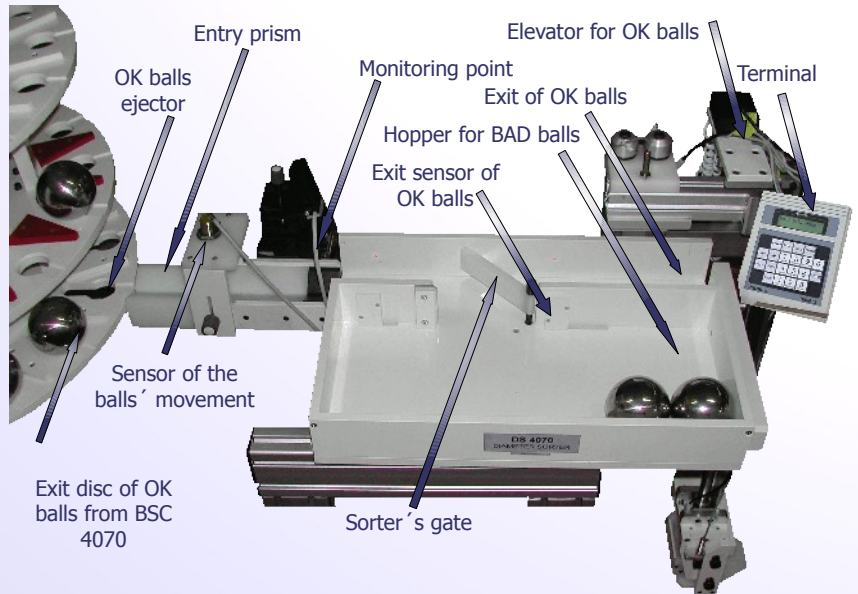


# Diameter Sorter DS 4070

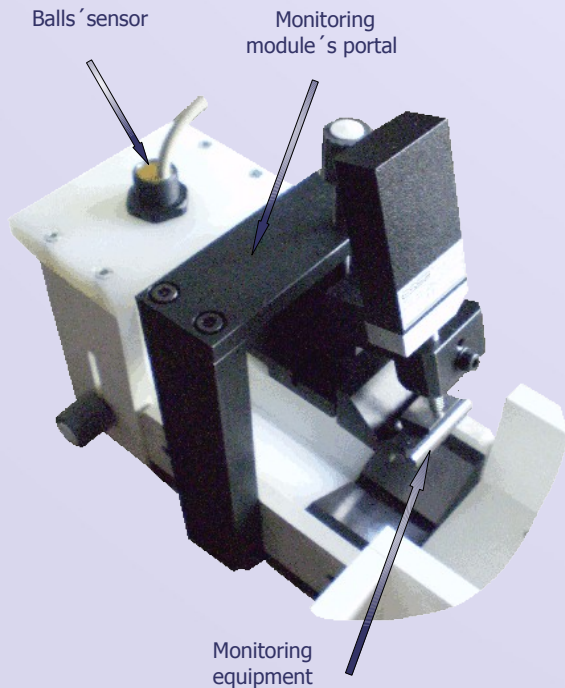


The Diameter Sorter – DS 4070 is an automatic testing and sorting machine designed for the checking of dry steel bearing balls' diameters within the range 40 – 70mm. The diameter of a ball is monitored in a single plane. The Diameter Sorter DS 4070 is used as an additional unit, connected either to the good balls (OK) exit of the Ball Scanner BSC 4070 or employed as a separate piece of equipment with a hopper. The DS 4070 is placed between the OK exit of the Ball Scanner and the Ball Transporter.



Overview of DS 4070, description of several elements

## Description of the machine:



Monitoring module of the Diameter Sorter

DS 4070 is composed of:

- the entry prism, which connects to the OK exit of the Ball Scanner
- the sensor of balls, which activates the monitoring module while the ball is passing
- the monitoring module which is formed of the portal and the monitoring equipment (monitoring sensor + spring-loaded contact), which indicates the monitored ball; bottom part of the monitoring point composing the prism, on which the portal is fixed
- behind the monitoring point there is the optic exit gate
- the sensor of OK balls and the chute for the OK balls
- the hopper for BAD balls
- the electrical side comprises the CU-DS 4070 (the Central Unit), terminal, sensors and cabling
- DS 4070 is equipped with a supporting structure of Al (aluminium) profile sections, which enable

an easy connection to the Ball Scanner (on the Ball Scanner stand built of Al profile sections delivered by the manufacturer)

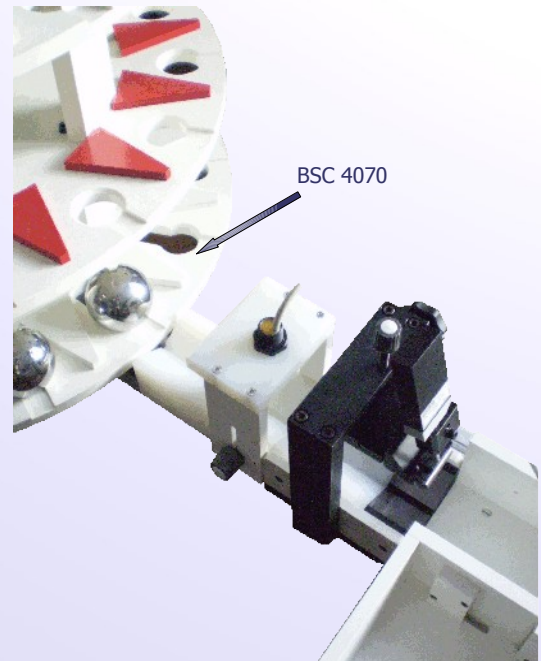


## Description of the functions:

The presence of the ball in the entry prism is indicated by the movement sensor of the ball from the OK exit of the Ball Scanner BSC 4070 and thus the monitoring equipment is activated. Then the balls pass the monitoring equipment and according to the test data are sorted out to the OK or BAD exits. The test data - monitored values - is shown on the terminal.

## Technical parameters:

Voltage: 120V/230V, 50Hz/60Hz  $\pm$  10%  
 Phase: alternating single phase current  
 Power consumption: max. 150 VA  
 Performance:  $\varnothing$ 39,960mm – min. 260 pcs/hour  
 $\varnothing$ 70,200mm – min. 95 pcs/hour  
 DS 4070 is so designed so that its performance is about 10% higher than that of the performance of the BSC 4070  
 Range:  $\varnothing$ 39,960mm až  $\varnothing$ 70,200mm  
 ( $\varnothing$  of checked ball)  
 Precision:  $\pm$ 0,002 mm  
 Weight: approx. 40 kgs



*View of the entry into the DS, balls' sensor, monitoring module*

## Order number:

Name	Order number	Description
DS 4070	K 250 000	Diameter Sorter for $\varnothing$ 39,960mm to $\varnothing$ 70,200mm
DSA 4070	K 250 011	Diameter Sorter with the hopper

For order, please contact the manufacturer.

