

Asea Master. Keyboard.



832056

When ergonomics is the deciding factor.

ASEA
Electronics



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Easy to adapt. Easy to use.

The DSIH 70 fulfils practically every demand that can be made on a fully customer adapted keyboard. From an interface point of view, it is a freestanding unit—two V.24 interfaces with fully duplexing capability. It incorporates its own power supply, which allows the keyboard to be connected to any display generator designed for asynchronous communication.

The 138 key positions provide a large selection of function keys, with up to two shift functions.

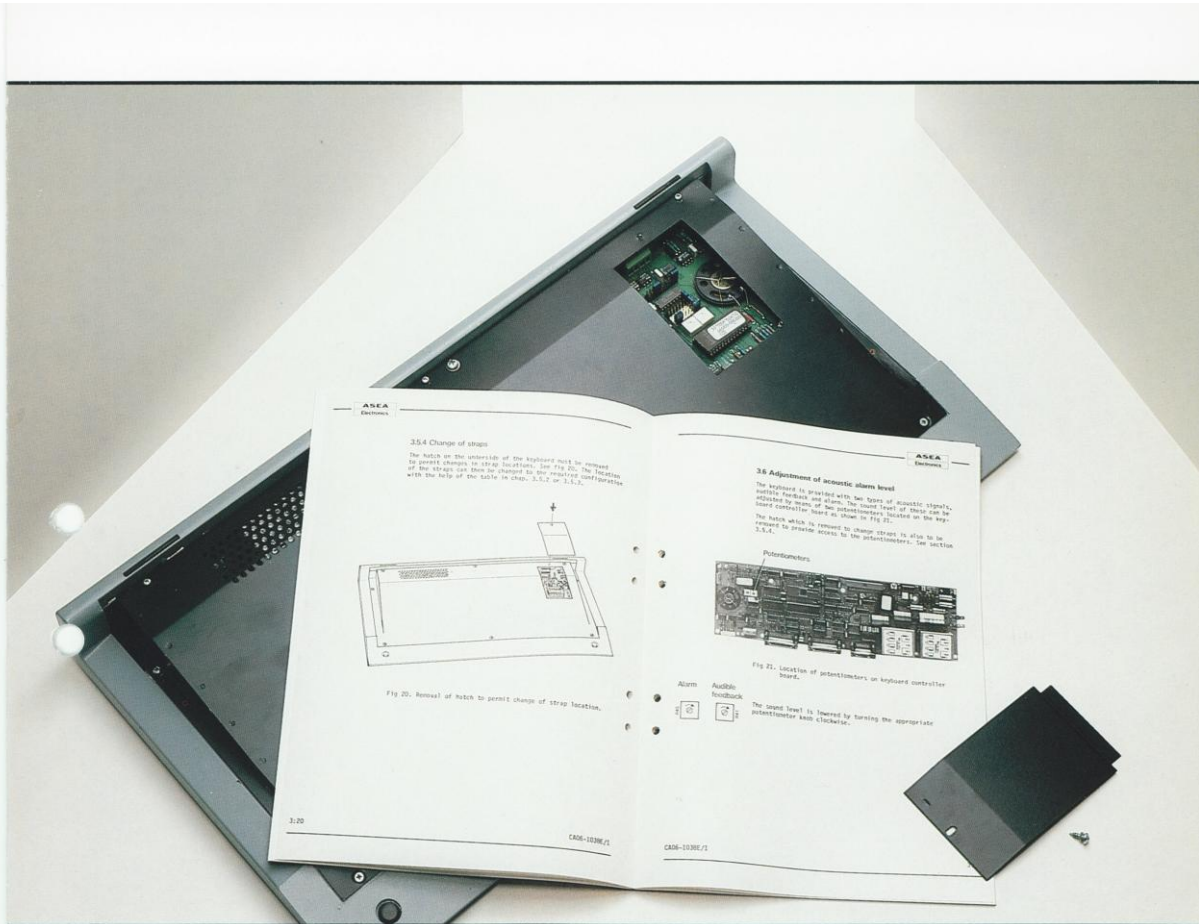
A serial connection for an extra keyboard or printer is standard.

