



Accessories for Lift Industry

Lift Buffers

Guide Shoes

Guide Shoe Inserts

Rail Lubricators

Oil Collectors

Rope Suspension Springs

Cable Suspensions

Rope Pulleys

Profiled Rollers and Door Guide Rollers

Step and Chain Rollers

Rollers for Roller Guides

New generation
rail lubricators

New generation of
ACLA lift buffers
of AUTAN® XL

With
CE and UKCA
marking

Dimension Lists/Technical Sheets

Certified quality by TÜV



In-house dynamical test bench

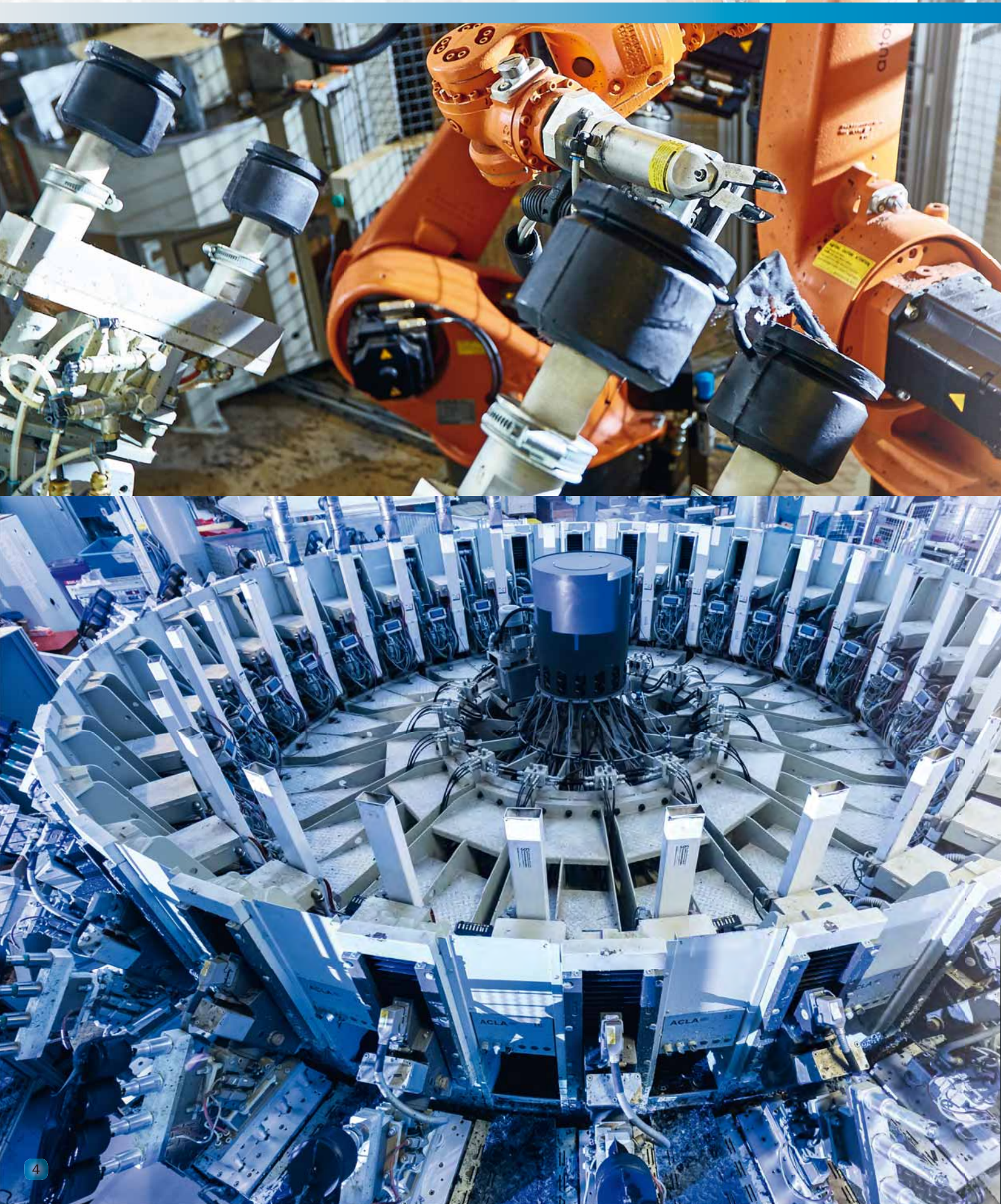
Summary



Contents	page
ACLA - a conception for reliable quality in lift engineering	5
High grade materials for the elevator industry	6
Straight Guide Shoes (VS-, SHS- and HSM-types)	
Guide Shoe VS	Installation height: 60, 80 and 100 mm 7
Guide Shoe HSMK	Installation height: 100 mm 8 - 9
Guide Shoe HSMKW	Installation height: 100 mm 10 - 11
Guide Shoe HSM	Installation height: 140 mm 12 - 13
Guide Shoe HSMN (for easy mounting)	Installation height: 140 mm 14
Guide Shoe HSM(N) - low-cost turnkey solution for BFK 16 -	Installation height: 140 mm 15
Guide Shoe HSM half	Installation height: 120 and 140 mm 16
Guide Shoe SHS (Elastic Guide Shoe)	Installation height: 170 mm 18 - 19
Guide Shoe HSML and HSML	Installation height: 180 mm 20 - 21
Guide Shoe HSMXL	Installation height: 355 mm 22 - 23
Angled Guide Shoes (WSM-types)	
Guide Shoe WSMK	Installation height: 100 mm 26 - 27
Guide Shoe WSMKS	Installation height: 105 mm 28 - 29
Guide Shoe WSMKW	Installation height: 100 mm 30
ACLA Rail Lubricators overview	
Guide Shoe WSM	Installation height: 143 mm 32 - 33
Guide Shoe WSML	Installation height: 187 mm 34 - 35
Guide Shoe WSMXL	Installation height: 365 mm 36 - 37
Guide Shoe Inserts "Special Profiles" of ACLATHAN®	38 - 39
Guide Shoe Inserts "Special Profiles", Sliding Inserts and Rail Guides of ACLATHAN®...	40 - 41
Oil Collectors	
Oil Collector "Universal" / Oil Collector „Variable“	44
Oil Collector MB (with magnetic fastener)	45
Oil Collector AT with Clamping Elements of ACLATHAN®	46 - 49
Lift Buffers	
Lift Buffers of AUTAN® XL and AUTAN® HE as per EN 81-20/50	50 - 57
Rope Suspension Springs of AUTAN®	59
Flat and Round Cable Suspensions of ACLAMID® /yellow and nature	60 - 61
Rope Pulleys of ACLAMID®	62 - 63
Profiled Rollers and Door Guide Rollers of ACLAMID® or ACLATHAN®	64
Step and Chain Rollers of ACLATHAN®	65
ACLA Rollers for ACLA Roller Guides and other Roller Guides	66

State-of-the-art machinery equipment

ACLA - a conception for reliable quality in lift engineering



ACLA moulded parts: at home in the world of elevators

As one of the leading European manufacturers of high-grade technical polyurethane elastomer parts, ACLA-WERKE have offered a high grade product program for the lift industry for many years. The intensive cooperation with leading global elevator manufacturers has led to special components which are customized and adapted to the requirements of the lift industry.

Besides the high quality level and reliability of the components the ACLA product range is distinguished by functional and maintenance-free designs. Constant quality control and customer oriented research and development make sure that all articles are state-of-the-art.

Safety by high-tech

In lift engineering safety is the top concern. Therefore ACLA applies only high-grade materials which secure a maximum of reliability in daily service.

As manufacturer and PUR-processing specialist for approx. 60 years in conjunction with a highly efficient quality control system ACLA-WERKE have the necessary know-how to assure a top level quality standard.

Our in-house test bench enables us to proceed with innovations that meet our customers' requirements. The new generation of lift buffers of AUTAN HE has already been certified acc. to EN 81-20/50 since 2015.

Number "1" in guiding

The ACLA product range for rail guidance is conceived in modular design leaving many options of use and economical application. The well approved ACLA guide shoes and inserts as well as the various rail lubricators develop compact units offering optimal operational performance with a minimum size ratio. The broad ACLA program for guide shoes, guide shoe inserts and lubricators offers the adequate technical and economical answer to any installation situation.

Innovation for excellence in ride quality and enhanced security level serving elevator manufacturers

Numerous product developments and enhancements over the past years, i.e. guide shoe inserts with highly extended ride comfort or special executions of PU lift buffers, account for the increased efficiency and reliability of modern elevators throughout the world.

The most recent and state of the art production techniques and a process adapted as well to small batch series as to mass production enables ACLA-WERKE to fulfill all market requirements of elevator industry.



ACLA-Werke GMBH are certified since 1993 for the scope "Design, production and sale of technical articles of polyurethane elastomers". From January 2004 on this certification is carried out by DEKRA.



High grade materials for the elevator industry

Material competence at the highest stage

As manufacturer of various elastomers with an in-house R & D for compositions and and its 60 years of experience in processing and manufacturing ACLA-WERKE are in a position to fulfill the top quality requirements of the lift industry with its customized products.

For the various requirements in lift industry ACLA-WERKE applies different materials with different specific compositions which are tailored to particular needs of elevator industry.

This page gives a review of the main homogeneous and cellular polyurethane elastomers as well as highly tensile thermoplastic materials which are applied in the elevator industry.

More detailed information on specific properties of ACLA compositions can be provided upon request.

Material	Brief description	Main properties (extract)	Preferred field of application in lift engineering
Homogeneous polyurethane elastomers			
ACLATHAN (brown)	High grade NDI-based PUR elastomer in shore hardnesses ranging from 65 to 95 Shore A	- extremely wear- and tear resistant - high tear propagation resistance - high dynamic load bearing capacity - low compression set and high damping ability - good resistance against mineral oils, grease and petrol	Guide shoes/type VS, guide shoe inserts, clamping elements for oil collectors, profiled- and door guide rollers, chain- and step rollers
ACLATHAN-KH (red)	TPU- based PUR elastomer with shore hardnesses ranging up to 96 Shore A	- high elasticity for a wide temperature range - good wear- and tear resistance - good damping ability - noise-absorbing - good resistance against mineral oils, grease and petrol	Guide shoes/type VS, guide shoe inserts,
ACLATHAN-KH (black)	TPU- based PUR elastomer	- good damping ability - good wear resistance - good resistance against mineral oils, grease and petrol	Gliding elements
Cellular polyurethane elastomers			
AUTAN	Highly elastic cellular PUR elastomer with a density up to approx. 460 kg/m³	- high stability level - excellent vibration damping features - good resistance against mineral oils, grease and petrol	Lift buffers according to EN-81, damping inserts for guide shoes, noise-isolation material
AUTAN HE	Highly elastic cellular PUR elastomer with a density up to approx. 600 kg/m³	- excellent stability level - excellent vibration damping features - good resistance against mineral oils, grease and petrol	Lift buffers according to DIN EN 81-20/50
High tensile materials			
ACLAMID (green/ guide shoe inserts, white/Rollers)	Special polymer with high Young's modulus	- high mechanical strength - good gliding and running properties - low rolling resistance - small deformation - good medium resistance	Guide shoes/type VS, guide shoe inserts, flat and round cable suspensions, rope pulleys, profiled- and door guide rollers, chain- and step rollers
ACLASYN GR (grey)	Thermoplastic material with especially modified physical and chemical properties	- excellent gliding properties - excellent wear resistance - good medium resistance	Guide shoes/type VS, guide shoe inserts, gliding elements
ACLASYN MWG 10 sw (black)			

ACLATHAN®, ACLACELL®, AUTAN®, EUTHAN® are registered trade marks of ACLA-WERKE GMBH, Cologne.

ACLA Guide Shoes, type VS

- installation height 60, 80 and 100 mm
- completely made of ACLATHAN, ACLATHAN-KH, ACLAMID or ACLASYN GR
- for rail widths of 4 - 7 mm

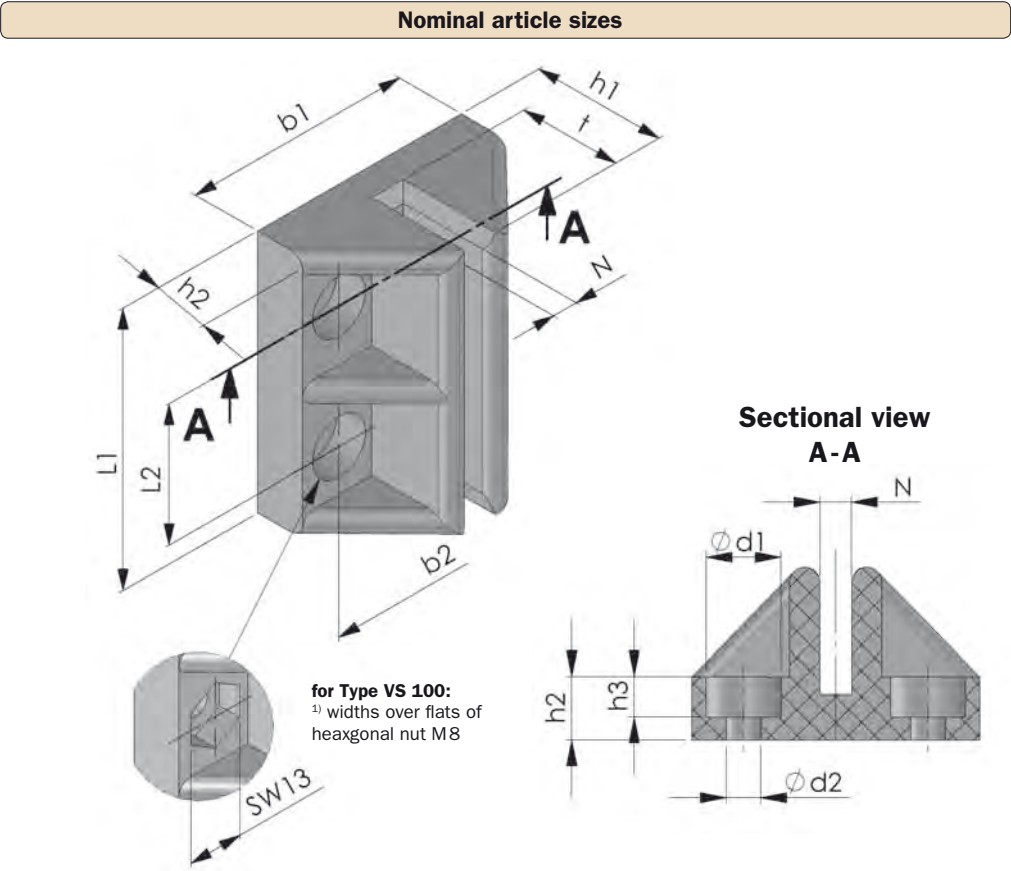
Completely made of plastic material

ACLA guide shoes type VS are completely manufactured of the high-quality homogeneous polyurethane elastomer ACLATHAN/ ACLATHAN-KH, the high-duty special polyamid ACLAMID or ACLASYN GR with special gliding abilities.

Advantages for the users and operational possibilities

Small sizes, low weight and functional design (separate guide shoe inserts are not required) are especially interesting for light weight lifts like small goods and food lifts.

The excellent abrasion resistance and elasticity of the material as well as the outstanding damping properties and the good sliding ability result in a silent running as well as economical and reliable operation.

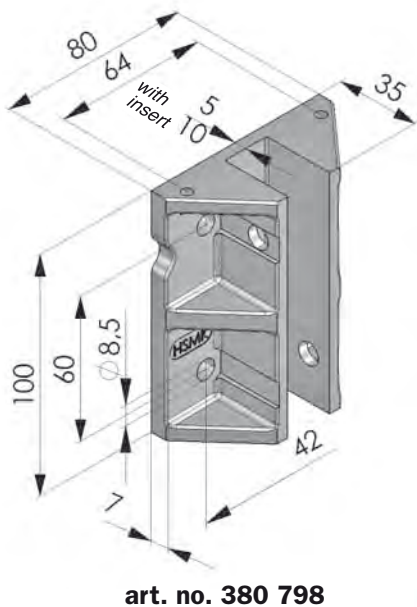


Materials for ACLA guide shoes, type VS			
ACLASYN GR	ACLATHAN-KH	ACLATHAN	ACLAMID
i.e. VS 60/art. no. 200 239	i.e. VS 60/art. no. 200 017	i.e. VS 80/art. no. 200 123	i.e. VS 100/art. no. 200 194

article numbers for ACLA guide shoes, type VS														
for rail widths	N	art. no	type	material	L ₁	L ₂	b ₁	b ₂	h ₁	h ₂	h ₃	t	d ₁	d ₂
5	5,5	200 017	VS 60	ACLATHAN-KH	60	30	50	32	30	11	7	22	13	6
5	5,5	200 239	VS 60	ACLASYN GR	60	30	50	32	30	11	7	22	13	6
5	5,5	200 123	VS 80	ACLATHAN	80	37,5	60	40	26	11	7	20	13	6,5
5,5	6	200 194	VS 100	ACLAMID	100	60	75	42	35	12	6	25	13	8,5
6	6,5	200 109	VS 100	ACLATHAN-KH	100	60	75	42	35	12	6	25	13 ¹⁾	8,5
6	6,5	200 271	VS 100	ACLASYN GR	100	60	75	42	35	12	6	25	13 ¹⁾	8,5
7	7,5	200 137	VS 80	ACLATHAN	80	37,5	60	40	26	11	7	20	13 ¹⁾	6,5
7	7,5	200 320	VS 60	ACLASYN GR	60	30	50	32	30	11	7	22	13	6
7	7,5	200 318	VS 60	ACLATHAN-KH	60	30	50	32	30	11	7	22	13	6

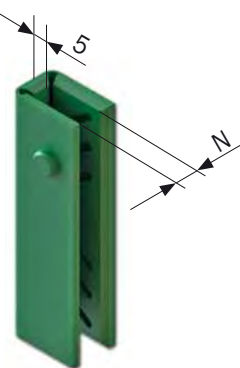
ACLA Guide Shoe, type HSMK

- installation height 100 mm
- undamped and damped guide shoe inserts for rail widths of 5 - 10 mm
- rail lubricators AK 2 and AK 4 are appropriate



The advantages of the ACLA guide shoe, type HSMK

- functional design
- low weight by use of light metal alloy base
- excellent stability and durability
- minimum space occupied
- can be used in a variable way in combination with ACLA guide shoe inserts for different rail widths
- easy to maintain in combination with ACLA guide shoe inserts and ACLA rail lubricators
- ideal for CTW applications



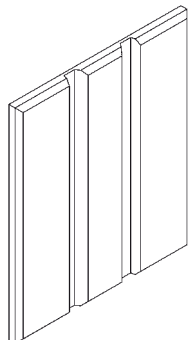
Appropriate guide shoe inserts for ACLA guide shoe HSMK - undamped -

U-profile type



type FSU convex

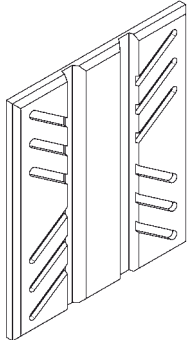
hinged types



type FSF plain

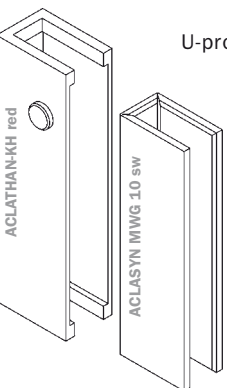


type FSF with grooves



Appropriate guide shoe inserts for ACLA guide shoe HSMK - damped -

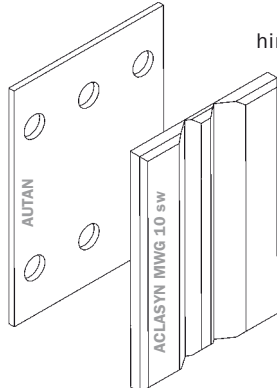
U-profile type



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type FSUGG

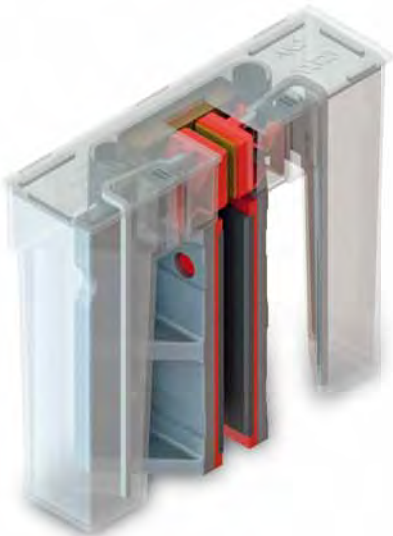
hinged type



type FSFG

Appropriate ACLA rail lubricators for guide shoe HSMK

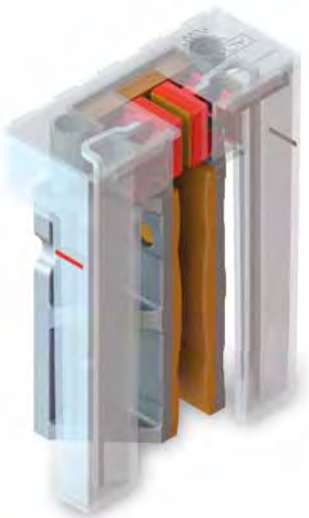
(for detailed information on ACLA rail lubricators, please see page 31)



Rail lubricator AK 2
art. no. 90 323.10

Mounting instructions:
To compensate the overlap on the backside (3 mm) between lubricator and guide shoe a distance plate should be used.

ACLA guide shoe HSMK, mounted with lubricator AK 2 and damped guide shoe insert, type FSUGG (ACLATHAN-KH red/ ACLASYN MWG 10 sw)



Rail lubricator AK 4
art. no. 90 337.11

Mounting instructions:
To compensate the overlap on the backside (4 mm) between lubricator and guide shoe a distance plate should be used.

ACLA guide shoe HSMK, mounted with lubricator AK 4 and undamped guide shoe insert, type FSU convex (ACLATHAN)

Complete guide shoe HSMKKG with guide shoe insert, type FSFG



Damped guide shoe HSMKKG with cellular layer of AUTAN combined with insert of ACLASYN MWG 10 sw.

With excellent noise- and vibration damping properties.

rail width N	article no.
5 mm	380 819.05
9 mm	380 820.05

Complete guide shoe HSMKGG with guide shoe insert, type FSUGG



Damped guide shoe HSMKGG with combined insert of ACLATHAN-KH red and ACLASYN MWG 10 sw.

With excellent noise- and vibration damping properties.

patent protected

rail width N	article no.
5 mm	380 819.06
9 mm	380 820.06

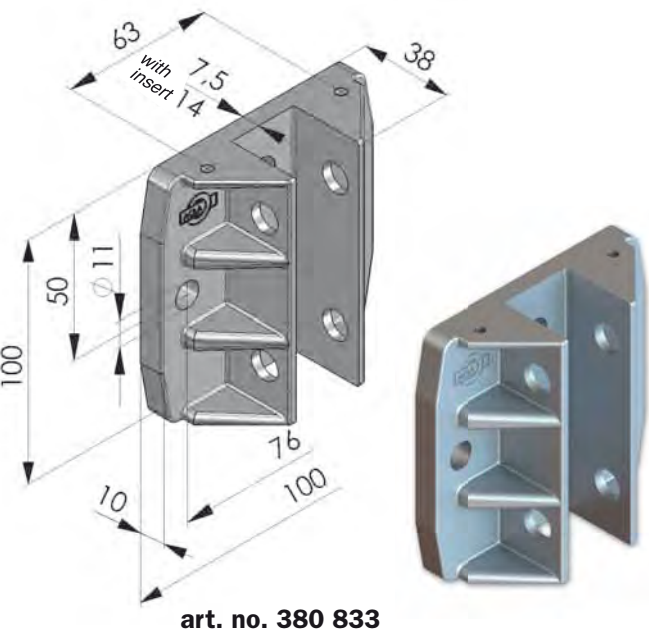
article numbers for HSMK guide shoe inserts

insert type	material*	for rail width N				
		5 mm	6 mm	8 mm	9 mm	10 mm
undamped	FSU convex	ACLATHAN	200 011		200 020	
	FSF plain	ACLATHAN	200 180	200 255	200 181	
		ACLASYN MWG 10 sw	200 286.04		200 290.04	200 307.04
	FSF with grooves	ACLATHAN				
		ACLAMID	200 245		200 247	
damped		ACLASYN GR	200 246		200 248	
	FSFG	ACLASYN MWG 10 sw with cellular layer	200 289.05		200 291.05	—
		ACLASYN MWG 10 sw with ACLATHAN-KH layer	200 289.06		200 291.06	—
	FSUGG	ACLASYN MWG 10 sw with ACLATHAN-KH layer				

*Characteristics and description of ACLA materials, please see page 6. Information on colour differences of guide shoe insert materials: ACLATHAN = brown, ACLATHAN-KH = red, ACLAMID = green, ACLASYN GR = grey, ACLASYN MWG 10 (sw) = black.

ACLA Guide Shoe, type HSMKW

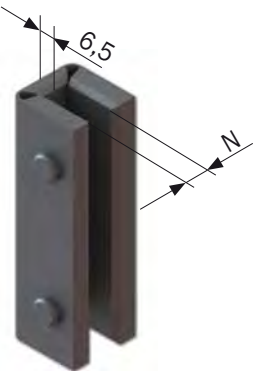
- installation height 100 mm
- undamped and damped guide shoe inserts for rail widths of 8 - 16 mm
- rail lubricators AK 2 and AK 4 are appropriate



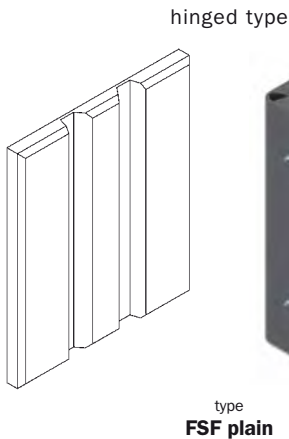
art. no. 380 833

The advantages of the ACLA guide shoe, type HSMKW

- functional design
- low weight by use of light metal alloy base
- excellent stability and durability
- minimum space occupied
- can be used in a variable way in combination with ACLA guide shoe inserts for different rail widths
- easy to maintain in combination with ACLA guide shoe inserts and ACLA rail lubricators

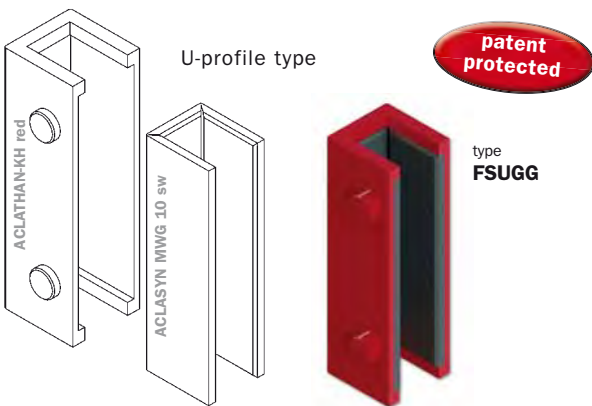


Appropriate guide shoe inserts for ACLA guide shoe HSMKW - undamped --



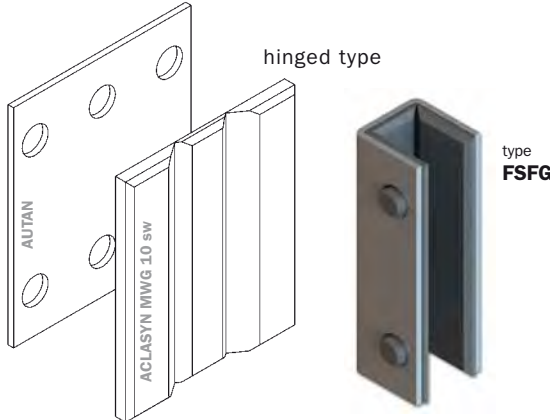
type FSF plain

Appropriate guide shoe inserts for ACLA guide shoe HSMKW - damped -



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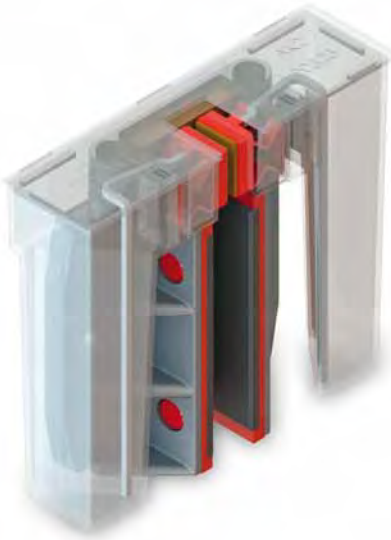
type FSUGG



type FSFG

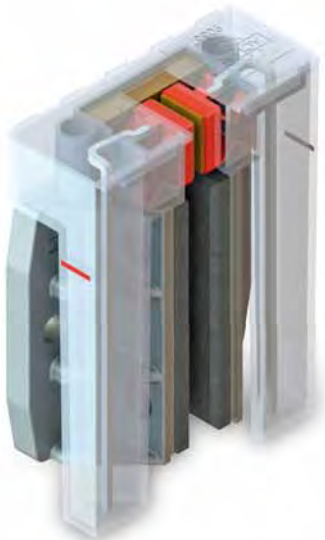
Appropriate ACLA rail lubricators for guide shoe HSMKW

(for detailed information on ACLA rail lubricators, please see page 31)



Rail lubricator AK 2 art. no. 90 323.15

ACLA guide shoe HSMKW, mounted with lubricator AK 2 and damped guide shoe insert, type FSUGG (ACLATHAN KH red/ ACLASYN MWG 10 sw)



Rail lubricator AK 4 art. no. 90 337.10

ACLA guide shoe HSMKW, mounted with lubricator AK 4 and damped guide shoe insert, type FSF plain (AUTAN/ ACLASYN MWG 10 sw)

Complete guide shoe HSMKW with guide shoe insert, type FSFG



Damped guide shoe HSMKW with cellular layer of AUTAN combined and with insert of ACLASYN MWG 10 sw.

With excellent noise- and vibration damping properties.

rail width N	article no.
8 mm	380 846.07
9 mm	380 842.07
10 mm	380 836.07
16 mm	380 837.07

Complete guide shoe HSMKW with guide shoe insert, type FSUGG



Damped guide shoe HSMKW with combined insert of ACLATHAN KH red and ACLASYN MWG 10 sw.

With excellent noise- and vibration damping properties.

