

Accualign Lifters

3D SELF-ALIGNING SYSTEM

ELIMINATING BINDING & BREAKING

PRECISION LIFTERS FOR PRECISION MOLDERS

ACCUALIGN LIFTERS

Lifters Binding and Breaking? Problem Solved!

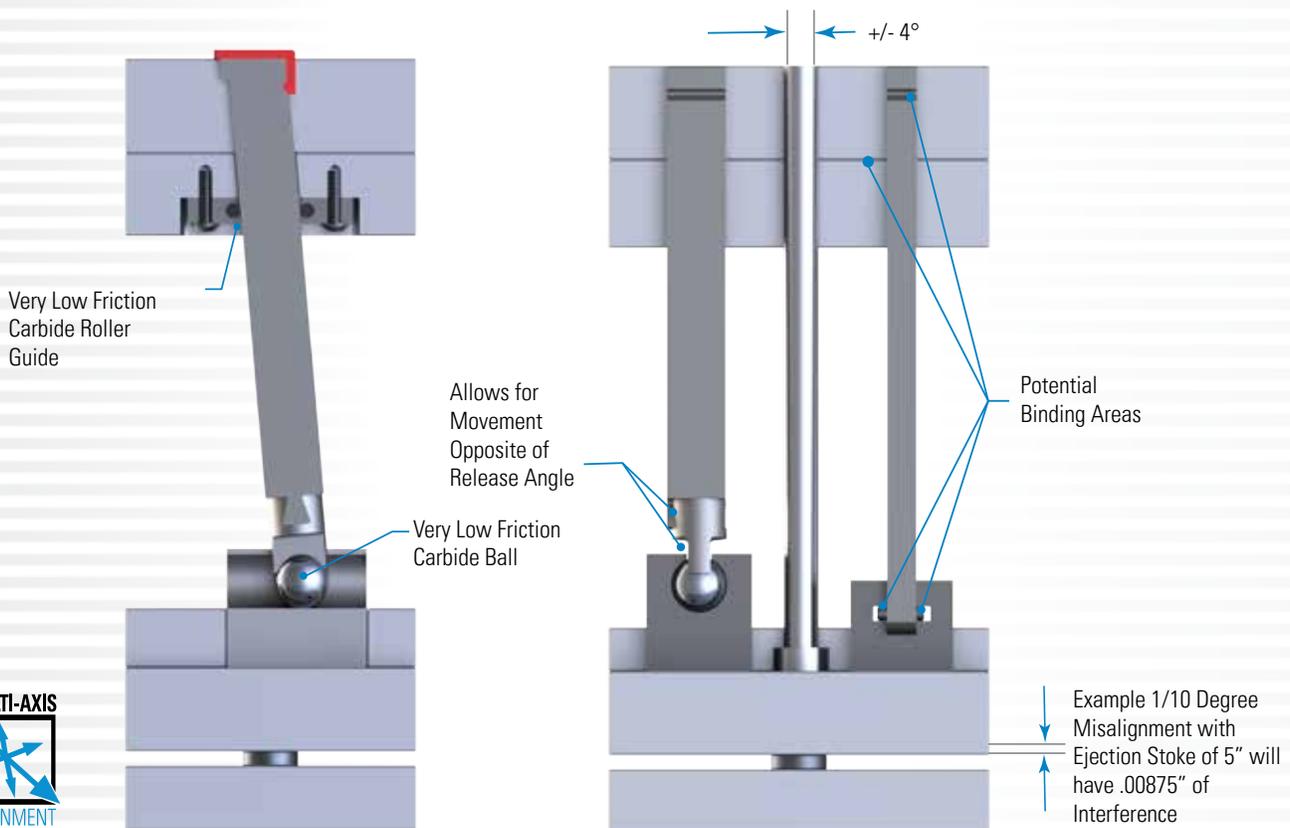
Mold designers face a challenge when determining how to best eject a part with undercuts. A lifter is often the preferred solution but there is always an element of the unknown. Thermal expansions of the mold plates or any misalignment of the tool either during manufacturing or through the tool's lifecycle can result in plate movement placing pressure on the lifter causing the lifter to bind or possibly even break. With its unique multi-axis self-aligning capabilities, the new DME Accualign Lifter solves this problem providing the mold design with more flexibility and peace of mind.

These lifters have been designed and engineered to encompass most undercut applications with the use of off-the-shelf components. The Accualign Lifter is available in round rod with a guide bushing (and optional keeper key to secure the lift head) or a square/rectangle bar with roller guides, for support.



See page 14 for Conformal Cooled Lifters!

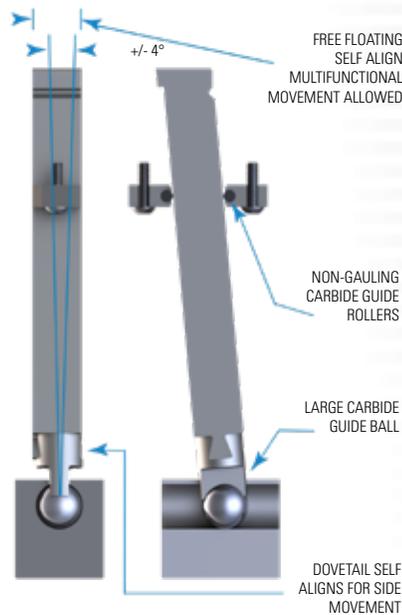
COMAPRISON	
ACCUALIGN (3D) BALL LIFTER	STANDARD LIFTER (2D)



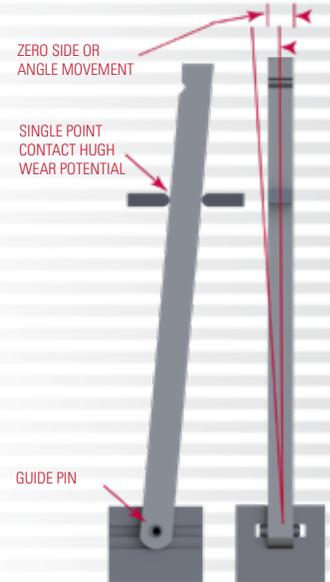
Features & Benefits

- Carbide ball adapter provides long life with little to no wear
- Precision dovetail designed for a positive union of the adapter and rod with the ability to self-align
- Gasket designed to allow for fit flexibility of the lifter head during installation
- Gasket also functions as a shock absorber during molding operation
- Available in Metric and Imperial standards

ACCUALIGN LIFTER BAR WITH GUIDE ROLLERS FEATURES



OTHER LIFTER BAR DESIGNS FEATURES



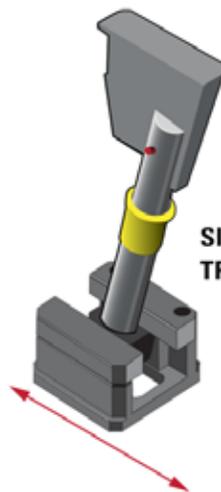
Flexibility & Dependability



ACCUALIGN LIFTER ROD



OTHER LIFTER ROD DESIGNS



Shoe and ball assembly wear after 2.2 million cycles

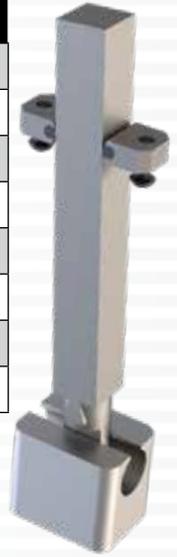


Production Tested!

