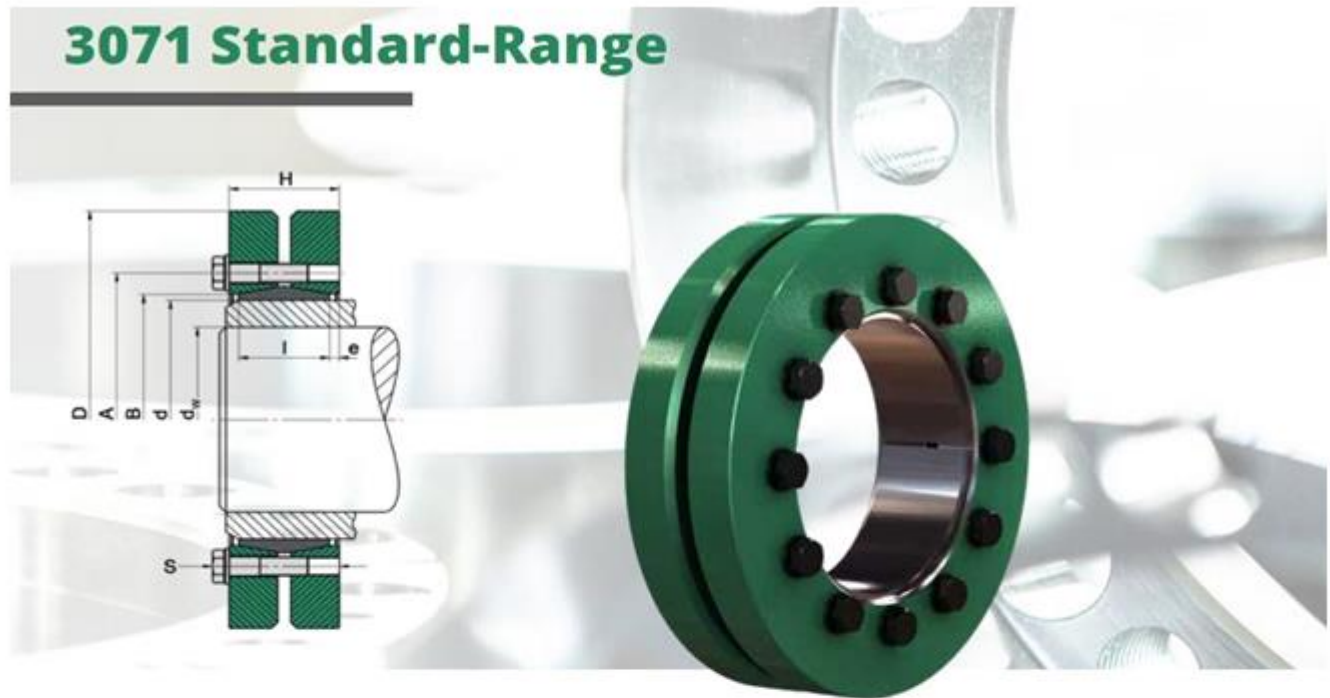


# 3071 Standard-Range



## Used symbols

d	[mm]	Nominal diameter of the shrink disc
$d_w$	[mm]	Shaft diameter
$M_{max}$	[Nm]	Maximal transmittable torque
D	[mm]	Outer diameter
l	[mm]	Length of the inner ring
e	[mm]	Excess length
H	[mm]	Width of the shrink disc
A	[mm]	Pitch circle diameter
B	[mm]	Attachment size
$M_A$	[Nm]	Tightening torque of the clamping screws
Z		Number of clamping screws
S		Size of the clamping screws
$n_{max}$	[min <sup>-1</sup> ]	Permitted rotational frequency
$p_N$	[N/mm <sup>2</sup> ]	Average pressure to the hub
I	[kgm <sup>2</sup> ]	Moment of inertia

## Design of the shrink disc

d < 115	Discs galvanized without washers
d ≥ 115	Discs painted with washers

Dimensions H & e in unlocked position

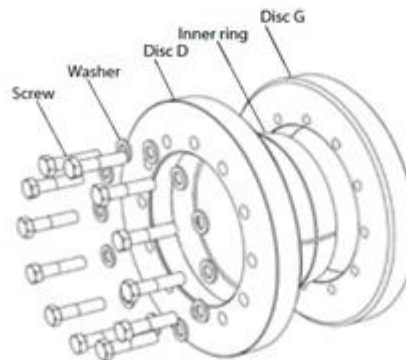
Hexagon head bolts are used as standard. Upon request we provide all sized shrink discs with hexagon socket head bolts (Inbus). (See ordering information)

Variation from the standard shaft diameter  $d_w$

> mm	≤ mm	minimal - mm	maximal + mm
10	30	-1	1
30	50	-3	2
50	140	-5	5
140	180	-10	5
180	320	-15	10
320	500	-20	10
500	700	-30	20
700	820	-40	20

$$M = M_{max(Catalog)} \left( \frac{d_{N(Catalog)}}{d_w(Catalog)} \right)^2$$

(see Basics - Calculation)



min. yield strength Rp0,2	N/mm <sup>2</sup>
Solid shaft	290
Hub	350

