

SMAC

GRP17 Gripper



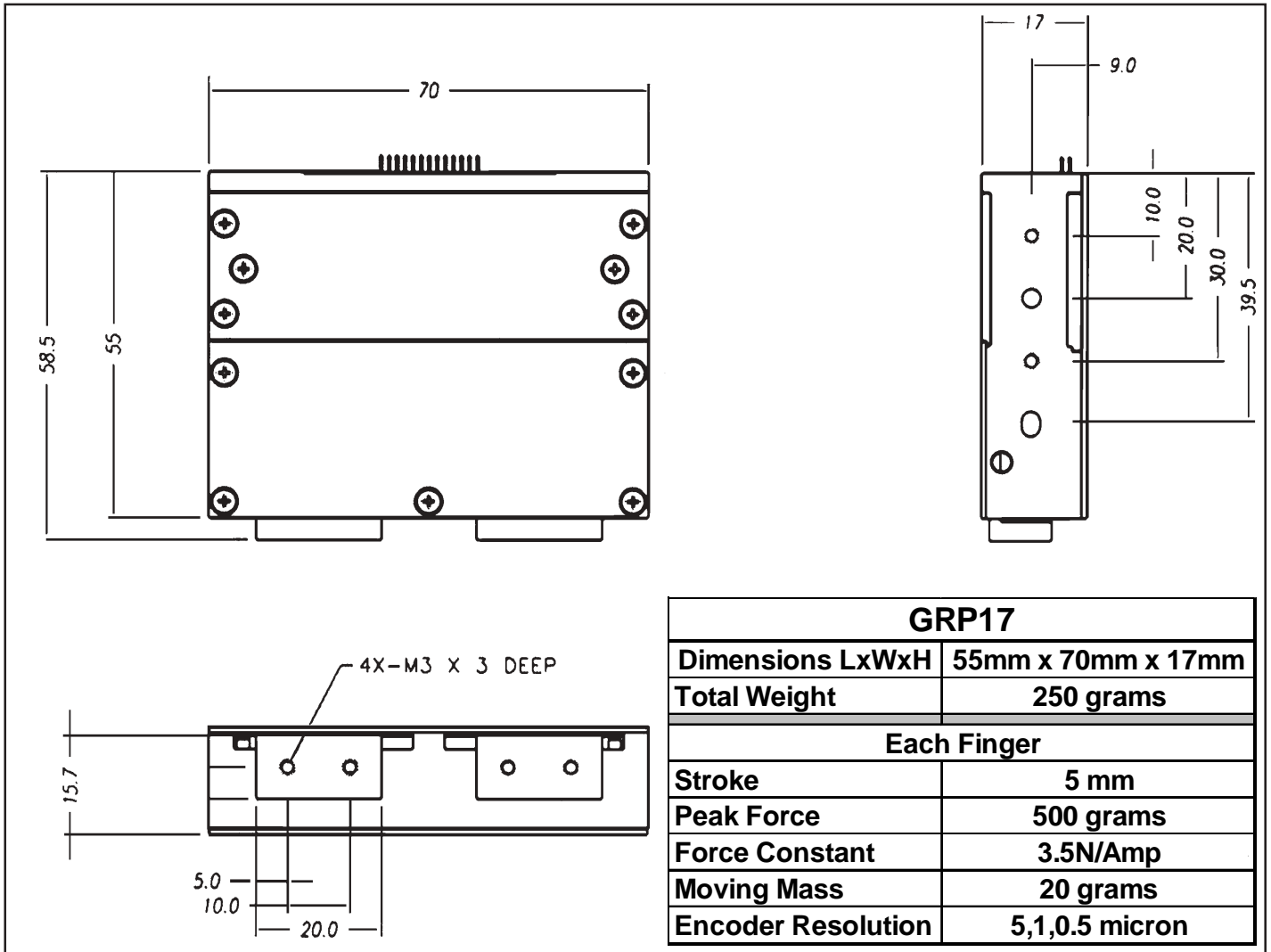
The GRP17 has been developed to provide a compact low profile gripper which provides all of the features that make SMAC's moving coil technology so attractive. In line with all SMAC products this all new gripper integrates the latest in voice coil technology, and the low moving mass, coupled to zero backlash and low hysteresis, provides the user with the capacity to perform very high speed moves within tightly defined performance envelopes. In common with other SMAC grippers each jaw is independantly controlled enabling complex operations to be performed with ease.

A great deal of research had been required to provide a package size of only 17mm x 55mm x 70mm, but equally it was crucial that this did not compromise the performance. The GRP17 is capable of exerting a peak force of 500grams per jaw despite the total mass being only 250grams.

It can be controlled using either SMAC's proven range of single and dual axis controllers, or any other proprietary servo controller. As an alternative our Smart Driver is capable of converting stepper signals into servo movement wherever a stepper driven system is provided. The closed loop nature of the system ensures that the position of each jaw is known at all times. Force, velocity and acceleration can all be programmed and monitored, so that the movement profile can be closely controlled and procedures such as a "soft land" are easily configured.



GRP17 Specifications



SMAC Benefits

- o Low profile construction
- o Independant control of each jaw
- o Direct drive voice coil technology
- o Force and position measurement
- o Closed loop feedback
- o Low moving mass = fast acceleration