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rail width N	article no.
9 mm	380 842.08
10 mm	380 836.08
16 mm	380 837.08

article numbers for HSMKW guide shoe inserts

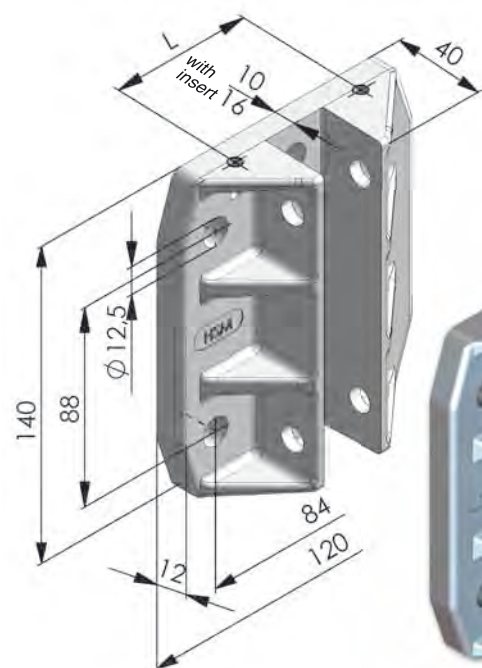
Einlage Typ	Werkstoff*	for rail width N			
		8 mm	9 mm	10 mm	16 mm
undamped	FSF plain		200 345.01	200 346.01	200 347.01
	ACLASYN MWG 10 sw				
damped	FSFG	200 397.05	200 345.05	200 346.05	200 347.05
	ACLASYN MWG 10 sw with cellular layer				
FSUGG	ACLASYN MWG 10 sw		200 345.06	200 346.06	200 347.06
	with ACLATHAN-KH layer				

*Characteristics and description of ACLA materials, please see page 6. Information on colour differences of guide shoe insert materials: ACLATHAN = brown, ACLATHAN-KH = red, ACLAMID = green, ACLASYN GR = grey, ACLASYN MWG 10 (sw) = black.



ACLA Guide Shoe, type HSM

- installation height 140 mm
- undamped and damped guide shoe inserts for rail widths of 5 - 20 mm
- rail lubricators AK 2 and AK 10 are appropriate

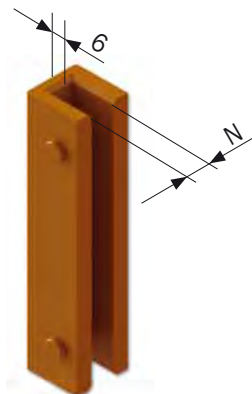


The advantages of the ACLA guide shoe, type HSM

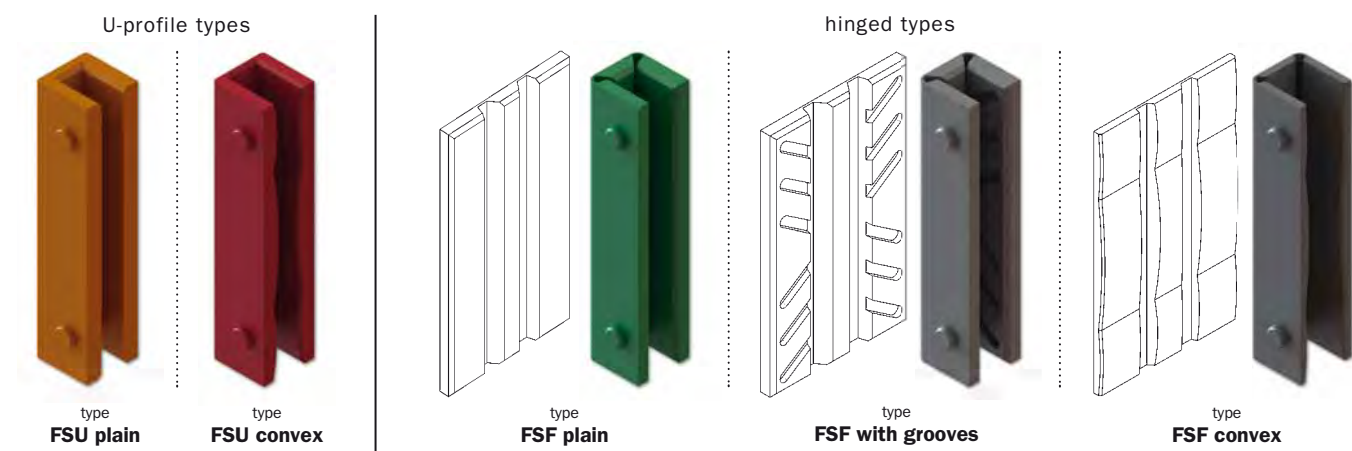
- functional design
- low weight by use of light metal alloy base
- excellent stability and durability
- minimum space occupied
- can be used in a variable way in combination with ACLA guide shoe inserts for all rail widths
- easy to maintain in combination with ACLA guide shoe inserts and ACLA rail lubricators

art. nos./types ACLA guide shoe HSM

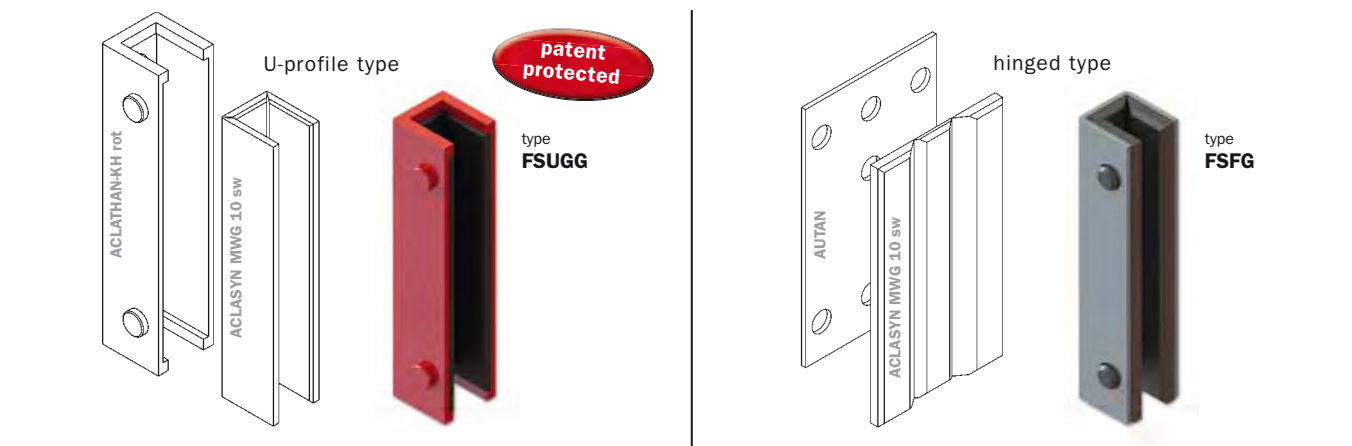
art. no. **380 810** (L = 64 mm)
2 bores for threaded screw M6



Appropriate guide shoe inserts for ACLA guide shoe HSM - undamped -

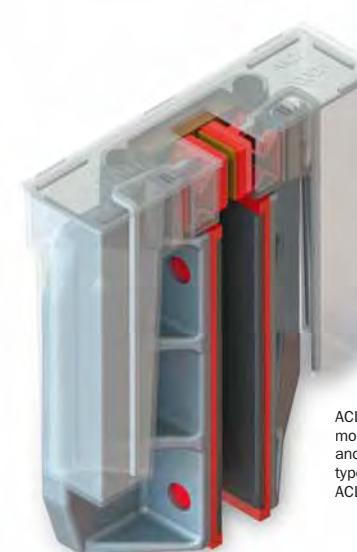


Appropriate guide shoe inserts for ACLA guide shoe HSM - damped -



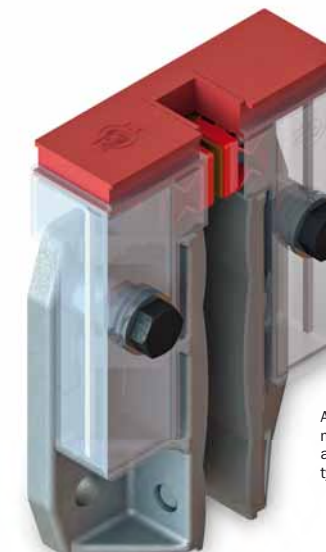
Appropriate ACLA rail lubricators for guide shoe HSM

(for detailed information on ACLA rail lubricators, please see page 31)



Rail lubricator AK 2
art. no. **90 323.13**
(for art. no. 380 810)

ACLA guide shoe HSM,
mounted with lubricator AK 2
and damped guide shoe insert,
type FSUGG (ACLATHAN-KH red/
ACLASYN MWG 10 sw)



Rail lubricator AK 10
art. no. **90 021.10**

ACLA guide shoe HSM,
mounted with lubricator AK 10
and undamped guide shoe insert,
type FSF convex (ACLASYN GR)

Complete guide shoe HSMG with guide shoe insert, type FSFG



Damped guide shoe HSMG
with cellular layer of AUTAN combined
and with insert of ACLASYN MWG 10 sw.

With excellent noise- and vibration
damping properties.

rail width N	article no.
9 mm	380 817.05
10 mm	380 809.05
16 mm	380 808.05

Complete guide shoe HSMGG with guide shoe insert, type FSUGG



Damped guide shoe HSMGG
with combined insert of ACLATHAN-KH
red and ACLASYN MWG 10 sw.

With excellent noise- and vibration
damping properties.

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rail width N	article no.
9 mm	380 817.06
10 mm	380 809.06
14 mm	380 818.06
16 mm	380 808.06

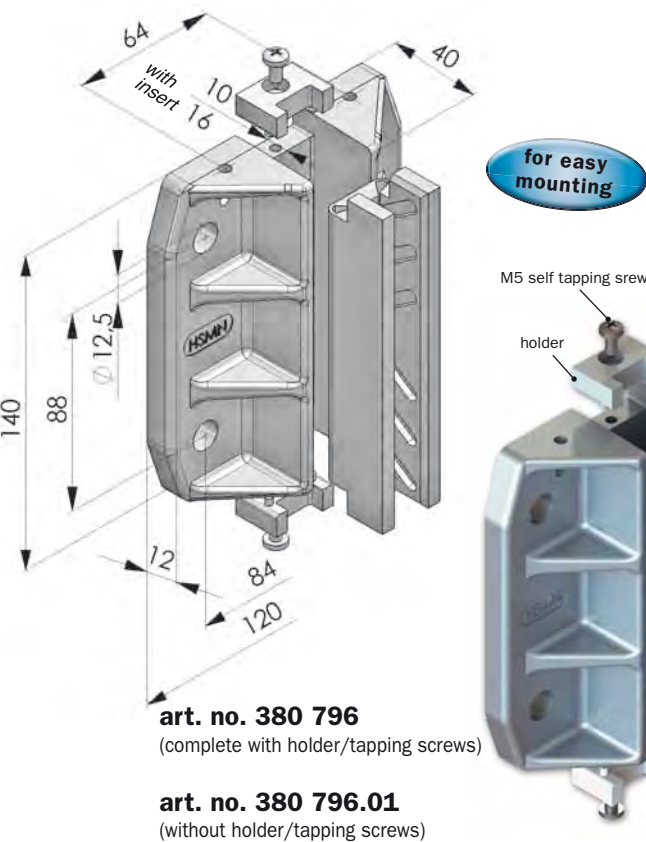
article numbers for HSM guide shoe inserts

insert type	material*	for rail width N								
		5 mm	6 mm	8 mm	9 mm	10 mm	12 mm	14 mm	15 mm	16 mm
undamped	FSU plain		200 003				200 006			
	FSU convex		200 012		200 013		200 014	200 015		
	FSF plain		200 182		200 169	200 005		200 168	200 235	200 166
			200 176							
			200 230						200 260	
	FSF with grooves				200 292.04	200 284.04		200 294.04		200 285.04
				200 018						
					200 225			200 206		200 208
	FSF convex				200 228	200 251		200 204		200 226
						200 288				200 016
	FSUGG					200 305				200 227
damped	FSFG				200 306.05	200 293.05				200 296.05
	FSUGG				200 306.06	200 293.06		200 295.06		200 296.06

*Characteristics and description of ACLA materials, please see page 6. Information on colour differences of guide shoe insert materials:
ACLATHAN = brown, ACLATHAN-KH = red, ACLAMID = green, ACLASYN GR = grey, ACLASYN MWG 10 (sw) = black.

ACLA Guide Shoe, type HSMN (for easy mounting)

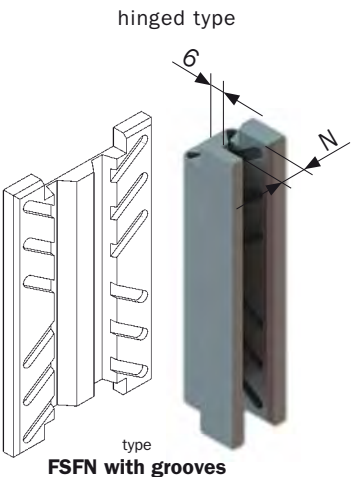
- installation height 140 mm
- guide shoe inserts for rail widths of 5 - 16 mm
- rail lubricators AK 2 and AK 10 are appropriate



The advantages of the ACLA guide shoe, type HSMN

- functional design
- low weight by use of light metal alloy base
- excellent stability and durability
- sizes as per standard type HSM, however designed for the assembly of the ACLA guide shoe inserts FSFN for easy mounting
- inserts can be replaced without dismantling the guide shoe
- the symmetrical design of the insert allows an easy mounting and dismantling and saves adjustment work when replacing it
- minimum space occupied
 - can be used in a variable way in combination with ACLA guide shoe inserts for all rail widths
 - easy to maintain in combination with ACLA guide shoe inserts and ACLA rail lubricators

Appropriate guide shoe insert for ACLA guide shoe HSMN - undamped -



article numbers for HSMN guide shoe inserts							
insert type	material*	for rail width N					
		5 mm	8 mm	9 mm	10 mm	14 mm	16 mm
undamped	FSFN with grooves	ACLATHAN-KH	200 018.01				
	FSFN with grooves	ACLAMID	200 176.01	200 225.01		200 206.01	200 208.01
	FSFN with grooves	ACLASYN GR	200 230.01	200 228.01	200 251.01	200 204.01	200 226.01
	FSFN plain	ACLASYN MWG 10 sw	200 428.02	200 228.02	200 251.02		200 226.02

*Characteristics and description of ACLA materials, please see page 6. Information on colour differences of guide shoe insert materials: ACLATHAN = brown, ACLATHAN-KH = red, ACLAMID = green, ACLASYN GR = grey, ACLASYN MWG 10 (sw) = black.

Appropriate ACLA rail lubricators for guide shoe HSMN

(for detailed information on ACLA rail lubricators, please see page 31)



ACLA Guide Shoe, Type HSM (N-Type) low-cost turnkey solution for rail width 16 mm

- installation height 140 mm
- insert pre-assembled
- the oil lubricator is fixed with the guide shoe

The advantages of the ACLA guide shoe, type HSMN (N-type)

- complete solution for the common rail 16 mm
- outstanding quality, stability and durability by use of light metal alloy base
- dimensions compatible with standard type HSM
- scope of supply/partly pre-assembled:
 - HSMN guide shoe, art.-no. 380 796.01
 - Guide shoe insert with grooves for rail width 16 mm made of ACLASYN GR, art.-no. 200 447
 - ACLA Rail lubricator AK 10, art.-no. 90 021.S

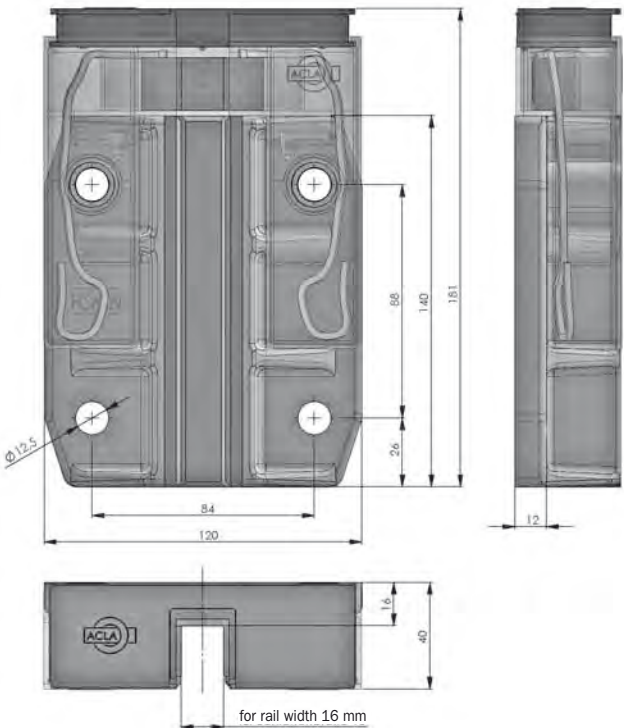


The time-saving and cost-effective turnkey solution for the replacement of HSM Guide Shoe including insert and lubricator

art.-no. 380 851
(3 parts with guide shoe, insert and oil lubricator)

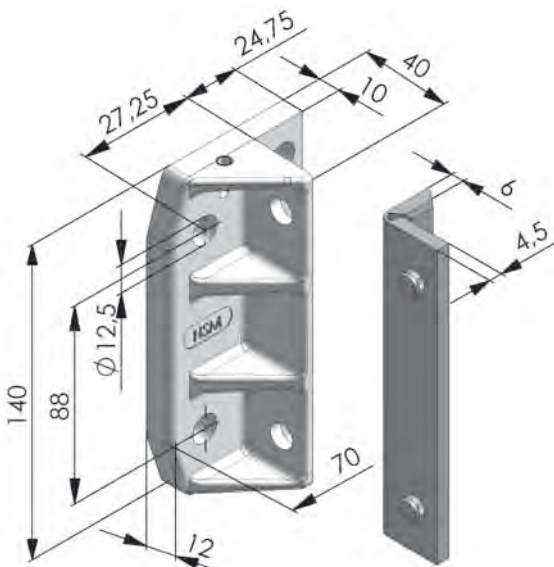


for rail width 16 mm



ACLA Guide Shoe, type HSM half

- installation height 120 mm and 140 mm
- for rail widths of 5 - 19 mm



art. no. 380 806



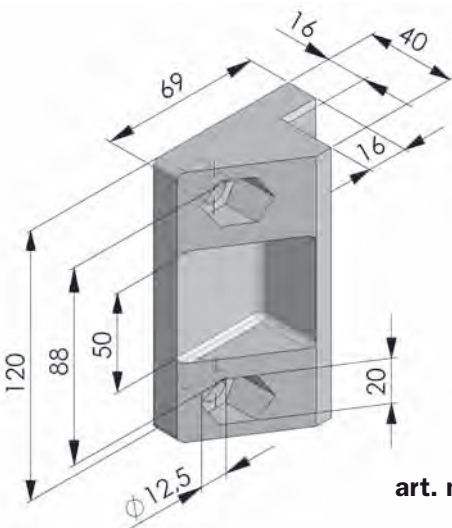
Appropriate guide shoe inserts,
type FSF (hinged/undamped)
see table

article numbers for HSM/half guide shoe inserts

insert type	material*	
undamped FSF plain	ACLATHAN-KH	200 433
FSF with grooves	ACLAMID	200 434
FSF with grooves	ACLASYN GR	200 269
FSF plain	ACLASYN MWG 10 sw	200 301.04

*Characteristics and description of ACLA materials, please see page 6.
Information on colour differences of guide shoe insert materials:
ACLATHAN = brown, ACLATHAN-KH = red, ACLAMID = green, ACLASYN GR = grey, ACLASYN MWG 10 (sw) = black.

Guide shoe HSM/half of ACLASYN GR



art. no. 200 250



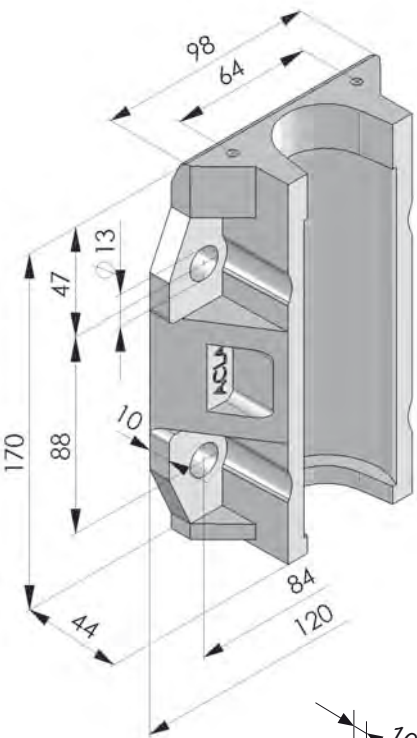
- installation height 120 mm
- completely made of ACLASYN GR
- can be used for rail widths from 5 to 16 mm without any additional insert

Focus on quality in ACLA production processes



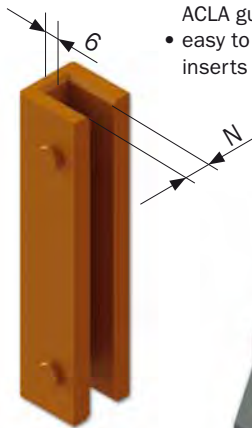
ACLA Guide Shoe, type SHS (Elastic Guide Shoe)

- installation height 170 mm
- guide shoe inserts for rail widths of 5 - 20 mm
- rail lubricators AK 2 and AK 5 are appropriate



The advantages of the ACLA guide shoe, type SHS

- functional design
- low weight by use of light metal alloy base
- excellent stability and durability
- Compact guide shoe with excellent properties as to shock absorption
- Rail joints and misalignments are absorbed by the high elasticity of the entire construction
- ACLA guide shoe inserts are embedded in a highly elastic cellular or homogeneous intermediate layer
- the assembly of the insert and cushion is possible without using a tool
- can be used in a variable way in combination with ACLA guide shoe inserts for all rail widths
- easy to maintain in combination with ACLA guide shoe inserts and ACLA rail lubricators

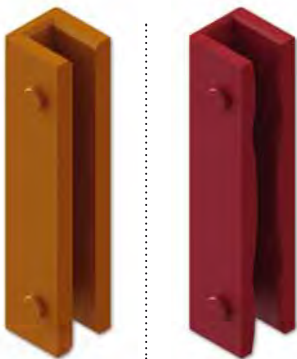


art. no. 380 812



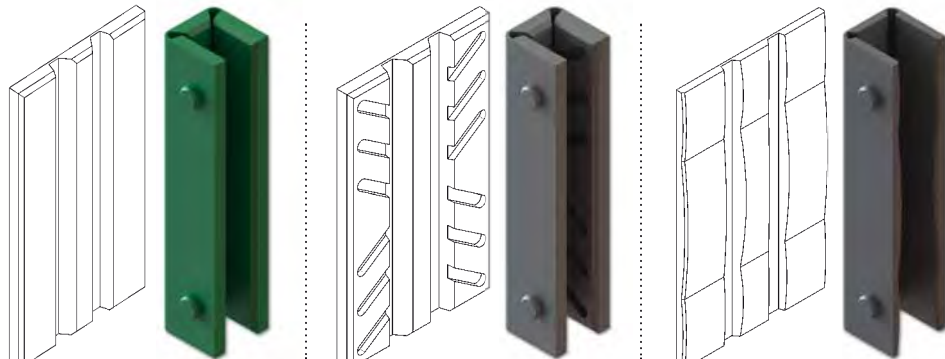
Appropriate guide shoe inserts for ACLA guide shoe SHS - undamped -

U-profile types



type FSU plain type FSU convex

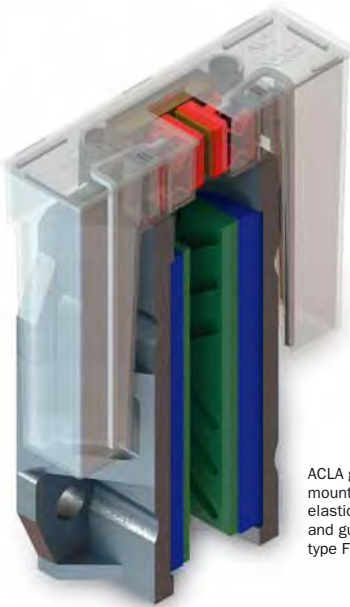
hinged types



type FSF plain type FSF with grooves type FSF convex

Appropriate ACLA rail lubricators for guide shoe SHS

(for detailed information on ACLA rail lubricators, please see page 31)



Rail lubricator AK 2
art. no. 90 323.10

ACLA guide shoe SHS,
mounted with lubricator AK 2,
elastic cushion/homogeneous
and guide shoe insert,
type FSF with grooves (ACLAMID)



Rail lubricator AK 5
art. no. 90 314.10

ACLA guide shoe SHS,
mounted with lubricator AK 5,
elastic cushion/cellular
and guide shoe insert,
type FSF convex (ACLASYN GR)

Complete guide shoe SHS with elastic cushion/homogeneous



Complete
elastic guide shoe
art. no. 380 795
(= guide shoe
+ elastic cushion/homogeneous)

highly elastic
cushion **homogeneous**
art. no. 196 673.N

Complete guide shoe SHS with elastic cushion/cellular



Complete
elastic guide shoe
art. no. 380 787
(= guide shoe
+ elastic cushion/cellular)

highly elastic
cushion **cellular**
art. no. 310 196

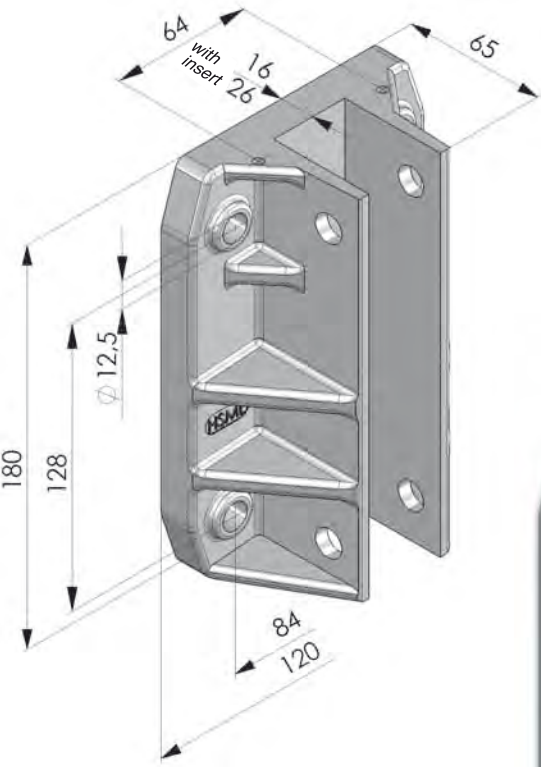
article numbers for SHS guide shoe inserts

insert type	material*	for rail width N										
		5 mm	6 mm	8 mm	9 mm	10 mm	12 mm	14 mm	15 mm	16 mm	19 mm	20 mm
undamped	FSU plain		200 003				200 006					
	FSU convex		200 012		200 013		200 014	200 015				
	FSF plain		200 182		200 169	200 005		200 168	200 235	200 166		
			200 176									
			200 230						200 260			200 321
	ACLASYN MWG 10 sw				200 292.04	200 284.04		200 294.04		200 285.04	200 298.04	
	FSF with grooves			200 018								
					200 225			200 206		200 208		
					200 228	200 251		200 204		200 226		
	FSF convex					200 288				200 016		
						200 305				200 227		
	ACLASYN GR											

*Characteristics and description of ACLA materials, please see page 6. Information on colour differences of guide shoe insert materials: ACLATHAN = brown, ACLATHAN-KH = red, ACLAMID = green, ACLASYN GR = grey, ACLASYN MWG 10 (sw) = black.

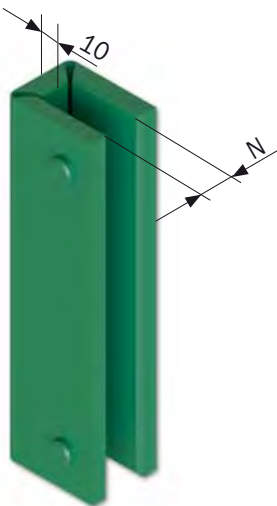
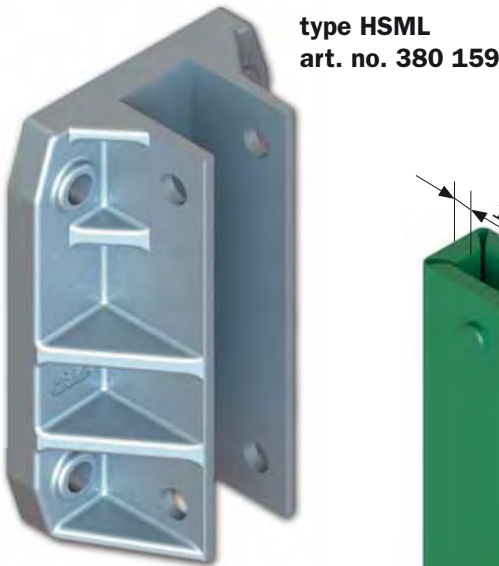
ACLA Guide Shoe, type HSML and HSMLS

- installation height
- guide shoe inserts for rail widths of 14 - 29 mm
- rail lubricators AK 2 and AK 10 are appropriate



The advantages of the ACLA guide shoe, type HSML

- functional design
- low weight by use of light metal alloy base
- excellent stability and durability
- minimum space occupied
- can be used in a variable way in combination with ACLA guide shoe inserts for rail widths from 14 to 29 mm
- easy to maintain in combination with ACLA guide shoe inserts and ACLA rail lubricators



Appropriate ACLA rail lubricators for guide shoe HSML

(for detailed information on ACLA rail lubricators, please see page 31)



Rail lubricator AK 2
art. no. 90 323.10
for rail widths from 5 to 16 mm
art. no. 90 323.11
for rail widths from 19 to 24 mm
art. no. 90 323.12
for rail widths from 28 to 30 mm

ACLA guide shoe HSML,
mounted with lubricator AK 2
and undamped guide shoe insert,
type FSF with groove
(ACLAMID).

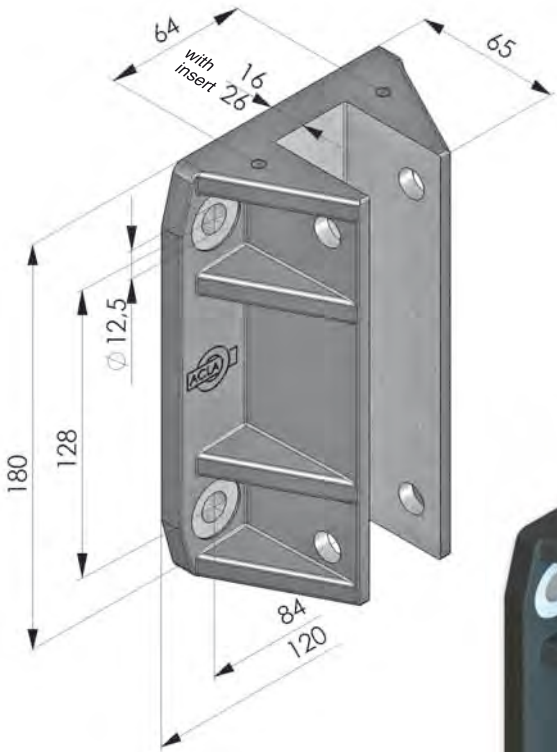


Rail lubricator AK 10
art. no. 90 021.10
for rail widths from 5 to 20 mm

ACLA guide shoe HSML,
mounted with lubricator AK 10
and undamped guide shoe insert,
type FSF with groove
(ACLASYN GR).

Appropriate ACLA rail lubricator for guide shoe HSMLS

(for detailed information on ACLA rail lubricators, please see page 31)



type HSMLS
art. no. 380 834
Special design for high load lifts
with improved breaking force
in comparison to type HSML.

