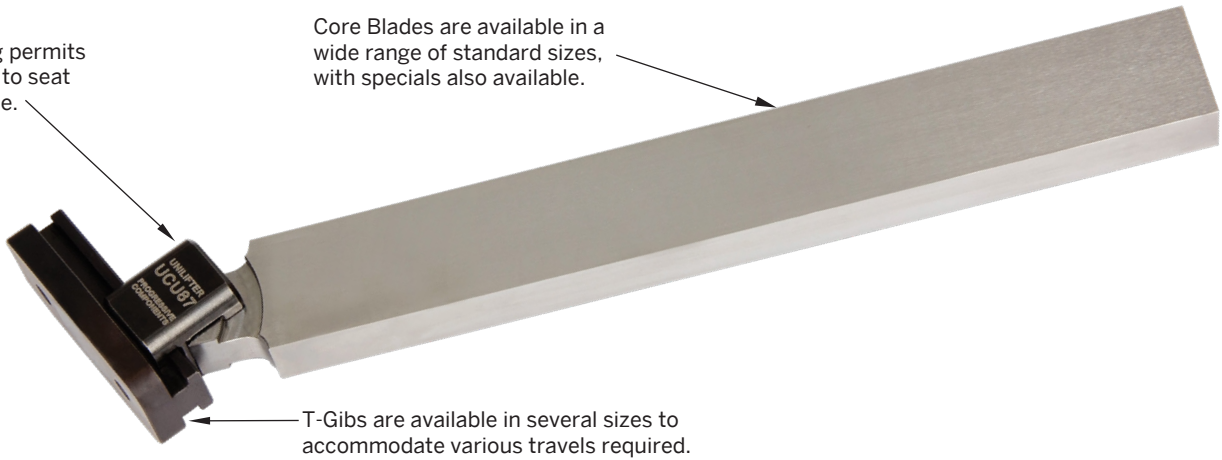




UNILIFTER® UNDERCUT RELEASE SYSTEM

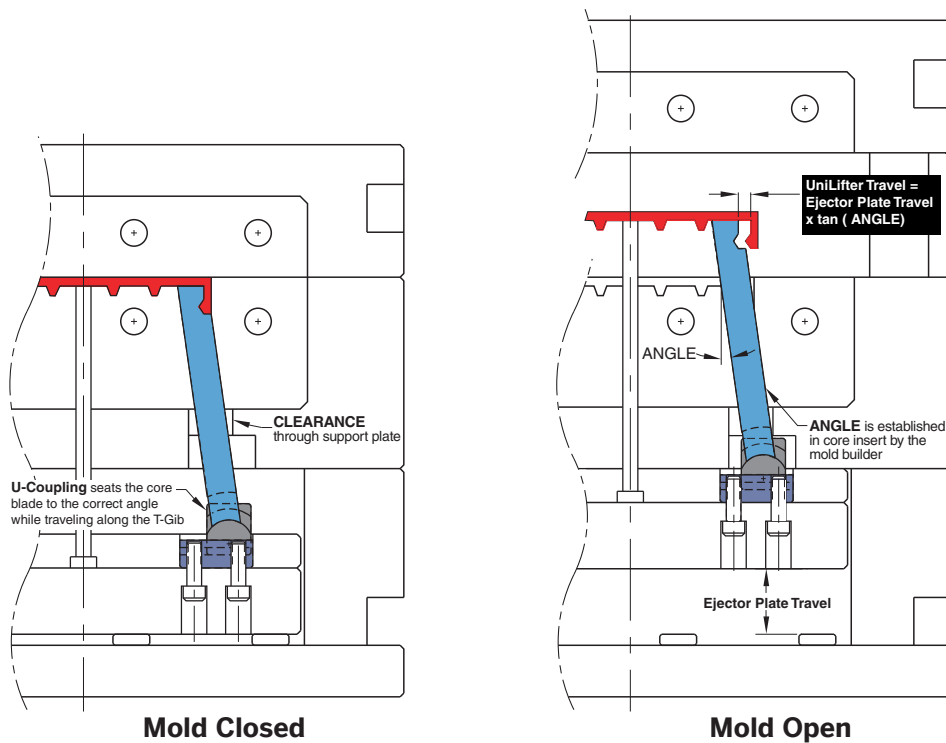
U-Coupling permits core blade to seat at any angle.

Core Blades are available in a wide range of standard sizes, with specials also available.



T-Gibs are available in several sizes to accommodate various travels required.