Results show minimal wear after 2.2 million cycles.

250 & 6MM SERIES SOLID LIFTER SYSTEM

LIFTER BARS H-13 (1.2344)					
ITEM NUMBER	(T) THICKNESS (DOVETAIL DIRECTION)	(W) WIDTH	(L) LENGTH	ADAPTOR BALL	SHOE SERIES
ALBD-0250-0250-08-5	0.260	0.260	8	ALA06	ALS06
ALBD-0250-0375-08-5	0.260	0.385	8	ALA06	ALS06
ALBX-0250-0375-08-5	0.260 (NO DOVETAIL)	0.385	8		
ALBD-0250-0500-10-5	0.260	0.510	10	ALA06	ALS06
ALBX-0250-0500-10-5	0.260 (NO DOVETAIL)	0.510	10		
ALBD-06-06-250-5	6.25mm	6.25mm	250mm	ALA06	ALS06
ALBD-06-10-250-5	6.25mm	10.25mm	250mm	ALA06	ALS06
ALBX-06-10-250-5	6.25mm (NO DOVETAIL)	10.25mm	250mm		



Example: ALBD-1000-0750-14-5

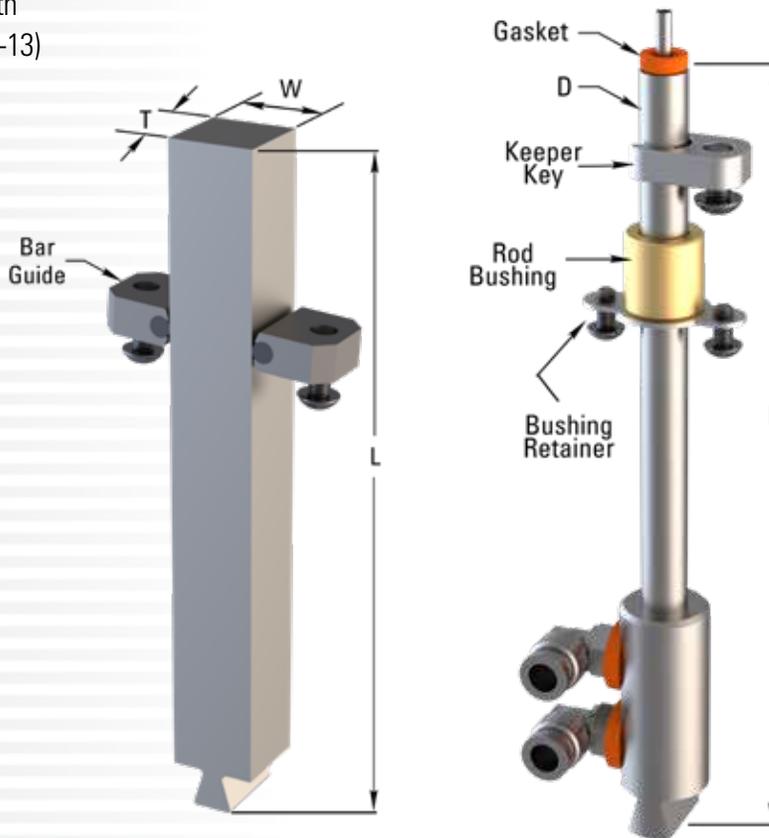
ALBD (Dovetail) or ALBX (no Dovetail)

1000 (T) Thickness and direction of the Dovetail

0750 (W) Width that travels along the direction of the shoe

14 (L) Bar Length

5 Steel Type (H-13)

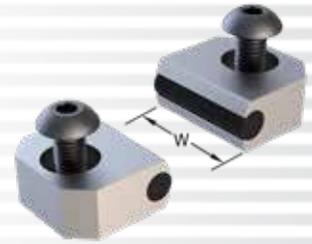


LIFTER RODS H-13 (1.2344)				
ITEM NUMBER*	DIAMETER	LENGTH	ADAPTOR BALL	SHOE SERIES
ALR0250-08	0.250	8	ALA06	ALS06
ALR06-250	06mm	250mm		

*Add "X" after "R" in part number to order blank rod (no dovetail).

250 & 6MM SERIES SOLID LIFTER SYSTEM

BAR GUIDES (2 PK)					
ITEM NUMBER	SIZE (W)	SCREW SIZE	ITEM NUMBER	SIZE (W)	SCREW SIZE
ALBG10	10mm	M3-.5x6	ALBG20	20mm	M5-.8x10
ALBG15	15mm	M3-.5x6	ALBG30	30mm	M5-.8x10



KEEPER KEY	SCREW SIZE
ALK06	M3-.5x6



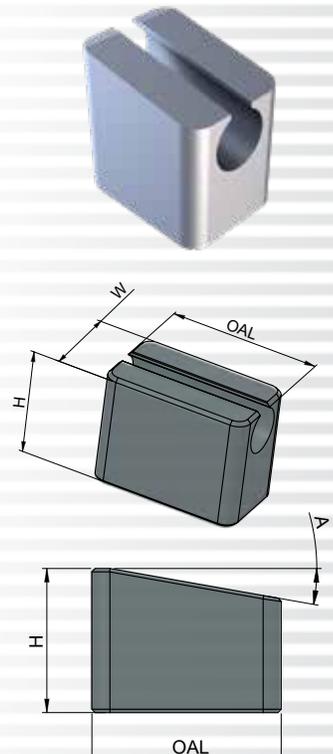
ADAPTOR BALL
ALA06



ROD BUSHING (includes Snap Ring)				GASKET	
	ITEM NUMBER	ID	OD		ITEM NUMBER
	SBS0204S	0.250	0.500		LRGK0250
	SBS0612S	6mm	10mm		