We have provided for connection of an optional trackball for accurate and fast cursor movement.

A keyboard designed for easy operation is indispensable to the operator. The required keys should be easy to locate. The key depressing action should be distinct.

Light-emitting diode indicators should be incorporated to prevent errors. In certain cases, an acoustic alarm and audible feedback may be required. It should also be possible to lock the keyboard. All these features are included in Asea's DSIH 70.

A standard version of the DSIH 70 is also available. This unit is the display generation keyboard for the Tesselator 8000, Asea's unique display generator. The standard version has a fixed layout and fixed functions but the alpha-numeric section is available in various language versions.



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Stringent requirements standard

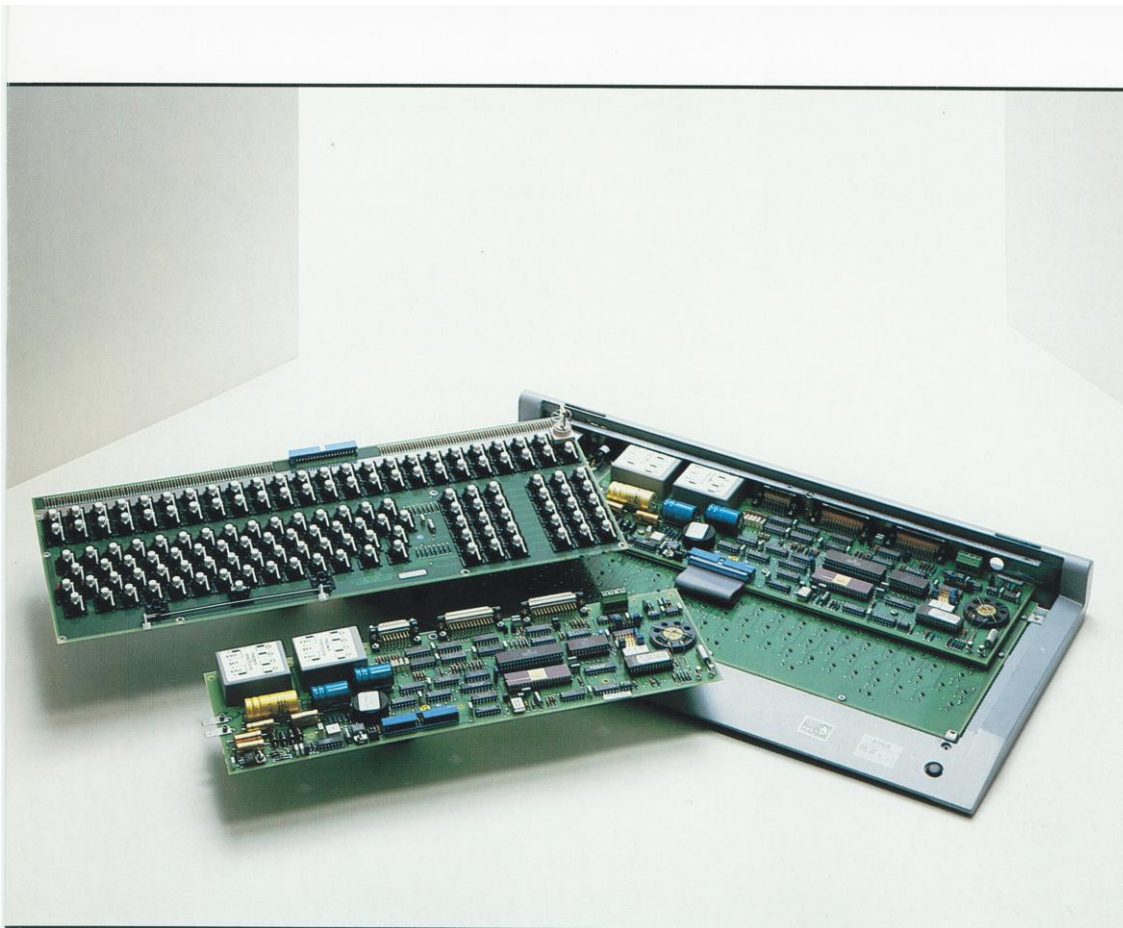
From purchased components to final assembly the DSIH 70 has undergone severe quality control requirements. Manufacturing and testing tasks are automated to minimize errors.

