



Memory-Metalle GmbH

## INFO SHEET No. 7

### Engineering Kit I and II - product description

A common situation is that customers contact us having a certain interesting application idea or concept in mind. However, some of these customers would like to verify their idea by themselves. Though Memory-Metalle GmbH is always prepared to ship samples from the comprehensive inventory, in some cases it might be not cost efficient for our customers if we would have to produce a certain shape or component for the customer's experiments. For this purpose and also for general educational purposes we have assembled different selections of components, alloys and shapes which we call „Engineering Kits“. Together with some comprehensive explanatory manuals these kits allow our customers to carry out their own experiments and to become acquainted with the unique properties of the shape memory alloys.

#### Engineering Kit I (Superelastic):

- U Superelastic component (surface ground, ends rounded, laser marked)
- U Superelastic tube sample (OD = 1,8 mm, ID = 1,3 mm) for laser cutting
- U Wire sample made of superelastic standard alloy, ground surface, d=1,2 mm
- U Wire sample made of superelastic standard alloy, oxide surface (standard), d=0,5 mm
- U Wire made of superelastic alloy with improved stiffness (Cr-doped alloy), d=0,1 mm
- U Wire sample made of body temperature alloy, polished surface, d=0,23 mm
- U 2 paper clamps for demonstration of the „thermal memory effect“.

#### Engineering Kit II (Actuator):

- U 2 paper clamps for demonstration of the „thermal memory effect“
- U 1 tensile spring actuator with a net force of ca. 2,5 N
- U 1 compression spring actuator with a net force of ca. 1,8 N
- U 1 compression spring actuator with a net force of ca. 2,0 N
- U 3 pre-crimped wire actuators (Dy90) with d =250 µm, net force ca. 8 N, stroke ca. 5 mm
- U 1 bending actuator (wire shape)
- U 1 tensile spring actuator with a net force of ca. 1,5 N
- U 1 tensile spring actuator with a net force of ca. 1,0 N.

We offer each of those kits for a price of

**EUR 69,00**

plus shipment and handling costs (see separate information during ordering) and VAT if applicable. In case of ordering please don't forget to add your VAT number to the purchase order.