GASKETS ORDERED SEPERATELY

LIFTER SHOES D2 (1.2379)						
ITEM NUMBER	TRAVEL	OAL	WIDTH	HEIGHT	ANGLE	SCREW
ALS06-0300	3mm	10mm	10mm	16mm	0	M3x0. (Included)
ALS06-0305	3mm	10mm	10mm	16mm	5	
ALS06-0310	3mm	10mm	10mm	16mm	10	
ALS06-0315	3mm	10mm	10mm	16mm	15	
ALS06-1200	12mm	20mm	10mm	16mm	0	
ALS06-1205	12mm	20mm	10mm	16mm	5	
ALS06-1210	12mm	20mm	10mm	16mm	10	
ALS06-1215	12mm	20mm	10mm	16mm	15	
CUSTOM ANGLES UPON REQUEST*						



For technical questions and requests for custom angles please contact
DME Mechanical Engineering at dme_mech_eng@dme.net

375 & 10MM SERIES SOLID LIFTER SYSTEM

LIFTER BARS H-13 (1.2344)					
ITEM NUMBER	THICKNESS (DOVETAIL DIRECTION)	WIDTH	LENGTH	ADAPTOR BALL	SHOE SERIES
ALBD-0375-0250-08-5	0.385	0.260	8	ALA06	ALS06
ALBX-0375-0375-10-5	0.385 (NO DOVETAIL)	0.385	10		
ALBD-0375-0500-10-5	0.385	0.510	10	ALA10	ALS10
ALBX-0375-0500-10-5	0.385 (NO DOVETAIL)	0.510	10		
ALBD-0375-0750-10-5	0.385	0.760	10	ALA10	ALS10
ALBX-0375-0750-10-5	0.385 (NO DOVETAIL)	0.760	10		
ALBD-10-06-250-5	10.25mm	6.25mm	250mm	ALA06	ALS06
ALBD-10-10-400-5	10.25mm	10.25mm	400mm	ALA10	ALS10
ALBX-10-10-400-5	10.25mm (NO DOVETAIL)	10.25mm	400mm		
ALBD-10-15-400-5	10.25mm	15.25mm	400mm	ALA10	ALS10
ALBX-10-15-400-5	10.25mm (NO DOVETAIL)	15.25mm	400mm		
ALBD-10-20-400-5	10.25mm	20.25mm	400mm	ALA10	ALS10
ALBX-10-20-400-5	10.25mm (NO DOVETAIL)	20.25mm	400mm		



Example: ALBD-1000-0750-14-5

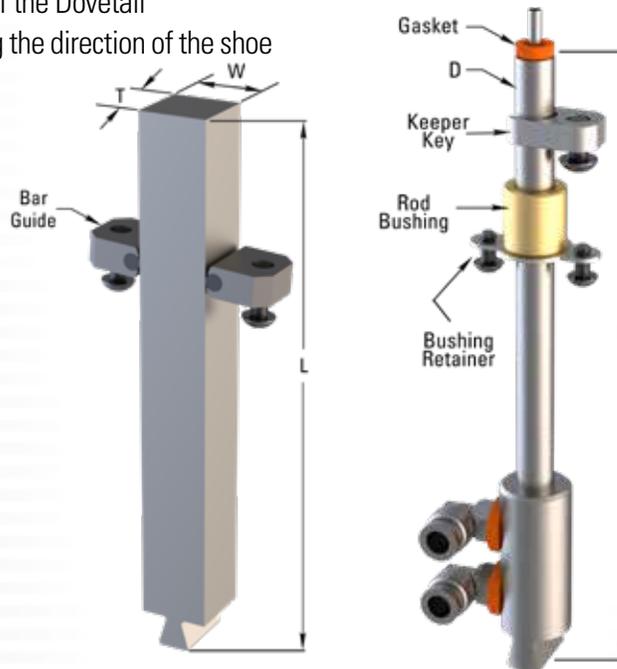
ALBD (Dovetail) or ALBX (no Dovetail)

1000 (T) Thickness and direction of the Dovetail

0750 (W) Width that travels along the direction of the shoe

14 (L) Bar Length

5 Steel Type (H-13)



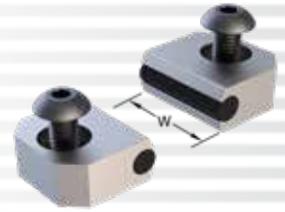
LIFTER RODS H-13 (1.2344)				
ITEM NUMBER*	DIAMETER	LENGTH	ADAPTOR BALL	SHOE SERIES
ALR0375-10	0.375	10	ALA10	ALS10
ALR10-400	10mm	400mm		

*Add "X" after "R" in part number to order blank rod (no dovetail).

375 & 10MM SERIES SOLID LIFTER SYSTEM

BAR GUIDES (2 PK)

ITEM NUMBER	SIZE (W)	SCREW SIZE	ITEM NUMBER	SIZE (W)	SCREW SIZE
ALBG10	10mm	M3-.5x6	ALBG20	20mm	M5-.8x10
ALBG15	15mm	M3-.5x6	ALBG30	30mm	M5-.8x10



ADAPTOR BALL

ALA06
ALA10



KEEPER KEY

ALK10	M5-.8x10
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ROD BUSHING (includes Snap Ring)

	ITEM NUMBER	ID	OD
	SBS0305S	0.375	0.625
	SBS1015S	10mm	14mm

GASKET

	ITEM NUMBER
	LRGK0375

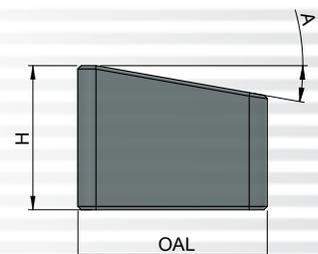
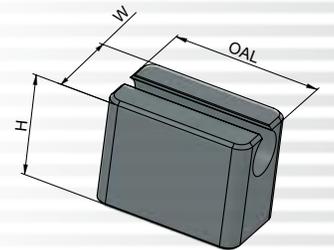
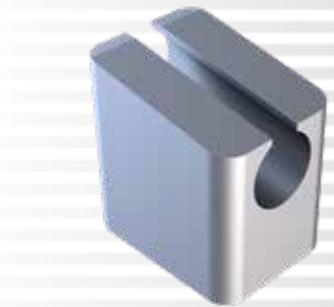
GASKETS ORDERED SEPARATELY

LIFTER SHOES D2 (1.2379)

ITEM NUMBER	TRAVEL	OAL	WIDTH	HEIGHT	ANGLE	SCREW
ALS06-0300	3mm	10mm	10mm	16mm	0	M3x0.5 (Included)
ALS06-0305	3mm	10mm	10mm	16mm	5	
ALS06-0310	3mm	10mm	10mm	16mm	10	
ALS06-0315	3mm	10mm	10mm	16mm	15	
ALS06-1200	12mm	20mm	10mm	16mm	0	
ALS06-1205	12mm	20mm	10mm	16mm	5	
ALS06-1210	12mm	20mm	10mm	16mm	10	
ALS06-1215	12mm	20mm	10mm	16mm	15	
ALS10-1400	14mm	24mm	16mm	24mm	0	M4x0.7 (Included)
ALS10-1405	14mm	24mm	16mm	24mm	5	
ALS10-1410	14mm	24mm	16mm	24mm	10	
ALS10-1415	14mm	24mm	16mm	24mm	15	
ALS10-2200	22mm	32mm	16mm	24mm	0	
ALS10-2205	22mm	32mm	16mm	24mm	5	
ALS10-2210	22mm	32mm	16mm	24mm	10	
ALS10-2215	22mm	32mm	16mm	24mm	15	

