

Solder Wire Feeder SWF100



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The solder wire feeder SWF100 was developed especially for fast and precise soldering. It has a feeding accuracy of 10µm and a response time of under 1ms. The feeding head is gearless and has a very long lifetime. As special feature, even the forward feeding acceleration is programmable. This leads to an improved start behaviour of the soldering process by a slowdown of the feeding at the beginning. At first, a solder bath is formed in which the wire is pushed then with constant speed.



Application:

Soldering with soft solder and other wires
Especially for laser soldering and short soldering times
Wire diameter 0.3mm – 1.0mm

Features:

24V (1.2A) power supply
Zero slip feeding by encoder
Integrated encoder detects also solder wire hold-up and the end of the solder wire
Unit programmable with Solder Wire Manager
Settings permant stored in the controller
15 drive stes, digitally selectable
Ready, Busy, Feeder Hold-Up as dig output signal
Feeding speed also programmable over analog in



Solder Wire Manager:

Forward length, forward speed, break time, reverse length, reverse speed, acceleration programmable.
15 drive sets programmable
Diagnostic window with display of status
Feeding and holding torque programmable
Continous feeding programmable
Program interface
USB
RS485

| Drive Set No. | Contin. | Forward Length [mm] | Forward Speed [mm/s] | Break Time [ms] | Reverse Length [mm] | Reverse Speed [mm/s] | Acceleration [mm/s ²] |
|---------------|--------------------------|---------------------|----------------------|-----------------|---------------------|----------------------|-----------------------------------|
| 1 | <input type="checkbox"/> | 1,0 | 1 | 100 | 1,0 | 2 | 10 |
| 2 | <input type="checkbox"/> | 2,0 | 2 | 200 | 2,0 | 2 | 20 |
| 3 | <input type="checkbox"/> | 3,0 | 3 | 300 | 3,0 | 3 | 30 |
| 4 | <input type="checkbox"/> | 4,0 | 4 | 400 | 4,0 | 4 | 40 |
| 5 | <input type="checkbox"/> | 5,0 | 5 | 500 | 5,0 | 5 | 50 |
| 6 | <input type="checkbox"/> | 6,0 | 6 | 600 | 6,0 | 6 | 60 |
| 7 | <input type="checkbox"/> | 7,0 | 7 | 700 | 7,0 | 7 | 70 |
| 8 | <input type="checkbox"/> | 8,0 | 8 | 800 | 8,0 | 8 | 80 |
| 9 | <input type="checkbox"/> | 9,0 | 9 | 900 | 9,0 | 9 | 90 |
| 10 | <input type="checkbox"/> | 10,0 | 10 | 1000 | 10,0 | 10 | 100 |
| 11 | <input type="checkbox"/> | 11,0 | 11 | 1100 | 11,0 | 11 | 110 |
| 12 | <input type="checkbox"/> | 12,0 | 12 | 1200 | 12,0 | 12 | 120 |
| 13 | <input type="checkbox"/> | 13,0 | 13 | 1300 | 13,0 | 13 | 130 |
| 14 | <input type="checkbox"/> | 14,0 | 14 | 1400 | 14,0 | 14 | 140 |
| 15 | <input type="checkbox"/> | 15,0 | 15 | 1500 | 15,0 | 15 | 150 |

Accel. Type: sine