

SAECO Precision Bullet Moulding Products



BULLET CASTING PRODUCTS

Made in America by



SAECO – a product of Redding Since 1985

Considered by many to be the finest lubricator/sizer available today.

SAECO Lubri-Sizer

A single stroke seats the gas check, swages the bullet to proper diameter, and lubricates it. SAECO's Lubri-Sizer features a pressurized reservoir that lubricates from 20 to 50 bullets between turns of the lube control handle. Two precision parallel guide rods assure proper alignment of the top punch and sizing die, resulting in maximum bullet concentricity.

Those who prefer to shoot bullets "as cast" will appreciate SAECO's exclusive swing out gas check seater which allows the option of seating gas checks without sizing.

A combination of compound leverage and extra length operating handle substantially reduces physical effort. Sizing Dies and Top Punches are not included and should be ordered separately according to caliber and bullet design.

ITEM NO. 30000



Features:

- Solid cast iron body
- Swing Out Gas Check Seater
- Adjustable Pressure Lubricant
- Precise alignment
- Can be used with either hollow or solid stick lube.

WARNING:

Melting lead and casting lead objects will expose you and others in the area to lead, which is known to cause birth defects, other reproductive harm and cancer. See instructions on Reducing Exposure supplied with product.



Top Punches

SAECO's exclusive tapered shoulder assures positive alignment with die body. A single Top Punch may be used interchangeably with several bullets of similar design.

See Mould Table for top punch number.



Top Punches Lyman/RCBS Type

Straight shank type top punches designed to fit the Lyman and RCBS Lubrisizers and SAECO bullets.

See mould table for "LR" top punch number.

SAECO Sizing Dies

SAECO sizing dies are made with a unique prelead that fits the "as cast" bullet diameter for a depth of approximately .3 inch. This special entrance throat insures that the bullet feeds into the sizing diameter in absolute straight alignment. The constriction between the two diameters is a gentle taper which eliminates lead shearing and sizes the bullet concentrically. The dies are finished by internal honing known as micro-finishing which produces a mirror like finish and a sizing hole that is perfectly round. Your bullets will look like polished silver with no lead shavings.

ITEM NO. 30XXX

For order No., replace XXX with size from chart below.

DIE SIZES AVAILABLE:

.224 .225 .244 .251 .258 .265 .266 .278 .285 .286 .308 .309 .310 .311 .312
.313 .314 .321 .322 .323 .324 .325 .338 .339 .349 .354 .355 .356 .357 .358
.359 .360 .364 .365 .366 .375 .376 .377 .378 .401 .408 .409 .410 .411 .417
.427 .428 .429 .430 .431 .451 .452 .454 .455 .458 .459 .460



A precision instrument to accurately determine the hardness of a bullet casting alloy.

SAECO Lead Hardness Tester



A SAECO Lead Hardness Tester will pay for itself many times over by allowing you to convert inexpensive scrap lead of unknown composition into casting alloy of known and reproducible hardness. It provides a standard by which you can check the quality of purchased cast bullets. The SAECO Lead Hardness Tester measures alloy hardness by determining the depth of penetration of a hardened steel indenter into a bullet. Relative hardness of the bullet is read off a vernier scale.

	Relative Hardness SAECO	Brinell (Approx.)
Pure lead	0-1	5
1:20 tin: lead	6-7	10
5:5:90 tin: antimony: lead	7-8	15
2:6:92 (taracorp)	8-9	16-17
(magnum alloy)		
5:10:85 (linotype)	9-10	22

The vernier scale is calibrated in arbitrary units from 0 for pure lead up to a SAECO hardness of 10. We have found that a SAECO hardness of at least 6 is required for medium velocities in handguns and a SAECO hardness of over 8 for Magnum handgun and gas check rifle bullets. As a point of reference, wheelweights vary in composition and hardness but usually test between 7 and 9, while linotype registers approx. 10.

ITEM NO. 42000

SAECO Bullet Lubricant

SAECO GOLD

Pistol Lubricant. The original alox free formula developed by SAECO. Keeps barrels cleaner and reduces leading to a minimum for superior accuracy. Also makes an excellent fluxing agent and works equally well in rifles.

SAECO TRADITIONAL

Rifle Lubricant. This is the NRA formula for Alox and bees wax. We use natural yellow beeswax, not synthetics. Formulated to prevent leading and improve accuracy at higher velocity levels.

SAECO GREEN

Rifle and Pistol Lubricant. An original SAECO formula brought back. Contains no alox. Slightly harder than the other SAECO lubes.

Available in Solid or Hollow Sticks.



“Magnum” Mould Blocks

We created “Magnum” mould blocks to insure more uniform temperature control and casting consistency when casting large diameter and/or heavy bullets. Single cavity “Magnum” moulds are made from our normal double cavity blocks. Double cavity “Magnum” moulds are made from our normal triple cavity blocks, with wider spacing.