Breaking force: 240 kN



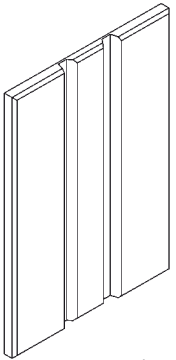
Rail lubricator AK 2
art. no. 90 323.13
for rail widths
from 5 to 16 mm

ACLA guide shoe HSMLS,
mounted with lubricator AK 2
and undamped guide shoe insert,
type FSF with groove
(ACLAMID).

Appropriate guide shoe inserts for ACLA guide shoe HSML and HSMLS

- undamped -

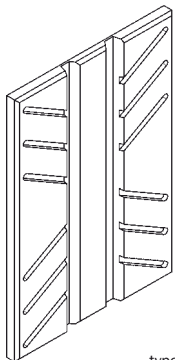
hinged types



type
FSF plain

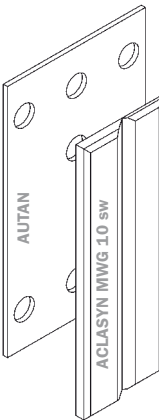


type
FSF with grooves



- damped -

hinged type



type
FSFG

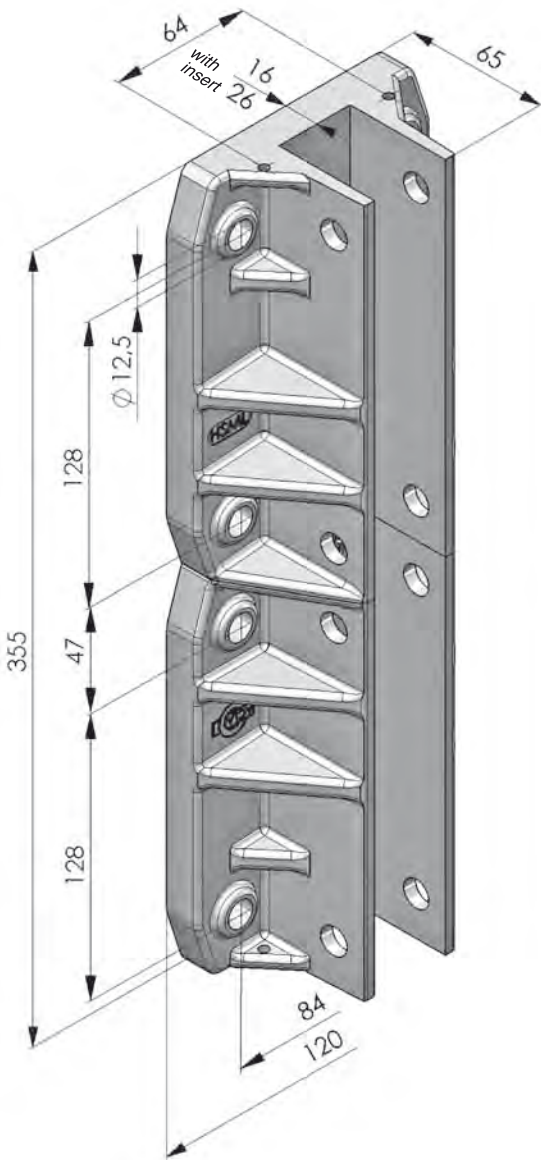
article numbers for HSML and HSMLS guide shoe insert

insert type	material*	for rail width N				
		14 mm	16 mm	19 mm	24 mm	29 mm
undamped	FSF plain	ACLATHAN-KH	200 198	200 171		
		ACLAMID	200 195			200 242
		ACLASYN GR	200 238			200 263
		ACLASYN MWG 10 sw		200 297.04	200 299.04	200 267.01
undamped	FSF with grooves	ACLAMID		200 207		
		ACLASYN GR		200 229	200 266	
damped	FSFG	ACLASYN MWG 10 sw with cellular layer		200 297.06		

*Characteristics and description of ACLA materials, please see page 6. Information on colour differences of guide shoe insert materials: ACLATHAN = brown, ACLATHAN-KH = red, ACLAMID = green, ACLASYN GR = grey, ACLASYN MWG 10 (sw) = black.

ACLA Guide Shoe, type HSMXL

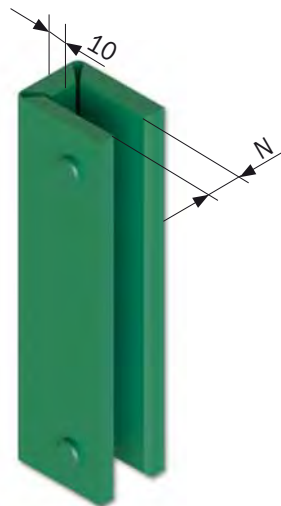
- installation height 355 mm
- guide shoe inserts for rail widths o 14 - 29 mm
- rail lubricators AK 2 and AK 10 are appropriate



The advantages of the ACLA guide shoe, type HSMXL

- special design for high load and rucksack lifts
- low weight by use of light metal alloy base
- excellent stability and durability
- minimum space occupied
- can be used in a variable way in combination with ACLA guide shoe inserts for rail widths from 14 to 29 mm
- easy to maintain in combination with ACLA guide shoe inserts and ACLA rail lubricators

art. no. 380 799



Appropriate ACLA rail lubricators for guide shoe HSMXL

(for detailed information on ACLA rail lubricators, please see page 31)



Rail lubricator AK 2
art. no. 90 323.10
 for rail widths from 5 to 16 mm
art. no. 90 323.11
 for rail widths from 19 to 24 mm
art. no. 90 323.12
 for rail widths from 28 to 30 mm

ACLA guide shoe HSMXL,
 mounted with lubricator AK 2
 and undamped guide shoe insert,
 type FSF with grooves
 (ACLAMID).



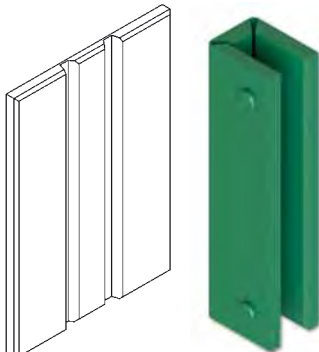
Rail lubricator AK 10
art. no. 90 021.10
 for rail widths from 5 to 20 mm

ACLA guide shoe HSMXL,
 mounted with lubricator AK 10
 and undamped guide shoe insert,
 type FSF with grooves
 (ACLASYN GR).

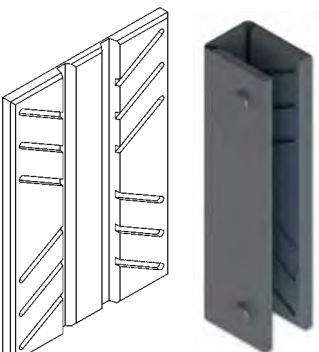
Appropriate guide shoe inserts for ACLA guide shoe HSMXL

- undamped -

hinged types



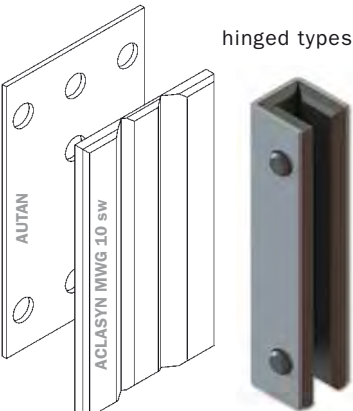
type
FSF plain



type
FSF with grooves

- damped -

hinged types



type
FSFG

article numbers for HSMXL guide shoe inserts HSMXL needs two guide shoe inserts each

insert type	material*	for rail width N				
		14 mm	16 mm	19 mm	24 mm	29 mm
undamped	FSF plain	ACLATHAN-KH				
		ACLAMID				
		ACLASYN GR		200 266.01		200 263.01
undamped	FSF with grooves	ACLASYN MWG 10 sw	200 037	200 300.04	200 267.01	
		ACLAMID				
damped	FSFG	ACLASYN GR	200 229.01			
		ACLASYN MWG 10 sw with cellular layer	200 297.06			

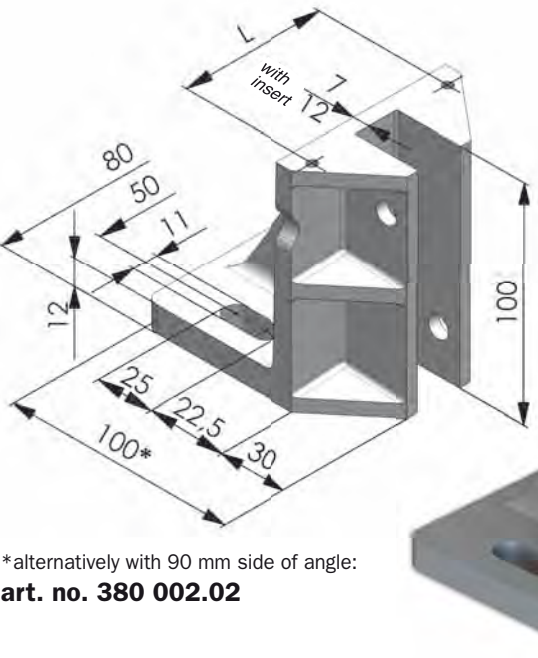
*Characteristics and description of ACLA materials, please see page 6.
 Information on colour differences of guide shoe insert materials:
 ACLATHAN = brown, ACLATHAN-KH = red, ACLAMID = green, ACLASYN GR = grey, ACLASYN MWG 10 (sw) = black.

ACLA Guide Shoes:
Appropriate solutions for any construction requirement



ACLA Angled Guide Shoe, type WSMK

- installation height 100 mm
- undamped and damped guide shoe inserts for rail widths of 5 - 10 mm
- rail lubricators AK 2, AK 4, AK 5 and AK 10 are appropriate



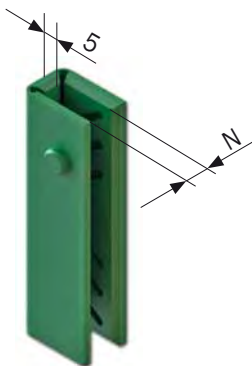
*alternatively with 90 mm side of angle:
art. no. 380 002.02

The advantages of the ACLA guide shoe, type WSMK

- functional design
- low weight by use of light metal alloy base
- excellent stability and durability
- minimum space occupied
- can be used in a variable way in combination with ACLA guide shoe inserts for different rail widths
- easy to maintain in combination with ACLA guide shoe inserts and ACLA rail lubricators

art. no. 380 208
 special manufacturing
 (L = 61,5 mm)

art. no. 380 002
 (L = 64 mm)



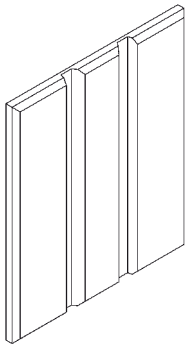
Appropriate guide shoe inserts for ACLA guide shoe WSMK - undamped -

U-profile type



type
FSU convex

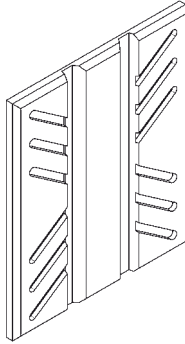
hinged types



type
FSF plain

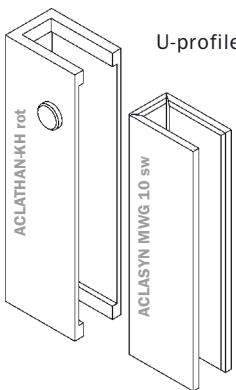


type
FSF with grooves



Appropriate guide shoe inserts for ACLA guide shoe WSMK - damped -

U-profile type

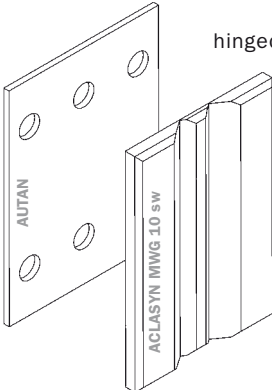


patent
 protected



type
FSUGG

hinged type

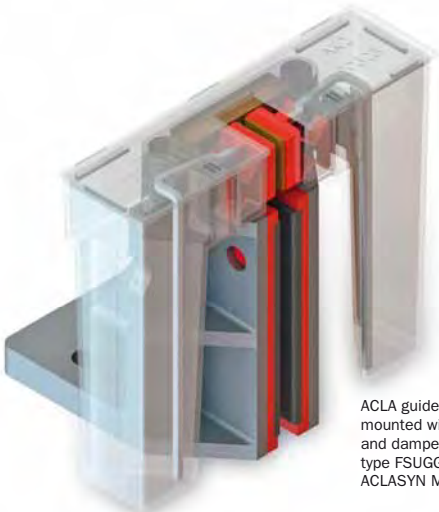


type
FSFG



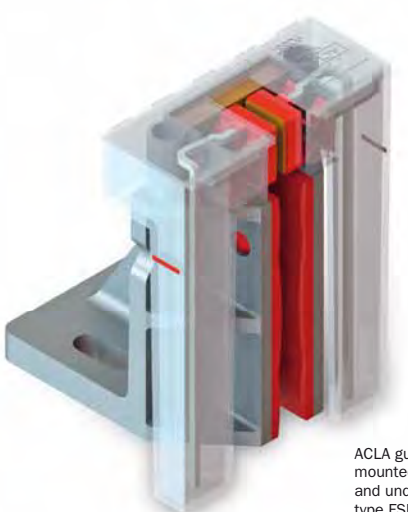
Appropriate ACLA rail lubricators for guide shoe WSMK

(for detailed information on ACLA rail lubricators, please see page 31)



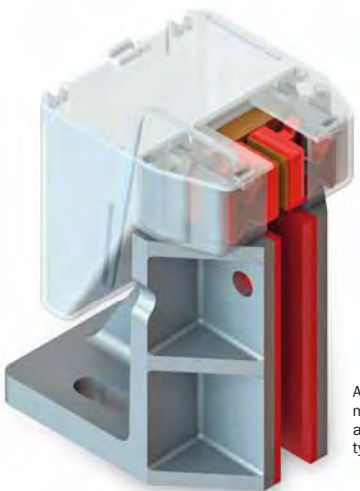
Rail lubricator AK 2
art. no. 90 323.10

ACLA guide shoe WSMK,
 mounted with lubricator AK 2
 and damped guide shoe insert
 type FSUGG (ACLATHAN-KH red/
 ACLASYN MWG 10 sw)



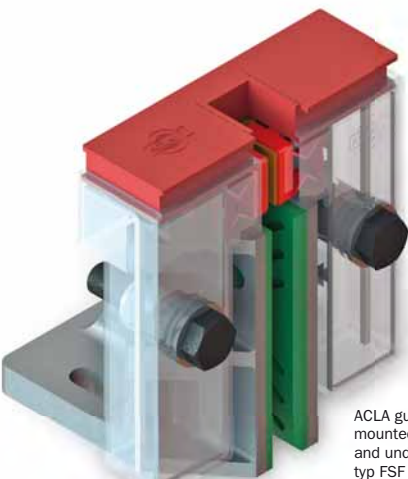
Rail lubricator AK 4
art. no. 90 337.11
 (for WSMK / art.no. 380 002)

ACLA guide shoe WSMK,
 mounted with lubricator AK 4
 and undamped guide shoe insert,
 type FSU convex (ACLATHAN)



Rail lubricator AK 5
art. no. 90 314.10
 (for WSMK / art.no. 380 002)

ACLA guide shoe WSMK,
 mounted with lubricator AK 5
 and undamped guide shoe insert,
 type FSF plain (ACLATHAN-KH)



Rail lubricator AK 10
art. no. 90 021.10

ACLA guide shoe WSMK,
 mounted with lubricator AK 10
 and undamped guide shoe insert,
 typ FSF with grooves (ACLAMID)

article numbers for WSMK guide shoe inserts

insert type	material*	for rail width N				
		5 mm	6 mm	8 mm	9 mm	10 mm
undamped	FSU convex	200 011			200 020	
	FSF plain	200 180	200 255	200 237	200 181	
	ACLASYN MWG 10 sw	200 286.04			200 290.04	200 307.04
	ACLAMID	200 245			200 247	
damped	FSF with grooves	200 246			200 248	
	ACLASYN MWG 10 sw	200 289.05			200 291.05	
	with cellular layer					
	FSUGG	200 289.06			200 291.06	
	ACLASYN MWG 10 sw					
	with ACLATHAN-KH layer					

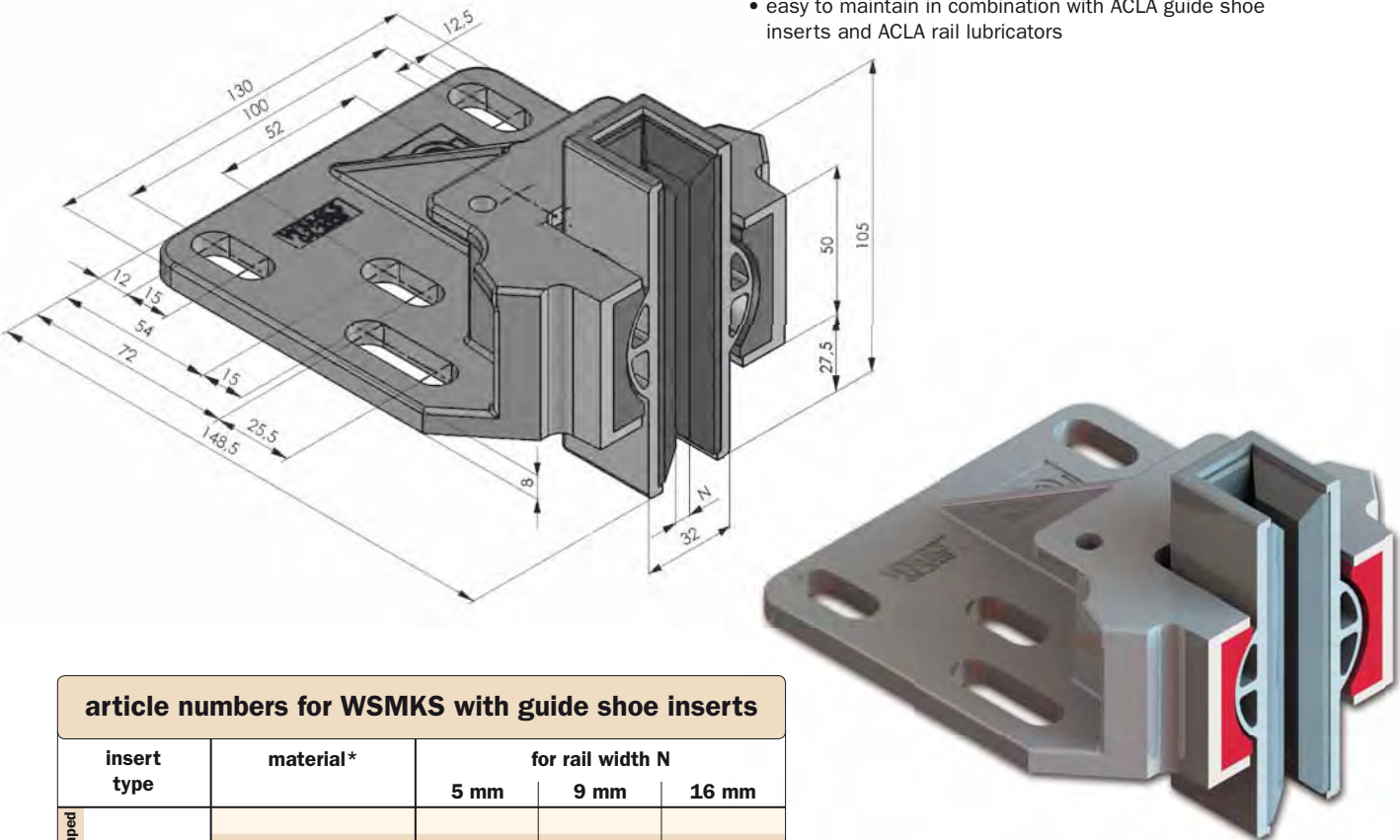
*Characteristics and description of ACLA materials, please see page 6. Information on colour differences of guide shoe insert materials: ACLATHAN = brown, ACLATHAN-KH = red, ACLAMID = green, ACLASYN GR = grey, ACLASYN MWG 10 (sw) = black.

ACLA Angled Guide Shoe, type WSMKS

- installation height 105 mm
- damped guide shoe
- guide shoe inserts for rail widths of 5, 9 and 16 mm
- rail lubricator AK 2 is appropriate

The advantages of the ACLA guide shoe, type WSMKS

- functional design
- low weight by use of light metal alloy base
- excellent stability and durability
- gedämpfte Ausführung durch hochelastische Zwischenlage
- minimum space occupied
- corrects angle errors
- easy to maintain in combination with ACLA guide shoe inserts and ACLA rail lubricators

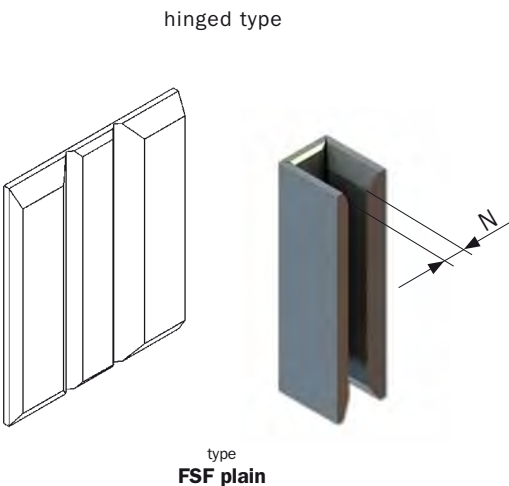


article numbers for WSMKS with guide shoe inserts

insert type	material*	for rail width N		
		5 mm	9 mm	16 mm
undamped FSF glatt	ACLASYN MWG 10 sw	380 843.06	380 838.06	380 839.06

*Characteristics and description of ACLA materials, please see page 6

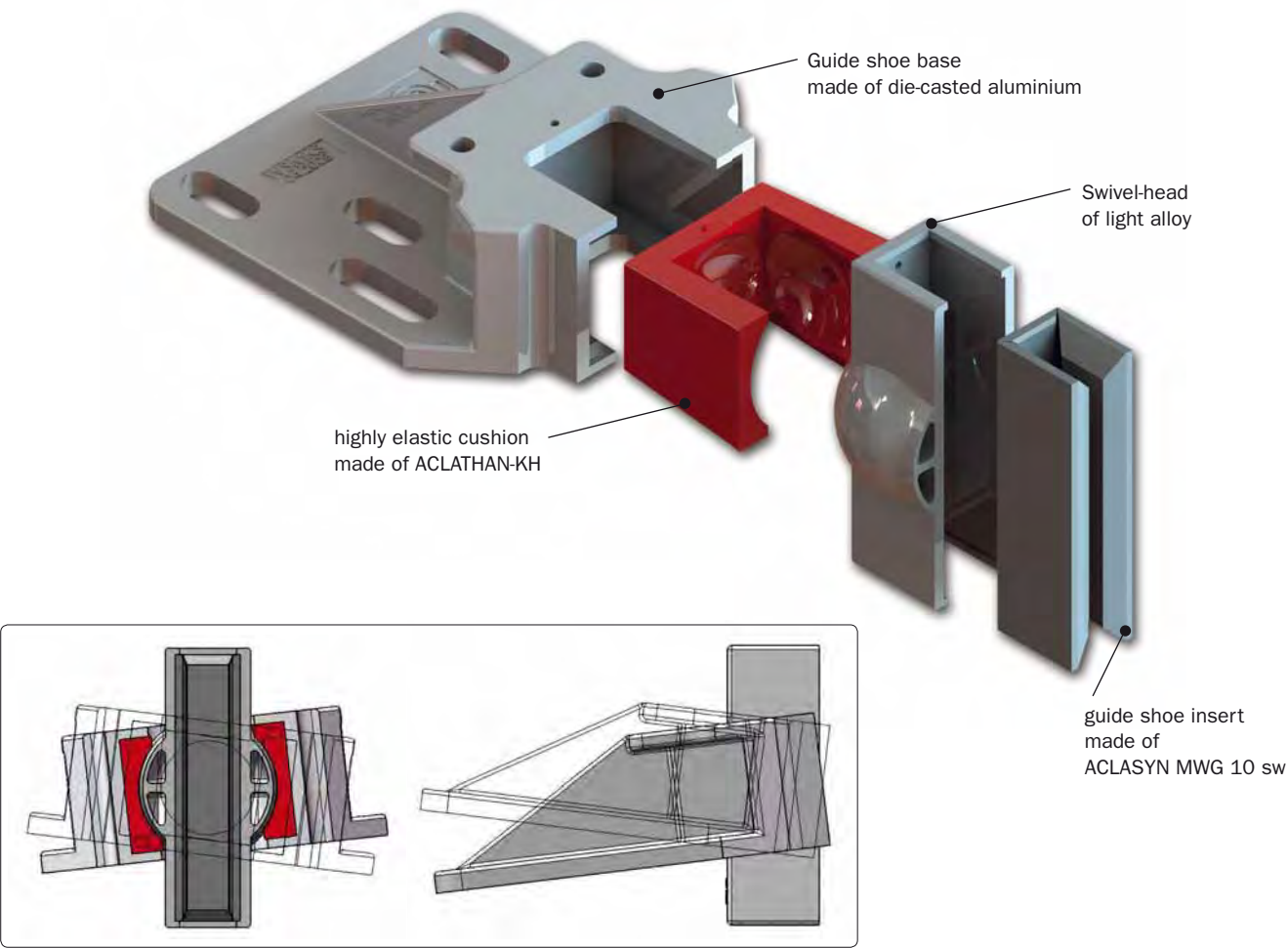
Appropriate guide shoe inserts for ACLA guide shoe WSMKS - undamped -



article numbers for WSMKS guide shoe inserts

insert type	material*	for rail width N		
		5 mm	9 mm	16 mm
undamped FSF plain	ACLASYN MWG 10 sw	200 375.04	200 369.04	200 370.04

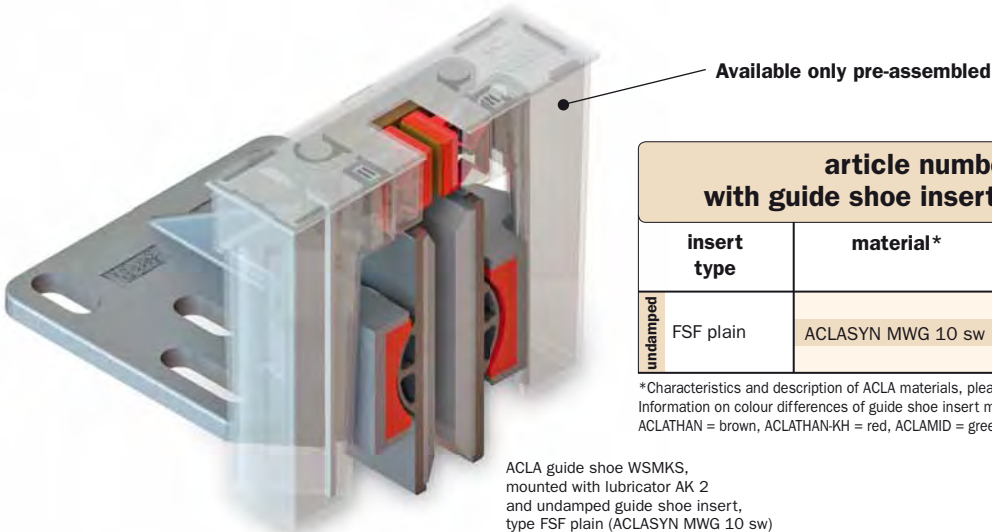
Setting and functional principle of ALCA guide shoe, type WSMKS



The well-conceived construction of ACLA guide shoes WSMKS allows to correct horizontal and vertical angle errors.

Appropriate ACLA rail lubricators for guide shoe WSMKS

(for detailed information on ACLA rail lubricators, please see page 31)



Available only pre-assembled

article numbers for WSMKS with guide shoe insert and rail lubricator AK 2

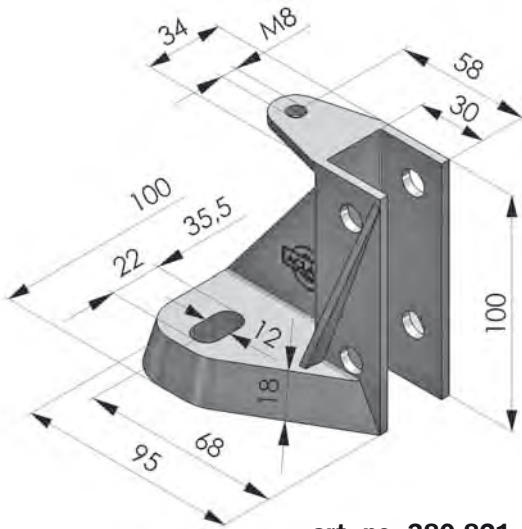
insert type	material*	for rail width N		
		5 mm	9 mm	16 mm
undamped FSF plain	ACLASYN MWG 10 sw	380 843.01	380 838.01	380 839.01

*Characteristics and description of ACLA materials, please see page 6.
Information on colour differences of guide shoe insert materials:
ACLATHAN = brown, ACLATHAN-KH = red, ACLAMID = green, ACLASYN GR = grey, ACLASYN MWG 10 (sw) = black.

ACLA guide shoe WSMKS, mounted with lubricator AK 2 and undamped guide shoe insert, type FSF plain (ACLASYN MWG 10 sw)

ACLA Angled Guide Shoe, type WSMKW

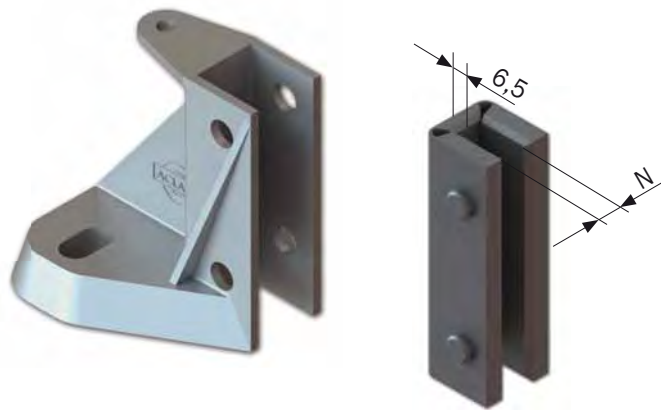
- installation height 100 mm
- undamped guide shoe inserts for rail widths from 5 to 16 mm



art. no. 380 821

The advantages of the ACLA guide shoe, type WSMKW

- functional design
- low weight by use of light metal alloy base
- excellent stability and durability
- minimum space occupied
- can be used in a variable way in combination with ACLA guide shoe inserts for different rail widths
- easy to maintain in combination with ACLA guide shoe inserts



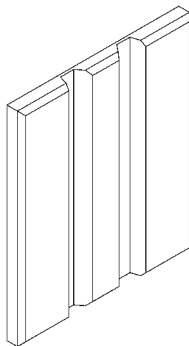
Appropriate guide shoe insert for ACLA guide shoe WSMKW - undamped -

U-profile type

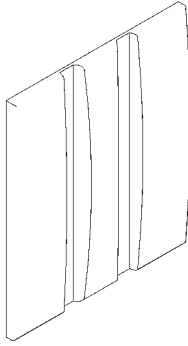


type
FSU convex

hinged types



type
FSF plain



type
FSF convex

article numbers for WSMKW guide shoe inserts

insert type	material*	for rail width N						
		5 mm	6 mm	8 mm	9 mm	10 mm	14 mm	16 mm
undamped	FSU convex	200 125						
	FSF plain	200 213						
	FSF plain					200 308.04		200 309.04
	FSF convex		200 212	200 211	200 233	200 210	200 236	200 209

*Characteristics and description of ACLA materials, please see page 6. Information on colour differences of guide shoe insert materials: ACLATHAN = brown, ACLATHAN-KH = red, ACLAMID = green, ACLASYN GR = grey, ACLASYN MWG 10 (sw) = black.

