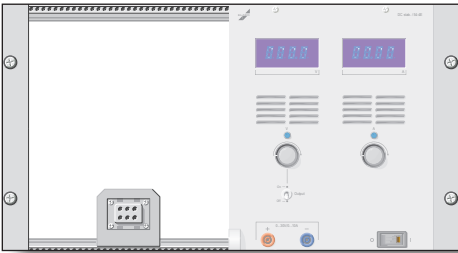

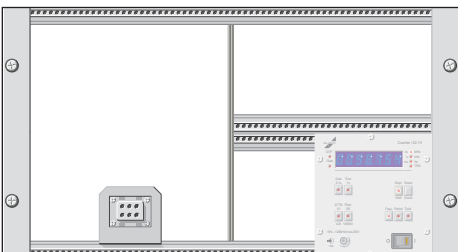
The rear Z-shaped rails are arranged such that the 196 mm deep slide-in units from the eurocassette system can be fitted.

The rack mounts are supplied without female multipoint connectors with spring contacts or guide rails. These components can be ordered separately in the required version.


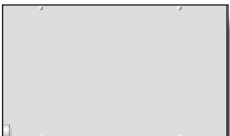

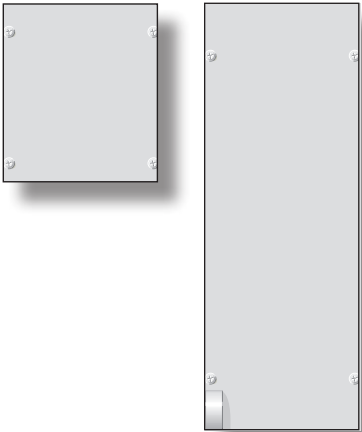
The mains supply is connected via compatible plug-in connectors in the same way as for slide-in units, each compatible with System 6HU. The high current contacts are in accordance with DIN 41612.

Female DIN multipoint connectors can be fitted into removable cassette carriers in a grid pattern of 5.08 mm; this allows a range of wiring methods to be used.


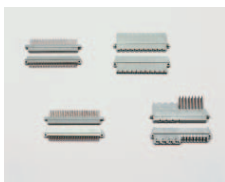
For extending systems using 3HU and 6HU cassettes both wired and unwired rack mounts are available. For all rack mounts W = 19"; D = 360 mm.

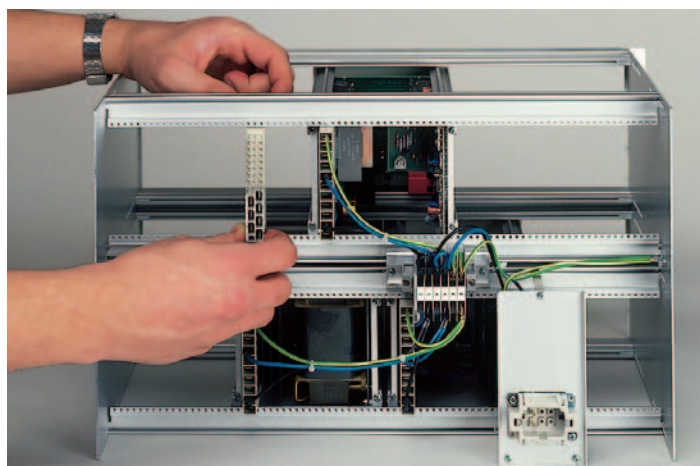
|            |   | Technical data   | Order no.      |
|------------|---|--|----------------|
| Rack mount |    | Rack mount 19", 3HU to accept slide-in panels or Euro-cassettes 3HU/84 HP                                  |                |
|            |   | not wired up<br>wired up   | 51-4A<br>51-5A |
| Rack mount |    | Rack mount 19", 6HU to accept slide-in panels or Euro-cassettes 6HU/42 HP                                  |                |
|            |   | not wired up<br>wired up   | 51-4B<br>51-5B |
| Rack mount |  | Rack mount 19", 6HU, to accept slide-in panels or Euro-cassettes 2 x 3HU/84 HP                             |                |
|            |   | not wired up<br>wired up   | 51-4C<br>51-5C |
| Rack mount |  | Rack mount 19", 6HU, wired up, to accept one Euro-cassette 6HU/42 HP and two Euro-cassettes 2 x 3 HU/40 HP | 51-5F          |

Blank spaces in bench racks can be filled using blank panels or blank slide-in units. For all slide-in units W = 19"; D = 360 mm.

|                      |   | Technical data   | Order no.  |
|----------------------|---|--|--|
| Blank panel          |    | 1HU with vents<br>1HU<br>2HU<br>3HU<br>4HU<br>6HU  | 51-1L<br>51-1A<br>51-1B<br>51-1C<br>51-1E<br>51-1D |
| Blank plug-in module |   | 3HU<br>6HU   | 51-2C<br>51-2D                                     |
| Blank panel          |    | 84 HP, 6HU (262 x 426,7 mm)  | 51-0F  |
| Blank panel          |  | 42 HP, 6HU (213,2 x 266 mm)  | 51-0E  |
| Blank cassette       |   | 42 HP, 6HU (213,2 x 266 mm)  | 51-2E  |
| Blank field          |  | For covering unused bays on the left and right sides of the 19" bench racks.<br><br>3HU / Width 113 mm<br>7HU / Width 113 mm | 51-0A<br>51-0B                                     |

