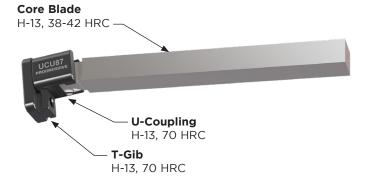
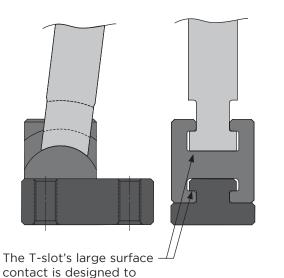
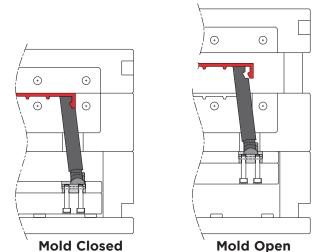


UNILIFTER® UNDERCUT RELEASE LIFTER

UNILIFTER: UL-SERIES



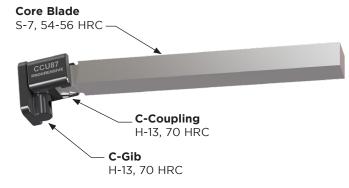


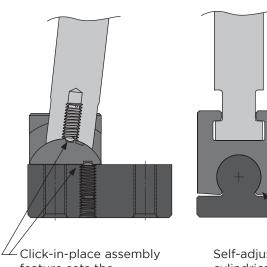


withstand extreme force and

run smoothly without binding.

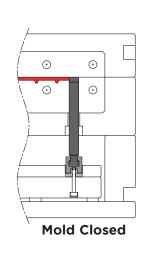
UNILIFTER: C-SERIES

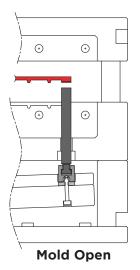




Click-in-place assembly feature sets the components to the required operating position, allowing for simplified insertion into the mold plate pockets.

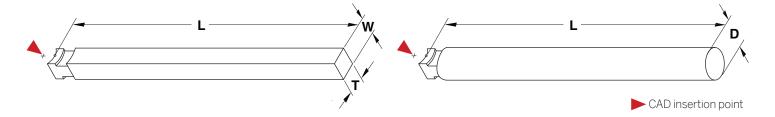
Self-adjusting — cylindrical design to compensate for severe ejector plate misalignment or warpage.





CORE BLADES

INCH STANDARD



Flat Core Blades			H-13 38	-42 HRC	S-7 54-	56 HRC	
T +.000 001	W +.000 001	SERIES	L=8" +.06 00	L=18" +.06 00	L=8" +.06 00	L=18" +.06 00	COUPLINGS
.385	.260		CBS37X25L8	CBS37X25L18	CBS7X37X25L8	CBS7X37X25L18	LII. Cavian LICMEO
.510	.260	Mini	CBS50X25L8	CBS50X25L18	CBS7X50X25L8	CBS7X50X25L18	UL-Series: UCM50
.760	.385		CBS75X37L8	CBS75X37L18	CBS7X75X37L8	CBS7X75X37L18	C-Series: CCM50

Note: S-7 Core Blades come with the assembly detent installed.

Flat C	ore Bl	ades	H-	13 38-42 H	RC	S-	7 54-56 HF	RC .	
T +.000 001	W +.000 001	SERIES	L=8" +.06 00	L=14" +.06 00	L=20" +.06 00	L=8" +.06 00	L=14" +.06 00	L=20" +.06 000	COUPLINGS
.510	.510		CBS50X50L8	CBS50X50L14	CBS50X50L20	CBS7X50X50L8	CBS7X50X50L14	CBS7X50X50L20	
.510	.760		CBS50X75L8	CBS50X75L14	CBS50X75L20	CBS7X50X75L8	CBS7X50X75L14	CBS7X50X75L20	
.510	1.010		CBS50X100L8	CBS50X100L14	CBS50X100L20	CBS7X50X100L8	CBS7X50X100L14	CBS7X50X100L20	III. Carriaa
.510	1.510		_	CBS50X150L14	CBS50X150L20	_	_	_	UL-Series: UCU87
.760	.510	UL	_	CBS75X50L14	CBS75X50L20	_	_	_	
.760	1.510		CBS75X150L8	CBS75X150L14	CBS75X150L20	_	CBS7X75X150L14	CBS7X75X150L20	C-Series: CCU87
1.010	.510		CBS100X50L8	CBS100X50L14	CBS100X50L20	_	CBS7X100X50L14	CBS7X100X50L20	CC087
1.510	.510		CBS150X50L8	CBS150X50L14	CBS150X50L20	_	_	_	
1.510	.760		CBS150X75L8	CBS150X75L14	CBS150X75L20	_	CBS7X150X75L14	CBS7X150X75L20	

Note: S-7 Core Blades come with the assembly detent installed.