All components are selected to withstand industrial environments and the PC-boards have soldering masks on both sides. The result is a sturdy, dependable keyboard that will operate reliably year after year.

At Asea documentation is organized at the production stage – not after delivery. This means documentation is complete when the product is ready for shipment. As a customer you will appreciate the benefits: rapid installation and immediate knowledge of the product. Early and accurate documentation saves you money. The basic DSIH 70 manual contains:

- System description
- Installation
- Maintenance
- Trouble shooting

Supplementary manuals for symbol and display generation using the Tesselator 8000 are available.



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Technical Specification

ERGONOMIC DATA

30 mm above supporting surface (measured at the midpoint of the A-line)
 10° inclination
 Wrist support
 3 mm key movement
 Keyboard buttons with non-reflective surfaces.
 Adjustable sound level for audible feed-back and alarm signal.

PHYSICAL DATA

Width (max.): 540 mm
 Depth (max.): 287 mm
 Height (max.): 58 mm
 Weight (max.): 3 kg

INTERFACES

Channels 1 and 2 V.24/V.28 with the signals 102, 103, 104, 105 and 106
 Baud rate: 75, 150, 300, 600, 1200, 2400, 4800, 9600 baud (optional)
 Number of data bits: 7, 8 (optional)
 Number of stop bits: 1, 2 (optional)
 Parity: Even, odd, none (optional)
 Split speed: Fully optional
 Channel 4 Interface: Trackball
 Channel 5 Interface: KM-1 (Short haul modem)
 Baud rate, number of data and stop bits, parity and split speed as for channels 1 and 2.

POWER SUPPLY

Voltages: 110 VAC (+10%, -15%)
 220 VAC (+10%, -15%) (optional)
 Frequency: 50 - 60 Hz
 Power consumption: 10 W max.

ENVIRONMENTAL FACTORS

Temperature range: +10 - +40°C (operational)
 -10 - +60°C (storage)
 Humidity: 20 - 85% RH non condensing, wet bulb.
 Temperature 30°C (optional)
 10 to 85% RH (storage)

DEGREE OF PROTECTION

The keyboard is designed to satisfy the requirements of IEC 435 and SEMKO 110 (Swedish standard).

ELECTROMAGNETIC COMPATIBILITY

Interference generated: In accordance with the requirements of VDE 0871 class B.
 Electrostatic discharge: 15 kV discharge from 150 pF via 500 ohm.
 Mains transients: 1 kV transients with 5 ns rise time and 200 mJ energy content

