ORMITY
COMPLIANCE TEST EQUIPMENT

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IEC 60068-2-75:2014 · EHA · EHC · IEC 62262

# Steel striking elements — IK impact kits

Striking elements to IEC 60068-2-75 Table 1 for pendulum and vertical hammers, supplied as kits from 2 J to 50 J.



**ORTYSE068-K20**
Kit IK07–IK10: 2 · 5 · 10 · 20 J (4 elements)

**ORTYSE068-K50**
Kit 2–50 J: 2 · 5 · 10 · 20 · 50 J (5 elements)

## 1 Overview

ORMITY striking elements reproduce the coordinated characteristics of IEC 60068-2-75 Table 1 (Figure 1 and Annex A) for impact tests Eha (pendulum hammer) and Ehc (vertical hammer). They cover impact codes IK07 to IK10 of IEC 62262 and the 50 J severity.

- Steel Fe 490-2, hardness HRE 80...85 (ISO 6508)
- Spherical striking face R 25 / R 50, black oxide finish
- 20 J and 50 J elements hollowed at the rear, as Annex A requires
- Equivalent mass within ±2 %, measured and reported for each element
- Threaded at both ends: arm mounting and lifting hook for the vertical hammer
- Length trimmed to your pendulum arm on request

## 2 Kits

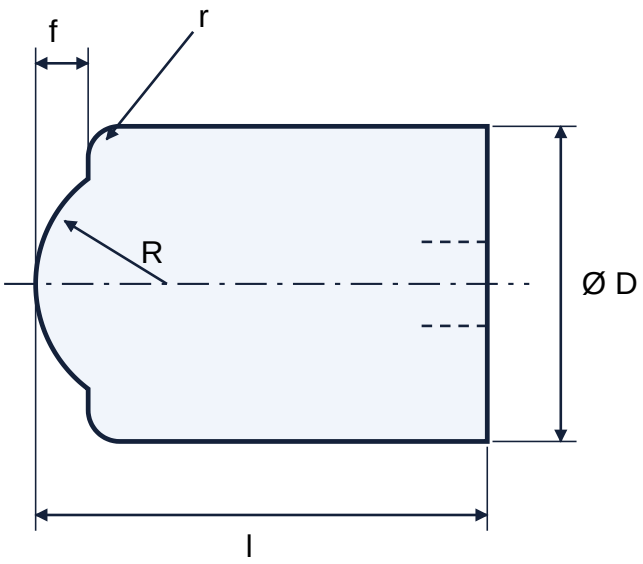
| Kit | Contents | Impact codes | Total mass |
|---|---|---|---|
| **ORTYSE068-K20** | 2 J · 5 J · 10 J · 20 J | IK07 – IK10 | 12,2 kg |
| **ORTYSE068-K50** | 2 J · 5 J · 10 J · 20 J · 50 J | IK07 – IK10 + 50 J | 22,2 kg |

Each element is also available separately (SKUs in section 3).

## 3 Characteristics (IEC 60068-2-75, Table 1)

| SKU | Energy | IK code | Equivalent mass (kg) ±2 % | Ø D | R | f | r | l | Thread |
|---|---|---|---|---|---|---|---|---|---|
| **ORTYSE068-02J** | 2 J | IK07 | 0,50 | 35 | 25 | 7 | — | 71,3 | M6 |
| **ORTYSE068-05J** | 5 J | IK08 | 1,70 | 60 | 25 | 10 | 6 | 86,1 | M6 |
| **ORTYSE068-10J** | 10 J | IK09 | 5,00 | 80 | 50 | 20 | — | 137,9 | M6 |
| **ORTYSE068-20J** | 20 J | IK10 | 5,00 | 100 | 50 | 20 | 10 | 120 | M8 |
| **ORTYSE068-50J** | 50 J | — | 10,00 | 125 | 50 | 25 | 17 | 150 | M12 |

Dimensions in mm. Tolerances ISO 2768-1 class m unless stated. l is the length as supplied for the vertical hammer or a pendulum arm of negligible mass. Heights of fall from Table 2; energy tolerance ±5 %.



## 4 Material, finish and use

| | |
|---|---|
| Material | Steel Fe 490-2 (ISO 1052) |
| Hardness | HRE 80...85 (ISO 6508) |
| Finish | Black oxide; all edges smoothed |
| Mass | Equivalent mass within ±2 % of Table 1 |
| Threads | Coaxial thread at both ends: M6 (2 J, 5 J, 10 J), M8 (20 J), M12 (50 J) |
| Apparatus | Pendulum hammer (Test Eha) and vertical hammer (Test Ehc) |
| Pendulum use | Length reduced on request so that the equivalent mass, arm included, meets Table 1 (IEC 60068-2-75, 3.2 and Annex A) |
| Documentation | Report with measured mass, dimensions and hardness of each element |

## 5 Renders



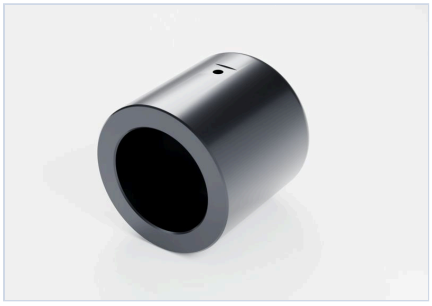
ORTYSE068-02J · 2 J



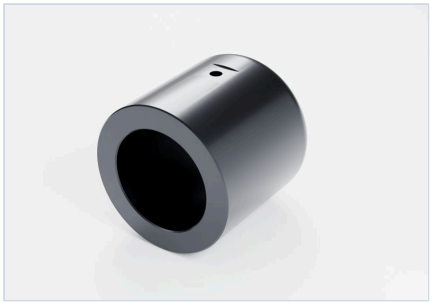
ORTYSE068-05J · 5 J



ORTYSE068-10J · 10 J



ORTYSE068-20J · 20 J — rear, hollowed



ORTYSE068-50J · 50 J — rear, hollowed

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