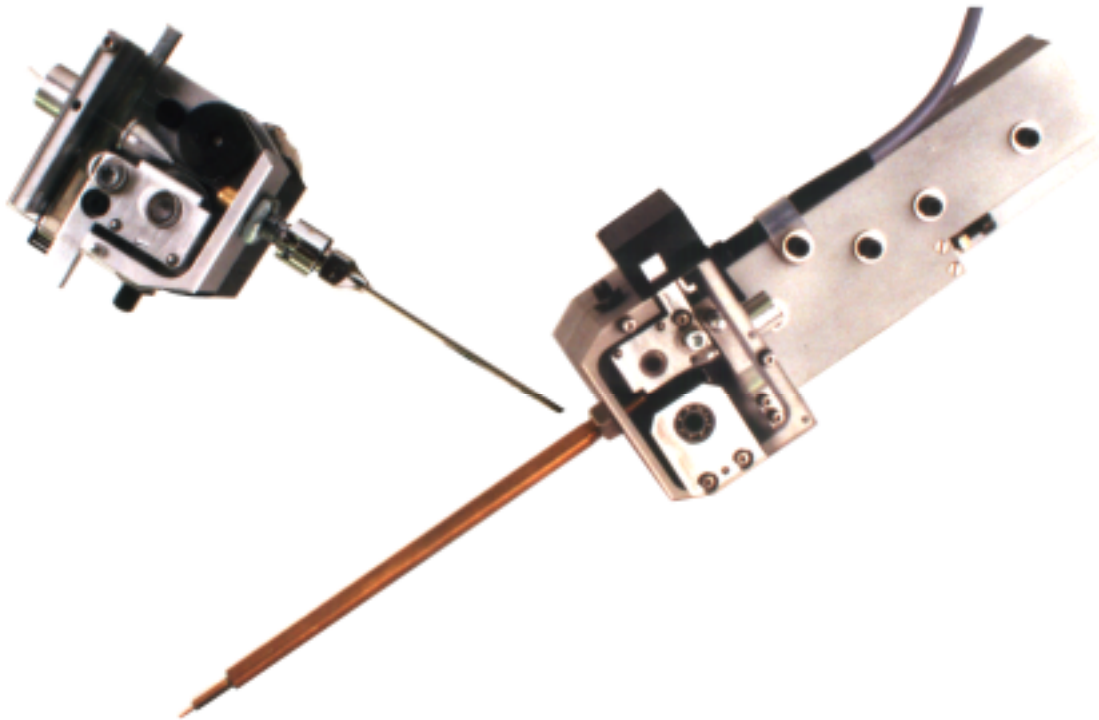


*solder feeder*

# **Mosquito A25/A50**



- *precise solder wire feed*
- *wire diameters from 0.5 to 1.5 mm*
- *high torque by 12V DC-motor with gearing*
- *electronic encoder for wire feed control*
- *optional time or mass control*
- *easy integration in automated applications*

## Technical description of solder feeder Mosquito

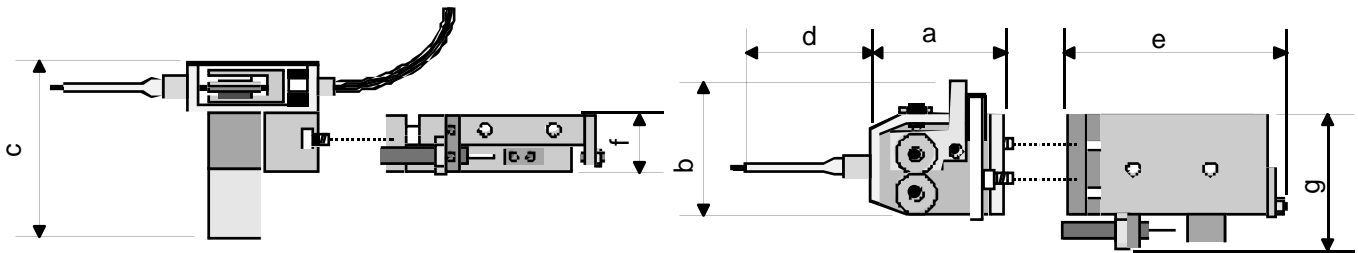
The new solder feeders of the series Mosquito are modular power units. The weight of Mosquito A25 is only 120 g. It can be integrated into both stationary and moving production systems.

Through its very small dimensions, it achieves a feeding power of 25 N and is suitable for soldering systems. The larger version, Mosquito A50, has power of 50N.

This power is made possible through a 12V DC motor featuring planetary gear. The solder wire speed is adjustable from 2 to 32 mm per second. The solder wire feed system handles ordinary electronic grade solder wire within a rosin flux core reliably and dependably.

Great precision is achieved through the use of a miniaturised Encoder, which detects feeding without slide.

The impulses of the encoder are evaluated by the control unit. An internal control loop provides for exact feeding speed and compensates for disturbances. The mass of solder can be adjusted by time or by length. The control unit allows the computing of a program. The parameters are adjusted by a menu-driven display. In an alternative version, the parameters can be set by RS232 interface.



## Technical Data

Solder Feeder	Mosquito A25	Mosquito A50
dimensions (a x b x c):	40 x 50 x 85 mm	42 x 54 x 105 mm
length positioning tube (d):	20-70 mm	10-120 mm
dimensions linear axis (exfxg)	24x50x54mm	24x50x56mm
weight feeder:	130 g	200g
power motor	1,7 W	4,0 W
ration of planetary gear:	1:166*	1:190*
diameter of solder wire:	0,5-1,5 mm *	0,5-1,5 mm *
feed:	0-24 mm/s *	0-30mm/s *
<b>control unit</b>		
dimensions (BxHxT):	190 x 115 x 77 mm	
current connection:	24V, 7W	
interfaces:	24V IO / RS232 (opt.)	
adjustable parameters:	speed forward and back mass of solder forward and back	* others on demand

### Options

- Pneumatic pressure cylinder with built-in relief
- Mechanical compensation unit
- Pneumatic linear module
- Universal solder carriage
- RS232-interface
- Control unit as a 19" cassette

## Individual configuration by modular concept

The modular construction of the solder wire feeder Mosquito permits the device to be equipped according to the individual requirements of particular applications. For instance, in situations for which the motorised return of the solder wire is insufficient, the pneumatic linear movement offers a stroke of up to 20 mm.

The pneumatic pressure unit allows for especially sensitive pressure adjustment and for a pressure relief during production pauses.

The mechanical compensation unit makes it possible to guide the solder wire with a pre-set force onto the solder joint. In this case, the entire solder feeder unit returns to its pre application position.

different housings for control unit