“Magnum” moulds can be ordered for any caliber or weight bullet and are required for those moulds marked with asterisk*.

“Magnum” Moulds Available in Single and Double Cavity



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INGOT MOULDS

The SAECO cast iron ingot mould will produce four easy-to-handle ingots. A perfect way to store blended alloys.

ITEM NO. 23000

SAECO Precision Bullet Moulds

All SAECO moulds are machined from solid cast iron blocks one cavity at a time. Using the same cutting tool (cherrie) for each cavity on digital equipment guarantees that each cavity duplicates the previous one. You don't need to pay a premium for matched cavities. SAECO even developed its own blend of copper alloyed pearlitic cast iron for tight grain structure, dimensional stability and extended life. The steel sprue plates are held firm against the mould blocks by high-temperature spring washers to insure uniform bullets with square bases.

Available as Single & Double Cavity "Magnum" Moulds and in 2 and 4 Cavity Regular Moulds



SPECIAL ORDER 3 CAVITY MOULDS

All 3 cavity moulds are made on a special order basis only. Because of the nature of the work involved, special order moulds require advance payment with the order, NO C.O.D.'s. Delivery usually takes 6-8 weeks.

SPECIAL COMBINATIONS

of different mould numbers cut in the same block are available for an additional charge.

MOULD HANDLES





















Castings are ductile iron with solid hardwood grips. They should be ordered separately and fit all SAECO mould blocks (1-8 cavity).

ITEM NO. 29000

Traditional Bullet Moulds

For Black Powder Cartridges & Cowboy Action Shooting

All SAECO bullet moulds must be ordered with the SAECO bullet number. Illustrations not to scale.

	30 CAL. RIFLES		32-20 WIN	32-40 WIN		38 SPL/ 357 MAG	38-40 WIN	38-55 WIN		
										
No.	630	315	322	632	*732	358	401	638	738	*571
Designation	140gr. FP	175gr. TCGC	118gr. RNFP	165gr. RNFP	200gr. RNFP	158gr. RNFP	190gr. RNFP	225gr. RNFP	255gr. RNFP	300gr. RNFP
Sizing Die	.309	N.R.	.313	N.R.	N.R.	.358	.401	N.R.	N.R.	N.R.
Top Punch	30530	30329	30254	30530	30530	35353	40101	37570	37570	37570
◆ LR Top Punch	46511	46509	46507	46511	46511	46518	46531	46528	46528	46528
Description	For 30-30	Bench Rest *Tapered	.32-20 Bullet	.32-40 *Tapered	.32-40 *Tapered	Super Long Range Bullet	.38-40	*Tapered	*Tapered	*Tapered
	40 CAL. RIFLES		44-40 WIN	44 SPL/44 MAG		45 COLT		45 CAL. RIFLES		
										
No.	*640	*740	444	446	429	954	955	*645	*745	*881
Designation	370gr.	410gr.	200gr. RNFP	200gr. RNFP	240gr. RNFP	230gr. RNFP	255gr. RNFP	480gr.	525gr.	500gr. RN
Sizing Die	.408/.410	.408/.410	.428	.430	.430	.452/.454	.452/.454	.458/.460	.458/.460	.458
Top Punch	40410	40410	44191	44191	44191	45424	45424	45525	45525	45525
◆ LR Top Punch	46532	46532	46538	46538	46538	46550	46550	46553	46553	46553
Description			.44-40	.44 Spec/Mag						M1881 Design

* Tapered Styled Bullets have the front band near bore diameter tapering to slightly larger than groove diameter. This style bullet was furnished by most of the old time barrel makers such as Harry Pope.

This is a popular Schuetzen style bullet with rounded lube grooves.

* Due to length, diameter or weight, the moulds indicated are available in "Magnum" mould blocks only. ◆ Designates Lyman/RCBS style Top Punches

SAECO Bullet Moulds

All SAECO bullet moulds must be ordered with the SAECO bullet number. Illustrations not to scale.