CUSTOM ANGLES UPON REQUEST

For technical questions and requests for custom angles please contact
DME Mechanical Engineering at dme_mech_eng@dme.net



500 & 14MM-15MM SERIES SOLID LIFTER SYSTEM

LIFTER BARS H-13 (1.2344)					
ITEM NUMBER	THICKNESS (DOVETAIL DIRECTION)	WIDTH	LENGTH	ADAPTOR BALL	SHOE SERIES
ALBD-0500-0250-10-5	0.510	0.260	10	ALA06	ALS06
ALBD-0500-0375-10-5	0.510	0.385	10	ALA10	ALS10
ALBD-0500-0500-14-5	0.510	0.510	14	ALA14	ALS14
ALBX-0500-0500-14-5	.510 (NO DOVETAIL)	0.510	14		
ALBD-0500-0750-14-5	0.510	0.760	14	ALA14	ALS14
ALBX-0500-0750-14-5	.510 (NO DOVETAIL)	0.760	14		
ALBD-0500-1000-14-5	0.510	1.010	14	ALA14	ALS14
ALBX-0500-1000-14-5	.510 (NO DOVETAIL)	1.010	14		
ALBD-15-10-400-5	15.25mm	10.25mm	400mm	ALA10	ALS10
ALBD-15-15-400-5	15.25mm	15.25mm	400mm	ALA14	ALS14
ALBX-15-15-400-5	15.25mm (NO DOVETAIL)	15.25mm	400mm		
ALBD-15-20-400-5	15.25mm	20.25mm	400mm	ALA14	ALS14
ALBX-15-20-400-5	15.25mm (NO DOVETAIL)	20.25mm	400mm		



Example: ALBD-1000-0750-14-5

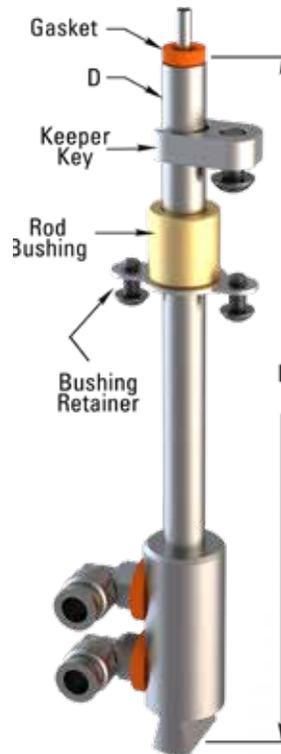
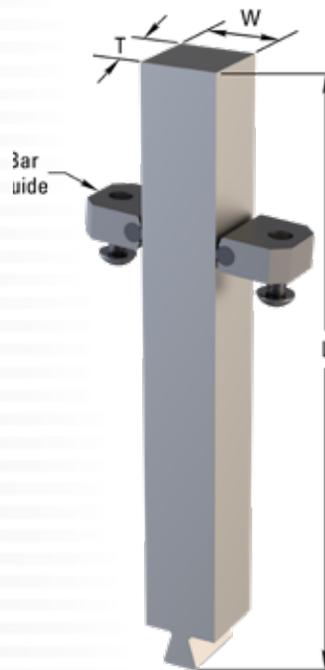
ALBD (Dovetail) or ALBX (no Dovetail)

1000 (T) Thickness and direction of the Dovetail

0750 (W) Width that travels along the direction of the shoe

14 (L) Bar Length

5 Steel Type (H-13)



LIFTER RODS H-13 (1.2344)				
ITEM NUMBER*	DIAMETER	LENGTH	ADAPTOR BALL	SHOE SERIES
ALR0500-14	0.500	14	ALA14	ALS14
ALR14-400	14mm	400mm		

*Add "X" after "R" in part number to order blank rod (no dovetail).

500 & 14MM-15MM SERIES SOLID LIFTER SYSTEM

BAR GUIDES (2 PK)

ITEM NUMBER	SIZE (W)	SCREW SIZE	ITEM NUMBER	SIZE (W)	SCREW SIZE
ALBG10	10mm	M3-.5x6	ALBG20	20mm	M5-.8x10
ALBG15	15mm	M3-.5x6	ALBG30	30mm	M5-.8x10



ADAPTOR BALL

ALA06
ALA10
ALA14



KEEPER KEY

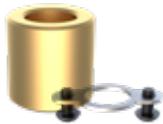
ALK14	M6-1X12
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SCREW SIZE



ROD BUSHING (includes Bushing Retainer)

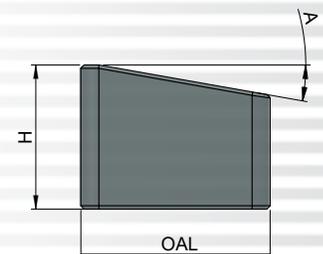
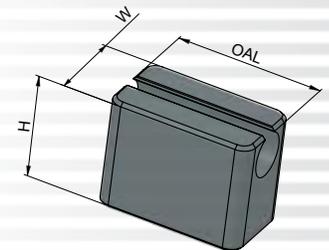
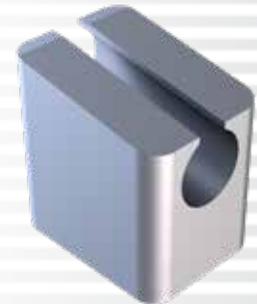
ITEM NUMBER	ID	OD	GASKET	
			ITEM NUMBER	
SBS0406	0.500	0.750	LRGK0500	
SBS1420	14mm	20mm		



GASKETS ORDERED SEPARATELY

LIFTER SHOES D2 (1.2379)