Flat Core Blades		ades	H-13 38-		
T +.000 001	W +.000 001	SERIES	L=10" +.06 00	L=18" +.06 00	COUPLINGS
1.010	1.010		CBS100X100L10	CBS100X100L18	
1.010	1.510	XL	CBS100X150L10	CBS100X150L18	UL-Series: UCX175
1.510	1.010		CBS150X100L10	CBS150X100L18	33.173

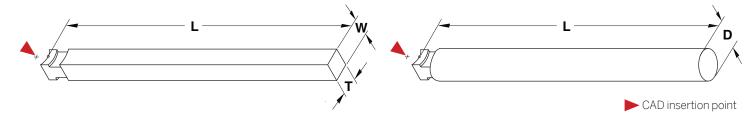
Round Core Blades			H-13 38-42 HRC							
D +.000 001	SERIES	L=8" +.06 00	L=10" +.06 00	L=14" +.06 00	L=18" +.06 00	L=24" +.06 00	COUPLINGS			
.437	Mini	CBS43DL8	_	_	CBS43DL18	_	UL-Series:UCM50			
.500	ıশıını	CBS50DL8	_	_	CBS50DL18	_	C-Series:CCM50			
.750	UL	CBS75DL8	_	CBS75DL14	CBS75DL18	CBS75DL24	UL-Series: UCU87 C-Series: CCU87			
1.250	XL	_	CBS125DL10	_	CBS125DL18	_	UL-Series:UCX175			

For Core Blades in different materials or sizes, refer to the templates at procomps.com.





CORE BLADES METRIC STANDARD



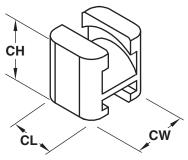
Flat C	ore B	lades	H-13 48-50 HRC	DC53 58-60 HRC	H-13 38	-42 HRC	S-7 54-56 HRC	
T 005 015	W 005 015	SERIES	L=20				L=250mm	COUPLINGS
6.00	6.00		CBMMH6X6L200	CBMMP6X6L200	_	_	_	
6.00	10.00		CBMMH6X10L200	CBMMP6X10L200	_	_	_	
8.00	6.00	Metric Mini	CBMMH8X6L200	CBMMP8X6L200	_	_	_	UL-Series: UCMM16
8.00	8.00		CBMMH8X8L200	CBMMP8X8L200	_	_	_	
10.00	8.00		CBMMH10X8L200	CBMMP10X8L200	_	_	_	
10.00	10.00	Metric	_	<u> </u>	_	_	CBMMS7X10X10L250	C-Series:
15.00	15.00	Metric	_	<u> </u>	_ _		CBMMS7X15X15L250	CCMM22
T +.000 025	W +.000 025	SERIES			L=250mm	L=400mm		COUPLINGS
10.25	10.25		_	_	CBMM10X10L250	_	_	
10.25	20.25		_	_	CBMM10X20L250	_	_	
15.25	15.25		<u> </u>	<u> </u>	CBMM15X15L250	<u> </u>	_	UL-Series: UCMM22
15.25	30.25	Metric	_	_	_	CBMM15X30L400	_	
20.25	10.25		<u> </u>	_	CBMM20X10L250	<u> </u>	_	C-Series: CCMM22
20.25	20.25		_	_	_	CBMM20X20L400	_	
30.25	15.25		_	_	_	CBMM30X15L400	_	

Note: S-7 Core Blades come with the assembly detent installed.

Round Core Blades		H-13 48-50 HRC	DC53 58-60 HRC	H-13 38-42 HRC	
D 005 014	SERIES	-	ООмм 1-2 0		COUPLINGS
8.00	Metric Mini	CBMMH8DL200	CBMMP8DL200	_	UL-Series: UCMM16
D +.000 025	SERIES			L=250mm +2 +0	COUPLINGS
10.00	Malda	_	_	CBMM10DL250	UL-Series: UCMM22
15.00	Metric	_	_	CBMM15DL250	C-Series: CCMM22

UNILIFTER: UL-SERIES COMPONENTS

U-COUPLINGS



Inch Standard

M H-13 H Core: 40-44 HRC Surface: 70 HRC

S Black Nitride

Metric Standard

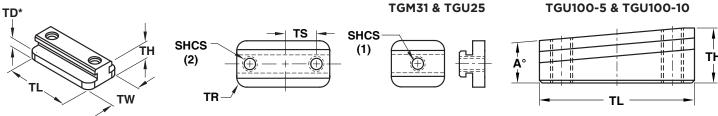
M H-13 H Core: 40-44 HRC Surface: 70 HRC

S Black Nitride

SERIES	CATALOG NUMBER	cw	CL	СН
Mini	UCM50	.50	.44	.62
UL	UCU87	.87	.75	.87
XL	UCX175	1.75	1.50	1.65

SERIES CATALOG NUMBER		cw	CL	СН
Metric Mini	UCMM16	16	14	21
Metric UL	UCMM22	22	18	25

T-GIBS



^{*}TD Includes fitting stock for final adjustments.