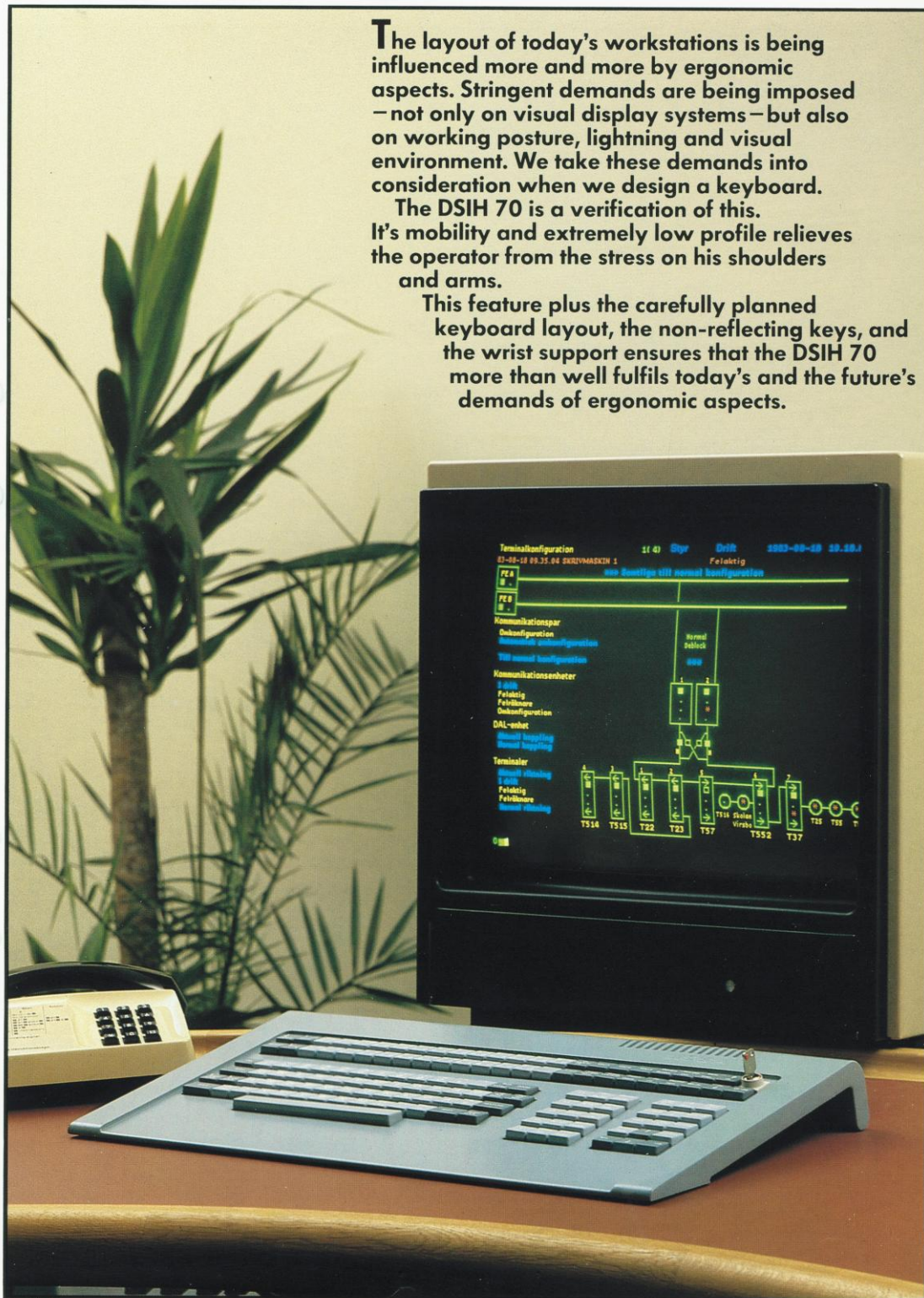
LANGUAGE VERSIONS

For alphanumeric symbols: American English
 British English
 Swedish/Finnish
 Danish/Norwegian

The layout of today's workstations is being influenced more and more by ergonomic aspects. Stringent demands are being imposed – not only on visual display systems – but also on working posture, lightning and visual environment. We take these demands into consideration when we design a keyboard.

The DSIH 70 is a verification of this. It's mobility and extremely low profile relieves the operator from the stress on his shoulders and arms.

This feature plus the carefully planned keyboard layout, the non-reflecting keys, and the wrist support ensures that the DSIH 70 more than well fulfils today's and the future's demands of ergonomic aspects.



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