

# ROLL-RING®

US- Trademark Reg.No. 2,176,383 Internat. Reg. No. 641683 from EBERT

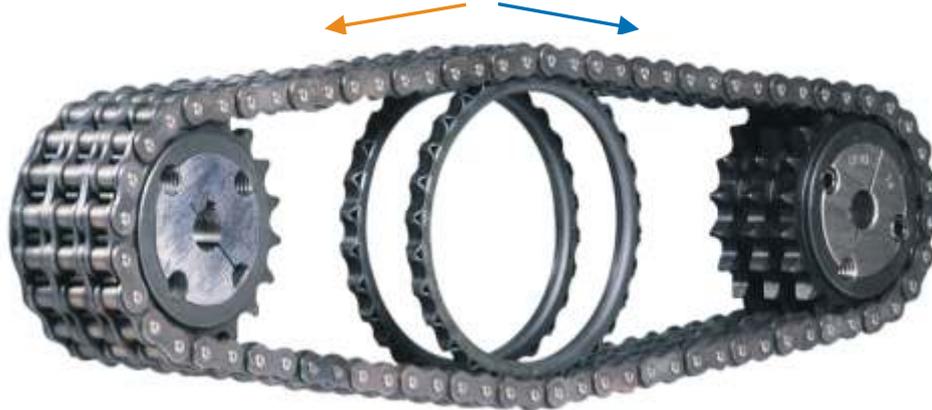
## SAVES TIME & MONEY

Thereby it damps shocks and vibrations and prolongs the life time of the whole transmission.

*elastic, inside-ventilated tooth profile*

*independent of rotational direction symmetric*

*polymer high performance material*



*exact diametrical tension on load strand and un-load strand*

### The Benefits:

**Tensioner and Damper in one**

**Automatic**

**Self-adjusting**

**One second fitment**

**Reversible**

**Maintenance-free**

**Rolls elastically  
No sprockets**

### The Company

It started with the idea of a rolling chain tensioner consisting of an elastic ring connected with an outer tooth profile by Siegfried Ebert. International patents and the trademark ROLL-RING were reserved. The first ROLL-RINGS were manufactured in the workshop at home and countless tests followed in the garage. The EBERT Kettenspanntechnik GmbH was founded as a start up enterprise in 1995. A product range was developed suitable to the international chain standards and with it the technology and capacity. This product range was awarded the Innovation Prize of the State of Saxony, Germany, in the same year.

In the meantime the ROLL-RING is available for more than 10 years and dominates the European market. Now a days it is exported to every industrial country. It is suitable especially for quality chain drives where reliability is needed, as chain brands like Renold/Jeffrey, Rexnord, Diamond, Brampton, IWIS or Tsubaki. Based on the first idea further innovative products follow, for example to solve problems in timing belts or vehicles.



*Conveyor for Aluminium – Profiles „Norsk Hydro“*



*Belt conveyor in the tyre manufacturing „Pirelli Germany“*

**EBERT Kettenspanntechnik GmbH**

Windmuehlenstr. 8

04435 Schkeuditz, Germany

Phone: ++49 34207 6930 Fax: ++49 34207 69393

<http://www.roll-ring.com> [service@roll-ring.com](mailto:service@roll-ring.com)



Check – in scales „Airport Frankfurt“



Dung strewer „Annaburger Agricultural Machines“

## Installation

Compare the chain type and the ROLL-RING type. The suitable chain type for each ROLL-RING is casted in.



For example this ROLL-RING suits chain No.40 (1/2"x5/16")

Check the operating conditions. The allowed environmental temperatures are between -4°F and +158°F. ROLL-RING is made for chain drives with periodical lubrication by hand or dropping lubrication. For special conditions or influences please ask us.

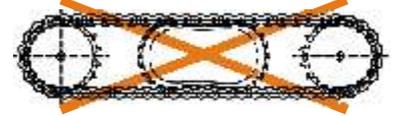
For installation compress the ROLL-RING and fit within the chain strands. The compression is right, if the ring takes the shape like an ellipse. In practice, the compression should be about 25% to 30%.



OK.

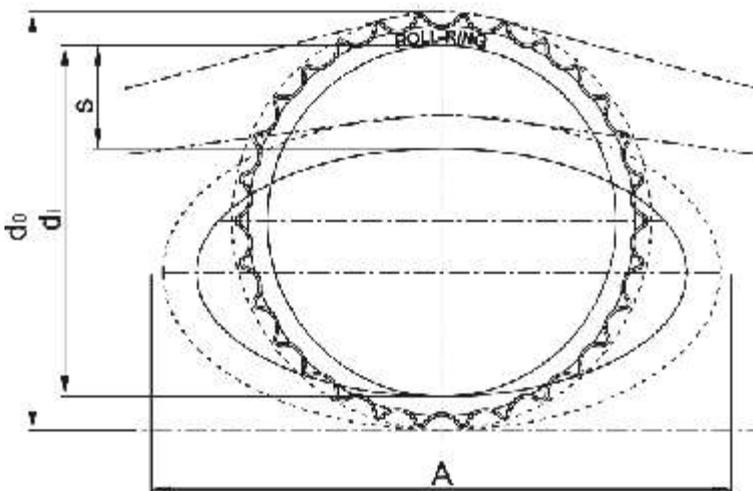


too little compression



too much compression

For precise choice please use our free calculation and take a look at the table below.

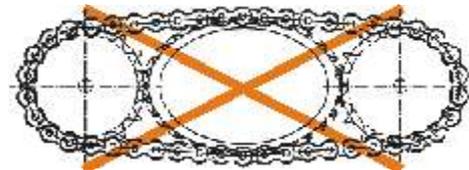
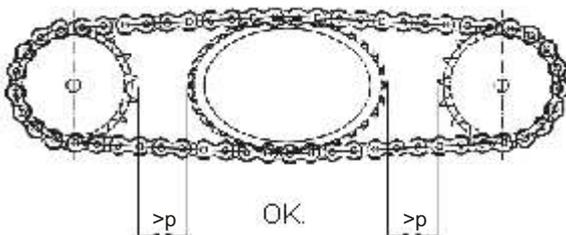


ANSI-No.	Article	d <sub>0</sub>	d <sub>i</sub>	s	A	D=d <sub>0</sub> -s
35	806 030 01	3.539	3.024	1.063	4.449	2.476
40	108 026 01	4.154	3.445	1.063	5.346	3.091
40	108 030 01	4.783	4.000	1.181	6.362	3.602
40	108 034 01	5.413	4.543	1.181	6.496	4.232
41	108 430 01	4.783	4.000	1.181	6.362	3.602
41	108 436 01	5.736	4.811	1.260	7.362	4.476
50	110 026 01	5.055	4.134	1.102	6.024	3.953
50	110 030 01	5.827	4.906	1.299	6.969	4.528
50	110 034 01	6.693	5.551	1.496	8.543	5.197
60	112 026 01	6.102	5.024	1.378	8.248	4.724
60	112 030 01	7.173	6.028	1.772	9.528	5.401
60	112 034 01	8.169	6.673	1.772	10.433	6.397
80	116 026 01	8.150	6.575	1.772	10.591	6.378
80	816 030 01	9.528	7.874	1.969	12.402	7.559
100	120 030 01	11.957	10.094	2.560	15.354	9.397

All values in inches.

Value "A" includes a safety distance to the sprockets

The safety distance to the sprockets must be the value of one chain pitch  $p$  at minimum to prevent collision.



bad collision