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No.	221	243	257	264	270	281	070	071	073		302	254	316
Designation	60gr. SPGC	85gr. TCGC	100gr. TCGC	140gr. SPGC	140gr. TCGC	145gr. FPGC	145gr. TCGC	160gr. TCGC	165gr. SPGC		120gr. RNGC	115gr. RNBB	150gr. FPGC
Sizing Die	.225	.244	.258	.265	.278	.285	.285	.285	.285		.309	.309	.309
Top Punch	22498	24243	25258	26264	27273	28311	28520	28520	28520		30467	30467	30530
LR Top Punch	46500	46501	46502	46503	46504	46505	46506	46506	46506		46510	46510	46511
Description	Works Well in Mini-14's	For all .243	.25 Cal.		Two perfect Reg. 6 IHMSA	Standard	Silhouette	200 meters	Heavy		For 30 MI, GC	For 30 MI	For 30-30
No.	311	307	301	305	323	325	326	321		081	922	925	
Designation	165gr. TCGC	180gr. FPGC	196gr. TCGC	180gr. FPGC	95gr. WC	95gr. SWC	100gr. SWCBB	95gr. RN		190gr. RNGC	115gr. RNBB	115gr. SWCBB	
Sizing Die	.309	.309	.309	.311	.313	.313	.313	.313		.323/.324	.356	.356	
Top Punch	30301	30530	30301	30530	32323	32467	32467	32465		32467	35311	35925	
LR Top Punch	46508	46511	46508	46511	46512	46514	46514	46513		46514	46516	46526	
Description			Duplicates Original RG4	303 British	.Good .32 Long Target Bullet			.32 S&W Long		8 mm Rifle			
No.	377	384	115	924	383	928	929	910	930	940	052	053	
Designation	122gr. TCBB	122gr. RN	122gr. RNBB	124gr. SWCGC	140gr. SWC	145gr. RNBB	145gr. SWCBB	150gr. RN	154gr. SWCBB	100gr. RNBB	148gr. WCBB	148gr. WC	
Sizing Die	.356	.356	.356	.356	.356/.357	.356/.357	.356/.357	.356	.356/.357	.365	.358	.358	
Top Punch	35375	35311	35311	35925	35429	35311	35925	35311	35925	35465	35550	35381	
LR Top Punch	46519	46516	46516	46526	46522	46516	46526	46516	46526	46524	46525	46520	
Description	Good Ballistics for 9 mm	Good Feeding 9mm		Good Feeding SWC		38 Super	38 Super		38 Super Wilson Design	9mm Makarov	Target Bullet	GAR Design	
No.	397	348	382	388	393	390	391	398	353	354	396	399	351
Designation	148gr. WCDBB	148gr. DBBWC	158gr. SWC	158gr. SWCBB	162gr. SWCGC	158gr. RN	158gr. RNBB	158gr. TC	180gr. FP	180gr. FPGC	180gr. TC	180gr. TCGC	200gr. FP
Sizing Die	.358	.358	.358	.358	.358	.358	.358	.358	.358	.358	.358	.358	.358
Top Punch	35344	35344	35429	35429	35429	35311	35311	35399	35353	35353	35399	35399	35399
LR Top Punch	46517	46517	46522	46522	46522	46516	46516	46521	46518	46518	46521	46521	46516
Description	148gr. Double Bevel Base WC	Single Groove DBB	Keith Design	Most Popular		Standard .38 Bullet			Super Long Range Bullet	GC Version of Popular 353			Heavy 357 Bullet
No.	356	395	352	373	040	043	045	047	048		416	419	
Designation	200gr. FPGC	200gr. TCGC	245gr. FPGC	265gr. FPGC	155gr. SWCBB	170gr. TCBB	170gr. SWCBB	200gr. TCBB	200gr. SWCBB		170gr. SWCBB	200gr. SWCBB	
Sizing Die	.358	.358	.358	.376	.401	.401	.401	.401	.401		.411	.411	
Top Punch	35353	35399	35399	37570	40048	40047	40048	40047	40048		41447	41447	
LR Top Punch	46516	46521	46516	46528	46530	46529	46530	46529	46530		46535	46535	
Description	Handgun Silhouette	Silhouette		Rifle	10mm Auto	10mm Auto	10mm Auto	10mm Auto	10mm Auto		41 Auto Petty Design	41 Auto Petty Design	