Complete guide shoe WSMKW with guide shoe insert, type FSF plain

rail width N	article no.
10 mm	380 840
16 mm	380 841



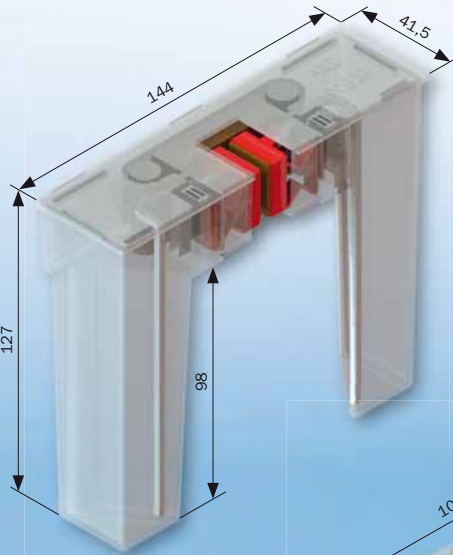
Notice:
No ACLA lubricator is available for this Angled Guide Shoe.

ACLA Rail Lubricators overview

NEW TYPES
- improved felt jaws
- lower oil consumption

Advantages of the ACLA rail lubricators

- all-purpose usable for all popular rail widths by selfadjusting felt jaws
- constant feed of lubricant by capillary action of selected felt and wick quality
- low oil consumption
- can be filled from both sides/ from the top
- friendly to the environment since dripping oil in the shaft base is avoided
- minimum space occupied in combination with ACLA guide shoes
- low weight
- easy and fast mounting on the ACLA guide shoes
- good accessibility to the oil tank by means of the hinged cover
- easy oil level check on account of the transparent body
- no additional maintenance



Rail Lubricator AK 2

- for rail widths up to 30 mm
- max. filling level = 80 ml
- weight approx. 100 g

art. no. 90 323.10

(for rail widths up to 16 mm/fixation with tapping screw Ø5 x 16 mm)

art. no. 90 323.13

(for rail widths up to 16 mm/fixation M6 x 10 mm)

art. no. 90 323.15

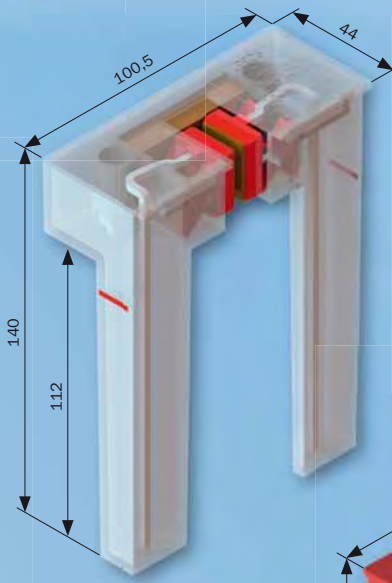
(for rail widths up to 16 mm/fixation M5 x 16 mm)

art. no. 90 323.11

(for rail widths from 19 to 24 mm/fixation with tapping screw Ø5 x 16 mm)

art. no. 90 323.12

(for rail widths from 28 to 30 mm/fixation with tapping screw Ø5 x 16 mm)

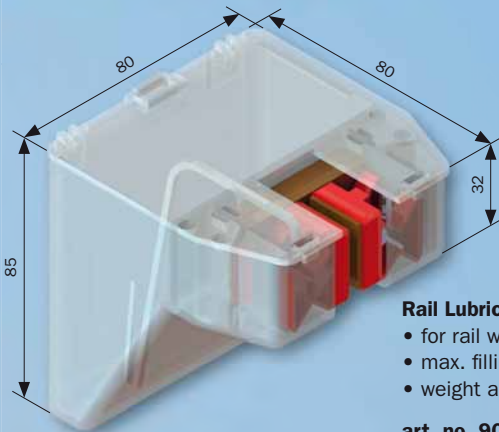


Rail Lubricator AK 4

- for rail widths from 9 to 16 mm
- max. filling level = 40 ml
- weight approx. 90 g

art. no. 90 337.10

(fixation M5 x 6 mm)



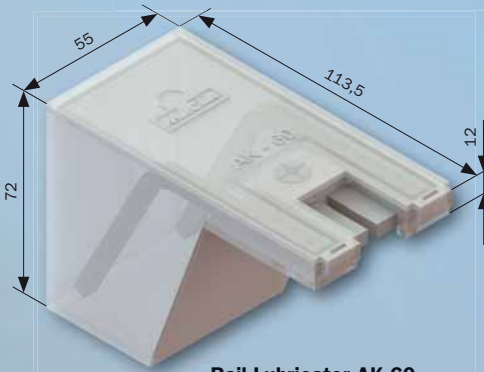
Rail Lubricator AK 5

- for rail widths up to 20 mm
- max. filling level = 100 ml
- weight approx. 100 g

art. no. 90 314.10

art. no. 90 314.11

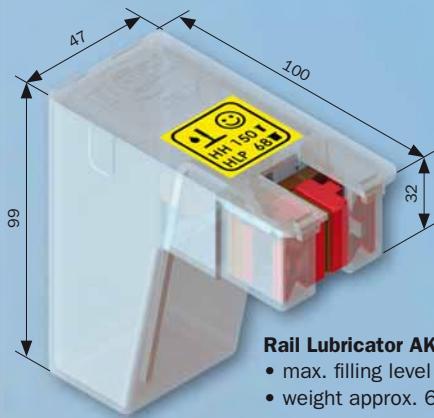
incl. E2433621/tapping screw Ø5 x 16 mm



Rail Lubricator AK 60

art. no. 90 335

- for rail widths from 5 to 16 mm
- max. filling level = 100 ml
- weight approx. 75 g



Rail Lubricator AK 1

- max. filling level = 140 ml
- weight approx. 60 g

art. no. 90 327.11

(for rail widths from 5 to 10 mm)

art. no. 90 327.04

(for rail width 16 mm)

Rail Lubricator AK 10

art. no. 90 021.10

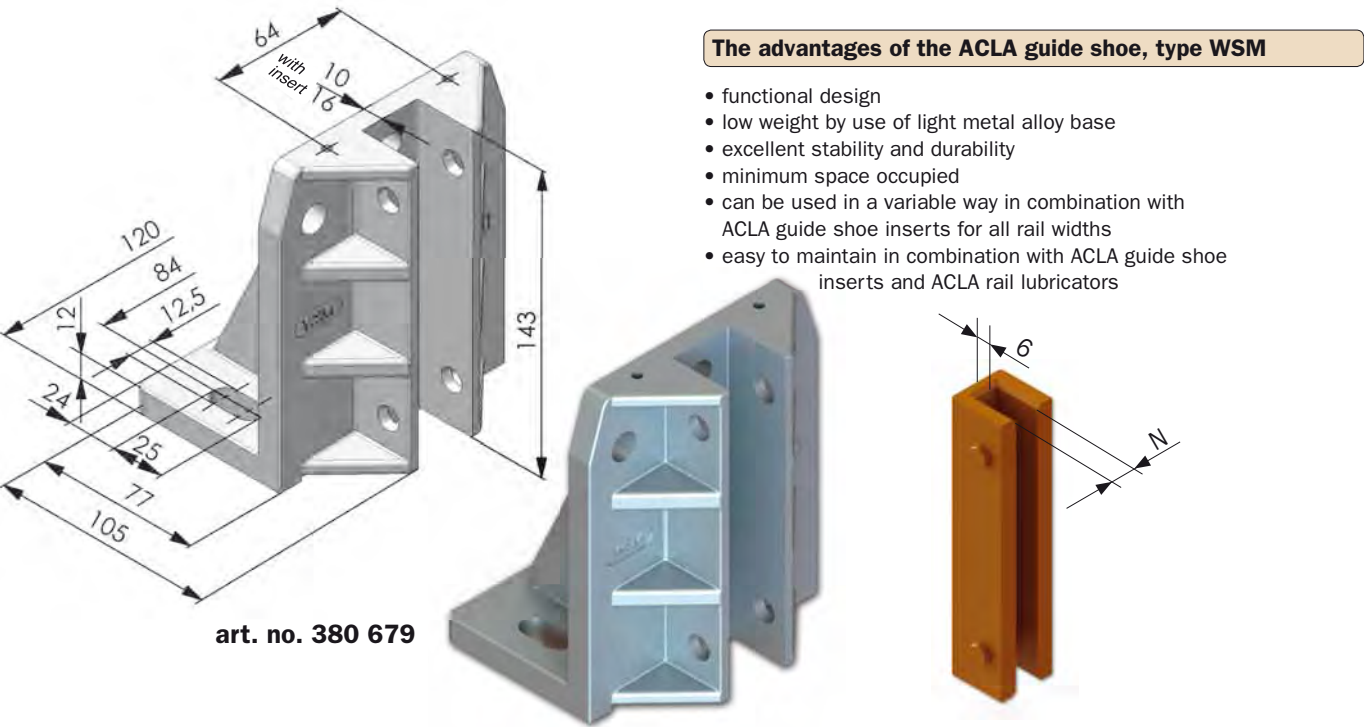
- for rail widths up to 20 mm
- max. filling level = 110 ml
- weight approx. 175 g

Recommended lubricants:

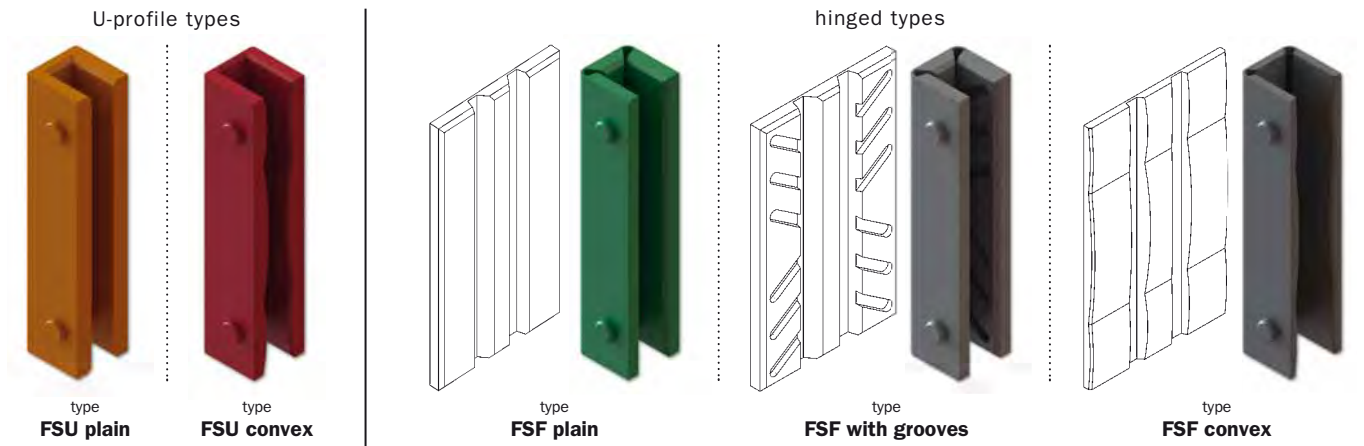
Gear or machine oil.
Kinematical viscosity
60 - 80 mm²/s, 40°C
corresponding to
ISO VG 68

ACLA Angled Guide Shoe, type WSM

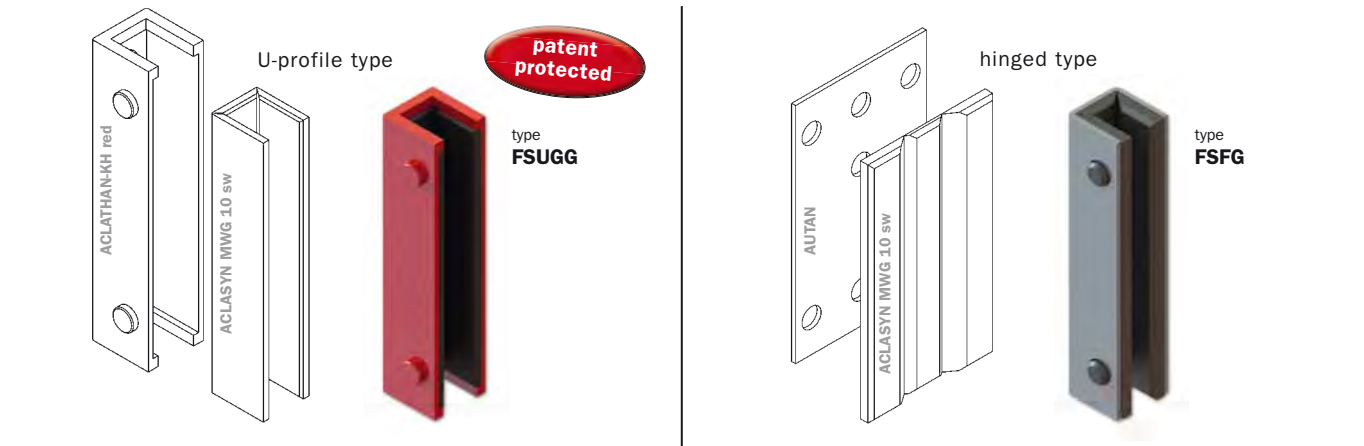
- installation height 143 mm
- undamped and damped guide shoe inserts for rail widths of 5 - 20 mm
- rail lubricators AK 2, AK 5 and AK 10 are appropriate



Appropriate guide shoe inserts for ACLA guide shoe WSM - undamped -

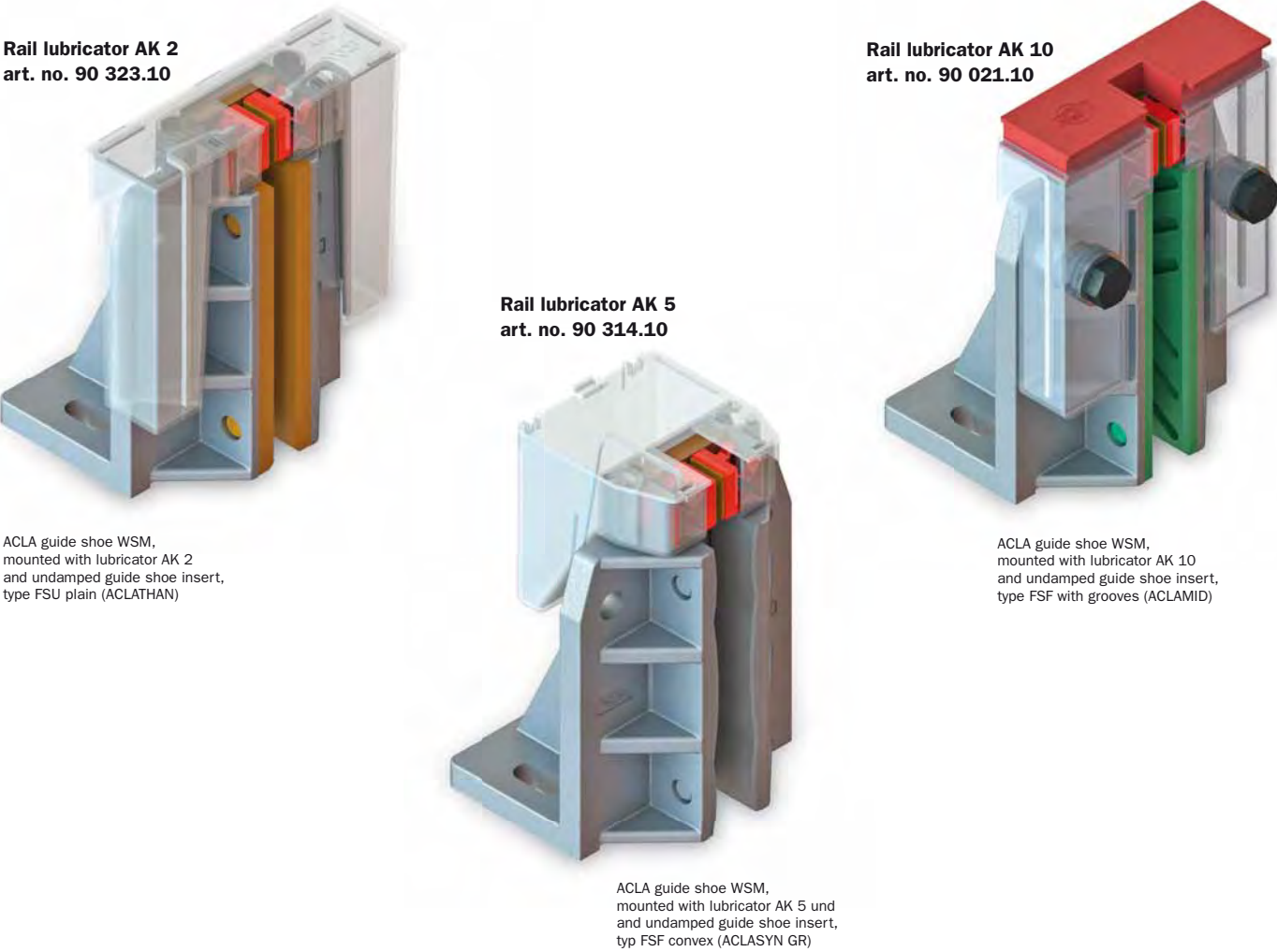


Appropriate guide shoe inserts for ACLA guide shoe WSM - damped -



Appropriate ACLA rail lubricators for guide shoe WSM

(for detailed information on ACLA rail lubricators, please see page 31)



article numbers for WSM guide shoe inserts

	insert type	material*	for rail width N									
			5 mm	6 mm	8 mm	9 mm	10 mm	12 mm	14 mm	15 mm	16 mm	19 mm
undamped	FSU plain	ACLATHAN-KH		200 003				200 006				
	FSU convex	ACLATHAN-KH		200 012		200 013		200 014	200 015			
	FSF plain	ACLATHAN-KH	200 182			200 169	200 005		200 168	200 235	200 166	
		ACLAMID	200 176									
		ACLASYN GR	200 230							200 260		200 321
		ACLASYN MWG 10 sw				200 292.04	200 284.04		200 294.04		200 285.04	200 298.04
	FSF with grooves	ACLATHAN-KH			200 018							
		ACLAMID				200 225			200 206		200 208	
		ACLASYN GR				200 228	200 251		200 204		200 226	
	FSF convex	ACLATHAN-KH					200 288				200 016	
ACLASYN GR						200 305				200 227		
damped	FSFG	ACLASYN MWG 10 sw with cellular layer				200 306.05	200 293.05				200 296.05	
	FSUGG	ACLASYN MWG 10 sw with ACLATHAN-KH layer				200 306.06	200 293.06		200 295.06		200 296.06	

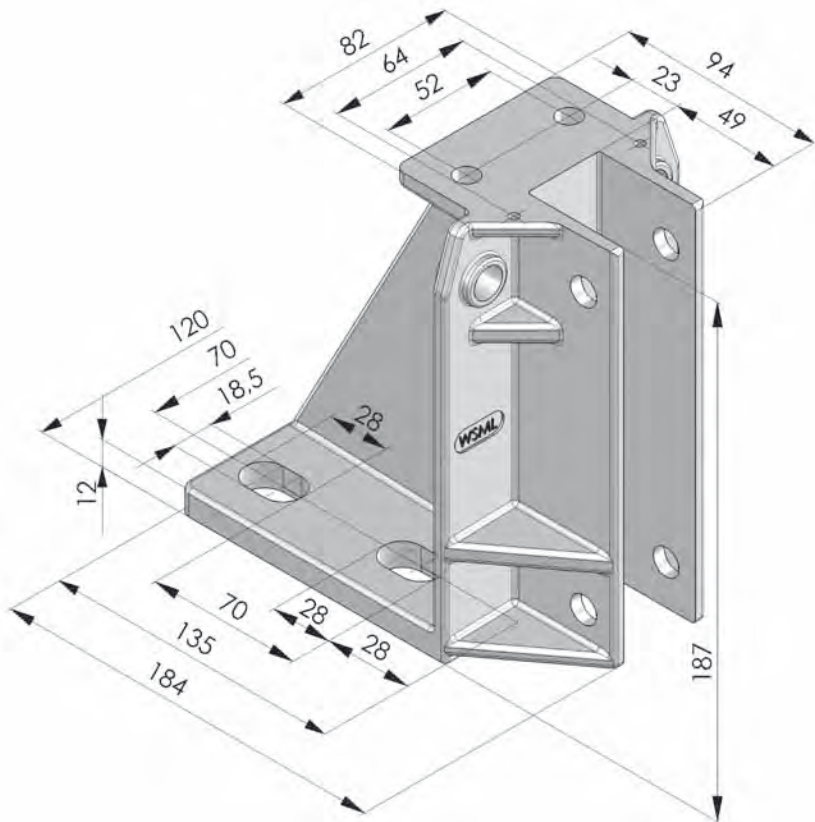
*Characteristics and description of ACLA materials, please see page 6. Information on colour differences of guide shoe insert materials: ACLATHAN = brown, ACLATHAN-KH = red, ACLAMID = green, ACLASYN GR = grey, ACLASYN MWG 10 (sw) = black.

ACLA Angled Guide Shoe, type WSML

- installation height 187 mm
- guide shoe inserts for rail widths of 14 - 29 mm
- rail lubricators AK 2 and AK 10 are appropriate

The advantages of the ACLA guide shoe, type WSML

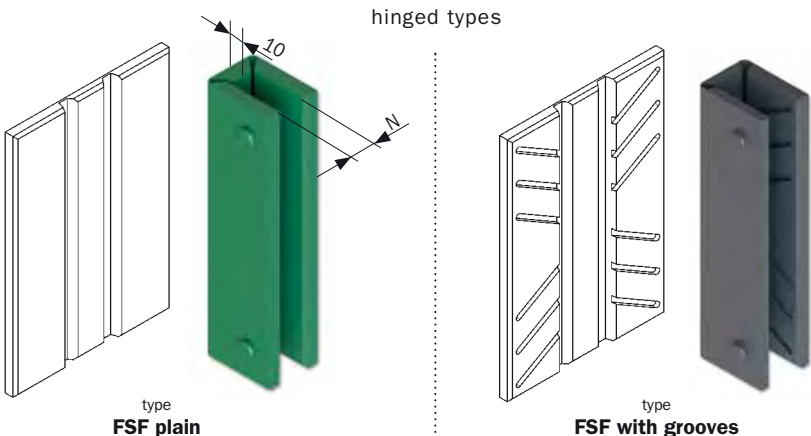
- functional design
- low weight by use of light metal alloy base
- excellent stability and durability
- minimum space occupied
- can be used in a variable way in combination with ACLA guide shoe inserts for rail widths from 14 to 29 mm
- easy to maintain in combination with ACLA guide shoe inserts and ACLA rail lubricators



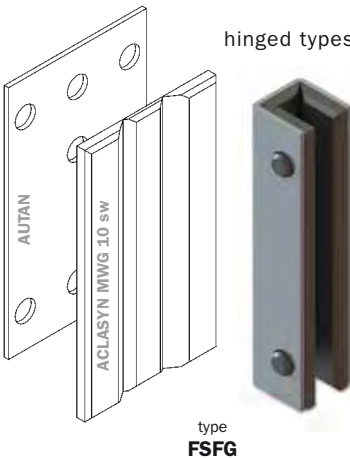
art. no 380 565

Appropriate guide shoe inserts for ACLA guide shoe WSML

- undamped -



- damped -



Appropriate ACLA rail lubricators for guide shoe WSML

(for detailed information on ACLA rail lubricators, please see page 31)

Rail lubricator AK 2

art. no. 90 323.10
for rail widths from 5 to 16 mm

art. no. 90 323.11
for rail widths from 19 to 24 mm

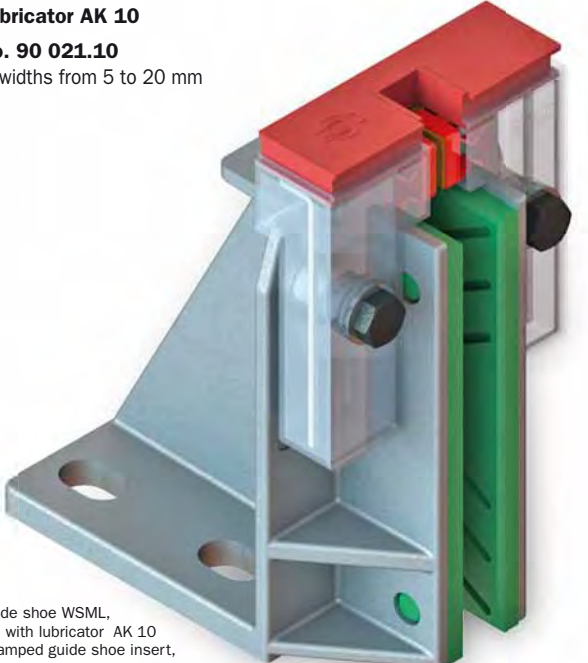
art. no. 90 323.12
for rail widths from 28 to 30 mm



ACLA guide shoe WSML, mounted with lubricator AK 2 and undamped guide shoe insert, type FSF with grooves (ACLASYN GR).

Rail lubricator AK 10

art. no. 90 021.10
for rail widths from 5 to 20 mm



ACLA guide shoe WSML, mounted with lubricator AK 10 and undamped guide shoe insert, type FSF with grooves (ACLAMID).

article numbers for WSML guide shoe inserts

insert type	material*	for rail width N				
		14 mm	16 mm	19 mm	24 mm	29 mm
undamped	FSF plain	ACLATHAN-KH	200 198	200 171		
		ACLAMID	200 195			200 242
		ACLASYN GR	200 238			200 263
		ACLASYN MWG 10 sw		200 297.04	200 299.04	200 267.01
undamped	FSF with grooves	ACLAMID		200 207		
		ACLASYN GR		200 229	200 266	
damped	FSFG	ACLASYN MWG 10 sw with cellular layer		200 297.06		

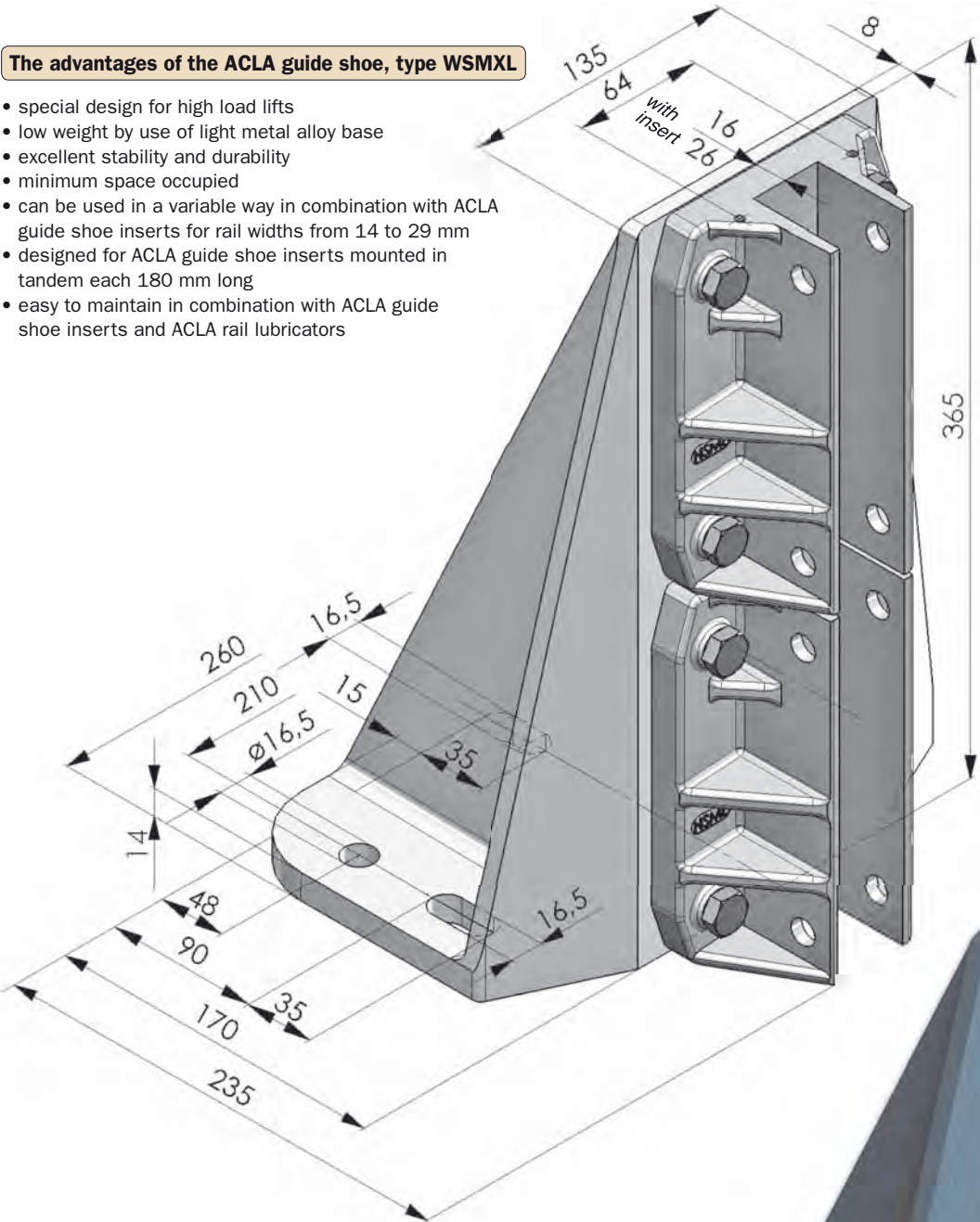
*Characteristics and description of ACLA materials, please see page 6. Information on colour differences of guide shoe insert materials: ACLATHAN = brown, ACLATHAN-KH = red, ACLAMID = green, ACLASYN GR = grey, ACLASYN MWG 10 (sw) = black.

