CUSTOM BUILT HAND CONTROLLERS

This datasheet covers custom-built hand controllers and the design service used to produce them. Daco also manufactures a range of standard modular products which are described on separate datasheets.

Custom-Built Hand Controller Design Service

Although Daco’s modular products can be configured in hundreds of different ways, some applications require a product that cannot be assembled from standard components. In such cases, customers can take advantage of Daco’s design service to create a custom-built hand controller.

The success of this service depends on Daco and the customer forming a close working relationship. Ideally, direct contact between the engineering departments of both companies is established with Daco sales staff acting as liaison where necessary.

In the initial stages of each project, a design specification is created which allows prices to be agreed. Occasionally a prototype is then produced to test new concepts and establish build standards. Finally, production is started and deliveries made in accordance with the required schedule.
Usually individual design services are prohibitively expensive, particularly for small quantity orders, but Daco has managed to avoid this. In the majority of cases we can use one of our modular range products as a starting point, then make minor changes to create the new custom built hand controller. This reduces development risks and minimizes design time, keeping engineering charges very low. The use of a high proportion of stock components also lowers costs and gives delivery times which are often shorter than customers expect.

Sometimes the requirement is for a custom built hand controller that cannot benefit from the existence of the modular range. Inevitably these require more engineering input and delivery times tend to be longer. However, overall costs remain surprisingly competitive because Daco’s 30 years experience has ensured that solutions to most problems already exist within the company. Hence the majority of custom built hand controllers follow. As with all Daco products they are manufactured under an ISO 9001 approved quality system and covered by a minimum 2 year warranty.

Military grade trackerball and fixed grip with integral miniature force joystick, mounted in an enclosure containing customer specific electrical interface.

Naval command and control system.
3 inch diameter military grade
trackerball mounted in panel with 3
selection switches. The electrically
screened housing contains a PS2
interface.

Naval command and control system
Fighter/transport helicopter
including wing sweep setting.

Military simulator
2 inch diameter military grade
trackerball with press-to-push
action mounted in panel with 3
selection switches. Housing contains
a PS2 interface.

Electronic warfare system

Land based fire control
2 inch diameter military grade
trackerball with press-to-switch
action mounted in customer
specific housing with integral
RS232 interface.

Fighter/bomber throttle box
including wing sweep setting.

Military simulator
2 inch diameter military grade
trackerball with press-to-switch
action mounted in panel with 3
selection switches. Housing contains
a PS2 interface.

Land based fire control
2 inch diameter military grade
trackerball with press-to-switch
action mounted in customer
specific housing with integral
RS232 interface.

Electronic warfare system

Fighter/bomber throttle box
including wing sweep setting.

Military simulator
2 inch diameter military grade
trackerball with press-to-switch
action mounted in panel with 3
selection switches. Housing contains
a PS2 interface.
2 inch diameter commercial grade trackerball mounted in plate with vandal proof switches.

Military grade trackerball modified to provide enhanced electrical conductivity, and reduced toxicity products of combustion.

IP65 sealing "surface mounting" miniature force joystick for zero below panel space requirement.

Fully sealed control grips with integral miniature force joystick. Smooth external finish designed to prevent retention of nerve agents.

Land based missile control system.
Matched pair of control grips.
- Left grip: 3 position toggle switch, 2 push buttons, 1 side mounted push button, single action, double pole trigger, with trigger guard.
- Right grip: 3 position toggle switch, miniature force joystick, push button, side mounted push button and single action trigger.

Armoured fighting vehicle fire control

Control grip with integral push button, miniature force joystick, 3 position toggle switch, trigger and "deadmans" handle.

Target acquisition options

Multi-function control grip with "protected button" side pod, mounted on force sensitive joystick base.

Flange mounted multi-function control grip with integral miniature force joystick and nulling circuit.

Fire control

2 axis switching displacement joystick and single handle with integral top mounted toggle switch, fire appliance control.

Control grip with integral push button, miniature force joystick, 3 position toggle switch, trigger and "deadmans" handle.

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