ITEM NUMBER	TRAVEL	OAL	WIDTH	HEIGHT	ANGLE	SCREW
ALS06-0300	3mm	10mm	10mm	16mm	0	M3x0.5 (Included)
ALS06-0305	3mm	10mm	10mm	16mm	5	
ALS06-0310	3mm	10mm	10mm	16mm	10	
ALS06-0315	3mm	10mm	10mm	16mm	15	
ALS06-1200	12mm	20mm	10mm	16mm	0	
ALS06-1205	12mm	20mm	10mm	16mm	5	
ALS06-1210	12mm	20mm	10mm	16mm	10	
ALS06-1215	12mm	20mm	10mm	16mm	15	
ALS10-1400	14mm	24mm	16mm	24mm	0	M4x0.7 (Included)
ALS10-1405	14mm	24mm	16mm	24mm	5	
ALS10-1410	14mm	24mm	16mm	24mm	10	
ALS10-1415	14mm	24mm	16mm	24mm	15	
ALS10-2205	22mm	32mm	16mm	24mm	5	
ALS10-2200	22mm	32mm	16mm	24mm	0	
ALS10-2210	22mm	32mm	16mm	24mm	10	
ALS10-2215	22mm	32mm	16mm	24mm	15	
ALS14-1900	19mm	32mm	24mm	32mm	0	M6x1 (Included)
ALS14-1905	19mm	32mm	24mm	32mm	5	
ALS14-1910	19mm	32mm	24mm	32mm	10	
ALS14-1915	19mm	32mm	24mm	32mm	15	
ALS14-2900	29mm	42mm	24mm	32mm	0	
ALS14-2905	29mm	42mm	24mm	32mm	5	
ALS14-2910	29mm	42mm	24mm	32mm	10	
ALS14-2915	29mm	42mm	24mm	32mm	15	



CUSTOM ANGLES UPON REQUEST

For technical questions and requests for custom angles please contact DME Mechanical Engineering at dme_mech_eng@dme.net

750 & 20MM SERIES SOLID LIFTER SYSTEM

LIFTER BARS H-13 (1.2344)					
ITEM NUMBER	THICKNESS (DOVETAIL DIRECTION)	WIDTH	LENGTH	ADAPTOR BALL	SHOE SERIES
ALBD-0750-0375-10-5	0.760	0.385	10	ALA10	ALS10
ALBD-0750-0500-14-5	0.760	0.510	14	ALA14	ALS14
ALBD-0750-0750-14-5	0.760	0.760	14	ALA20	ALS20
ALBX-0750-0750-14-5	.760 (NO DOVETAIL)	0.760	14		
ALBD-0750-1000-14-5	0.760	1.010	14	ALA20	ALS20
ALBX-0750-1000-14-5	.760 (NO DOVETAIL)	1.010	14		
ALBD-20-10-400-5	20.25mm	10.25mm	400mm	ALA10	ALS10
ALBD-20-15-400-5	20.25mm	15.25mm	400mm	ALA14	ALS14
ALBD-20-20-400-5	20.25mm	20.25mm	400mm	ALA20	ALS20
ALBX-20-20-400-5	20.25mm (NO DOVETAIL)	20.25mm	400mm		



Example: ALBD-1000-0750-14-5

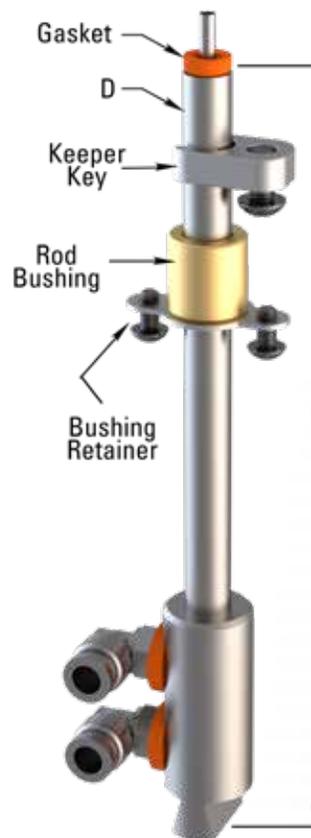
ALBD (Dovetail) or ALBX (no Dovetail)

1000 (T) Thickness and direction of the Dovetail

0750 (W) Width that travels along the direction of the shoe

14 (L) Bar Length

5 Steel Type (H-13)



LIFTER RODS H-13 (1.2344)				
ITEM NUMBER*	DIAMETER	LENGTH	ADAPTOR BALL	SHOE SERIES
ALR0750-18	0.750	18	ALA20	ALS20
ALR20-500	20mm	500mm		

*Add "X" after "R" in part number to order blank rod (no dovetail).

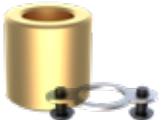
750 & 20MM SERIES SOLID LIFTER SYSTEM

BAR GUIDES (2 PK)

ITEM NUMBER	SIZE (W)	SCREW SIZE	ITEM NUMBER	SIZE (W)	SCREW SIZE
ALBG10	10mm	M3-.5x6	ALBG20	20mm	M5-.8x10
ALBG15	15mm	M3-.5x6	ALBG30	30mm	M5-.8x10



ROD BUSHING (includes Bushing Retainer)

	ITEM NUMBER	ID	OD
	SBS0613	0.750	1.125
	SBS2030	20mm	28mm

GASKET

	ITEM NUMBER
	LRGK0750

GASKETS ORDERED SEPARATELY

ADAPTOR BALL

ALA10
ALA14
ALA20



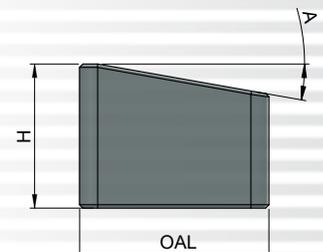
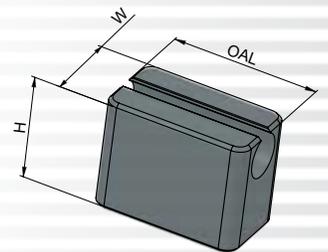
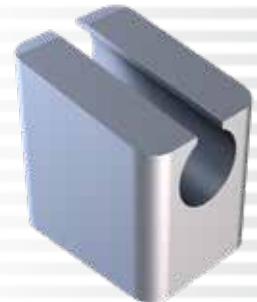
KEEPER KEY

KEEPER KEY	SCREW SIZE
ALK20	M10-1.5x20



LIFTER SHOES D2 (1.2379)

