



ZGZB-RU-PU Ratchet base

Manufactured from cut resistant polyurethane.
Can also be used as edge protector.

Technical data ZGZB-RU-PU

Model	Art.-No.	For webbing width mm
ZGZB-RU-PU-50	N39150001	35 - 50
ZGZB-RU-PU-75	N39150002	75



ZGZB-KS-PP-50 Edge protector

Edge protector for lashing sensitive loads
(cardboard boxes etc.).

Technical data ZGZB-KS-PP-50

Model	Art.-No.	For webbing width mm
ZGZB-KS-PP-50	N39160003	50



ZGZB-KS-PP-70 Edge protector

Inherently stable edge protection, protects both load and
ratchet lashing.

Leg lengths 135 x 170 mm.

Technical data ZGZB-KS-PP-70

Model	Art.-No.	For webbing width mm
ZGZB-KS-PP-70	192020360	up to 70

ZGZB-KSP-PP Edge protector profile

Manufactured from polypropylene or recycled cardboard, to protect edges of loads. Length up to 6 m.



Technical data ZGZB-KSP-PP

Model	Art.-No.	Dimensions mm
ZGZB-KSP-PP	N39160004	190 x 19 x 20

ZGZB-ARM Slip restraining mats

Manufactured from compressed rubber granulate to achieve a defined friction coefficient of $\mu = 0.6$. Even if an emergency stop or evasive action is being taken – the cargo trucks or train wagons must not move. But only in very few cases the vehicle structure alone will offer sufficient load security.

For this reason, slip restraining devices should belong to the standard equipment of every professional transport. Slip restraining mats will decrease the danger which emanates from plain loading platforms. They will reduce the required total pre-tensioning forces during over top lashing of loads and will contribute – together with the textile lashings – that the loads will form a single unit with the vehicle or wagon.

The slip restraining effect will benefit especially those products, which do not stand a high surface pressure. The dangers resulting from incorrect load lashing practices are often underestimated. Acceleration forces in standard driving situations are close to the dead weight of the load.



INFO

The friction force FW of a slip restraining mat impedes load displacement and is physically explained as follows:

$FW = m \times G$
 G = Weight force
 m = Friction value

The difference between inertial force F and friction force FW is called securing force FS .

$FS = F - FW$

The securing force FS is the strength which has to be absorbed by the safety devices.

Technical data ZGZB-ARM

Model	Art.-No.	Dimensions mm
ZGZB-ARM-250-8	N39170001	1000 x 250 x 8



RLSP Load binders

Lashing capacity 4000 - 10600 daN

The load binder is a universal tool to restrain and secure loads and freight. Manual operation of the binder lever extends or retracts the threaded spindles. Tension is upheld by the self-locking threads.

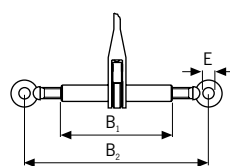
The load binder is fitted with shortening hooks for direct attachment to chains or with clevis ends for use with existing fastening devices.

Technical data RLSP

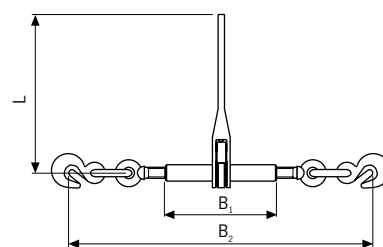
Model	Art.-No.	Version	Lashing capacity LC daN	Weight kg
RLSP-08-ÖÖ	N43300015	Clevis	4000	3.6
RLSP-10-ÖÖ	N43300016	Clevis	6300	3.6
RLSP-13-ÖÖ	N43300017	Clevis	10600	3.8
RLSP-08-HH	N43300012	Shortening hooks	4000	4.5
RLSP-10-HH	N43300013	Shortening hooks	6300	5.5
RLSP-13-HH	N43300014	Shortening hooks	10600	8.4

Dimensions RLSP

Model	RLSP-08-ÖÖ	RLSP-10-ÖÖ	RLSP-13-ÖÖ	RLSP-08-HH	RLSP-10-HH	RLSP-13-HH
Chain size, mm	8	10	13	8	10	13
B1, mm	250	250	250	250	250	250
B2 min., mm	360	360	366	588	630	722
B2 max., mm	510	510	516	738	780	872
Ø E, mm	20	20	25	-	-	-
L, mm	230	230	360	190	230	360



Load binder with protection against unscrewing, clevis acc. to EN 12195-3 on both ends.



Load binder with protection against unscrewing, clevis or shortening hook with safety pin acc. to EN 12195-3 on both ends.

ASH

Weld-on hooks

Capacity 1000 - 8000 kg

Weld-on hooks model ASH are universal attachments for use on trucks, excavators, low loaders and spreader beams, etc. The forged safety latch has high lateral stability and an ergonomic shape. Every weld-on hook has an identification number so that its history can be traced back through forging to the origin of the material.

The hook can be welded without any special preparation, e.g. prewarming.

The hook and safety latch are epoxy resin coated for added corrosion protection, the return spring is made from stainless steel.



Technical data ASH

Model	Art.-No.	Capacity kg	Weight kg
ASH 1	N41000104	1000	0.5
ASH 3	N41000035	3000	1.3
ASH 5	N41000036	5000	2.4
ASH 8	N41000037	8000	3.6

Dimensions ASH

Model	ASH 1	ASH 3	ASH 5	ASH 8
Seam density a, mm	4	6	7	8 - 9
L1 x B1, mm	90 x 25	130 x 35	160 x 45	170 x 50
B2, mm	19	26	30	40
C, mm	24	32	40	51
H1, mm	6	10	12	12
H2, mm	76	117	121	142
L2, mm	22	29	47	52