ACLA Angled Guide Shoe, type WSMXL

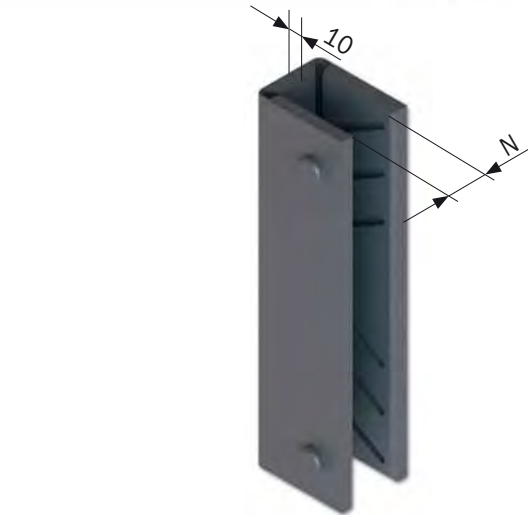
- installation height 365 mm
- guide shoe inserts for rail widths of 14 - 29 mm
- rail lubricators AK 2 and AK 10 are appropriate

The advantages of the ACLA guide shoe, type WSMXL

- special design for high load lifts
- low weight by use of light metal alloy base
- excellent stability and durability
- minimum space occupied
- can be used in a variable way in combination with ACLA guide shoe inserts for rail widths from 14 to 29 mm
- designed for ACLA guide shoe inserts mounted in tandem each 180 mm long
- easy to maintain in combination with ACLA guide shoe inserts and ACLA rail lubricators



art. no. 380 800



Appropriate ACLA rail lubricators for guide shoe WSMXL

(for detailed information on ACLA rail lubricators, please see page 31)

Rail lubricator AK 10
art. no. 90 021.10
for rail widths from 5 to 20 mm

Rail lubricator AK 2
art. no. 90 323.10
for rail widths from 5 to 16 mm
art. no. 90 323.11
for rail widths from 19 to 24 mm
art. no. 90 323.12
for rail widths from 28 to 30 mm



ACLA guide shoe WSMXL,
mounted with lubricator AK 2
and undamped guide shoe insert,
type FSF with grooves
(ACLATHAN-KH).



ACLA guide shoe WSMXL,
mounted with lubricator AK 10
and undamped guide shoe insert,
type FSF with grooves
(ACLAMID).

article numbers for WSMXL guide shoe insert

WSMXL needs two guide shoe inserts each

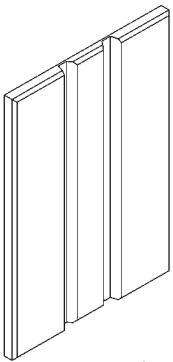
insert type	material*	for rail width N				
		14 mm	16 mm	19 mm	24 mm	29 mm
undamped	FSF plain	ACLATHAN-KH 200 198	200 171			200 242
		ACLAMID 200 195				200 263
		ACLASYN GR 200 238				
		ACLASYN MWG 10 sw	200 297.04	200 299.04	200 267.01	
undamped	FSF with grooves	ACLAMID	200 207			
		ACLASYN GR	200 229	200 266		
damped	FSFG	ACLASYN MWG 10 sw with cellular layer	200 297.06			

*Characteristics and description of ACLA materials, please see page 6. Information on colour differences of guide shoe insert materials: ACLATHAN = brown, ACLATHAN-KH = red, ACLAMID = green, ACLASYN GR = grey, ACLASYN MWG 10 (sw) = black.

Appropriate guide shoe inserts for ACLA guide shoe WSMXL

- undamped -

hinged types



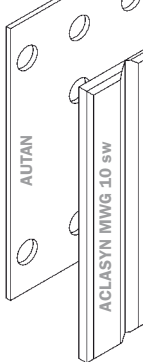
type
FSF plain



type
FSF with grooves

- damped -

hinged types

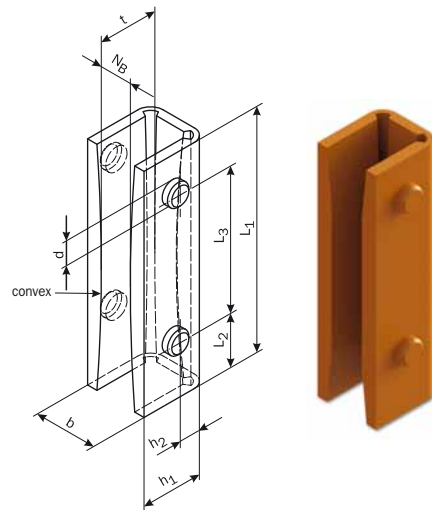


type
FSFG

Guide Shoe Inserts “Special Profiles” of ACLATHAN® /ACLATHAN®-KH

- for installation height from 45 mm up to 260 mm as U-profile and hinged types available
- complementary program for a wide range of guide shoes in use in elevator industry
- for rail widths from 5 mm to 21 mm

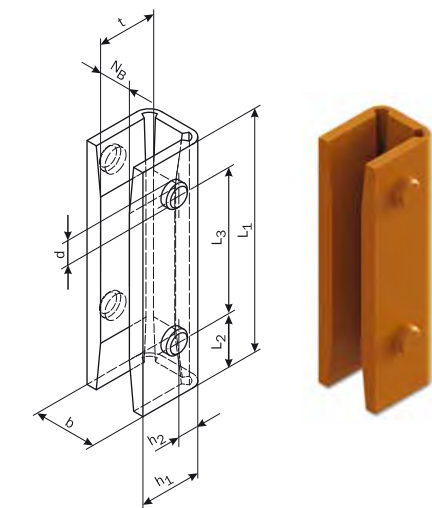
Profile 1 (hinged type/U-profile)



for nominal rail width “N”	art. no.	L ₁	b	N/N _B	h ₁	h ₂	t	L ₂	L ₃	d
5 mm	200 125	100	26,5	5,3	30	16	25	25	60	10
6 mm *)	200 212	100	26,5	6,3	30	16	25	25	60	10
8 mm *)	200 211	100	26,5	8,3	30	16	25	25	60	10
9 mm *)	200 233	100	26,5	9,3	30	16	25	25	60	10
10 mm *)	200 210	100	26,5	10,4	30	16	25	25	60	10
14 mm *)	200 236	100	26,5	14,3	30	16	25	25	60	10
16 mm *)	200 209	100	26,5	16,3	30	16	25	25	60	10
6 mm	200 133	110	29	6	26	16	20	13	84	9
8 mm	200 132	110	29	8,3	26	16	20	13	84	9
10 mm	200 193	110	29	10,4	26	16	20	13	84	9
12 mm	200 134	110	29	12,3	26	16	20	13	84	9
10 mm	200 144	150	23	10,6	35	18	29	25	100	10
13 mm	200 135	150	23	13,6	35	18	29	25	100	10
16 mm	200 191	150	30	16,6	35	18	29	25	100	10

*) = hinged executions; all other profiles = U-profile

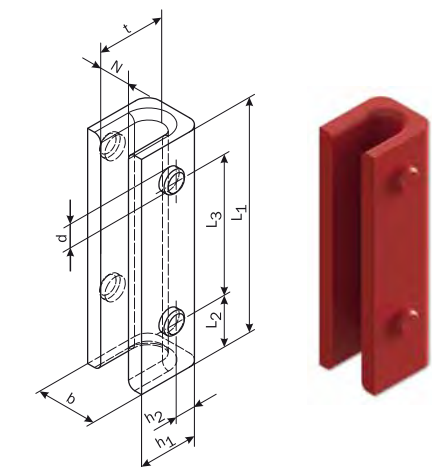
Profile 2 (hinged type/U-profile)



for nominal rail width “N”	art. no.	L ₁	b	N/N _B	h ₁	h ₂	t	L ₂	L ₃	d
5 mm *)	200 213	100	26,5	5,6	30	16	25	25	60	10
6 mm *)	200 148	100	23	6,6	35	18	29	15	70	10
10 mm *)	200 128	100	23	10,6	35	18	30	15	70	10
14 mm *)	200 391	150	23	14,6	35	18	30	25	100	10
16 mm	200 141	150	30	16,6	45	25	39	25	100	10

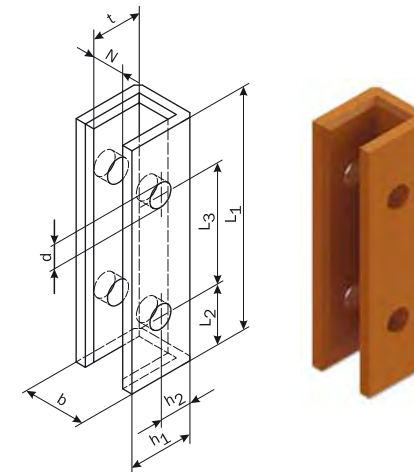
*) = hinged executions; all other profiles = U-profile

Profile 3 (U-profile)



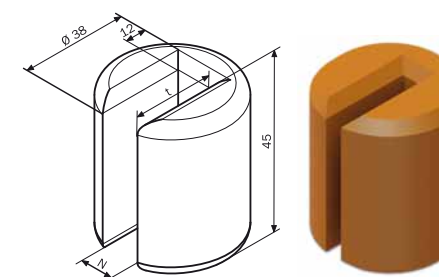
for nominal rail width “N”	art. no.	L ₁	b	N/N _B	h ₁	h ₂	t	L ₂	L ₃	d
9 mm	200 118	100	23	9,6	35	18	29	15	70	10

Profile 4 (U-profile)



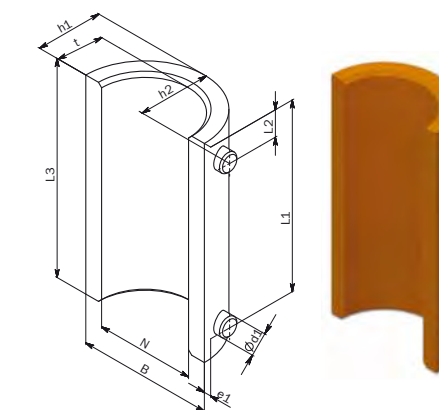
for nominal rail width “N”	art. no.	L ₁	b	N/N _B	h ₁	h ₂	t	L ₂	L ₃	d
5 mm	200 114	146	29	5,7	26	16	20	31	84	9,1
9 mm	200 119	146	29	9,1	26	16	20	31	84	9,1
10 mm	200 120	146	29	10,1	26	16	20	31	84	9,1
14 mm	200 264	146	29	14,1	26	16	20	31	84	9,1
16 mm	200 139	146	29	16,1	26	16	20	31	84	9,1
10 mm	200 110	176	29	10,2	26	16	20	46	84	9,1
16 mm	200 122	176	29	16,1	26	16	20	46	84	9,1
14 mm	200 174	216	29	14,1	26	16	20	43	130	9,1
16 mm	200 112	216	29	16,1	26	16	20	43	130	9,1
16 mm	200 136	260	29	16,1	35	21	30	45	170	9,1

Profile 6 (guide shoe insert, round)



for nominal rail width “N”	art. no.	L ₁	Ø	N	t
5 mm	200 252	45	38	5	26
9 mm	200 183	45	38	9	26
16 mm	200 186	45	38	16	26

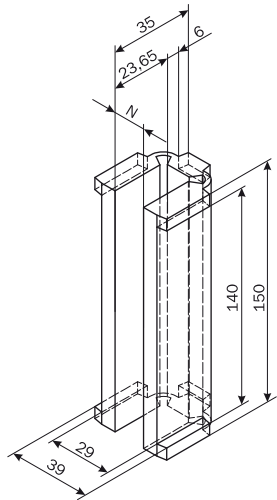
Profile 7 (guide shoe insert, round)



for nominal rail width “N”	art. no.	L ₁	L ₂	L ₃	d ₁	e ₁	h ₁	h ₂	b	N/N _B	t
Ø 30 mm	200 348	95	15	120	10	4	21	11	42	30	15
Ø 45 mm	200 349	105	15	120	11	4	30	18	60	45	22,5
Ø 50 mm	200 350	105	15	120	11	4	30	18	60	50	25
Ø 55 mm	200 351	105	15	120	11	4	37,5	25,5	75	55	27,5
Ø 60 mm	200 352	105	15	120	11	4	37,5	25,5	75	60	30

Guide Shoe Inserts “Special Profiles”, Sliding Inserts and Rail Guides of ACLATHAN®, ACLASYN® MWG 10 sw, ACLASYN® GR and ACLAMID®

Guide shoe insert (hinged type/U-profile)



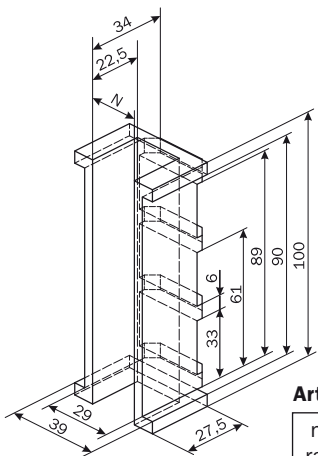
material:
ACLATHAN



Article list

nominal rail width "N"	N [mm]	art. no.
8 mm	8,5	200 278
9 mm	9,5	200 279
10 mm	10,5	200 280
12 mm	12,5	200 281
14 mm	14,5	200 282
16 mm	16,5	200 283

Guide shoe insert (U-profile)



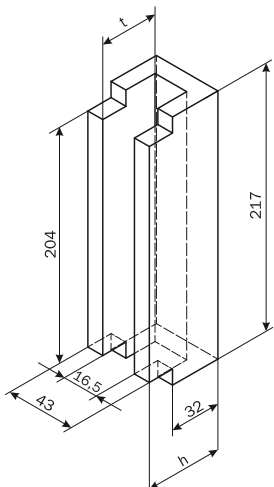
material:
ACLATHAN KH black



Article list

nominal rail width "N"	N [mm]	ref.-no.	art. no.
6 mm	6	T0 380 Y1	200 273
10 mm	10	T0 380 Y2	200 274
16 mm	16	T0 380 Y3	200 275
21 mm	21	T0 380 Y4	200 276

Guide shoe insert (U-profile)



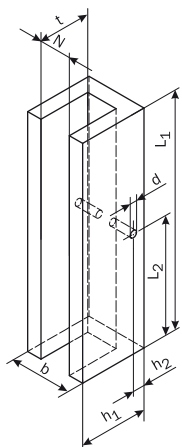
material:
ACLASYN MWG 10 sw



Article list

h [mm]	t [mm]	art. no.
61	56	400 316
38	33	400 317

Guide shoe insert (U-profile)



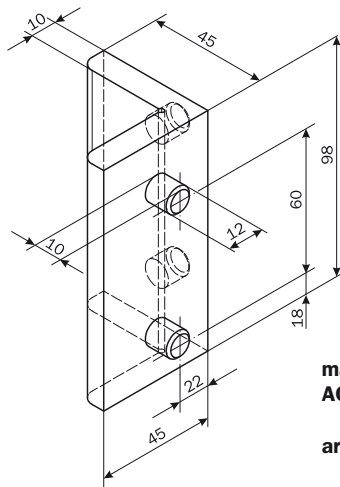
material:
ACLATHAN



Article list

nominal rail width "N"	N [mm]	art. no.	L ₁	L ₂	b	h ₁	h ₂	t	d
5 mm	5,5	200 106	60,5	30	19	22	12	16	6,5
7 mm	7,5	200 231	60,5	30	19	22	12	16	6,5
11 mm	11,2	400 314	127		28	28,6		22,6	
16 mm	16,2	400 313	127		28	28,6		22,6	
9 mm	9,2	200 303	140	70	29	30	3	24	3
16 mm	16,5	200 304	140	70	29	30	3	24	3

Guide shoe insert (angled profile)

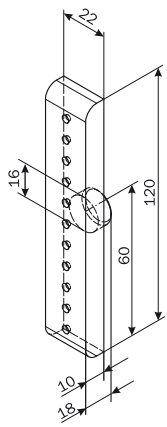


material:
ACLATHAN

art. no. 200 113



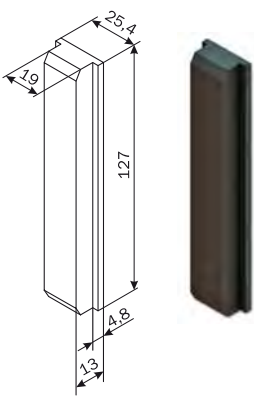
Sliding insert



material: ACLATHAN
art. no. 200 277



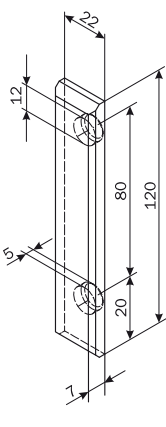
Sliding insert



material: ACLASYN MWG 10 sw
art. no. 200 311



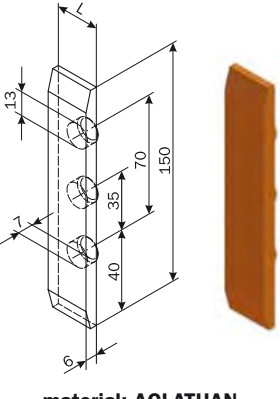
Sliding insert



material: ACLASYN GR
art. no. 200 312



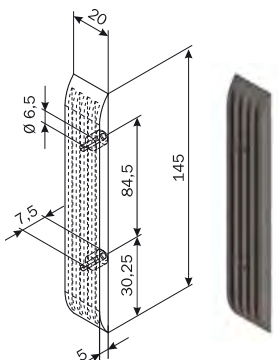
Sliding insert



material: ACLATHAN
art. no. 200 313 (L = 19 mm)
art. no. 200 315 (L = 30 mm)



Sliding insert

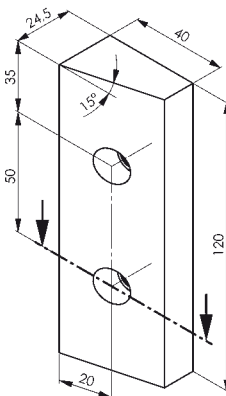


material: ACLASYN GR
art. no. 200 314

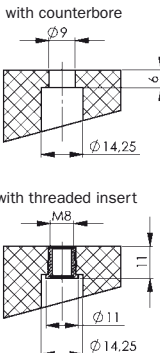


Rail guides

The ACLA rail guide's application is as a gliding element. By means of the slope the distance to the rail can be adjusted. According to different requirements of application the rail guide is available in 3 different materials.



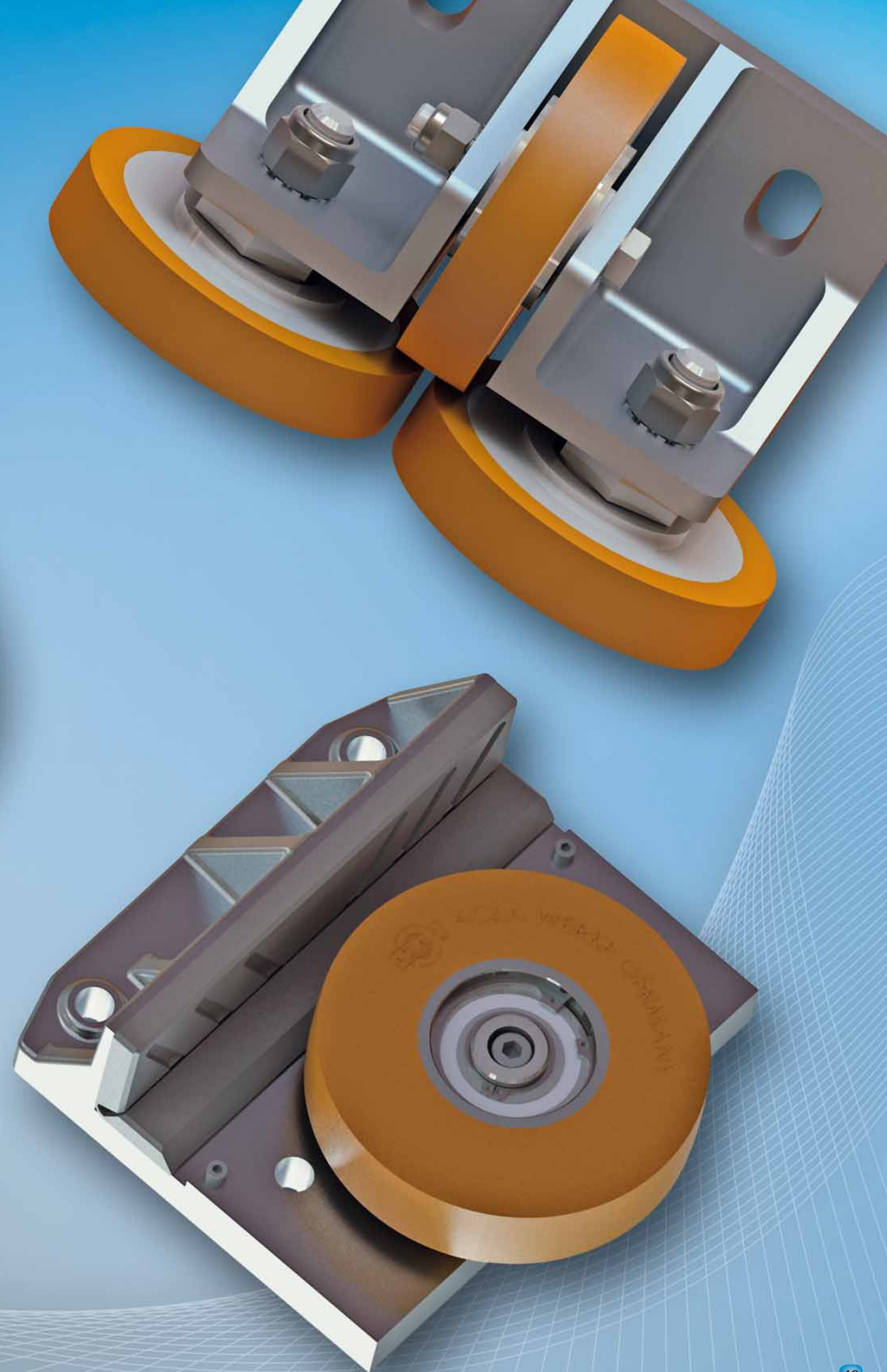
Sectional view



articles / material	ACLASYN GR	ACLAMID	ACLATHAN
with counterbore for M8 hexagon bolt	art.no. 90 321	art.no. 90 313	art.no. 193 543
with M8 threaded insert	art.no. 90 321.02	art.no. 90 313.01	

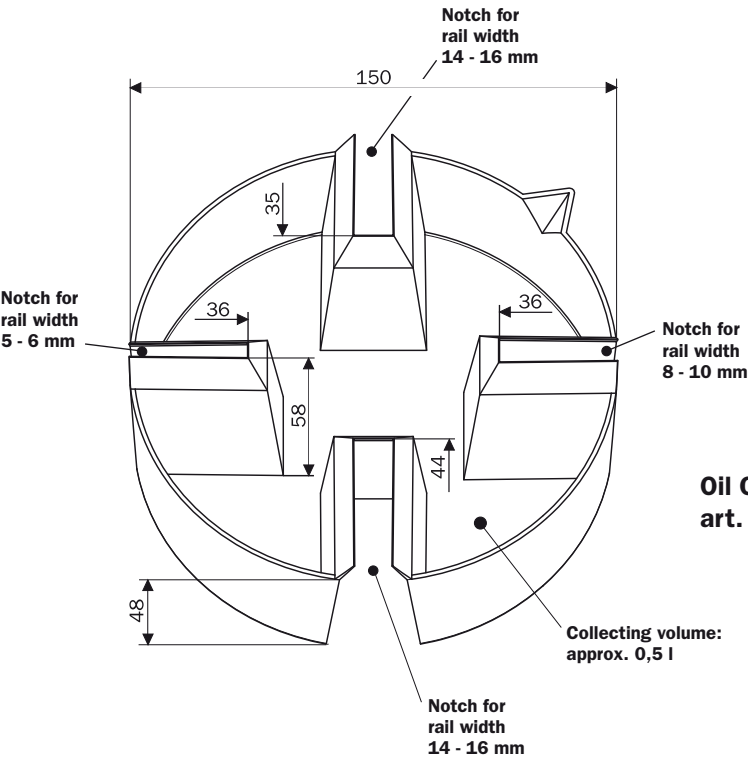
ACLA roller guides: well conceived construction to the detail

Detailed information on our ACLA roller guide program can be found
in our separate brochure „Roller Guides for Lift Engineering“



Oil Collector “Universal”

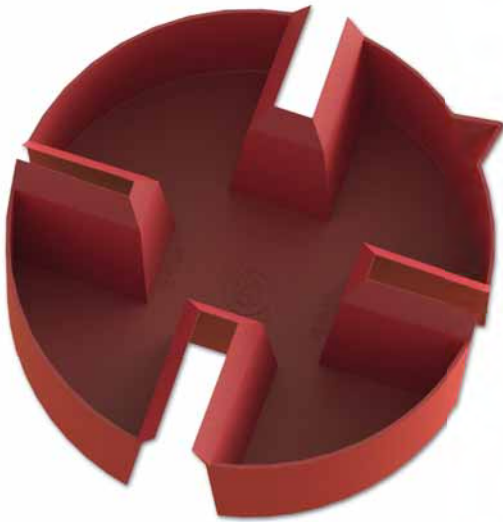
- for rail widths up to 16 mm
- simple assembly without tools



Oil Collector
art. no. 70 369.01

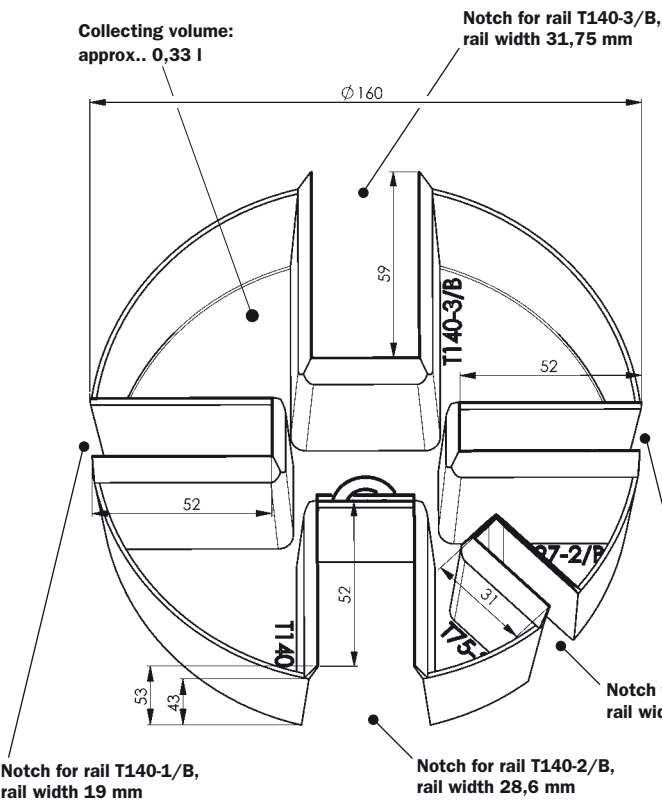
The advantages of the ACLA Oil Collector “Universal”

- The Oil Collector is made of an oil and fracture resistant material with high thermal stability
- Fast assembly and emptying without any tools or other auxiliary means



Oil Collector „Variable“

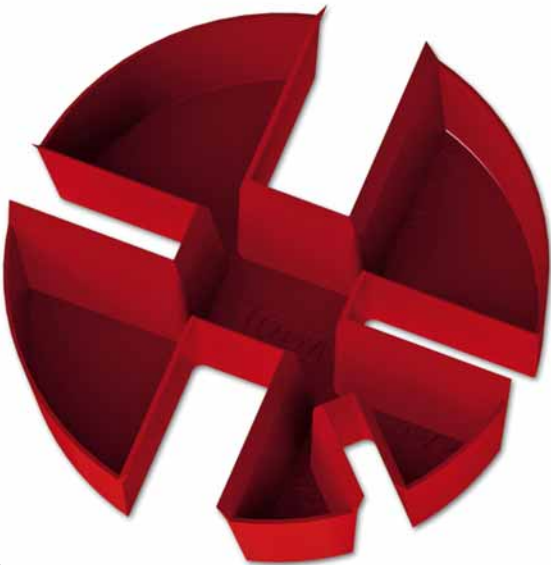
- for rail widths up to 31,75 mm
- simple assembly without any tools or accessories



Oil Collector
art. no. 70 369.02

The advantages of the ACLA Oil Collector „Variable“

- The Oil Collector is made of an oil and fracture resistant material with high thermal stability
- Fast assembly and emptying without any tools or other auxiliary means



Oil Collector MB (with magnetic fastener)

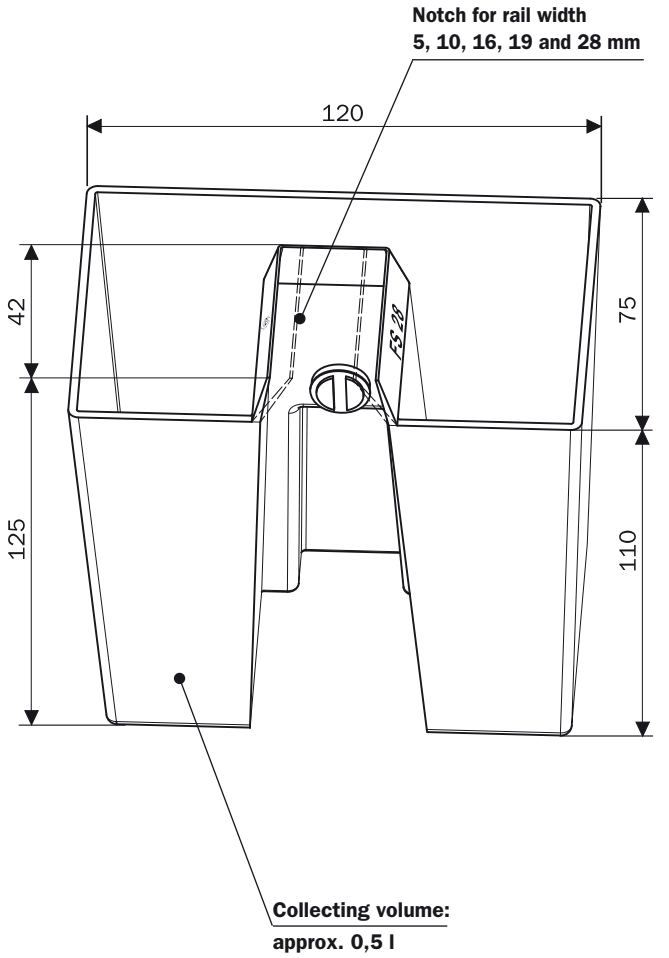
- Executions for rail width 5, 10, 16, 19 and 28 mm
- Simple assembly with magnetic fastener

The advantages of the ACLA Oil Collector MB (with magnetic fastener)

- The Oil Collector is made of an oil and fracture resistant material with high thermal stability
- Simple assembly at any position of your choice by means of magnetic fastener
- Also available without magnetic fastener



article numbers for Oil Collector MB	
rail width	art. no.
5 mm	70 449.05
10 mm	70 449.10
16 mm	70 449.16
19 mm	70 449.19
28 mm	70 449.28



Oil Collector AT with Clamping Elements of ACLATHAN®

- for rail widths from 5 up to 16 mm using the appropriate clamping elements
- no leakages at all sealing surfaces
- fast assembly without tools

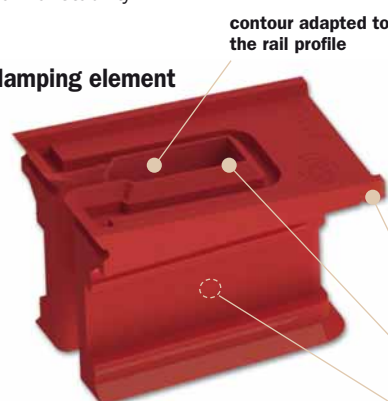
Advantages of the ACLA Oil collector AT

- On account of the functional construction of the clamping element the sealing of the rail profile is assured up to the rail base
- The clamping element and oil collector are made of an oil and fracture resistant material with high thermal stability
- The clamping element is deliverable for all rail types
- No leakages at all sealing surfaces
- The seal lip of the clamping element prevents creeping oil
- The snap cams of the oil collector prevent an unintended slipping from the clamping element and can be slightly lifted for removal
- By means of slipping the oil collector onto the rail a secure clamping effect is achieved
- Fast assembly and emptying without tools or other auxiliary means
- Easy oil level check

The correct clamping element for any rail

The clamping elements for the ACLA Oil Collector AT are manufactured of the polyurethane elastomer ACLATHAN and are especially distinguished by their good oil resistance, breaking strength and thermal stability.