ITEM NUMBER	TRAVEL	OAL	WIDTH	HEIGHT	ANGLE	SCREW
ALS10-1400	14mm	24mm	16mm	24mm	0	M4x0.7 (Included)
ALS10-1405	14mm	24mm	16mm	24mm	5	
ALS10-1410	14mm	24mm	16mm	24mm	10	
ALS10-1415	14mm	24mm	16mm	24mm	15	
ALS10-2200	22mm	32mm	16mm	24mm	0	
ALS10-2205	22mm	32mm	16mm	24mm	5	
ALS10-2210	22mm	32mm	16mm	24mm	10	
ALS10-2215	22mm	32mm	16mm	24mm	15	
ALS14-1900	19mm	32mm	24mm	32mm	0	M6x1 (Included)
ALS14-1905	19mm	32mm	24mm	32mm	5	
ALS14-1910	19mm	32mm	24mm	32mm	10	
ALS14-1915	19mm	32mm	24mm	32mm	15	
ALS14-2900	29mm	42mm	24mm	32mm	0	
ALS14-2905	29mm	42mm	24mm	32mm	5	
ALS14-2910	29mm	42mm	24mm	32mm	10	
ALS14-2915	29mm	42mm	24mm	32mm	15	
ALS20-2800	28mm	48mm	36mm	50mm	0	M8x1.25 (Included)
ALS20-2805	28mm	48mm	36mm	50mm	5	
ALS20-2810	28mm	48mm	36mm	50mm	10	
ALS20-2815	28mm	48mm	36mm	50mm	15	
ALS20-4100	41mm	60mm	36mm	50mm	0	
ALS20-4105	41mm	60mm	36mm	50mm	5	
ALS20-4110	41mm	60mm	36mm	50mm	10	
ALS20-4115	41mm	60mm	36mm	50mm	15	



CUSTOM ANGLES UPON REQUEST

For technical questions and requests for custom angles please contact DME Mechanical Engineering at dme_mech_eng@dme.net

1000 & 25MM SERIES SOLID LIFTER SYSTEM

LIFTER BARS H-13 (1.2344)					
ITEM NUMBER	THICKNESS (DOVETAIL DIRECTION)	WIDTH	LENGTH	ADAPTOR BALL	SHOE SERIES
ALBD-1000-0500-14-5	1.010	0.510	14	ALA14	ALS14
ALBD-1000-0750-14-5	1.010	0.760	14	ALA20	ALS20

Example: ALBD-1000-0750-14-5

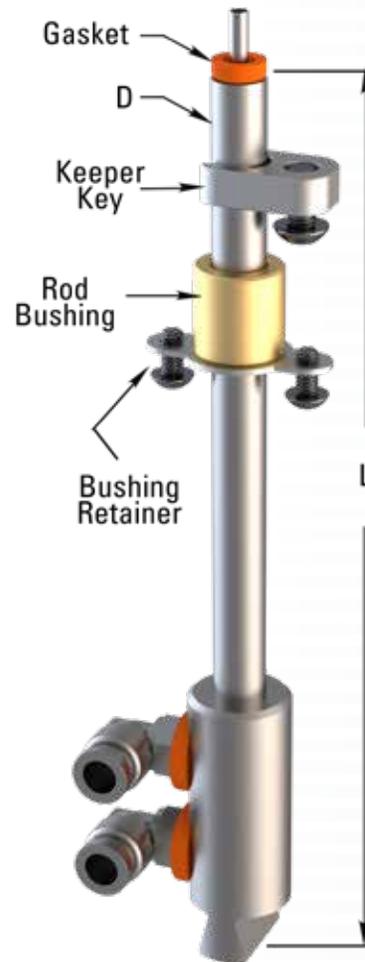
ALBD (Dovetail) or ALBX (no Dovetail)

1000 (T) Thickness and direction of the Dovetail

0750 (W) Width that travels along the direction of the shoe

14 (L) Bar Length

5 Steel Type (H-13)



LIFTER RODS H-13 (1.2344)				
ITEM NUMBER*	DIAMETER	LENGTH	ADAPTOR BALL	SHOE SERIES
ALR1000-18	1.000	18	ALA25	ALS25
ALR25-500	25mm	500mm		

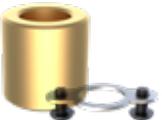
*Add "X" after "R" in part number to order blank rod (no dovetail).

1000 & 25MM SERIES SOLID LIFTER SYSTEM

BAR GUIDES (2 PK)

ITEMN NUMBER	SIZE (W)	SCREW SIZE	ITEM NUMBER	SIZE (W)	SCREW SIZE
ALBG10	10mm	M3-.5x6	ALBG20	20mm	M5-.8x10
ALBG15	15mm	M3-.5x6	ALBG30	30mm	M5-.8x10


ROD BUSHING (includes Bushing Retainer)

	ITEM NUMBER	ID	OD
	SBS0813	1.000	1.375
	SBS2540	25mm	33mm

GASKET

	ITEM NUMBER
	LRGK1000

GASKETS ORDERED SEPERATELY
ADAPTOR BALL

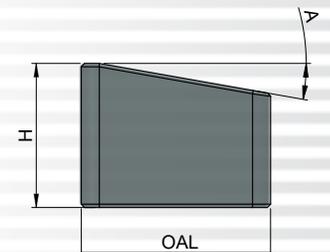
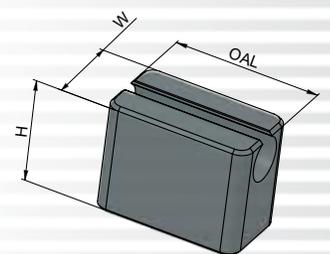
ALA14
ALA25
ALA20


KEEPER KEY

KEEPER KEY	SCREW SIZE
ALK25	M12-1.75x25

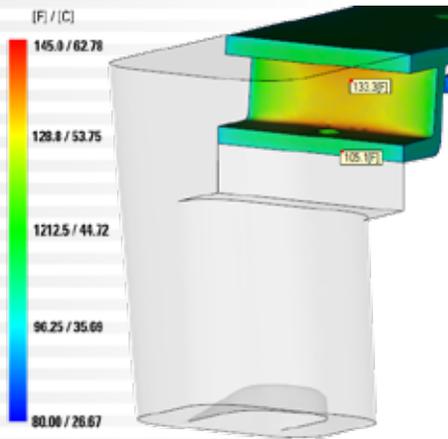

LIFTER SHOES D2 (1.2379)

PART NUMBER	TRAVEL	OAL	WIDTH	HEIGHT	ANGLE	SCREW
ALS14-1900	19mm	32mm	24mm	32mm	0	M6x1 (Included)
ALS14-1905	19mm	32mm	24mm	32mm	5	
ALS14-1910	19mm	32mm	24mm	32mm	10	
ALS14-1915	19mm	32mm	24mm	32mm	15	
ALS14-2900	29mm	42mm	24mm	32mm	0	
ALS14-2905	29mm	42mm	24mm	32mm	5	
ALS14-2910	29mm	42mm	24mm	32mm	10	
ALS14-2915	29mm	42mm	24mm	32mm	15	
ALS20-2800	28mm	48mm	36mm	50mm	0	M8x1.25 (Included)
ALS20-2805	28mm	48mm	36mm	50mm	5	
ALS20-2810	28mm	48mm	36mm	50mm	10	
ALS20-2815	28mm	48mm	36mm	50mm	15	
ALS20-4100	41mm	60mm	36mm	50mm	0	
ALS20-4105	41mm	60mm	36mm	50mm	5	
ALS20-4110	41mm	60mm	36mm	50mm	10	
ALS20-4115	41mm	60mm	36mm	32mm	15	
ALS25-3800	38mm	64mm	48mm	65mm	0	M12x1.75 (Included)
ALS25-3805	38mm	64mm	48mm	65mm	5	
ALS25-3810	38mm	64mm	48mm	65mm	10	
ALS25-3815	38mm	64mm	48mm	65mm	15	
ALS25-5400	54mm	80mm	48mm	65mm	0	
ALS25-5405	54mm	80mm	48mm	65mm	5	
ALS25-5410	54mm	80mm	48mm	65mm	10	
ALS25-5415	54mm	80mm	48mm	65mm	15	