Inch Standard

Inch Standaı	nch Standard M H-13 H Core: 40-44 HRC Surface: 70 HRC S Black Nition							S Black Nitride		
SERIES	CATALOG NUMBER	TRAVEL ALLOWED	TW +.000 001	TH +.010 000	TD* +.010 000	TR	TS ±.01	TL +.000 010	A ANGLE	SHCS (INCLUDED)
Mini	TGM31	.312	.500	.500	.344	.093	_	.750	_	#10-32 x 1
MIIII	TGM100	1.000	.500			.093	.50	1.50	_	#10-32 X I
	TGU25	.250					_	1.00	_	
	TGU50	.500		.468	.219	.187	.37	1.25		
UL	TGU100	1.000	.875						_	1/4-20 x 3/4
OL	TGU100-5	1.000	.075	.610			.62	1.75	5°	1/4 20 × 3/4
	TGU100-10	1.000		.750					10°	
	TGU150	1.500		.468			.75	2.25	_	
	TGX50	.500					.62	2.00	_	3/8-16 x 1-1/4
XL	TGX100	1.000	1.750	.615	.250	.312	.87	2.50	_	
	TGX250	2.500					1.37	4.00	_	

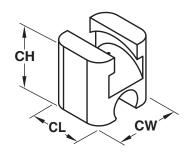
Metric Standard

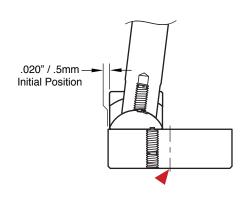
Metric Standard					M H-1	13 H Co	re: 40-44 H	IRC Surface: 70	HRC S Black Nitride
SERIES	CATALOG NUMBER	TRAVEL ALLOWED	TW +.000 025	TH +.25 00	TD* +.25 00	TR	TS ±.25	TL +.00 25	SHCS (INCLUDED)
Metric Mini	TGMM16	18	16	13	6	2.5	10	33	M47x20
Metric UL	TGMM10	15	22	13	6	Г	10	33	ME 0.0 × 20
	TGMM30	34	22		6	5	15	52	M5-0.8 x 20



UNILIFTER: C-SERIES COMPONENTS

C-COUPLINGS





Inch Standard

M H-13 H Core: 40-44 HRC Surface: 70 HRC

S Black Nitride

SERIES	IES CATALOG NUMBER		CL	СН
Mini	CCM50	.50	.44	.70
UL	CCU87	.87	.75	.87

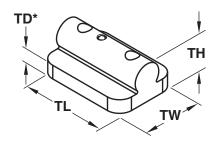
Metric Standard

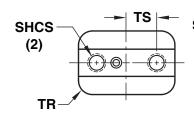
M H-13 H Core: 40-44 HRC Surface: 70 HRC

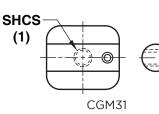
S Black Nitride

SIZE	CATALOG NUMBER	cw	CL	СН
Metric	CCMM22	22	18	24
			CAD ins	sertion point

C-GIBS







*TD Includes fitting stock for final adjustments.

Inch Standard

M H-13 H Core: 40-44 HRC Surface: 70 HRC S Black Nitride

	SERIES	CATALOG NUMBER	TRAVEL ALLOWED	TW +.000 001	TH +.010 000	TD* +.010 000	TR	TS ±.01	TL +.000 010	SHCS (INCLUDED)
	Mini	CGM31	.312	.500	.550	.250	.093	_	.750	#10-32 x 1
		CGM100	1.000	.500				.50	1.50	#10-32 X I
	UL	CGU50	.500	.875	.540	.187	.187	.37	1.25	1/4 20 - 7/4
		CGU100	1.000						1.75	1/4-20 x 3/4

Metric Standard

M H-13 H Core: 40-44 HRC Surface: 70 HRC S Black Nitride

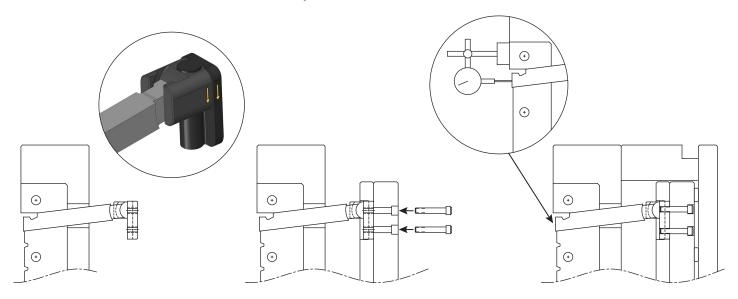
SIZE	CATALOG NUMBER	TRAVEL ALLOWED	TW +.000 025	TH +.25 00	TD* +.25 00	TR	TS ±.25	TL +.00 25	SHCS (INCLUDED)
UL	CGMM10	15	22	15	6	5	10	33	M5-0.8 x 20

APPLICATION GUIDELINES

- C-Series Gibs come with the assembly detent installed.
- Screw thread is not through top of the C-Gib on the Mini sizes.