Clamping element



Oli collector AT art. no. 70 316



please lift oil dripping edge when removing the oil collector AT

sealing edge for running and foot area of the rail

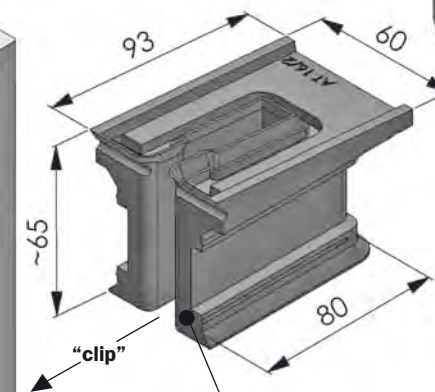
if necessary drill cross hole for locking-pin.
Pin length max. 35 mm

For all popular rail types suitable clamping elements are deliverable (see pages 44/45). In case of dimensional discrepancies of the contours a compensation by means of sealing material is necessary.

Guide rail (not for sale)

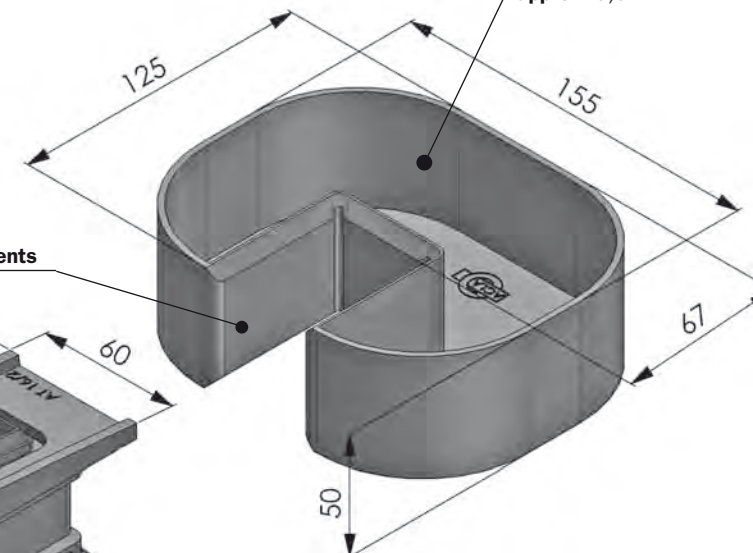


Notch suitable for all clamping elements



Clamping element types
for all rails see page 48/49

Collecting volume:
approx. 0,5 l



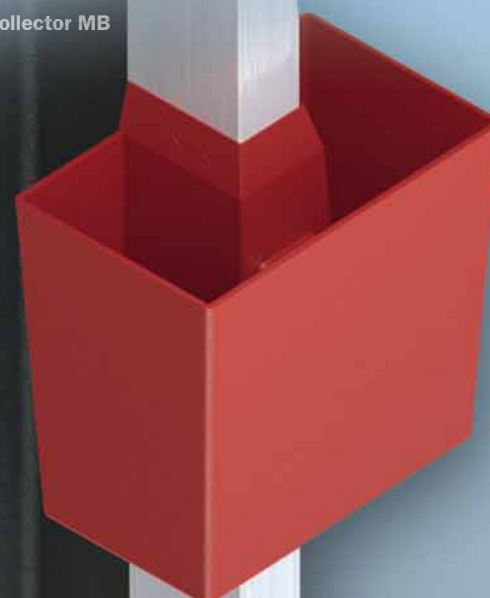
Mounting order:

1. Slip clamping element onto the rail
2. Slip oil collector over the clamping element against the end-stop

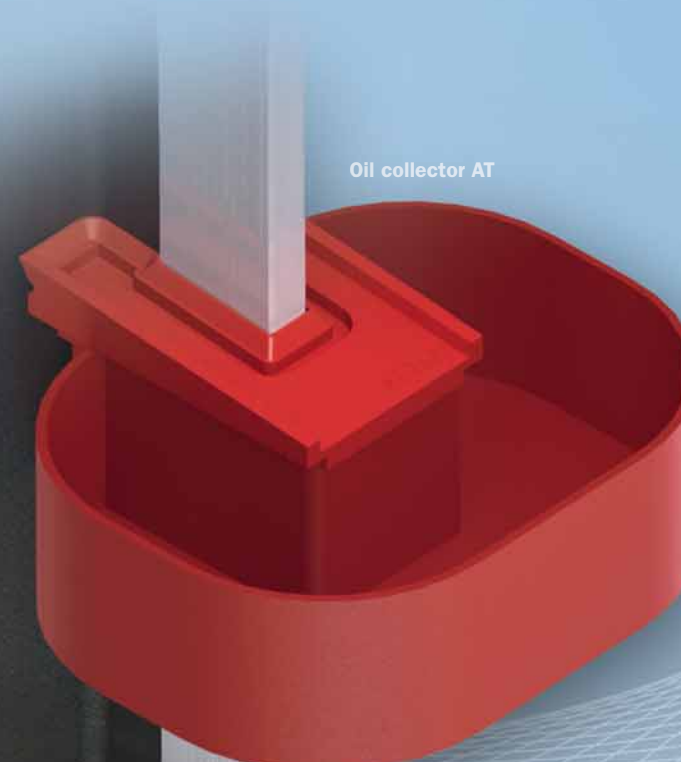
Oil collector Universal



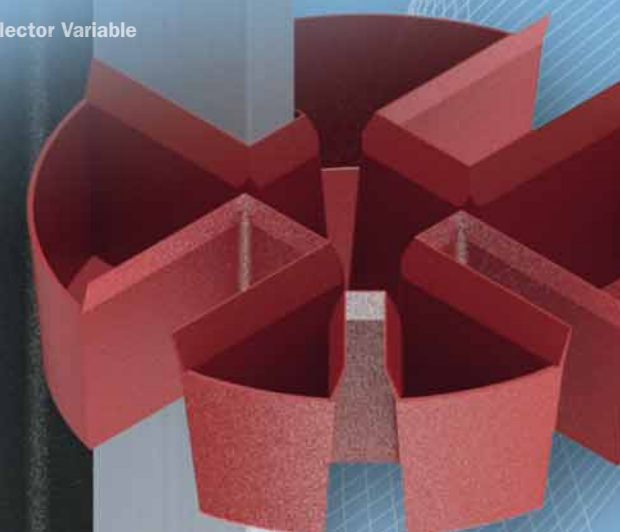
Oil collector MB



Oil collector AT



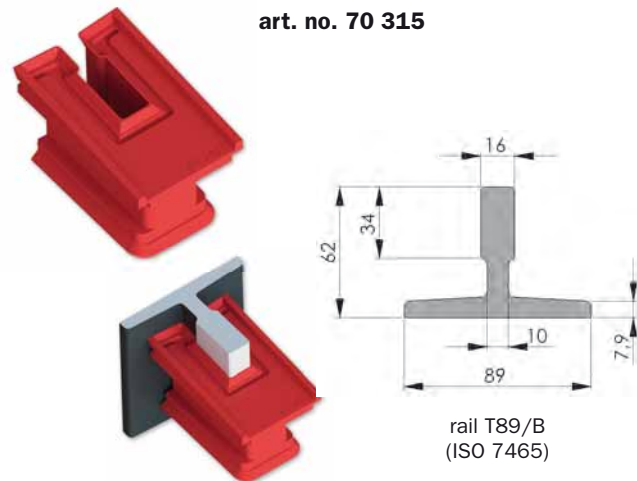
Oil collector Variable



Clamping Elements of ACLATHAN®

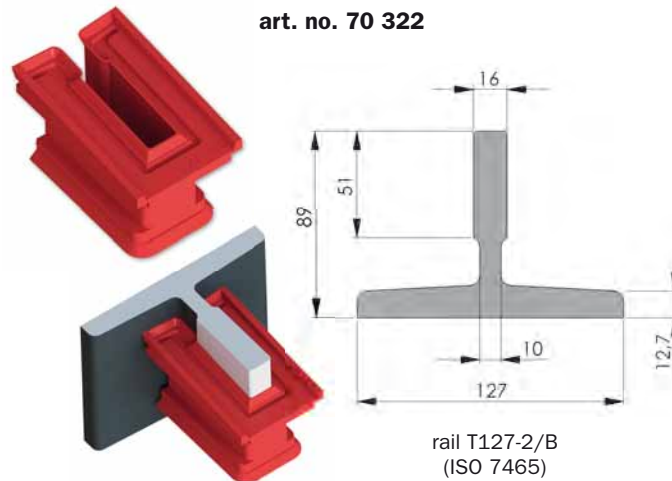
Clamping element AT 16/1
for rail T89/B as per ISO 7465

art. no. 70 315



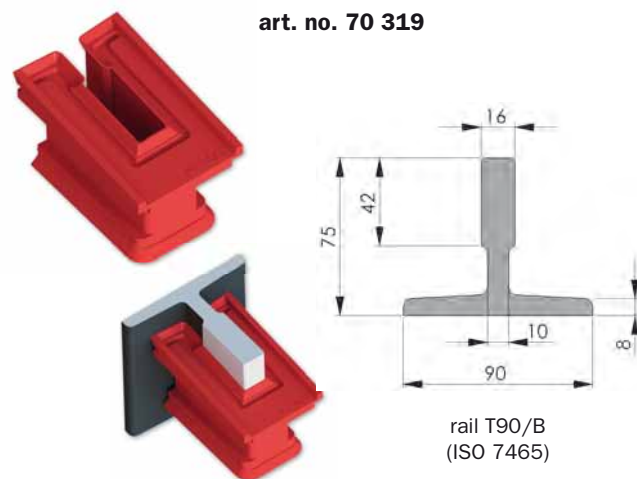
Clamping element AT 16/2
for rail T127-2/B as per ISO 7465

art. no. 70 322



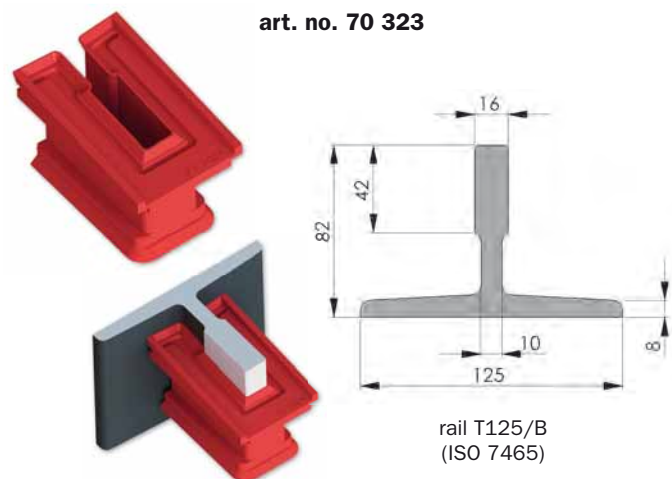
Clamping element AT 16/3
for rail T90/B as per ISO 7465

art. no. 70 319



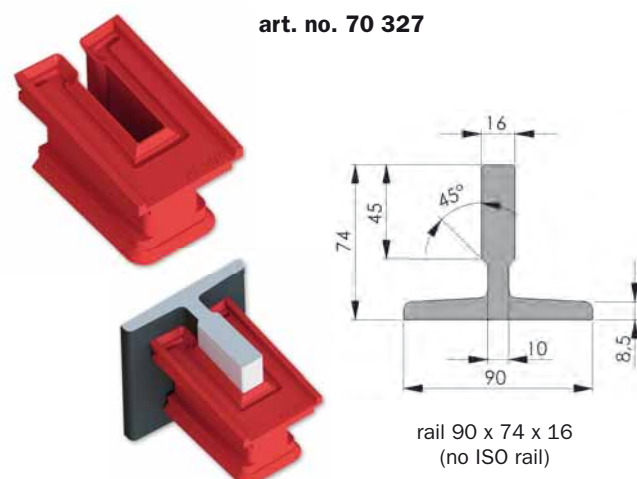
Clamping element AT 16/4
for rail T125/B as per ISO 7465

art. no. 70 323



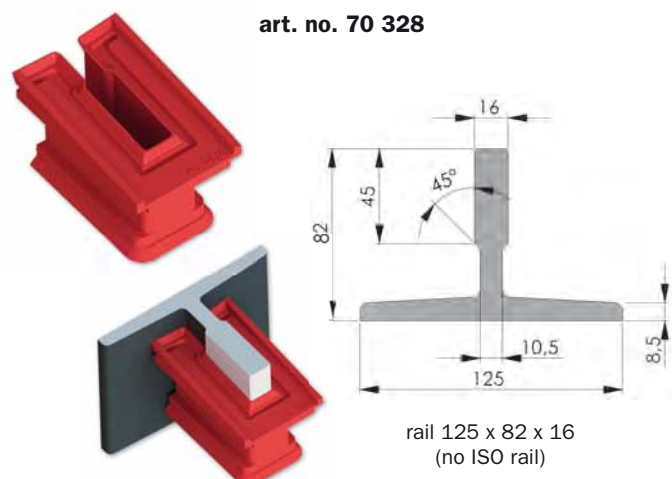
Clamping element AT 16/5
for rail 90,0 x 74,0 x 16,0 mm

art. no. 70 327



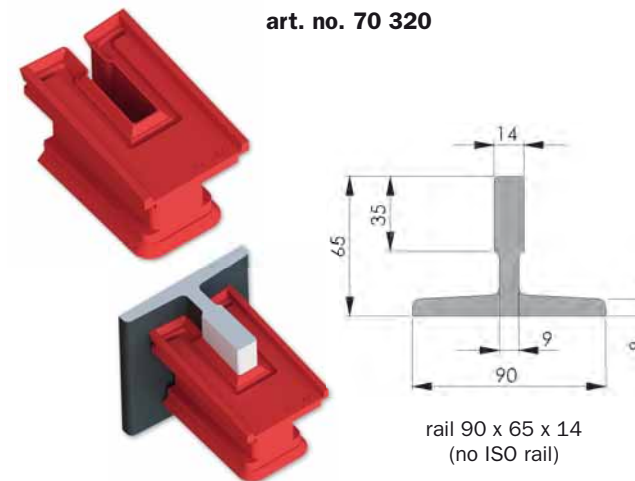
Clamping element AT 16/6
for rail 125,0 x 82,0 x 16,0 mm

art. no. 70 328



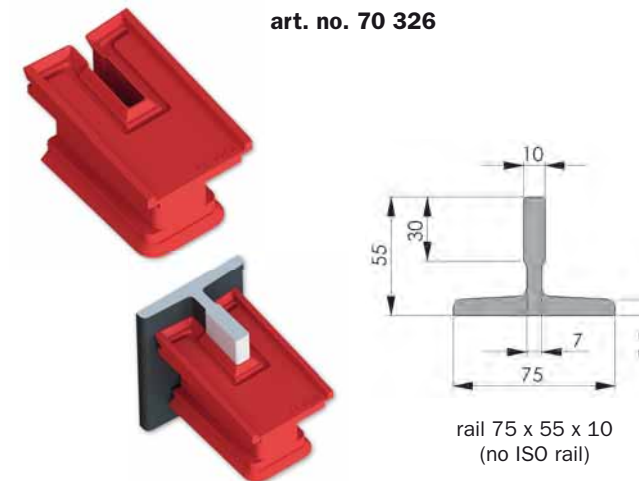
Clamping element AT 14/1
for rail 90,0 x 65,0 x 14,0 mm

art. no. 70 320



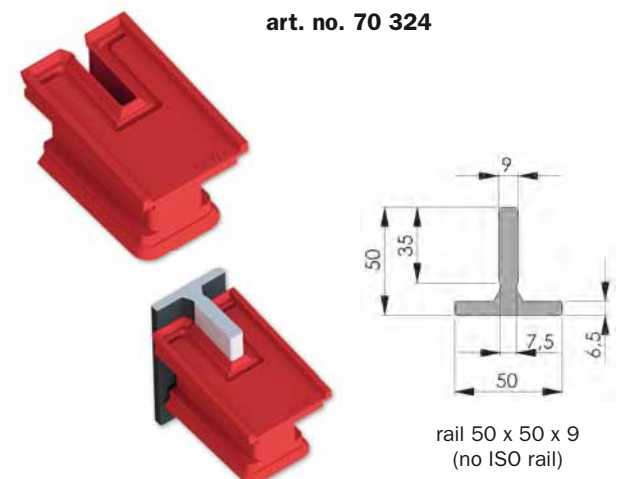
Clamping element AT 10/2
for rail 75,0 x 55,0 x 10,0 mm

art. no. 70 326



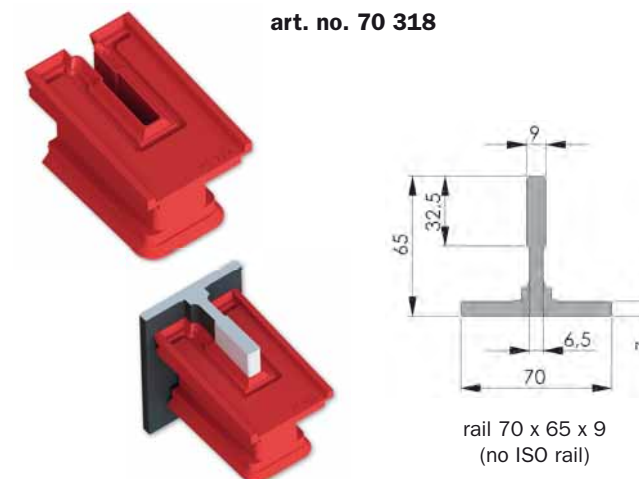
Clamping element AT 9/1
for rail 50,0 x 50,0 x 9,0 mm

art. no. 70 324



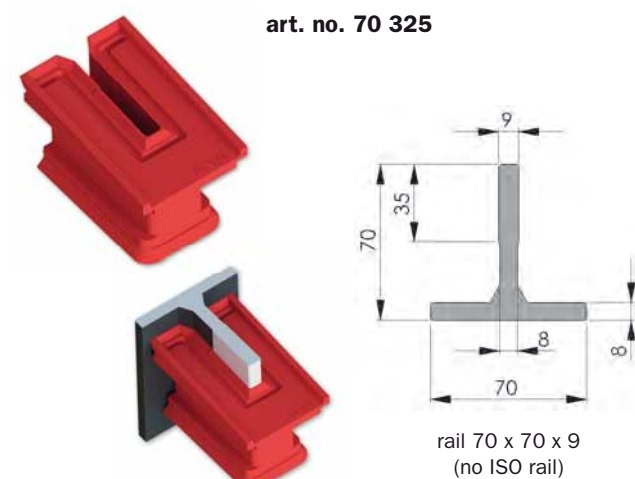
Clamping element AT 9/2
for rail T70-1/A/B as per ISO 7465

art. no. 70 318



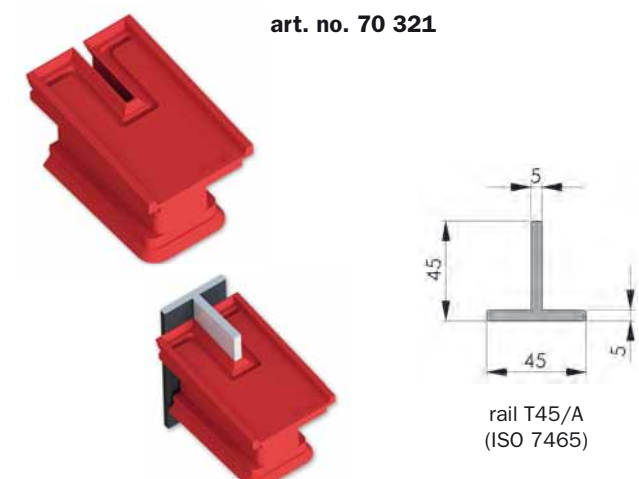
Clamping element AT 9/3
for rail 70,0 x 70,0 x 9,0 mm

art. no. 70 325



Clamping element AT 5/1
for rail T45/A as per ISO 7465

art. no. 70 321

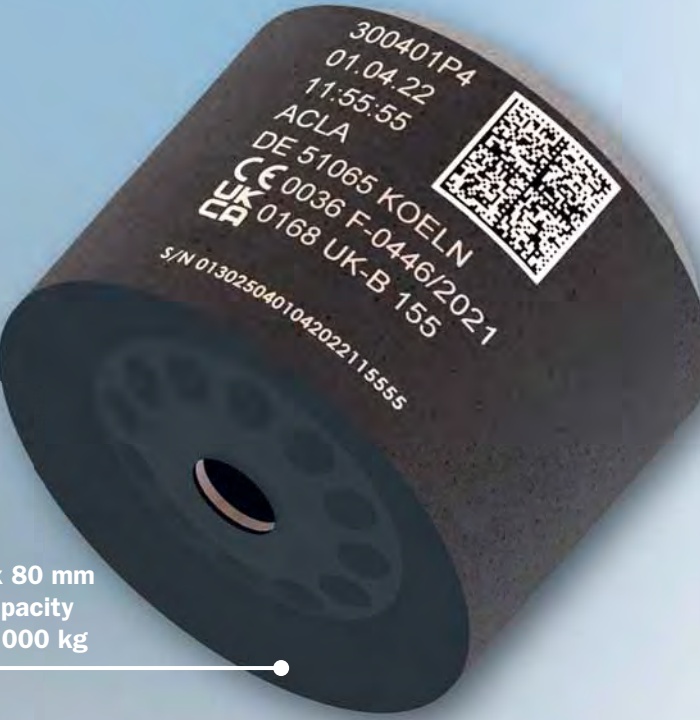


The new generation of lift buffers of AUTAN® XL

"Best in Class"
Performance values in a new dimension



With CE and UKCA marking
(ASME 17.1/17.7 in preparation)



Significantly improved load capacities for AUTAN® XL!

Comparison of application range in [kg] according to EN 81-20/50; v = 1,00 m/s				
size [mm] D x H	AUTAN® HE		AUTAN® XL	
	m _{min}	m _{max}	m _{min}	m _{max}
80 x 80	230	750	350	1700
100 x 80	350	1200	700	3000
125 x 80	620	1900	1000	4500
165 x 80	1000	2800		

The new generation of lift buffers of AUTAN® XL, certified by TÜV SÜD according to EN 81-20/50.

Significant improvement in performance ranges of application thanks to concentrated manufacturer competence.

The new generation of lift buffers of AUTAN® XL impresses with significantly improved load ranges compared to previous buffer series. With only 3 buffer sizes (6 versions) ACLA covers almost the entire market demand.

The new buffer generation is certified by TÜV SÜD.

- Advantages at a glance**
- A smaller series Ø 80 x 80 mm to Ø 125 x 80 mm with large application ranges from 180 kg min. weight to 4.500 kg max. weight.
 - Replacement and surpassing of the Ø 100 x 80 mm buffer size of the AUTAN® HE series by the smaller Ø 80 x 80 buffer of the new AUTAN® XL series.
 - Replacement and surpassing of the Ø 125 x 80 mm, Ø 140 x 80 mm and Ø 165 x 80 mm buffer size of the AUTAN® HE series by the smaller Ø 100 x 80 mm buffer of the new AUTAN® XL series. Buffers with 140/165 diameter are thus no longer necessary!

- Smaller expansion and deflection under load.
- 1:1 compatible with previous buffers from AUTAN® HE and other makes.
- The type examination certificates issued by TÜV SÜD are valid for an unlimited period.
- Reduced volumes during transport.

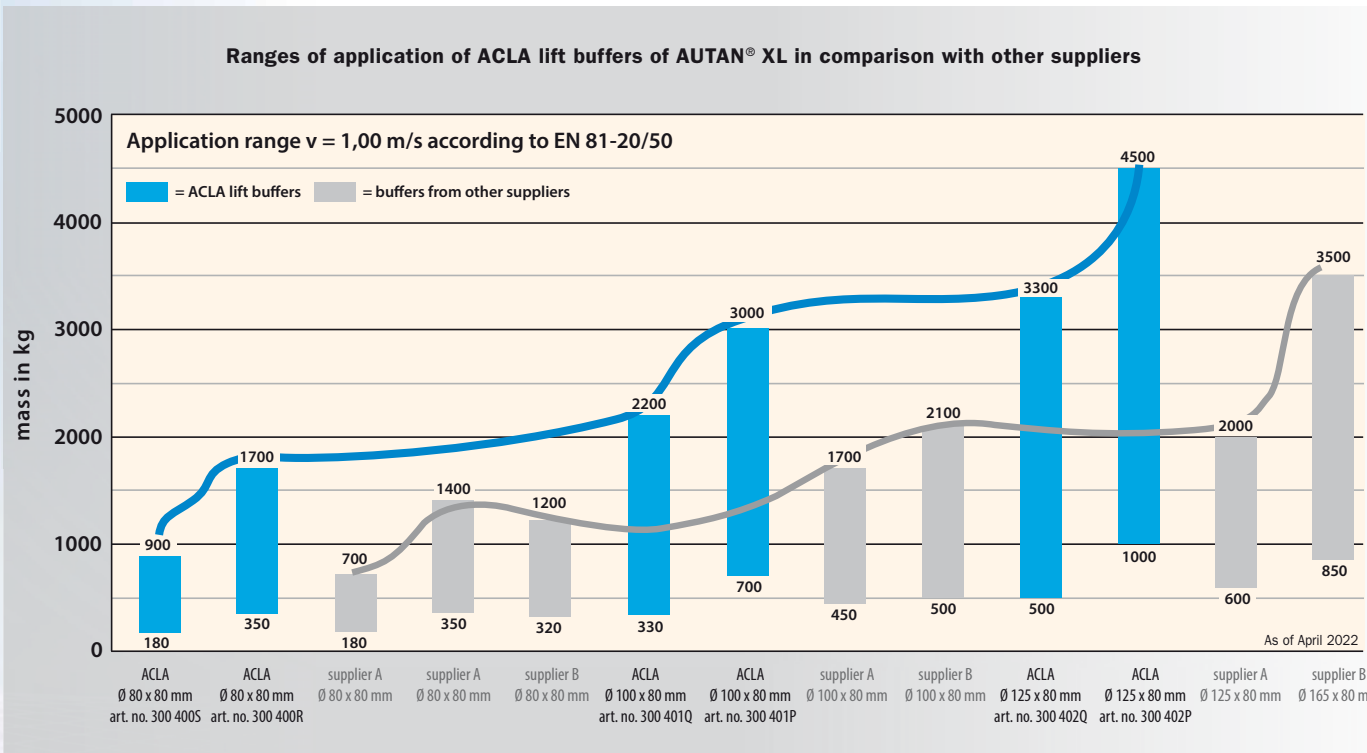
Worldwide certification
The lift buffers of AUTAN® XL are certified for the world's most important sales markets area: CE and UKCA. ASME 17.1/17.7 certification is in preparation.

Type examination certificates and declarations of conformity are available on request or via our website.

AUTAN® XL: The top of product development
With this development stage ACLA-WERKE GMBH sets a benchmark in the worldwide market for lift buffers in the field of energy-storing lift buffers with non-linear characteristic curve according to RL 2014/33/EU; EN 81-20/50: 2020 and BS 81-20/50: 2014 (UK) and many more.

Product range of ACLA top-mounted buffers made of AUTAN® XL				Application range in [kg] according to EN 81-20/50; v = 1,00 m/s	
size [mm] D x H	ACLA designation	type	art. no.	m _{min}	m _{max}
80 x 80	ACLA - Ø 80 x 80 - 300 400S	A	300 400S1	180	900
		C	300 400S3		
		D	300 400S4		
80 x 80	ACLA - Ø 80 x 80 - 300 400R	A	300 400R1	350	1.700
		C	300 400R3		
		D	300 400R4		
100 x 80	ACLA - Ø 100 x 80 - 300 401Q	A	300 401Q1	330	2.200
		C	300 401Q3		
		D	300 401Q4		
100 x 80	ACLA - Ø 100 x 80 - 300 401P	A	300 401P1	700	3.000
		C	300 401P3		
		D	300 401P4		
125 x 80	ACLA - Ø 125 x 80 - 300 402Q	A	300 402Q1	500	3.300
		C	300 402Q3		
		D	300 402Q4		
125 x 80	ACLA - Ø 125 x 80 - 300 402P	A	300 402P1	1.000	4.500
		C	300 402P3		
		D	300 402P4		

type A = with round fixing plate of steel, type C = with square fixing plate of steel, type D = with integrated steel plate



Lift Buffers of AUTAN® HE

Reliable and proven in use
Wide load ranges range for minimum and maximum loads



type A
with round
fixing plate
of steel



type C
with square
fixing plate
of steel

With
CE, UKCA and EAC
marking



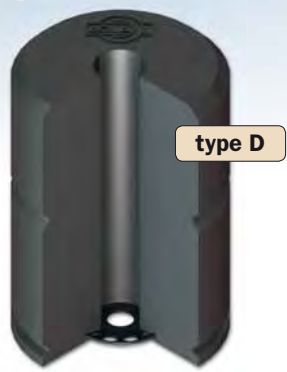
type D
with integrated
steel plate



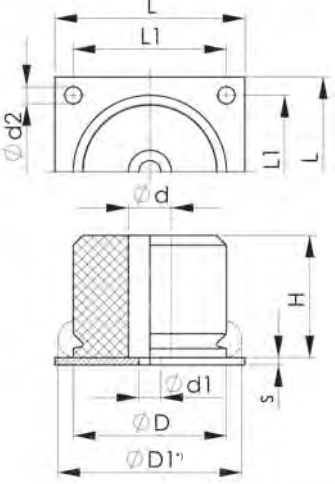
type A



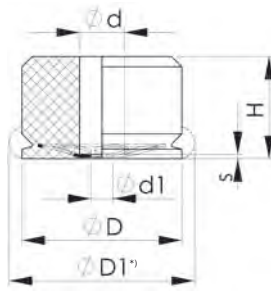
type C



type D



*Data for Ø D1 on request



Lift Buffers of AUTAN® HE certified as per EN 81-20/50 and Lift Directive 2014/33/EU

ACLA lift buffers made of AUTAN® HE are the proven ACLA safety product for all important lift projects
For standard EN 81-20/50 and Lift Directive 2014/33/EU we offer to the lift constructor our approved lift buffers made of AUTAN® HE. We provide planning security for lift projects. All buffers offered are type-tested tested and approved according to actual guidelines.

The „S Series“ with important mounting height of 80 mm
The "S Series" lift buffers made of AUTAN® HE offer a wide range of minimal and maximal load ranges thanks to optimised production technology. All buffers of the S series comply with the important mounting height of "80 mm" and and therefore offer the lift constructor an important advantage in terms of reduced installation space in the shaft.

Maintenance 4.0 integrated
Important product data is digitally marked on each ACLA lift buffer of AUTAN® HE.
The following table is an overview of our delivery program incl. the admissible application ranges.

Please note important changes to the notifying body for ACLA lift buffers made of AUTAN® HE on the next next catalogue page!



