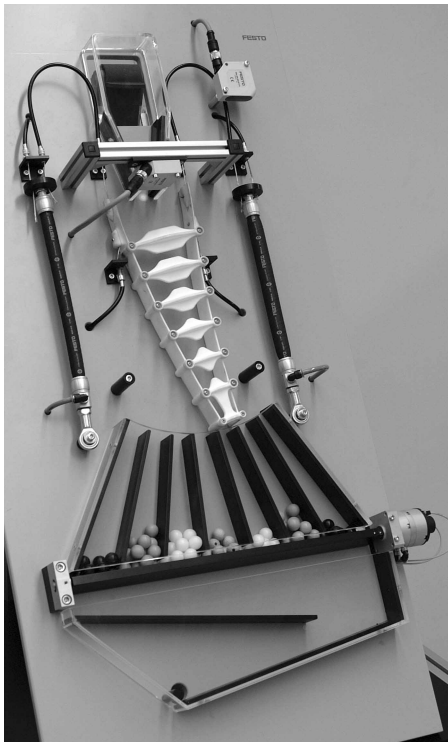


# The Fin Ray Effect® or bionics in factory automation

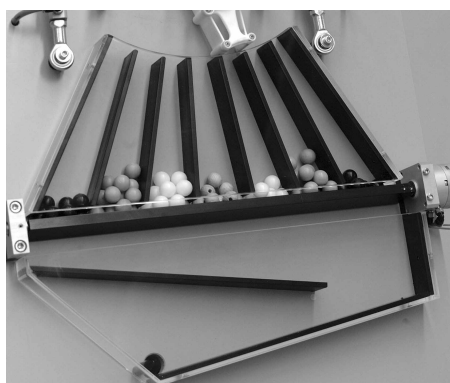
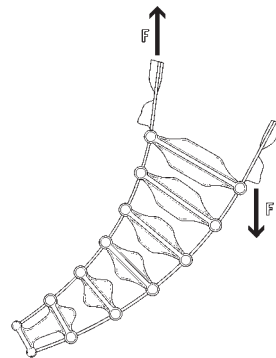
# FESTO



Have you seen our Bionic material sorting gate with its Fin Ray Effect®?

## Have you seen our Bionic material sorting gate with its Fin Ray Effect®?

Science fiction? A gimmick? By no means. The central element in this display is part of the Fin Ray Effect® structure. Specifically, the fins of the Aqua-ray and Air-ray are driven by two DMSP fluidic muscles, which are integrated into a servopneumatic positioning system. The result: a bionically designed, highly dynamic and flexible sorting device. Festo: breaking new ground in intelligent automation. Above or under water.



Bionically sorted

Blue, white and grey 16mm diameter balls fall off a conveyor belt. The SOEC colour sensor identifies the colour and the Fin Ray Effect® sorts the balls – at a rate of 3 per second.



The reverse of the display.

On the reverse side of the display, the balls are fed back and separated via a conveyor and the HPV feed separator.

## Dynamic display SA 0784

### The DMSP fluidic muscle

The innovative, unique drive principle excels when it comes to small movements of only a few millimetres up to several centimetres, thanks to maximum efficiency.

### Speed guaranteed.

The fluidic muscle principle guarantees high acceleration, highly dynamic movements and extremely fast reactions.

### High cycle rates guaranteed.

The fluidic muscle loves activity, particularly when it comes in quick succession in a fraction of a second. The faster the better.

### No judder effect. Guaranteed.

The innovative, unique drive principle means that the judder effect is a thing of the past.

### Harsh environments?

#### No problem.

The DMSP forms a system that is hermetically sealed from the environment around it.

### Servopneumatics from Festo:

everything from a single source, from proportional valves through to the control system, including displacement encoders, either integrated into the drive or external to it.

Fin Ray Effect® is a trademark of EvoLogics GmbH

Technical details on the products in this exhibition from the Festo sales range are available at our trade fair information stand or through the Festo infoservice in Esslingen. Tel: +49 711 347-0; Fax: +49 711 347-2071, E-mail: [infoservice@festo.com](mailto:infoservice@festo.com) or [www.festo.com](http://www.festo.com)

**Festo AG & Co. KG**

Ruiter Straße 82  
D-73734 Esslingen  
[www.festo.com](http://www.festo.com)