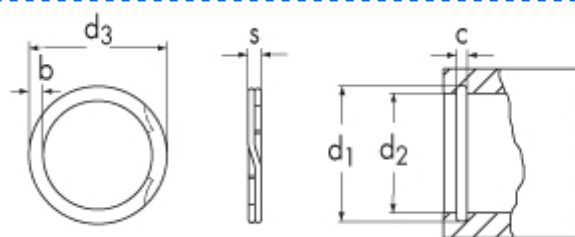


**SMALLEY® SPIRAL RETAINING RINGS**

**SAE 1070-90**  
**Carbon Steel**

surface treatment:  
**Oil dipped**

**Example of designation: DNH-13**



**d1**=shaft diameter  
**d2**=groove diameter  
**d3**=external ring diameter  
**S**=thickness

Medium-heavy  
duty series  
**DNH - for bores  
for groove DIN  
472**



| description    | Price<br>Euro x100 | % Price Change |        | Package |
|----------------|--------------------|----------------|--------|---------|
| <b>DNH-165</b> | <b>1.800,00</b>    | 1<br>+ 20%     | 2<br>- | 25      |

| DESCRIPTION                         | GROOVE          | THRUST CAPACITY                                                                                                             |
|-------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------|
| DNH-165                             | <b>d2</b>       | <b>ring shear</b> Newtons 556.112<br>(safety factor =3)                                                                     |
| <b>d1 mm</b> 165.00                 | mm 170.00       |                                                                                                                             |
|                                     | <b>Toll. d2</b> | <b>groove yield</b> Newtons 201.037<br>(based on a groove material yield<br>strength of 310/mm and a safety factor<br>of 2) |
|                                     | mm +0,630       |                                                                                                                             |
| <b>RING IN THE UNSTRESSED STATE</b> | <b>c</b>        |                                                                                                                             |
| <b>d3</b>                           | mm 4.15         |                                                                                                                             |
| mm 171.27                           | <b>Toll. c</b>  |                                                                                                                             |
| <b>Toll. d3</b>                     | mm +0,180       |                                                                                                                             |
| mm +1,40                            |                 |                                                                                                                             |
| <b>b</b>                            |                 |                                                                                                                             |
| mm 7.92                             |                 |                                                                                                                             |
| <b>Toll. b</b>                      |                 |                                                                                                                             |
| mm +/-0,15                          |                 |                                                                                                                             |
| <b>s</b>                            |                 |                                                                                                                             |
| mm 3.89                             |                 |                                                                                                                             |
| <b>Toll. s</b>                      |                 |                                                                                                                             |
| mm +/-0,10                          |                 |                                                                                                                             |
| <b>Weight Kg/1000</b>               |                 |                                                                                                                             |
| 124.05                              |                 |                                                                                                                             |

Technical informations are indicative and can be updated.

Copyright Gandini Fasteners S.r.l. All rights reserved. No part of this web site may be reproduced in any form without express permission.

**GANDINI FASTENERS SRL** viale Pier Paolo Pasolini, 83 - 20099 Sesto S.Giovanni Milano Italy  
Tel. +39 02 241 047 250 Fax +39 02 241 047 74

Production and distribution  
of fasteners, fixing elements  
and mechanical parts  
machining

**GANDINI FASTENERS SRL**  
viale Pier Paolo Pasolini, 83  
Sesto San Giovanni Mi - Italy

**Sales department**  
250@gandini.it  
tel +39 02 241 047 250

**Administration**  
350@gandini.it  
tel +39 02 241 047 350