The UniLifter undercut release system incorporates a three piece set: Core Blade, U-Coupling, and T-Gib.



Application Guidelines:

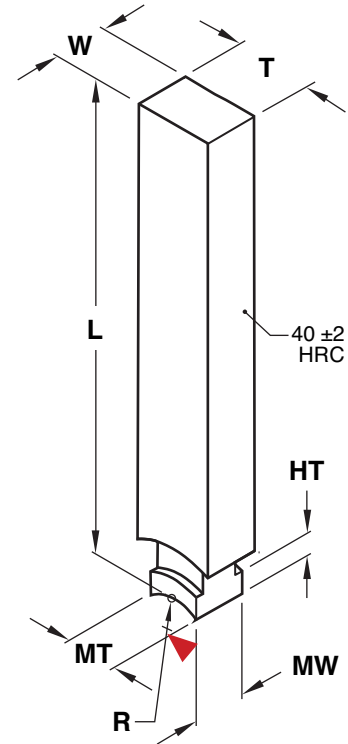
- Typical angle is 5-10°, though users report success at greater angles with guides installed. Contact Engineering for application review.
- Guided Ejection is recommended, and if there is less than half of the Core Blade bearing in the insert, lifter guide plates should be added.
- Recommended clearance is .001"-.0015" (.025-.038 mm) where permissible.
- Core insert material should be at least 10 HRC higher in hardness than the Core Blade, and for maximum longevity consider coatings or treatments for increased lubricity or hardness.
- Locking angles can be designed to accept molding pressure, and non-standard sizes or pre-roughed Core Blades can be provided by accessing www.procomps.com.

UNILIFTER® CORE BLADES

Flat Core Blades - Inch Standard

M H-13 **H** 38-42 HRC

MW	R	HT	CATALOG NUMBER	T +.000 -.001	W +.000 -.001	L +.06 -.00	MT MIN. THK.
MiniLifter® .250	.250	.156	CBS37X25L8	.385	.260	8	.25
			CBS50X25L8	.510	.260	8	.31
			CBS75X37L8	.760	.385	8	.31
UniLifter .500	.406	.187	CBS50X50L8	.510	.510	8	.49
			CBS50X50L14	.510	.510	14	.49
			CBS50X100L8	.510	1.010	8	.49
			CBS50X100L14	.510	1.010	14	.49
			CBS50X150L14	.510	1.510	14	.49
			CBS75X50L14	.760	.510	14	.62
			CBS75X150L8	.760	1.510	8	.62
			CBS75X150L14	.760	1.510	14	.62
			CBS100X50L8	1.010	.510	8	.62
			CBS100X50L14	1.010	.510	14	.62
			CBS150X50L8	1.510	.510	8	.62
			CBS150X50L14	1.510	.510	14	.62
			CBS150X75L8	1.510	.760	8	.62
CBS150X75L14	1.510	.760	14	.62			
XL 1.000	.875	.375	CBS100X100L10	1.010	1.010	10	1.00
			CBS100X100L18	1.010	1.010	18	1.00
			CBS100X150L10	1.010	1.510	10	1.00
			CBS100X150L18	1.010	1.510	18	1.00
			CBS150X100L10	1.510	1.010	10	1.00
			CBS150X100L18	1.510	1.010	18	1.00



The UniLifter Series (MW=.500) is also available in aluminum bronze. To order, replace "CBS" with "CBA" in the catalog number as shown: CBA50X50L14.

▶ CAD insertion point

Flat Core Blades - Metric Standard

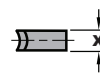
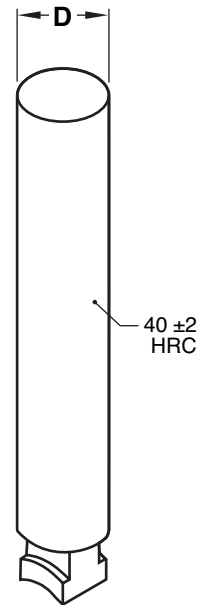
MW	R	HT	CATALOG NUMBER	T +.000 -.025	W +.000 -.025	L +2 -0	MT MIN. THK.
10	10	5	CBMM10X10L250	10.25	10.25	250	10.0
			CBMM10X20L250	10.25	20.25	250	10.0
			CBMM15X15L250	15.25	15.25	250	15.0
			CBMM15X30L400	15.25	30.25	400	15.0
			CBMM20X10L250	20.25	10.25	250	15.0
			CBMM20X20L400	20.25	20.25	400	15.0
			CBMM30X15L400	30.25	15.25	400	15.0