## Accessories for cassettes and rack mounts

|                  | Technical data  | Order no. |
|------------------|---|-----------|
| Distance pins    | When subdrawer with a depth of 160 mm are used, the socket connector can be fitted into the subrack using the distance pins.  | 39-1A     |
| Guides           | One pair of guides for subdrawer depth of 160 mm.   | 39-1C     |
| Guides           |  <p>Guides (two pieces) made of aluminium with plastic headpiece. They can be snapped into the subrack in 5.08 mm pitch. One pair of guides for subdrawer depth of 196 mm.</p> | 39-1B     |
| Socket connector | Socket connector with 11 high- current contacts.  | 39-1D     |
| Plug connector   | Plug connector with leading PE contact, matches 39-1D   | 39-1E     |
| Socket connector | Socket connector with 7 high- current contacts and 24 wire- wrap posts  | 39-1F     |
| Plug connector   |  <p>Plug connector with angled soldering pins, matches 39-1F</p>   | 39-1G     |
| Socket connector | Socket connector with 64 mini- wire- wrap posts, rows a and c equipped (DIN 41612, type of construction C)  | 39-1H     |
| Plug connector   | Plug connector with 64 angled soldering pins, matches 39-1H (DIN 41612, type of construction C)   | 39-1J     |
| Socket connector | Socket connector with 96 mini- wire- wrap posts, rows a and c (DIN 41612, type of construction C)   | 39-1K     |
| Plug connector   | Plug connector with 96 angled soldering pins, matches 39-1K (DIN 41612, type of construction C)   | 39-1L     |



Ordering accessories for rack mounts is only necessary if spare parts are required or if the rack is to be extended. All Elabo slide-in panels, slide-in units and cassettes are always supplied fully equipped and ready for use. Includes cable set, guide rails and mains connectors (male/female multi-point connectors).

|               |               |               |               |               |               |               |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>30..</b>   | 34-4K E 71    | 35-6HZ01E 91  | 40-1D E 41    | 44-1D E 14    | 45-5U E 19    | 51-5B E 106   |
| 30-5AZ01E 98  | 34-4M E 46    | 35-6HZ02E 91  | 40-1E E 41    | 44-1E E 15    | 45-5UZ801E 19 | 51-5C E 106   |
| 30-5AZ03E 98  | 34-4M E 72    | 35-6HZ03E 91  | 40-1F E 41    | 44-1F E 15    | 45-5UZ801E 45 | 51-5F E 106   |
| 30-5BZ01E 98  | 34-4N E 72    | 35-6HZ04E 91  | 40-1G E 41    | 44-1G E 15    | 45-5W E 19    | 52-0A E 101   |
| 30-5BZ03E 98  | 34-4Q E 72    | 35-6HZ05E 91  | 40-1H E 41    | 44-1J E 11    | 45-5X E 19    | 52-0B E 101   |
| 30-6AZ01E 98  | 34-4S E 72    | 35-6JZ01E 92  | 40-1J E 41    | 44-1K E 12    | 46-1A E 37    | 52-0C E 101   |
| 30-6AZ03E 98  | 34-4U E 46    | 35-6JZ02E 92  | 40-1K E 41    | 44-1L E 12    | 46-1D E 34    | 52-0D E 101   |
| 30-6CZ01E 98  | 34-4U E 72    | 35-6JZ03E 92  | 40-1L E 41    | 44-1LZC00E 12 | 46-1F E 36    | 52-1J E 101   |
| 30-6CZ03E 98  | 34-5A E 73    | 35-6JZ04E 92  | 40-2A E 41    | 44-1LZD00 E   | 46-1G E 36    | 52-1L E 101   |
| 30-6L E 42    | 34-5B E 71    | 35-6JZ05E 92  | 40-2B E 41    | 12            | 46-1H E 37    | 52-1P E 102   |
| 30-6M E 42    | 34-5C E 45    | 35-6KZ01E 93  | 40-2C E 41    | 44-1LZF00E 12 | 46-1K E 37    | 54-0Q E 104   |
| 30-6N E 42    | 34-5E E 45    | 35-6KZ02E 93  | 40-2D E 41    | 44-1LZG00 E   | 46-1K E 49    | 54-0U E 104   |
| 30-6P E 42    | 34-5E E 71    | 35-6KZ03E 93  | 40-2E E 41    | 12            | 46-1M E 37    | 54-4E E 103   |
| 30-6R E 42    | 34-5K E 45    | 35-6LZ01E 93  | 40-2F E 41    | 44-1LZU00 E   | 46-7A E 17    | 54-4Q E 104   |
| 31-1A E 96    | 34-5K E 71    | 35-6LZ02E 93  | 40-3A E 41    | 12            | 46-7B E 17    | 54-4U E 103   |
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