



▪ **FIELD OF APPLICATION**

DÜRKOPP ADLER lockstitch machine series 271, 272, 273, 274, 275

With connections and/or outputs for:

Thread trimmer	(max. 3.0A)
Thread wiper	(max. 3.0A)
Thread tension release	(max. 3.0A)
Sewing foot lift	(max. 6.5A/3.0A)
Backtacking	(max. 6.5A/3.0A)
Needle cooling	(max. 3.0A)
Output A	(max. 0.5A)
Output B	(max. 0.5A)
Position 1	(max. 10mA)
Position 2	(max. 10mA)
Generator impulses	(max. 10mA)

The total power of the outputs is to be limited to 96VA!

Power supply 24V=, max. 0.5A for further additional devices.

▪ **CHARACTERISTICS**

The control has a digital touch panel for programming all parameters (functions, times, speeds, etc.). When a Variocontrol V820 control panel is connected, more functions are possible, e. g. 8 seam patterns with a total of 40 seams (order nos. of the V810/V820 control panels see Special Accessories).

The control is operated by means of the detachable external actuator. 12 controlled speed stages are available. Stage 1 (positioning speed) and stage 12 (maximum speed) can be set. The maximum speed of the set value can be reduced by stages. The basic setting of the maximum speed is not affected. Stages 2...11 (intermediate speeds) adapt automatically to the respective maximum speed.

▪ **THE FOLLOWING FUNCTIONS ARE AVAILABLE AND CAN BE ADAPTED TO THE MACHINE:**

- **SOFTSTART:** On / off; number of stitches and speed at the start of the seam can be selected (2 stitches / factory setting: 800 RPM).
- **BASIC POSITION:** Needle position at stop in the seam up/down.
- **BRAKING POWER AT MACHINE STANDSTILL:** Braking effect can be set.
- **SEWING FOOT LIFT:** At stop in the seam automatic / by pedal, after thread trimming automatic / by pedal, start delay from lifted sewing foot can be set.
- **START AND END BACKTACK:** Can be set separately, single / double / off, possibility of compensation between forward and backward section, length of each backtacking section and speed selectable.
- **START AND END ORNAMENTAL BACKTACK:** Stop time can be set.
- **THREAD TRIMMER:** On / off; signals for various manufacturers.
- **THREAD WIPER:** On / off.
- **STITCH COUNTING:** On / off.
- **REVERSION:** Reversing angle up to 360° and activation delay can be set.
- **DIRECTION OF ROTATION OF THE MACHINE:** Programmable ccw / cw.
- **SPEED RANGE:** 70 RPM up to 6000 RPM (depending on machine).
- **SPEED LIMITATION:** Can be varied during machine run and at intermediate stop.
- **OUTPUT A / OUTPUT B:** Function modules for switching the stitch length, fullness, roller, fabric endstop, edge trimmer, high lift for walking foot, etc.

▪ **SWITCHING FUNCTIONS WHEN USING A VARIOCONTROL V810/V820:**

V810

- Start backtack single / double / off
- End backtack single / double / off
- Automatic sewing foot lift at stop in the seam / after thread trimming.
- Basic position of the needle at stop in the seam up / down.
- 2 pushbuttons which can be set with different input functions by means of parameters.

V820

- Start backtack single / double / off
- End backtack single / double / off
- Automatic sewing foot lift at stop in the seam / after thread trimming.
- Basic position of the needle at stop in the seam up / down.
- Stitch counting seam forward / backward / off.
- Light barrier function uncovered-covered / covered-uncovered / off.
- Thread trimmer and thread wiper.
- Bobbin thread monitor.
- Function key programmable.
- Programming seams TEACH IN; a maximum of 8 patterns with a total of 40 seams is possible, feeding direction can be inverted.
- 2 pushbuttons which can be set with different input functions by means of parameters.

▪ **DIFFERENT INPUT FUNCTIONS ARE POSSIBLE:**

The following functions can be activated by using a pushbutton or switch:

- Needle up / down
- Machine run blockage
- Signal A
- Signal B
- External light barrier

- Intermediate backtack
- Stitch regulator suppression / recall
- Speed limitation DB2000
- Speed limitation DB3000

▪ **UNIT CONSISTING OF:**

- 1 direct current motor type DC1500 (see below)
- 1 electronic control type N...DA220C5300 with power pack type N201
- 1 actuator type EB301A

- 1 set of standard accessories B158 consisting of:
 - 1 plastic bag B156
 - 1 documentation
- 1 set of accessories Z54 consisting of:
 - 1 pitman rod 400...700mm long
 - 1 bracket for fastening EB3..

▪ **SPECIAL ACCESSORIES:**

Special Accessories, against Extra Charge	Part No.
Control panel Variocontrol V810	5970153
Control panel Variocontrol V820	5970154
Reflection light barrier module LSM002	6100031
Solenoid type EM1...(for e. g. sewing foot lift, backtacking)	available versions see specification "solenoids"
Potential equalization cord 700 mm long, LIY 2.5 mm ² , grey with forked cable brackets on both sides	1100313
Knee switch type KN3 (pushbutton) with cord of approx. 950 mm length without plug for activating the above functions	5870013
Sewing light transformer	please indicate line voltage and sewing light voltage (6.3V or 12V)
9-pole SubminD male connector	0504135
9-pole SubminD female connector	0504136
Semimonocoque casing for 9-pole SubminD	0101523
37-pole SubminD connector with semimonocoque casing	1112900

▪ **AVAILABLE MOTOR**

Example For Ordering dc1500 Positioning Drives

* Besides the type designation, the control nameplate indicates the respective state of development (e. g. DA220C....Y1) and the program number (e. g. DA220C5300..). The state of development is only required in the case of technical inquiries or repairs.

Available Motor							
Type	Rated Torque Nm	Maximum Torque Nm	Nominal speed RPM	Power W	Weight kg	Protection	Notes
DC1500	0.64	3	6000	400	2.125	IP 40	



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