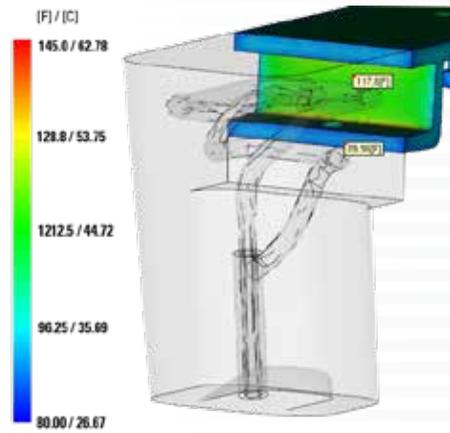


CUSTOM ANGLES UPON REQUEST

COOLING LIFTER RODS



Standard Lifter Head



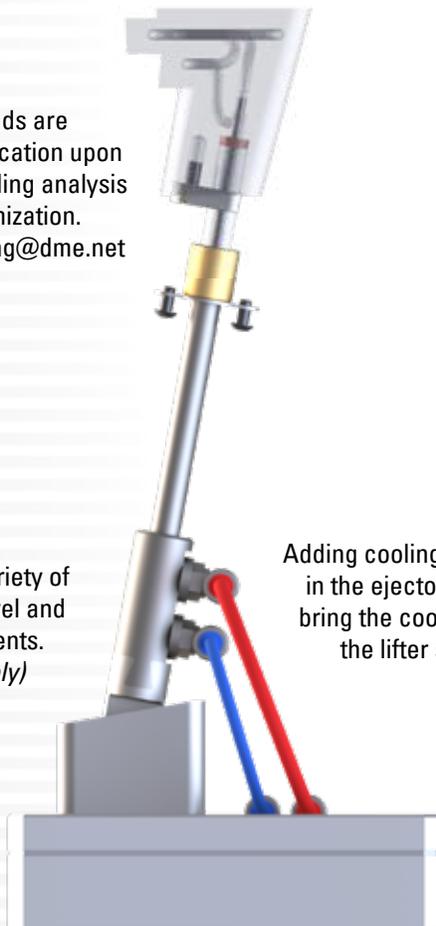
Cooled Rod & Head

Adding cooling to the lifter head not only reduces temperature delta, it allows the lifter head to cool evenly improving part quality and potentially reducing cycle time.

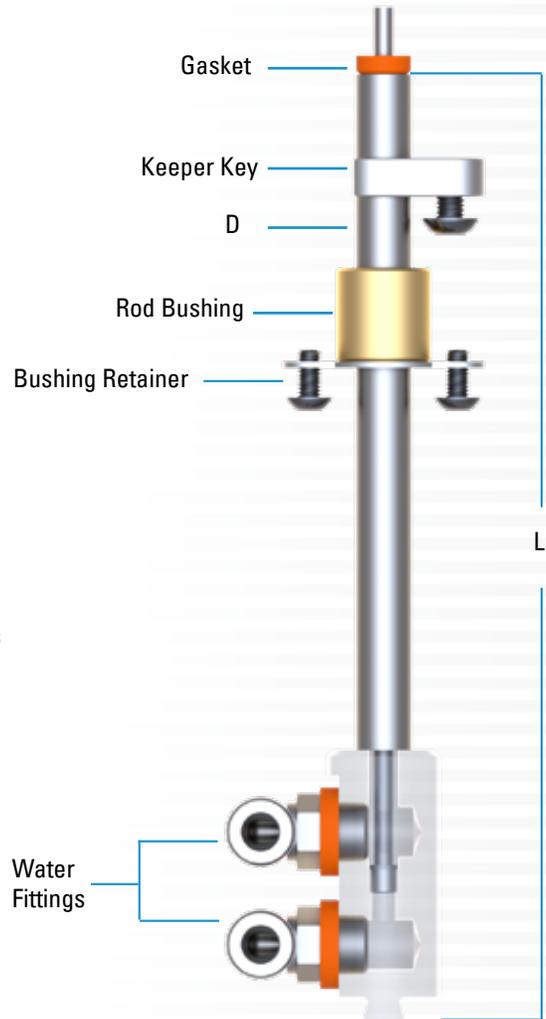
Self-contained system provides EZ cooling with the benefit of self-alignment.

Conformal lifter heads are available to fit your application upon request. A moldflow cooling analysis will be used for optimization. Please contact Mech_Eng@dme.net

Shoes come in a wide variety of sizes to accommodate travel and acceleration requirements. *(Shoes sold separately)*



Adding cooling supply lines in the ejector plate can bring the cooling right to the lifter system.



COOLING LIFTER RODS

500 SERIES COOLED LIFTER ROD ASSEMBLY

ASSEMBLY ITEM NUMBER
KLRD0500ASM
0.050 Ø
17" OAL (includes shoe height)
MATERIAL - H-13 (1.2344)

ASSEMBLY INCLUDES:

QTY	ITEM NUMBER	DESCRIPTION
1 EA	ALA20	ADAPTOR BALL
1 EA	HF187T-18	HIGH FLOW TUBE
1 EA	SBS0406 / ABR14	BUSHING & BUSHING RETAINER (SET)
1 EA	ALK14	KEEPER KEY & SCREW (SET)
1 EA	LRGK0500	GASKET
4 EA	7397N52	WATER FITTINGS
1 EA	5648K48-R & 5648K48-B	RED HOSE & BLUE HOSE

Shoes sold separately

14MM SERIES COOLED LIFTER ROD ASSEMBLY

ASSEMBLY ITEM NUMBER
KLRD14ASM
14MM Ø
430MM OAL (includes shoe height)
MATERIAL - H-13 (1.2344)

ASSEMBLY INCLUDES:

QTY	ITEM NUMBER	DESCRIPTION
1 EA	ALA20	ADAPTOR BALL
1 EA	HF187T-18	HIGH FLOW TUBE
1 EA	SBS1420 / ABR14	BUSHING & BUSHING RETAINER (SET)
1 EA	ALK14	KEEPER KEY & SCREW (SET)
1 EA	LRGK0500	GASKET
4 EA	7397N52	WATER FITTINGS
1 EA	5648K48-R & 5648K48-B	RED HOSE & BLUE HOSE