Type examination certificates and declarations of conformity can be downloaded from our website "www.acla-werke.de".

Delivery program and application ranges for lift buffers type A, C and D of AUTAN® HE acc. to EN 81-20/50 at nominal speeds up to 0,63 m/s and 1,0 m/s

	Product range		Type-examination certificates registration number	Admissible range in [kg]				sizes								
	size D x H	type		art. no.	up to v = 0,63 m/s		up to v = 1,0 m/s		D	d	d1	H	s	L	L1	d2
					m _{min}	m _{max}	m _{min}	m _{max}								
Series S	80 x 80	A	300400L1	44 208 17053401	140	1650	230	750	80	36	17,0	80	5	100	80	11
		C	300400L3								18,0		6			
		D	300400L4								17,2		2			
	100 x 80	A	300401L1	44 208 17053403	240	3500	350	1200	100	36	17,0	80	5	130	100	14
		C	300401L3								18,0		6			
		D	300401L4								17,2		2			
	100 x 80	A	300401M1	44 208 17053402	200	2100	250	950	100	36	17,0	80	5	130	100	14
		C	300401M3								18,0		6			
		D	300401M4								17,2		2			
	125 x 80	A	300402L1	44 208 17053404	450	5500	620	1900	125	36	17,0	80	5	155	125	14
		C	300402L3								18,0		6			
		D	300402L4								17,2		2			
	140 x 80	A	300419L1	44 208 17053405	450	6500	700	2300	140	36	17,0	80	6	180	140	18
		C	300419L3								18,0		6			
		D	300419L4								17,2		2			
	165 x 80	A	300403L1	44 208 17053406	600	9400	1000	2800	165	36	17,0	80	5	205	165	18
		C	300403L3								18,0		6			
		D	300403L4								17,2		2			
	220 x 80	A	300404L1	44 208 17053407	1000	9400	1400	5500	220	36	17,0	80	5	260	220	21
		C	300404L3								18,0		6			
		D	300404L4								17,2		2			
	81 x 120	A	300335A1	44 208 12019089-001	-	-	230	900	81	36	17,0	120	5	100	80	11
		C	300335A3								18,0		6			
		D	300335A4								17,2		2			
	101 x 163	A	300405A1	44 208 12019092-001	-	-	300	1600	101	36	17,0	163	5	130	100	14
		C	300405A3								18,0		6			
		D	300405A4								17,2		2			
	129 x 103	A	300178A1	44 208 12019094-001	-	-	600	2100	129	36	17,0	103	5	155	125	14
		C	300178A3								18,0		6			
		D	300178A4								17,2		2			
	142 x 101	A	300183A1	44 208 12019096-001	-	-	700	2200	142	36	17,0	101	6	180	140	18
		C	300183A3								18,0		6			
		D	300183A4								17,2		2			

New Notified Body for buffers of AUTAN® HE

New Notified Body for buffers of AUTAN® HE

Our new partner for the certification of the ACLA buffers of AUTAN® HE is the

TÜV SÜD
Industrie Service GmbH.

All existing EU type examinations are transferred to TÜV SÜD and receive new certificates. From a technical point of view the buffers, their range of application and the ACLA article numbers of course remain unchanged!

Only the identification marking on the buffer receives the new certificate numbers.

The number of the Notified Body involved in random check and quality assurance changes from CE 0044 to CE 0036.

Buffers in your stock can be continued to be used.

Certified by TÜV SÜD



Overview of type examination certificates “old/TÜV NORD” and “new/TÜV SÜD”

Type examination certificates and declarations of conformity are available on request or via our website.

Delivery program			“OLD” TÜV NORD	“NEW” TÜV SÜD	“NEW” TÜV SÜD
size	type	art.-no.	EU type examination certificates registration number	EU type examination certificates registration number	UKCA type examination certificates registration number
80 x 80	A	300400L1	44 208 17053401	EU-B 147	UK-B 147
	C	300400L3			
	D	300400L4			
100 x 80	A	300401L1	44 208 17053403	EU-B 149	UK-B 149
	C	300401L3			
	D	300401L4			
100 x 80	A	300401M1	44 208 17053402	EU-B 148	UK-B 148
	C	300401M3			
	D	300401M4			
125 x 80	A	300402L1	44 208 17053404	EU-B 150	UK-B 150
	C	300402L3			
	D	300402L4			
140 x 80	A	300419L1	44 208 17053405	EU-B 151	UK-B 151
	C	300419L3			
	D	300419L4			
165 x 80	A	300403L1	44 208 17053406	EU-B 152	UK-B 152
	C	300403L3			
	D	300403L4			
220 x 80	A	300404L1	44 208 17053407	EU-B 153	UK-B 153
	C	300404L3			
	D	300404L4			
81 x 120	A	300335A1	44 208 12019089-001	EU-B 138	UK-B 138
	C	300335A3			
	D	300335A4			
101 x 163	A	300405A1	44 208 12019092-001	EU-B 141	UK-B 141
	C	300405A3			
	D	300405A4			
129 x 103	A	300178A1	44 208 12019094-001	EU-B 143	UK-B 143
	C	300178A3			
	D	300178A4			
142 x 101	A	300183A1	44 208 12019096-001	EU-B 144	UK-B 144
	C	300183A3			
	D	300183A4			

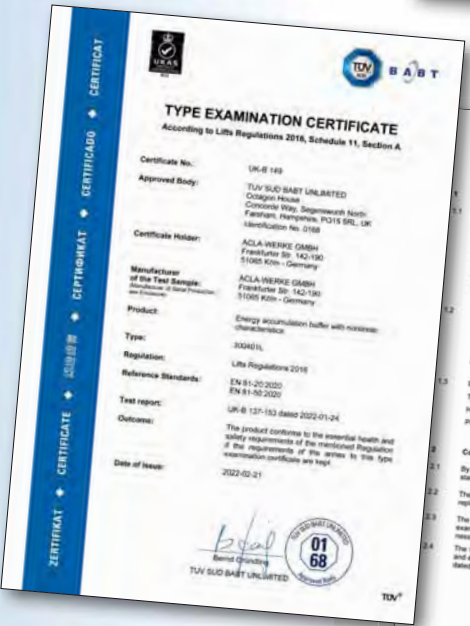
Lift buffers of AUTAN® HE certified as per EN 81-20/50 and Lift Directive 2014/33/EU



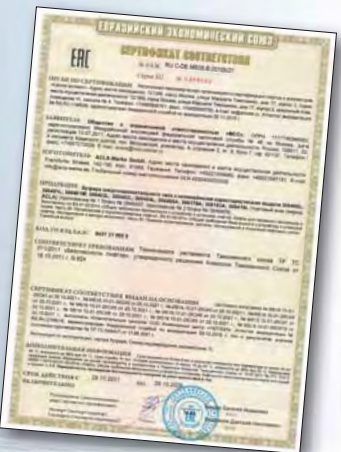
EU/2014/33; EN 81-20/50; 2020



Valid for an unlimited period of time



UK BS 81-20/50: 2014



EAC RU C-DE Mb06.B.00155/21;
RU N°0339948, 0846457, 0846458



ASME 17.7/CSA B44.7;
ASME 17.1 2019/CSA B44.19

Every millimetre counts!

Expansion and deflection of ACLA buffers
of AUTAN® XL and AUTAN® HE

Technology advantage in favour of construction

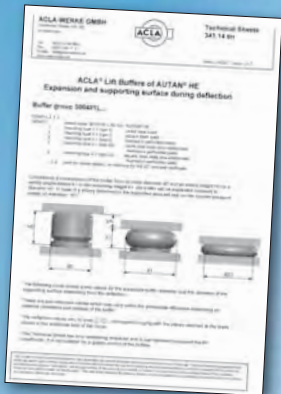
The high-grade PUR material AUTAN® HE used for our ACLA lift buffers offers a clear technical advantage to the lift manufacturer in relation to construction:

The actual deflection of most buffer types of AUTAN® HE is significantly less the value of 90 % of the initial foam height required by the applicable standard. Thus total construction heights can be reduced in a cost-efficient manner.

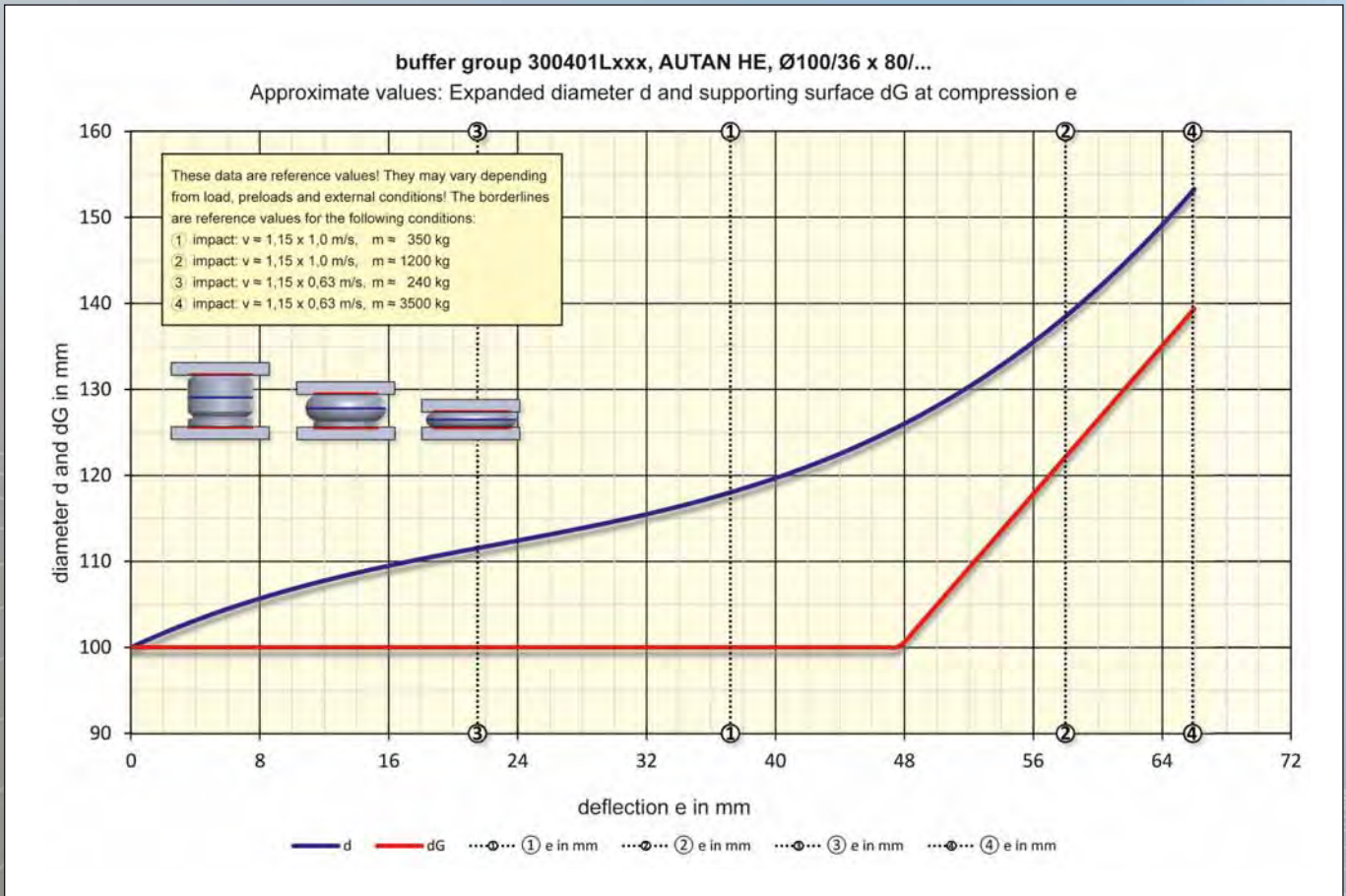
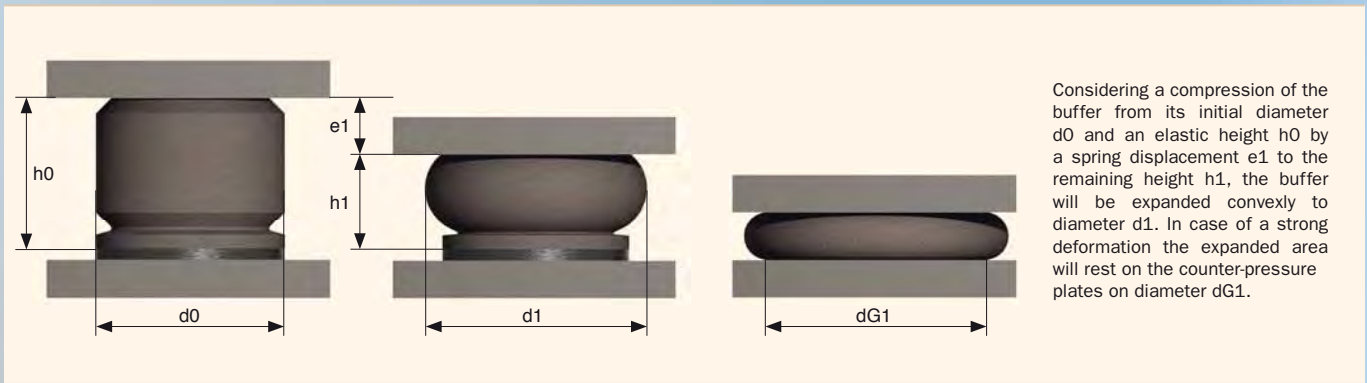
The below diagram gives you a first impression of this important issue to the constructor.

Upon request, we will send you our „Technical Sheets 341“ giving detailed information about the expansion and deflection at the min. and max. loads. They may serve as a support in lift configuration and approval.

Please contact us for more information.



(in process for buffers of AUTAN® XL)



Lift Buffers of AUTAN® HE: Additional types

Enhanced security as to fixing

We were now able to widen our delivery program for lift buffers of AUTAN® HE from 3 to 5 buffer types by extensive application and field tests as well as optimized production methods in our serial production.

Both of our new patent protected buffer types „AD“ and „CD“ show best results in practical use by their significantly improved fixing security.

Provided that the recommended maintenance intervals are kept,

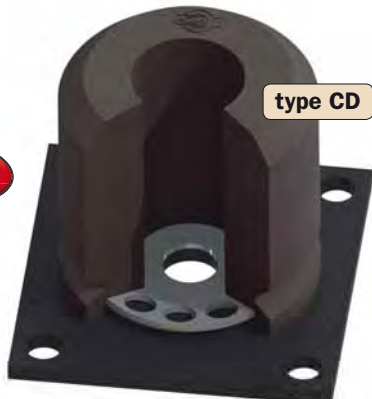
separations of the buffer from the steel plate can be excluded under normal service conditions.

Technical information and type-examination certificates of these additional lift buffer types of AUTAN® HE will be submitted on demand.



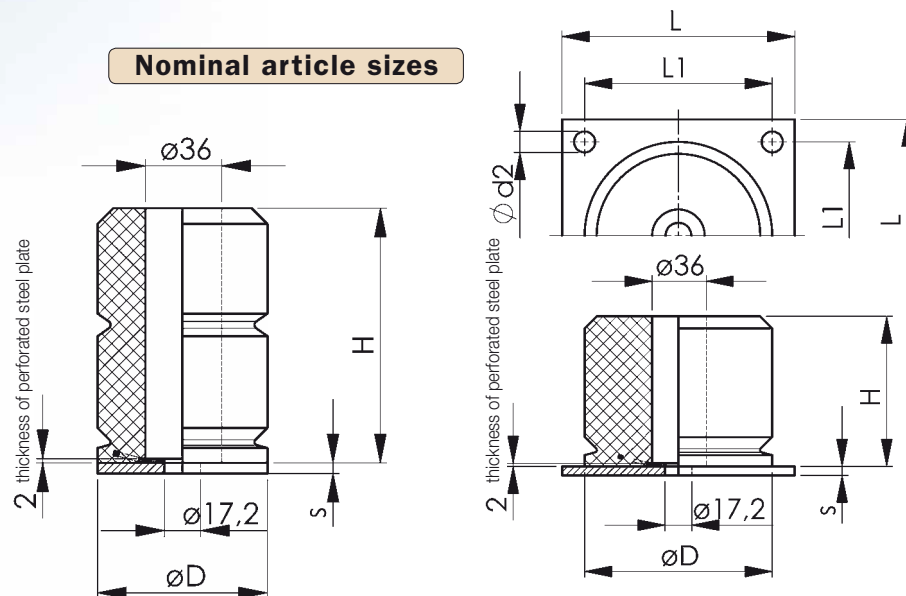
type AD

with round steel plate
+ foamed-in perforated
steel plate



type CD

with square steel plate
+ foamed-in perforated
steel plate



Delivery program								
sizes type AD			sizes type CD					
D	H	s	D	H	s	L	L1	d2
80	80	5	80	80	6	100	80	11
100	80	5	100	80	6	130	100	14
125	80	5	125	80	6	155	125	14
140	80	6	140	80	6	180	140	18
165	80	5	165	80	6	205	165	18
220	80	5	220	80	6	260	220	21



ACLA's Manufacturers Competence starts with the processing of raw materials

Rope Suspension Springs of AUTAN®

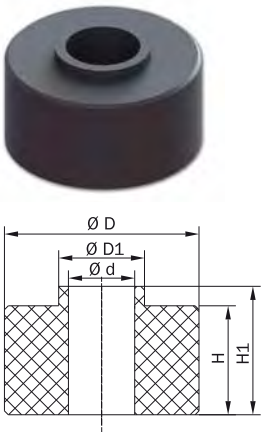
Excellent damping properties

Rope Suspension springs of AUTAN are designed for the compensation of the rope length. On account of the excellent damping properties of the polyurethane elastomer AUTAN high compression of the spring can be achieved with low article height and transverse expansion. AUTAN is highly resistant against wear and tear as well as mineral oils and grease. The springs can be easily mounted and keep their natural stability for a long time. The permanent deformation as per DIN 53 572 at 20° C (68° F) is lower than 3%.

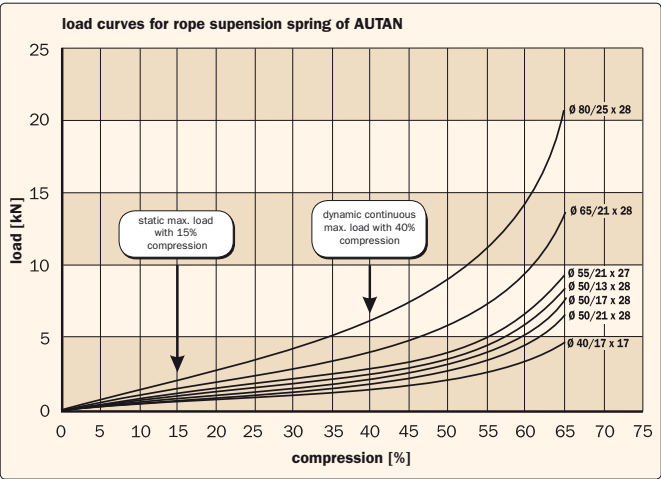
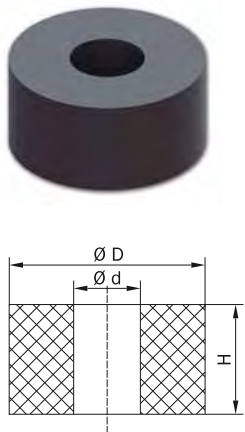
Important operation instructions:

- In case of multilayer mounting we recommend the use of steel separators with an O.D. of 1,4 x D.
- The dynamic continuous load is admissible up to 40% of the length H.
- The max. static continuous load is admissible up to 15% of the length H.
- With shock loads the max. compression should not exceed 76% of length H. Overloads change the compression curve. The replacement of the product is necessary in this case.
- With mounting side by side a drilling center of 1,5 x D is admissible.
- After 5 years the elasticity should be checked.

Rope suspension spring with collar



Rope suspension spring without collar



Size table/article numbers for rope suspension springs of AUTAN											
art. no.	331287.01	331288.01	331289.01	331290.01	331291.01	331292.01	331293.01	331294.01	331419.01	331295.01	331296.01
Ø D	40	50	50	55	65	80	50	50	50	65	80
Ø D1	27	22	22	27	27	27					
Ø d	17	13	17	21	21	25	13	17	21	21	25
H	17	28	28	27	28	28	28	28	28	28	28
H1	20	33	33	30	33	33					

Tolerances as per DIN ISO 2768-1 cK

Flat and Round Cable Suspensions of ACLAMID®

The material ACLAMID offers the best quality for the functioning of cable suspensions

The ACLA flat cable and round cable suspensions are made of ACLAMID/PA6, a special polymer with a high Young's modulus.

The material ACLAMID/PA6 has got many advantages which are ideal for the application as cable suspensions:

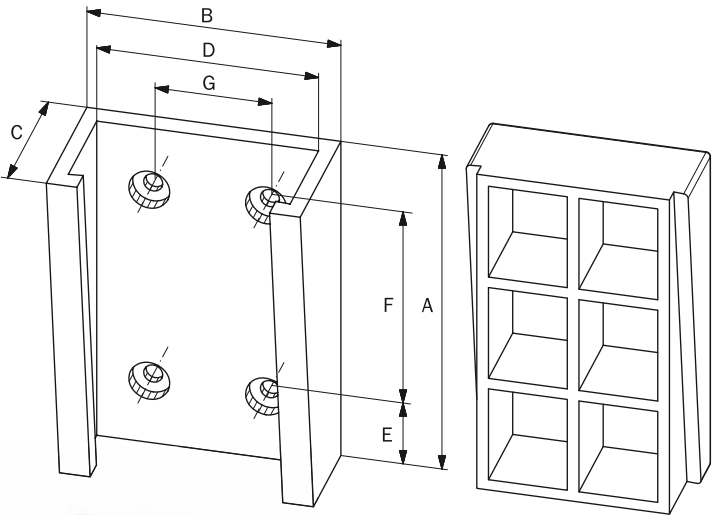
- small deformation
- high stability
- temperature range from -20° C to +80° C (-4° F to +176° F)
- good resistance against various agents

Flat cable suspension

Application:
for 1 to 3 flat cables,
max. allover cable size
75 x 18 mm

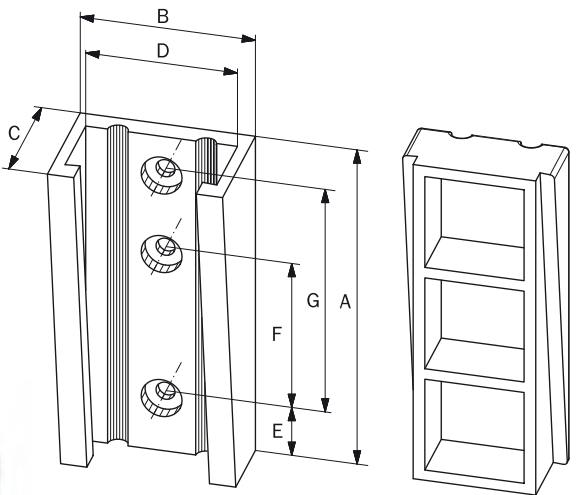


(colour may vary in final execution)



art. no. 90 325

nominal size	dimensions art. no. 90 325
A	120
B	87
C	52
D	76
E	23,5
F	73
G	40



art. no. 90 326.02

nominal size	dimensions art. no. 90 326.02
A	102
B	61
C	43
D	52
E	14
F	43
G	74



Round and flat Cable Suspension including screws and tap bolts

Application:
for 1 to 3 flat cables, max. allover cable size 50 x 15 mm and for cables with an O.D. of 7 to 10 mm

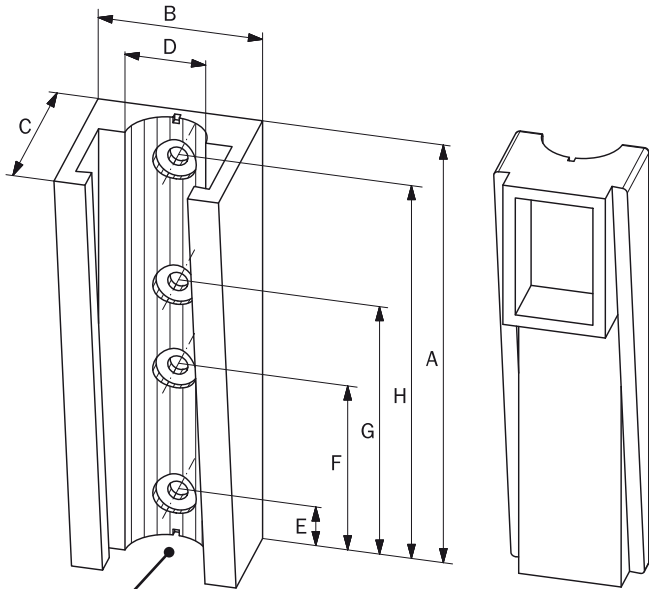
Article range and nominal sizes

Round cable suspension

Application:
for cables with an O.D. of 6 to 26 mm



art. no. 90 328.01

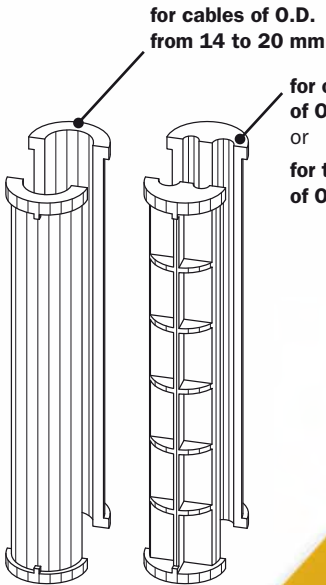


for cables of O.D. from 21 to 26 mm

nominal size	dimensions art. no. 90 328.01
A	151
B	51
C	53
D	26
E	17
F	61
G	91
H	134

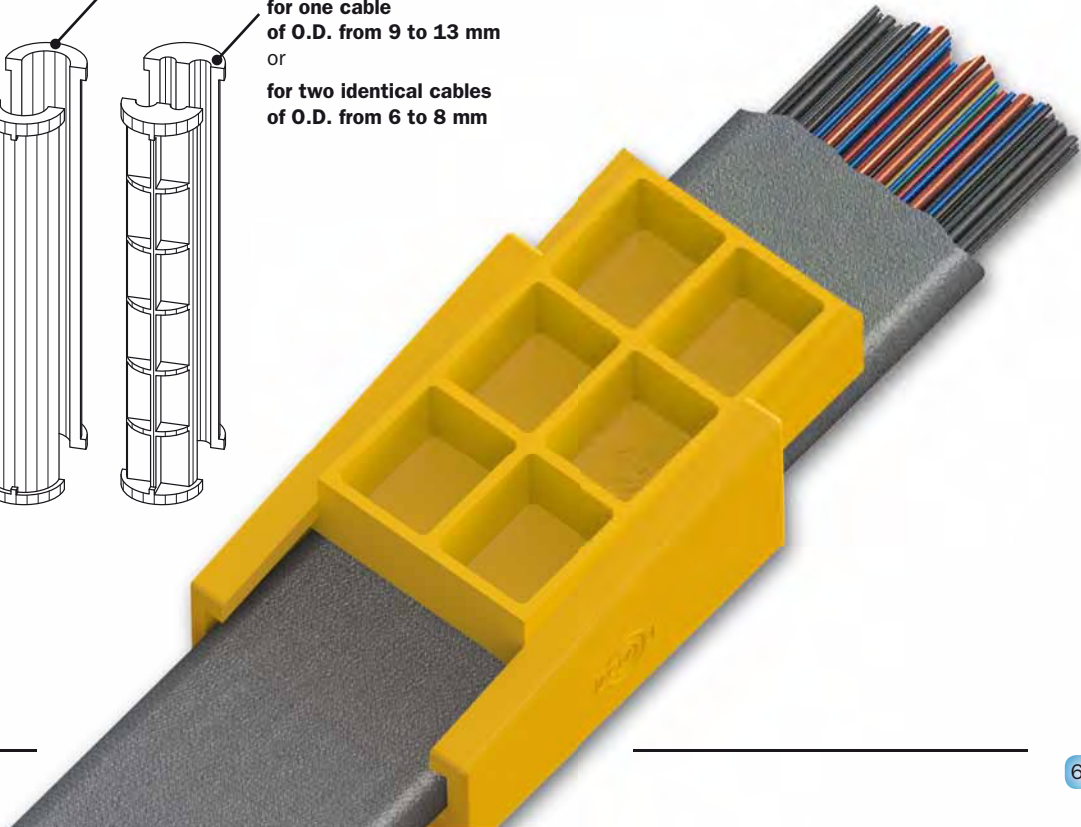


inserts



for cables of O.D. from 14 to 20 mm

for one cable of O.D. from 9 to 13 mm or
for two identical cables of O.D. from 6 to 8 mm



Rope Pulleys of ACLAMID®

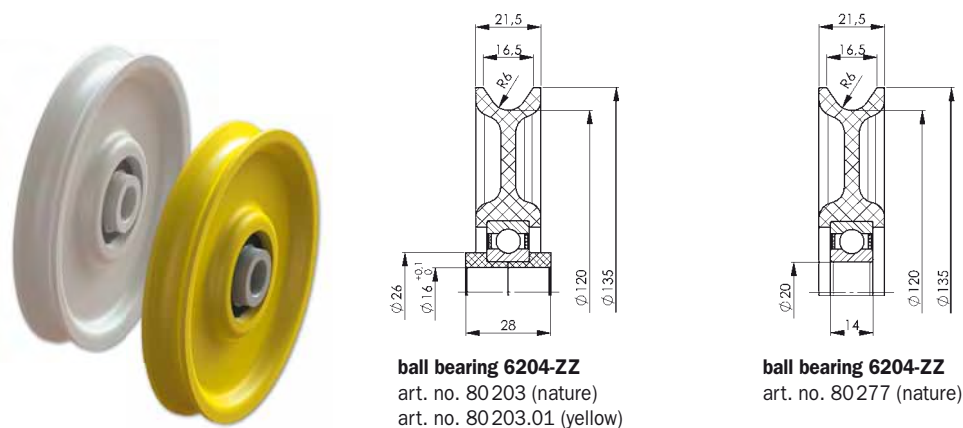
Construction of the rollers

Roller body of ACLAMID (special polyamide) with ball bearings as per DIN.