41 CAL. (continued)							44 CAL.				45 CAL.									
No.	412	417	409	413	415	410	418	944	420	445	442	063	062							
Designation	185gr. SWC	210gr. SWC	190gr. TC	210gr. TCBB	220gr. TCGC	220gr. FP	220gr. SWCBB	200gr. WC	200gr. TC	220gr. SWCBB	246gr. RN									
Sizing Die	.411	.411	.411	.411	.411	.411	.411	.430	.430	.430	.430	.452	.452							
Top Punch	41610	41610	41415	41415	41415	41415	41610	44944	44428	44191	44374	45452	45452							
◆ LR Top Punch	46536	46536	46534	46534	46534	46534	46536	46544	46542	46538	46540	46552	46552							
Description						Pistol Silhouette	Bevel Base Keith Style	GAR Design	Jim Hubert Design		Standard 44 Spec. Bullet	Behn Design	-V-MAXX .45 Behn Design							
No.	441	440	439	429	424	428	431	430	432	433	063	062								
Designation	240gr. SWC	240gr. SWCBB	240gr. SWCGC	240gr. FP	240gr. TCGC	240gr. TC	250gr. FPGC	265gr. FP	265gr. FPGC	300gr. FPGC	160gr. SPL	170gr. SPLBB								
Sizing Die	.430	.430	.430	.430	.430	.430	.430	.430	.430	.430	.452	.452								
Top Punch	44421	44421	44421	44191	44428	44428	44191	44191	44191	44191	45452	45452								
◆ LR Top Punch	46541	46541	46541	46538	46542	44542	46538	46538	46538	46538	46552	46552								
Description	Standard Wt. 44 Mag Keith Style			Superb Long Range Bullet	GC Version of Popular 428	Most Popular Silhouette	444 Marlin	Superb Long Range Bullet		Silhouette	Behn Design	-V-MAXX .45 Behn Design								
No.	065	130	131	066	068	069	058	265	067	456	457									
Designation	180gr. SWCBB	185gr. SWC	185gr. SWCBB	180gr. SWC	200gr. SWCBB	200gr. SWC	215gr. SWCBB	210gr. RNWC	225gr. TCBB	225gr. RN	225gr. RNBB									
Sizing Die	.452	.452	.452	.452	.452	.452	.452	.452	.452	.452	.452									
Top Punch	45429	45421	45421	45429	45429	45429	45424	45265	45375	45701	45701									
◆ LR Top Punch	46551	46549	46549	46551	46551	46551	46550	46547	46548	46556	46556									
Description	Lt. Wt. IPSC	Most Popular Lt. Target			Most Popular Combat Bullet		Bowling Pin Bullet	Best Feeding .45 ACP		Standard Round Nose										
45 CAL. RIFLE																				
No.	453	945	458	452	454	015	*017	*018	*019	*023	*021	*022	*020							
Designation	225gr. WC	255gr. SWCGC	255gr. SWC	255gr. SWC	300gr. SWCGC	300gr. FP	350gr. FPGC	405gr. FP	465gr. FPGC	375gr. SP	405gr. SPGC	500gr. FP	540gr. FPGC							
Sizing Die	.452	.452	.452	.455	.452	.458	.458	.458	.458	.458	.458	.458	.458							
Top Punch	45424	45424	45424	45424	45424	45015	45015	45015	45015	45702	45702	45525	45525							
◆ LR Top Punch	46550	46550	46550	46550	46550	46545	46545	46545	46545	46557	46557	46553	46553							
Description	Jan Libourel Design	For 45 Colt	For 45 Colt w/.452 Bore	For 45 Colt w/.454 Bore	Heavy .45 Colt & 454 Casull															

* Due to length, diameter or weight, the moulds indicated are available in "MAGNUM" mould blocks only.

◆ Designates Lyman/RCBS style Top Punches

Bullet Sizes & Weights – How to Vary Them

The bullet diameters and weights presented in this list are based on the use of Taracorp's Lawrence Magnum (or Rotometals Hardball) bullet alloy (2% tin, 6% antimony, 1/4% arsenic, 91.75% lead).

Bullet diameters and weights will vary considerably depending on the lead casting alloy used. This variation can be as much as 1/2% on the diameter, and 8% on the weight among the most commonly used casting alloys. For example, a .358-158 grain bullet might show a diameter variation of .002", and a 13 grain difference in weight.

Of the most commonly used alloys, wheel weights (.5% tin, 4% antimony, 95% lead) will produce bullets having the smallest diameter and heaviest weight, with such bullets running approximately 1/3% smaller in diameter and 3% heavier than bullets cast with Taracorp's metal. Linotype will produce bullets with the largest diameter and lightest weights. This alloy will produce bul-

lets approximately 1/10% larger and 3% lighter than Taracorp. Other alloys of tin and antimony, with antimony content above 5%, will produce bullets with diameters and weights falling between those cast from wheel weights and linotype.

Alloys containing little or no antimony will cast considerably smaller than wheel weights and in some cases will produce bullets too small for adequate sizing. Within the limitations given above, the weight and diameter of a cast bullet can be adjusted by varying the alloy's antimony content.

The size and weight of bullets of a given alloy will also vary according to casting temperature. Higher temperatures will result in greater shrinkage as the bullet cools, thereby producing a slightly smaller and lighter bullet than one cast of the same alloy at a lower temperature.

Gas Checks

SAECO has adopted the tapered form of gas check heel to minimize problems encountered with the use of various alloys and gas checks. SAECO bullets are designed to properly maintain the gas checks when cast with Lawrence Magnum Bullet Metal or linotype. Alloys producing smaller diameters may result in gas checks not seating properly. Bullet weights listed for gas check designs include the gas check weight.

Bevel Base Bullets

SAECO Bevel Base bullets have a slight bevel at the base of the bullet. This bevel helps guide the bullet into the cartridge case. A benefit of using bevel base bullets is that the case will require minimal bell-mouthing, and have a longer case life. Bevel base bullets are of course easier to seat.