C-SERIES LIFTER SYSTEMS

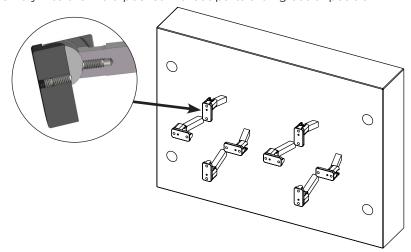
INSTALLATION INSTRUCTIONS / APPLICATION GUIDELINES



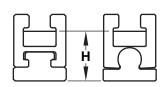
- Install Core Blade, C-Gib and C-Coupling into the mold base. Align arrows to orient with ejection travel.
- Assemble the ejector plates and fasten the C-Gib into the pocket.
- With the mold assembled, check to verify final position of the lifter. Adjust by grinding the back of the C-Gib as required.

C-Series Lifter Features

Assembly detents allow the toolmaker to set the Core Blade, C-Coupling and C-Gib to the correct angle and position, allowing easy assembly into the mold pocket without parts sliding out of position.



Maintenance Option: Should ejector plates warp over time, the C-Series Gib and Coupling can directly replace the UniLifter Series without altering the Core Blades.



SERIES	Н				
Mini	.719"				
UL	.812"				
Metric	22mm				

UL-SERIES & C-SERIES APPLICATION GUIDELINES

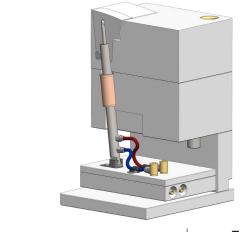
- Typical Core Blade angle is 5-10°. For greater angles, Lifter Guides are recommended.
- Lifter Guides are also recommended if less than half of the Core Blade is bearing in the insert. Refer to page H-10 for Guides.
- Typical clearance is .001"-.0015" (.02-.04 mm), or a 3° taper on the Core Blade T & W to eliminate contact and friction.
- Core Blades are interchangeable between the UL-Series and C-Series.
- If treating the S-7 Core Blades, the assembly ball plunger should be removed prior to processing.



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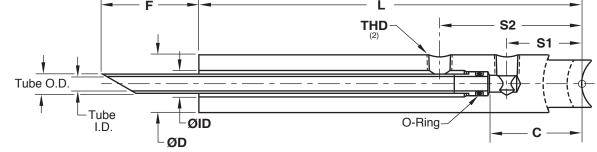
UNILIFTER WITH COOLING CHANNEL





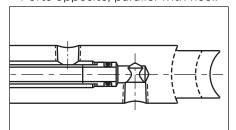


Thread
Orientation "A"
Ports aligned,
parallel with heel.



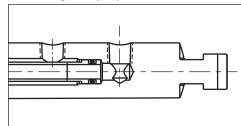
Thread Orientation "B"

Ports opposite, parallel with heel.



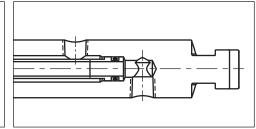
Thread Orientation "C"

Ports aligned, perpendicular with heel.



Thread Orientation "D"

Ports opposite, perpendicular with heel.



M H-13 H 38-42 HRC

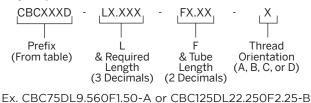
D NOMINAL CORE BLADE DIAMETER	CATALOG NUMBER PREFIX	THD (NPT)	TUBE I.D.	TUBE O.D.	ID	S1	S2	С	L MAX	SERIES	U-COUPLING
3/4	CBC75D	1/16	.208	.238	.344	.88	1.63	1.13	24	UL	UCU87
1-1/4	CBC125D	1/4	.288	.312	.437	1.25	2.25	1.56	18	XL	UCX175

Assemblies include:

- Core Blade machined to accept all cooling items as shown above.
- High Flow Tube (1) cut to length with a 30° angle as shown.
- Buna O-Ring (1)
 - CBC75D uses -008.
 - CBC125D uses -010.

To Order:

- Create the catalog number with the part parameters as shown below.
- Submit this catalog number to customerservice@procomps.com with the quantity required.



High Flow Tubes and Cooled Core Blades can be ordered individually. Contact Customer Service for a quotation.

Refer to section E for additional cooling connection components.