Shoes sold separately

750 SERIES COOLED LIFTER ROD ASSEMBLY

ASSEMBLY ITEM NUMBER
KLRD0750ASM
0.075 Ø
17" OAL (includes shoe height)
MATERIAL - H-13 (1.2344)

ASSEMBLY INCLUDES:

QTY	ITEM NUMBER	DESCRIPTION
1 EA	ALA20	ADAPTOR BALL
1 EA	HF250T-18	HIGH FLOW TUBE
1 EA	SBS0613 / ABR20	BUSHING & BUSHING RETAINER (SET)
1 EA	ALK20	KEEPER KEY & SCREW (SET)
1 EA	LRGK0750	GASKET
4 EA	7397N52	WATER FITTINGS
1 EA	5648K48-R & 5648K48-B	RED HOSE & BLUE HOSE

Shoes sold separately

COOLING LIFTER ROD ASSEMBLIES

20MM SERIES COOLED LIFTER ROD ASSEMBLY

ASSEMBLY ITEM NUMBER
KLRD20ASM
20MM Ø
430MM OAL (includes shoe height)
MATERIAL - H-13 (1.2344)

ASSEMBLY INCLUDES:

QTY	ITEM NUMBER	DESCRIPTION
1 EA	ALA20	ADAPTOR BALL
1 EA	HF250T-18	HIGH FLOW TUBE
1 EA	SBS2030 / ABR20	ROD BUSHING & BUSHING RETAINER (SET)
1 EA	ALK20	KEEPER KEY & SCREW (SET)
1 EA	LRGK0750	GASKET
4 EA	7397N52	WATER FITTINGS
1 EA	5648K48-R & 5648K48-B	RED HOSE & BLUE HOSE

Shoes sold separately

1000 SERIES COOLED LIFTER ROD ASSEMBLY

ASSEMBLY ITEM NUMBER
KLRD1000ASM
1.000 Ø
18" OAL (includes shoe height)
MATERIAL - H-13 (1.2344)

ASSEMBLY INCLUDES:

QTY	ITEM NUMBER	DESCRIPTION
1 EA	ALA25	ADAPTOR BALL
1 EA	HF250T-18	HIGH FLOW TUBE
1 EA	SBS0813 / ABR25	ROD BUSHING & BUSHING RETAINER (SET)
1 EA	ALK25	KEEPER KEY & SCREW (SET)
1 EA	LRGK1000	GASKET
4 EA	7397N52	WATER FITTINGS
1 EA	5648K48-R & 5648K48-B	RED HOSE & BLUE HOSE

Shoes sold separately

25MM SERIES COOLED LIFTER ROD ASSEMBLY

ASSEMBLY ITEM NUMBER
KLRD25ASM
25MM Ø
450MM OAL (includes shoe height)
MATERIAL - H-13 (1.2344)

ASSEMBLY INCLUDES:

QTY	ITEM NUMBER	DESCRIPTION
1 EA	ALA25	ADAPTOR BALL
1 EA	HF250T-18	HIGH FLOW TUBE
1 EA	SBS2540 / ABR25	ROD BUSHING & BUSHING RETAINER (SET)
1 EA	ALK25	KEEPER KEY & SCREW (SET)
1 EA	LRGK1000	GASKET
4 EA	7397N52	WATER FITTINGS
1 EA	5648K48-R & 5648K48-B	RED HOSE & BLUE HOSE

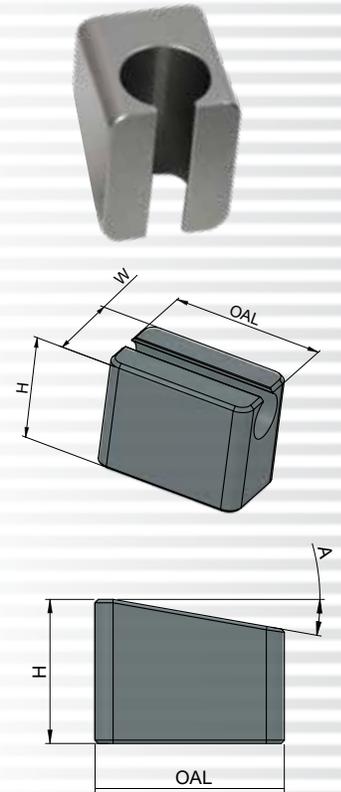
Shoes sold separately

COOLING LIFTER ROD ACCESSORIES

LIFTER SHOES

ITEM NUMBER	TRAVEL	OAL	WIDTH	HEIGHT	ANGLE	SCREW
ALS20-2800	28mm	48.00	36.00	50.00	0	M8x1.25 (Included)
ALS20-2805	28mm	48.00	36.00	50.00	5	
ALS20-2810	28mm	48.00	36.00	50.00	10	
ALS20-2815	28mm	48.00	36.00	50.00	15	
ALS20-4100	41mm	60.00	36.00	50.00	0	
ALS20-4105	41mm	60.00	36.00	50.00	5	
ALS20-4110	41mm	60.00	36.00	50.00	10	
ALS20-4115	41mm	60.00	36.00	50.00	15	
ALS25-3800	38mm	64.00	48.00	65.00	0	M12x1.75 (Included)
ALS25-3805	38mm	64.00	48.00	65.00	5	
ALS25-3810	38mm	64.00	48.00	65.00	10	
ALS25-3815	38mm	64.00	48.00	65.00	15	
ALS25-5400	54mm	80.00	48.00	65.00	0	
ALS25-5405	54mm	80.00	48.00	65.00	5	
ALS25-5410	54mm	80.00	48.00	65.00	10	
ALS25-5415	54mm	80.00	48.00	65.00	15	

CUSTOM ANGLES UPON REQUEST



ROD BUSHINGS (includes Bushing Retainer)

ROD BUSHING			BUSHING RETAINER
ITEM NUMBER	I.D.	O.D.	ITEM NUMBER
SBS0406	0.500	0.750	ABR14
SBS0613	1.000	1.375	ABR20
SBS0813	1.000	1.375	ABR25
SBS1420	14mm	20mm	ABR14
SBS2030	25mm	33mm	ABR20
SBS2540	25mm	33mm	ABR25



GASKETS

ITEM NUMBER
LRGK0500
LRGK0750
LRGK1000



ADAPTOR BALLS

ITEM NUMBERS
ALA20
ALA25



KEEPER KEYS (includes Screw)

ITEM NUMBERS	SCREW SIZE
ALK14	M6-1X12
ALK20	M10-1.5x20
ALK25	M12-1.75x25



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