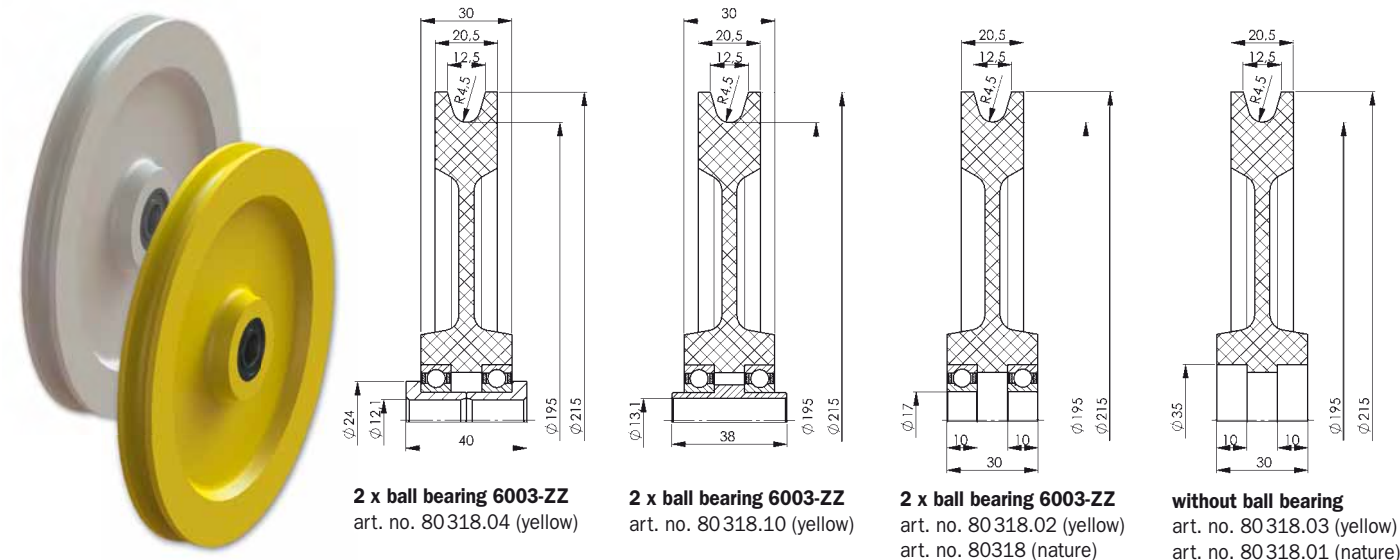
Important properties of ACLAMID

- special polyamide with high Young's modulus
- more silent running than steel pulleys
- low rolling friction
- high natural stability
- temperature range from -20° C to +80° C (-4° F to +176° F)

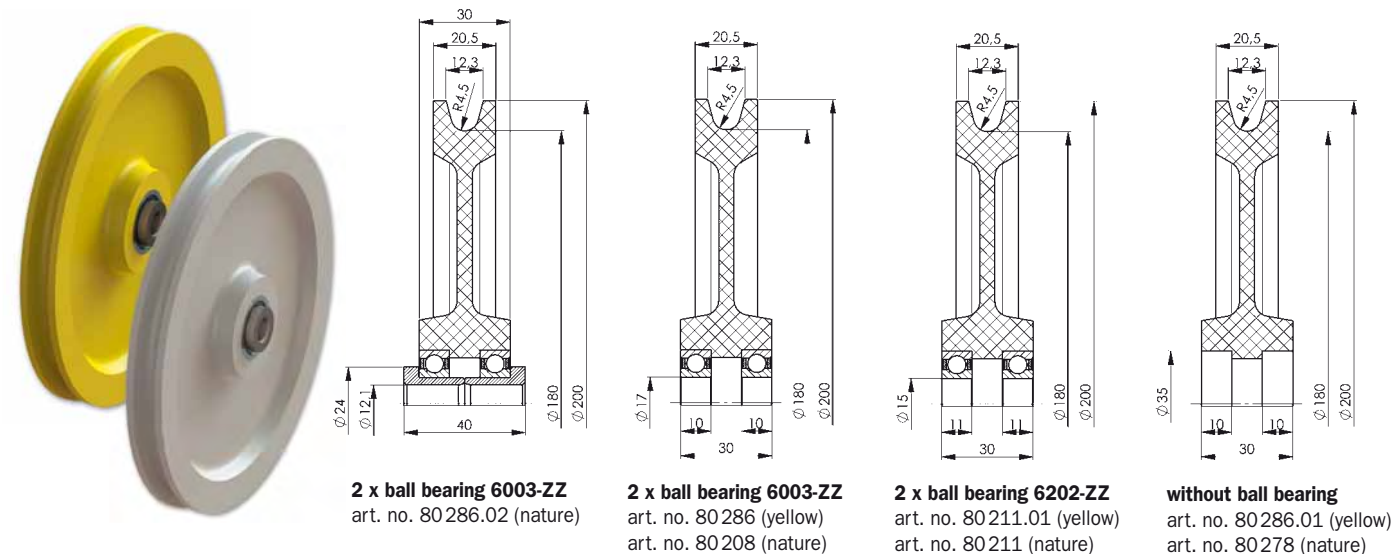
Rope pulley Ø 135 mm with R 6 (type PA L)



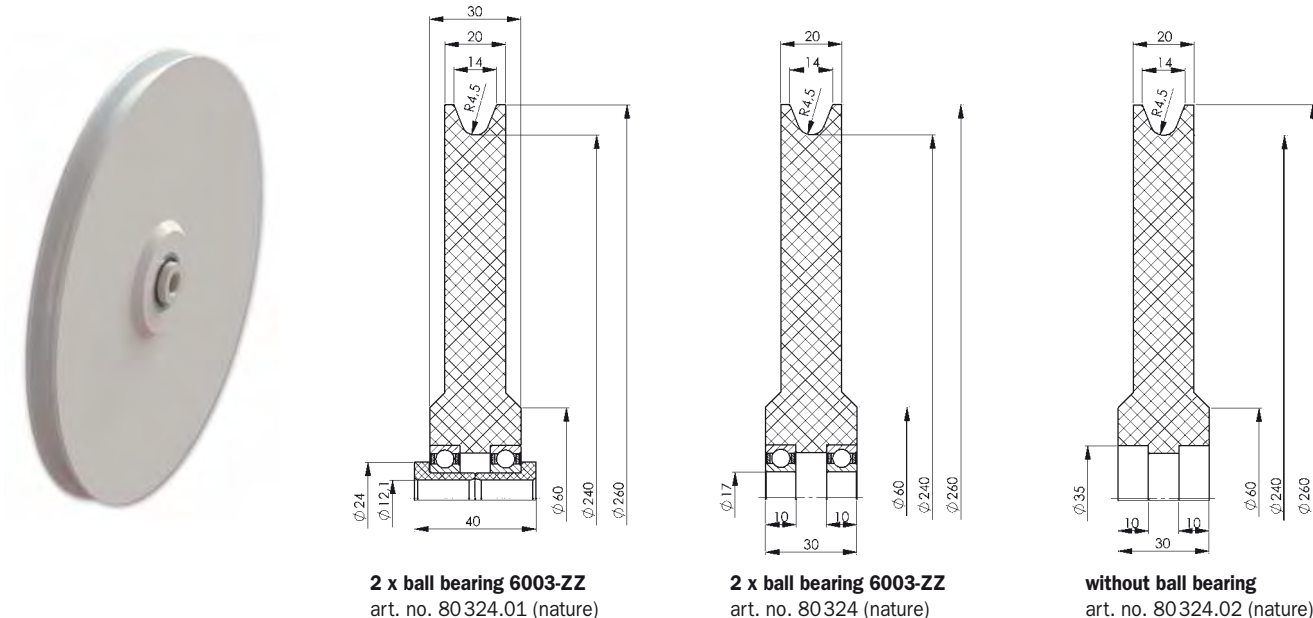
Rope pulley Ø 215 mm with R 4,5 (type PA LL)



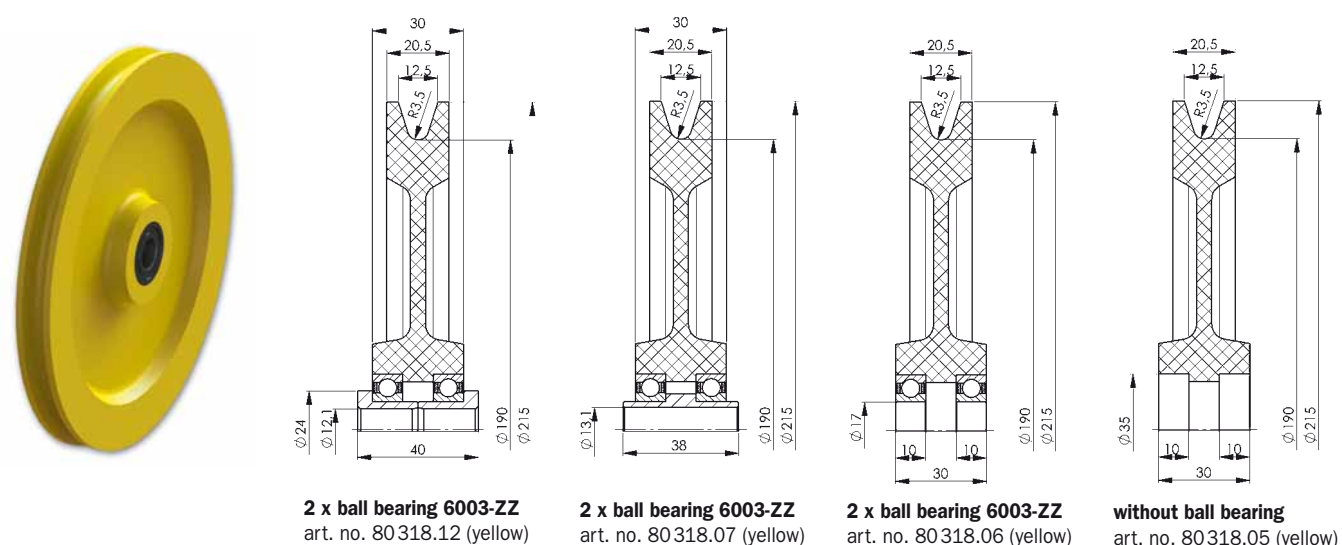
Rope pulley Ø 200 mm with R 4,5 (type PA LL)



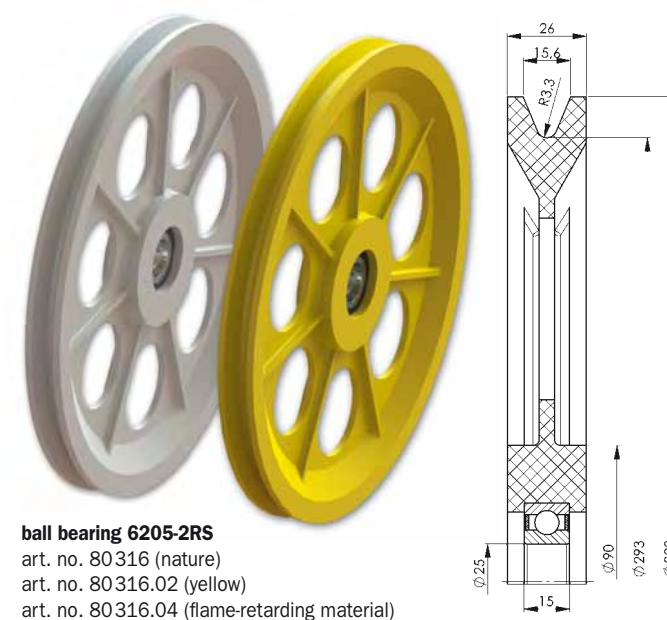
Rope pulley Ø 260 mm with R 4,5 (type PA LL)



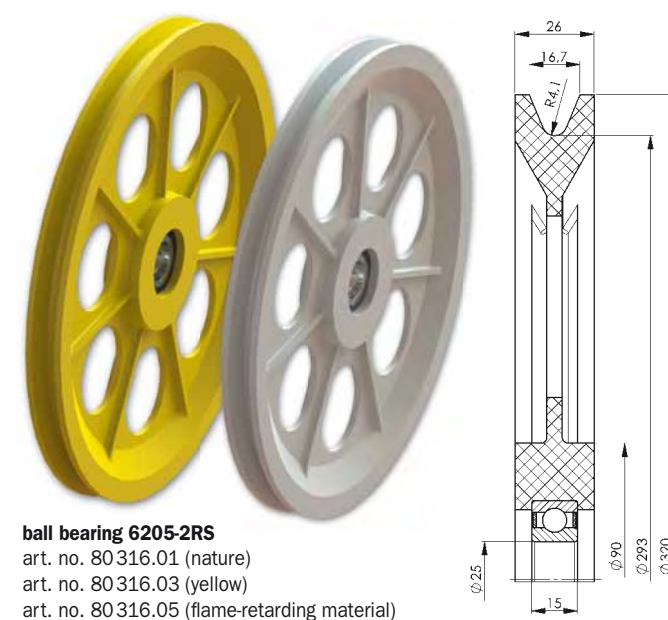
Rope pulley Ø 215 mm with R 3,5 (type PA LL)



Rope pulley Ø 320 mm with R 3,3 (type PA L)



Rope pulley Ø 320 mm with R 4,1 (type PA L)



Profiled Rollers and Door Guide Rollers of ACLAMID®/Pa NL or ACLATHAN®/Pu NL

Tyres

type Pa NL:
special polymer
(i.e. ACLAMID)
with high Young's modulus

type Pu NL:
polyurethane-elastomers
in different hardnesses

Nominal article sizes/executions

executions without axle (diagrammatic sketches)

type A

type B

type C

Legend

1) $\varnothing d$ can be modified
by means of bushes

2) roller with 2 grooves

Properties

- low rolling resistance
- small deformation
- high surface pressure
- silent running compared
with steel rollers

Remarks: The contours of the grooves can be adapted by machining as
per drawing or sample.

D	D ₁	d ¹⁾	B	b	b ₁	R	type	designation	bearing	art. no./Pu N L	art. no./Pa N L
44	38	12	16	8		5,15	A	44/38 x 16	6001-ZZ		80 119
50	40	10	13	9		5	A	50/40 x 13	6200-ZZ		80 205
50	40,5	10	13	9		5	A	50/40,5 x 13	6200-ZZ		
50	40	10	13	9	5	1,5	B	50/40 x 13	6200-ZZ		80 224
51	46	15	18	11		10,5	A	51/46/15 x 18/11	6202-ZZ		80 206.01
53	46,8	10	8/10	8	3,5	1,6	B	53/46,8 x 10/8	6000-ZZ		80 315
55	43	12	20	10	14,5	3	B	55/43 x 20	6201-ZZ		80 109
56	44	8	21	7	17	2	C	56/44 x 21	608-RS		80 130
60	46	15	24	11		10	A	56/15 x 24	6202-ZZ		80 102
60	54	15	20	11	11	1	C	60/15 x 20	6202-ZZ		80 328
65	57	25	12	12	3,6	1,6	B	65/57 x 12	6005-ZZ		80 142
70	62	17	20	12		12	A	70/62 x 20	6203-ZZ		80 219
70	60	10	26	9	11		C ²⁾	70/60/57 x 26	6200-ZZ		80 153
65	57				3,6	1,6	B ²⁾			60 312.01	
70	60	10	17	9	12	6	B	70/60 x 17	6200-ZZ		
70	60	10	17	9	11	0,5	C	70/60 x 17	6200-ZZ		80 154
70	60	17	17	12	11	0,5	C	70/60 x 17	6203-ZZ		80 145
70	60	17	17	14		5,5	A	70/16 x 17	6303-ZZ	60 047	
70	63	15	15	11		7	A	70/63 x 15	6202-ZZ		80 310
84	76,8	20	16	12	2x4,5	2x1,7	B	84/77 x 16	6004-ZZ		80 204
90	76	17	20	10		5,5	A	90/76 x 20	6003-ZZ		80 117
90	76	17	20	10		8	A	90/76 x 20	6003-ZZ		80 117.01
90	80	17	20	14	10		C	90/80 x 20	6303-2RS		80 232
90	80	17	20	14	15		C	90/80 x 20	6303-2RS		80 232.01
95	85	17	20	12		5,5	A	95/85 x 20	6203-ZZ		80 239

Dimensions in mm. Further dimensions, other thermoplastic materials and special executions on request.

Step and Chain Rollers of ACLATHAN®

Tyres

type Pu L:
polyurethane elastomer,
approx. 90 to 95 Shore A

type Pu Pa L:
polyurethane elastomer,
approx. 90 to 95 Shore A

type Pu St L:
polyurethane elastomer,
approx. 94 Shore A

type Pu Al L:
polyurethane elastomer,
approx. 94 Shore A

Properties

- extremely abrasion resistant
- resilient
- silent running
- no chalking
- temperature range
-30° C to +80° C
(-72° F to +176° F)

Executions

Legend

Pu = polyurethane
Pa = polymer (i.e. ACLAMID)
St = steel
Al = aluminium
L = bearing

Nominal article sizes/executions (diagrammatic sketches)

type Pu L

**type Pu St L
bzw. Type Pu Al L**

type Pu Pa L

D	d	B	B ₁	b	designation	execution	tyre	bearing	type	art. no.
75	20	24		14	75/20 x 24	cylindrical	ACLATHAN	6204-2RS	Pu St L	141 715
76	20	25		14	76/20 x 25	cylindrical	ACLATHAN-KH	6204-ZZ	Pu Pa L	60 217
76	20	25		14	76/20 x 25	cylindrical	ACLATHAN-KH	6204-ZZ	Pu Pa L	60 043
76,2	25	30		15	76,2/25 x 30	cylindrical	ACLATHAN	6205-ZZ	Pu St L	141 068
80	20	25		12	80/20 x 25	cylindrical	ACLATHAN-KH	6004-ZZ	Pu Pa L	60 009
80	20	25		12	80/20 x 25	cylindrical	ACLATHAN-KH	6004-2RS	Pu Pa L	60 183
80	25	25		15	80/25 x 25	cylindrical	ACLATHAN-KH	6205-2RS	Pu Pa L	60 184
80	25	25		15	80/25 x 25	cylindrical	ACLATHAN	6205-ZZ	Pu St L	140 420
100	20	30		14	100/20 x 30	cylindrical	ACLATHAN	6204-ZZ	Pu Al L	142 983
100	25	20		15	100/25 x 20	cylindrical	ACLATHAN	6205-ZZ	Pu St L	140 423
120	25	30		15	120/25 x 30	convex R200	ACLATHAN	6205-2RS	Pu St L	140 773.06
120	25	35		15	120/25 x 35	cylindrical	ACLATHAN-KH	6205-2RS	Pu Pa L	60 181
130	17	20		12	130/17 x 20	cylindrical	ACLATHAN	6203-ZZ	Pu Pa L	60 019

Dimensions in mm. Further dimensions, other thermoplastic materials and special executions on request.

ACLA Rollers of ACLATHAN® for ACLA Roller Guides and other Roller Guides

Tyre and properties

The rollers of the high-quality polyurethane elastomer ACLATHAN® for the lift industry offer the following advantages for the application:

- low rolling resistance
- high load capacity
- excellent abrasion and wear resistance

- low oscillation on account of high concentricity
- silent running
- maintenance-free
- oil-resistant
- minimum compression set (flattening) after temporary standstill

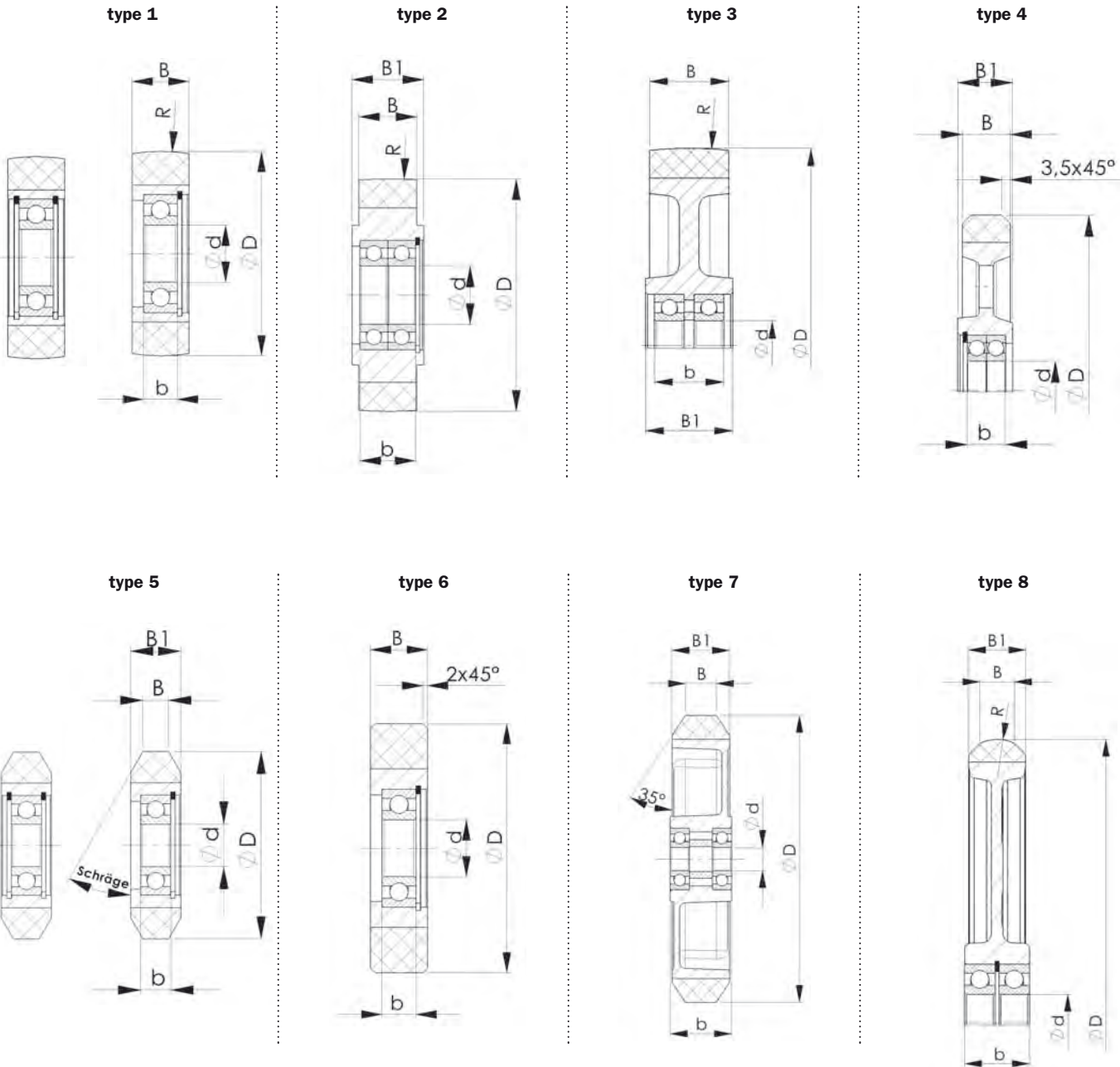
Types

- Pu St L
- Pu Al L
- Pu G 2L

Legend

Pu = polyurethane
 St = steel
 Al = aluminium
 G = cast iron
 L = bearing
 2L = 2 bearings

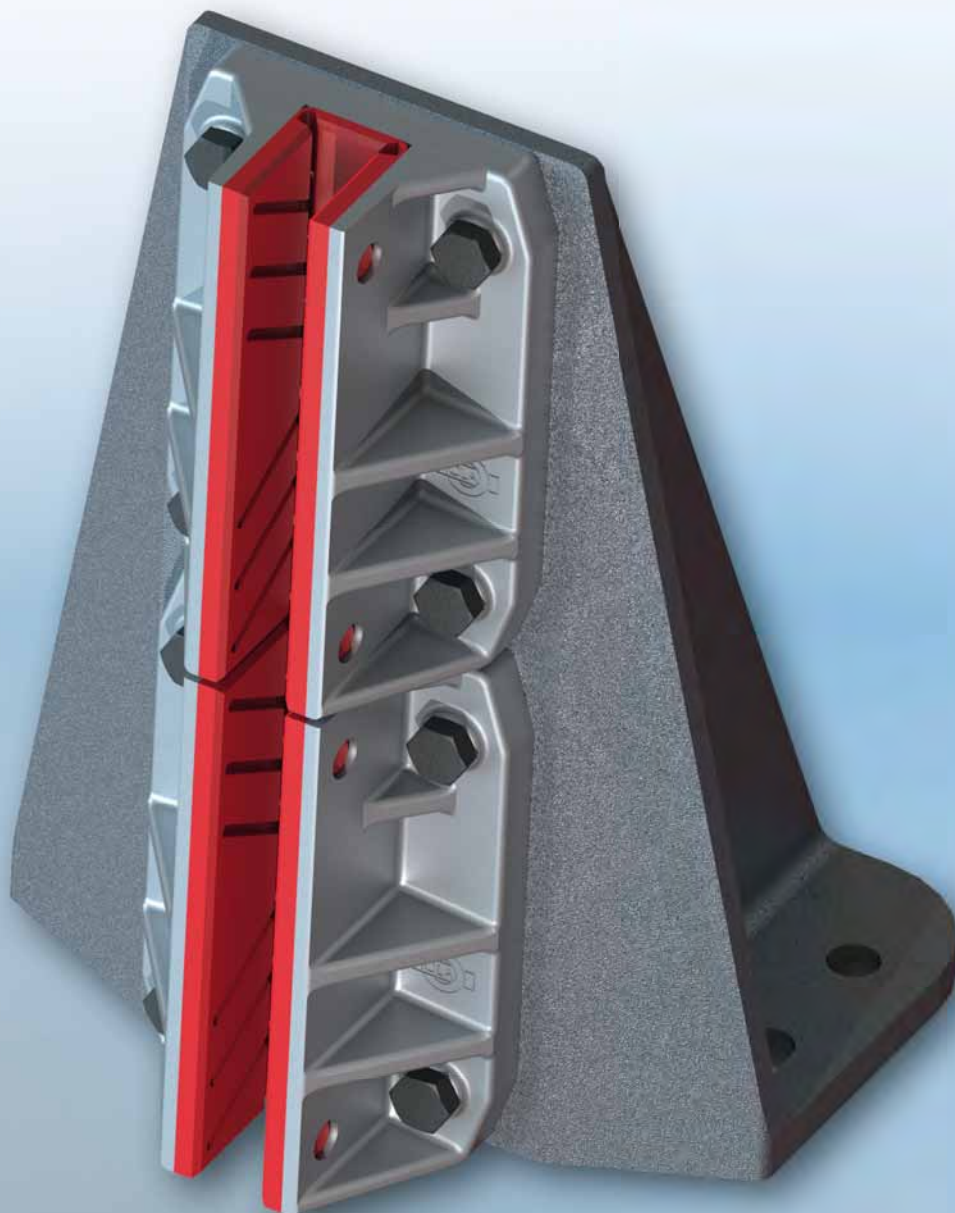
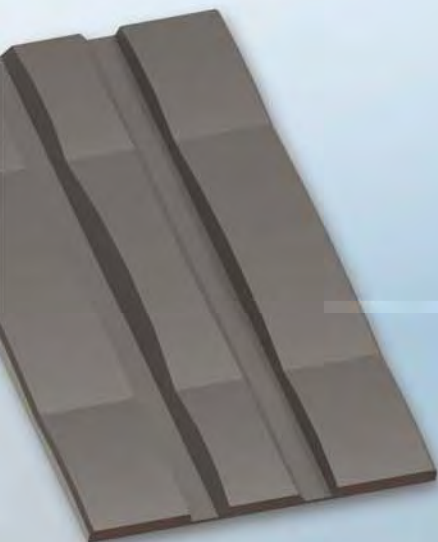
Nominal article sizes/executions (diagrammatic sketches)



utilization	D	d	B	B ₁	b	designation	execution	quant./bearing	type	type	art. no.
AR 0.1	40	10	15		8	40/10 x 15	convex R80	1x 6000-2RS	1	Pu St L	142 293.03
AR 0	50	17	18		10	50/17 x 18	convex R80	1x 6003-2RS	1	Pu St L	142 062.01
AR 0	60	17	18		10	60/17 x 18	convex R80	1x 6003-2RS	1	Pu St L	142 064.04
AR 0	70	17	18		10	70/17 x 18	convex R80	1x 6003-2RS	1	Pu St L	142 065.02
AR 1	80	25	25		15	80/25 x 25	convex R200	1x 6205-2RS	1	Pu St L	141 867.06
AR 1	100	25	25	31	24	100/25 x 25/31	convex R200	2x 6005-2RS	2	Pu St 2L	141 863.08
AR 1 (1 bearing)	100	25	25		15	100/25 x 25	convex R200	1x 6205-2RS	1	Pu St L	141 863.09
AR 1	125	25	25	31	24	125/25 x 25/31	convex R200	2x 6005-2RS	2	Pu St 2L	141 868.02
AR 1(1 bearing)	125	25	25		15	125/25 x 15	convex R200	1x 6205-2RS	1	Pu St L	141 868.03
AR 1B	120	25	30		15	120/25 x 30	convex R200	1x 6205-2RS	1	Pu St L	140 773.06
AR 1B	125	25	30		15	125/25 x 30	convex R200	1x 6205-2RS	1	Pu St L	140 776.06
AR 1F	100	25	25	31	24	100/25 x 25/31	convex R200	2x 6005-2RS	2	Pu St 2L	141 863.08
ARW 2	80	30	20		13	80/30 x 20	convex R200	1x 6006-2RS	1	Pu St L	140 419.04
AR 3	148	25	38	40	35	148/25 x 38	convex R200	2x 6205-2RS	3	Pu G 2L	141 955.05
AR 3	179	25	35		24	179/25 x 35	convex R200	2x 6005-2RS	1	Pu G 2L	142 416.04
AR 3	200	25	40	40	35	200/25 x 40	convex R200	2x 6205-2RS	3	Pu G 2L	142 417.04
AR 3F	148	25	20	23	16	148/25 x 20/23	2x chamfer 3,5 x 45°	2x 16005-ZZ	4	Pu St 2L	142 997.01
HSM RG	80	30	20		13	80/30 x 20	convex R200	1x 6006-2RS	1	Pu St L	140 419.04
HSML RG	100	25	30		15	100/25 x 30	convex R200	1x 6205-2RS	1	Pu St L	141 915.02
HSML RG	125	25	30		15	125/25 x 30	convex R200	1x 6205-2RS	1	Pu St L	140 776.06
Spare parts for other Roller Guides	70	25	25		15	70/25 x 25	convex R200	1x 6205-ZZ	1	Pu St L	140 418.05
	75	17	10,2	20	12	75/17 x 10,2/20	2 x bevel 30°	1x 6203-2RS	5	Pu St L	140 653
	79	25	25		15	79/25 x 25	convex R200	1x 6205-2RS	1	Pu St L	141 867.09
	100	25	15	25	15	100/25 x 15/25	2 x bevel 25°	1x 6205-ZZ	5	Pu Al L	143 319
	110	25	25		15	110/25 x 25	convex R50	1x 6205-ZZ	1	Pu Al L	143 319.05
	120	30	30		16	120/30 x 30	chamfer 2 x 45°	1x 6206-ZZ	6	Pu St L	142 060
	125	20	30		14	125/20 x 30	chamfer 2 x 45°	1x 6204-2RS	6	Pu St L	140 856
	125	20	30		14	125/20 x 30	chamfer 2 x 45°	1x 6204-2RS SKF	6	Pu St L	140 856.01
	150	12	16	30	32	150/12 x 30/32	2 x bevel 35°	2x 6201-2RS	7	Pu Al 2L	143 248
	300	30	18	30	34	300/30 x 30/34	convex R22	2x 6206-2RS	8	Pu Al 2L	141 693.03

Dimensions in mm. Further dimensions, other materials and special executions on request.





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Dimensions in mm. We reserve the right to change sizes. Further dimensions and special types on request. Our verbal or written recommendations for any application as well as tests are carried out to the best of our knowledge. They are without engagement also as far as patent rights of third parties are concerned, and do not exempt you from checking the products supplied by us to their suitability for the intended procedure and purpose. Application, use and processing of the products are outside our control, and are exclusively the responsibility of the customer. Moreover our general sales conditions apply.

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