Round Core Blades - Inch Standard

MW	R	HT	CATALOG NUMBER	D +.000 -.001	L +.06 -.00	MT MIN. THK.
MiniLifter .250	.250	.156	CBS43DL8	.437	8	.31
UniLifter .500	.406	.187	CBS75DL8	.750	8	.62
			CBS75DL14	.750	14	.62
			CBS75DL18	.750	18	.62
XL 1.000	.875	.375	CBS125DL10	1.250	10	1.00
			CBS125DL18	1.250	18	1.00

Round Core Blades - Metric Standard

MW	R	HT	CATALOG NUMBER	D +.000 -.025	L +2 -0	MT MIN. THK.
10	10	5	CBMM10DL250	10.00	250	10.0
			CBMM15DL250	15.00	250	10.0



For core blades in different materials or mold-ready sizes refer to the templates in section X.

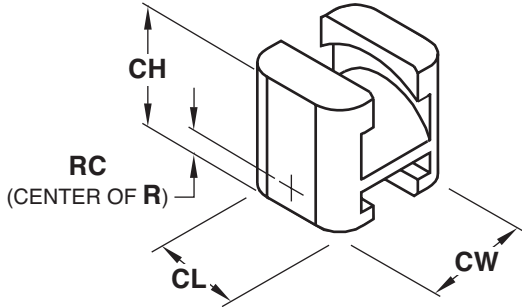


UNILIFTER® U-COUPPLINGS

Inch Standard

M H-13 **S** Salt Bath Nitride

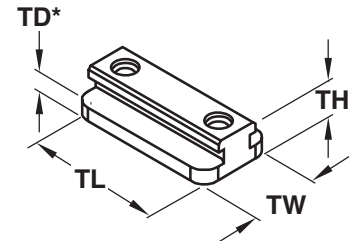
SERIES	R	RC	CATALOG NUMBER	CW	CL	CH
MiniLifter	.250	.125	UCM50	.50	.44	.62
UniLifter	.406	.187	UCU87	.87	.75	.87
XL	.875	.125	UCX175	1.75	1.50	1.65



Metric Standard

SERIES	R	RC	CATALOG NUMBER	CW	CL	CH
Metric	10	6	UCMM22	22	18	25

UNILIFTER® T-GIBS

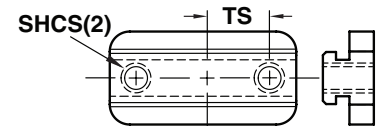
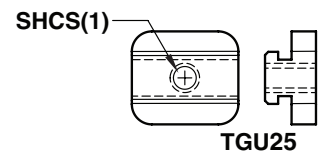
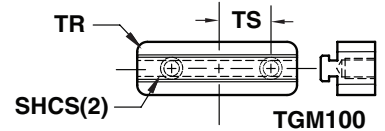
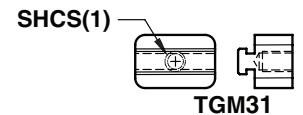


Inch Standard

M 4140 **H** 28-32 HRC **S** Salt Bath Nitride

SERIES	TW +0.00 -0.01	TH +0.01 -0.00	TD* +0.01 -0.00	TR	SHCS (INCLUDED)	CATALOG NUMBER	TS	TL +0.00 -0.10	TRAVEL ALLOWED
MiniLifter	.500	.500	.344	.093	#10-32x1	TGM31	-	.750	.312
						TGM100	.500	1.50	1.000
UniLifter	.875	.468	.219	.187	1/4-20x3/4	TGU25	-	1.00	.250
						TGU50	.375	1.25	.500
						TGU100	.625	1.75	1.000
						TGU150	.750	2.25	1.500
XL	1.750	.615	.250	.312	3/8-16x1-1/4	TGX50	.625	2.00	.500
						TGX100	.875	2.50	1.000
						TGX250	1.375	4.00	2.500

*TD Includes fitting stock for final adjustments.



TGU50, TGU100, TGU150
TGX50, TGX100, TGX250
TGM10, TGM30

Metric Standard

SERIES	TW +0.00 -0.25	TH +0.25 -0.00	TD* +0.25 -0.00	TR	SHCS (INCLUDED)	CATALOG NUMBER	TS	TL +0.00 -0.25	TRAVEL ALLOWED
Metric	22	13	6	5	M-5x20	TGMM10	10	33	10
						TGMM30	15	52	30

*TD Includes fitting stock for final adjustments.