



## ABOUT US

Lithgow Arms is a brand built on 100 years of weapons expertise at the small arms factory at Lithgow in New South Wales, Australia.

We have proudly supported Australia's soldiers on battlefields around the world since 1912.

From Gallipoli, Fromelles and Pozieres to North Africa, Borneo and Kokoda, and from Korea, Malaya and Vietnam to East Timor, Iraq and Afghanistan, Australian troops have carried weapons made in Lithgow.

Originally conceived as a factory to make and support weapons created elsewhere, Lithgow Arms has evolved over recent years into a true small arms designer and manufacturer. Our team includes local experts, people with international experience from some of the world's most renowned arms manufacturers, as well as former military personnel.

## QUALITY

Lithgow Arms strives for unparalleled quality across all our products and services and is AS 9001 2008 Quality Management Systems accredited. At Lithgow Arms our people know firsthand that quality is demanded by the sporting shooter, hunter and soldier alike.

## COMMUNITY

Lithgow Arms supports Soldier On, which is a not-for-profit organisation that helps serving and ex-serving men and women who are physically or psychologically affected by their service. By providing support to these individuals and their families, Soldier On enhances their rehabilitation, inspires them to work towards recovery, connects them with their broader community and empowers them through education and employment to achieve a stable and secure future. To find out more, go to

[www.soldieron.org.au](http://www.soldieron.org.au)









# CONTENTS

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MILITARY AND LAW ENFORCEMENT.....	4
SPORT AND HUNTING PRODUCTS.....	19
TECHNICAL SERVICES.....	28
PRODUCT SPECIFICATIONS.....	30

# MILITARY AND LAW ENFORCEMENT

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## CONTENTS

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F90 ASSAULT RIFLE.....	6
F90 FOR LAW ENFORCEMENT....	11
SL40 GRENADE LAUNCHER.....	13
SYSTEM INTEGRATION.....	16







# F90 ASSAULT RIFLE

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The F90 is one of the lightest assault rifles on the market at 3.25 kg, enabling fast reaction times and rapid target engagement, a clear advantage in close quarters combat. NATO standard rails and NATO ammunition interoperability provide adaptability for a wide range of mission profiles.

Packing a punch, the F90 includes an integrated side loading 40 mm grenade launcher that can be attached in just a few seconds by the soldier — a potentially decisive capability providing flexibility on operations. The grenade launcher itself is equipped with a lightweight robust holographic sight that ensures rapid target acquisition, can be used at night, and is compatible with night vision goggles.

Manufacturing began in 2014, with initial deliveries made to Australian Army units in early 2015.

Extreme reliability coupled with designated marksman accuracy, low weight and comfort represent the very pinnacle of bullpup development. The F90 rifle is now available to military and law enforcement customers in a variety of configurations, colours and barrel lengths.









### BULLPUP ADVANTAGE

A longer barrel with a reduced overall length, optimised balance and superior ergonomics provide tangible improvements to lethality in all combat environments.

### SL40 GRENADE LAUNCHER

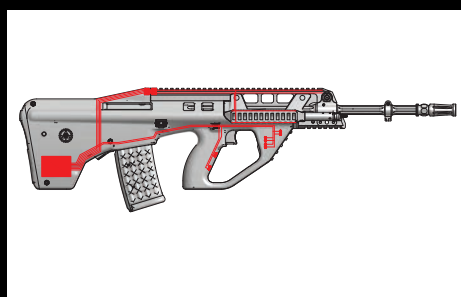
Grenade launcher integration via lower rail interface allows instant, tool free fitment and removal, reducing weight and enhancing system flexibility.

### FUTURE PROOF

Future proof modular design allows incremental and affordable fleet updates without factory refit. F90 design enables electronic architecture upgrades as device technology becomes available to customers.

### COLOUR OPTIONS

Cerakote™ surface treatment provides a military customer the ability to order F90 in any catalogue colour or colour scheme, including Cerakote™ GEN II Firearms Coatings with reduced near IR reflectivity.



### BALANCE

The centre of gravity is located immediately above the pistol grip, significantly reducing operator handling fatigue while improving target engagement times.

### OPTIONAL SEMI-AUTO ONLY

Semi-automatic only configurations provide first responders the option to apply escalated, discriminate force in times of emergency or crisis.

### OPTIONAL MUZZLE DEVICES

F90 is available suppressor ready with quick disconnect flash suppressors and muzzle brakes. Supplied muzzle brakes reduce felt recoil by as much as 30%, enhancing the user's ability to apply accurate, rapid fire.

### BLANK FIRE SYSTEM

The F90 blank fire system provides reliable blank fire with the assured safety of a bullet trap design. The system is certificated to catch multiple steel core projectiles in case of ammunition contamination. The system is available in screw on and quick disconnect interfaces.





### OFF HAND FIRE COMPATIBLE

Unique to the AUG based rifles, the F90 case deflector allows safe and consistent offhand fire from cover.

### IMPROVED RELIABILITY

Enlarged and profiled ejection port broadens ammunition compatibility and enhances reliability in adverse conditions.

### ACCESSORY RAILS

Three Picatinny rails permanent aligned with bore axis allowing permanent co-witnessed mounting of target acquisition accessories.

### BARREL DESIGN

High accuracy, cold hammer forged, chrome lined and fluted barrel available in three different barrel lengths.

### SLING ATTACHMENTS

Ambidextrous webbing and clip style sling mounts allow multiple single and dual point sling configurations.

### AMBIDEXTROUS MAGAZINE RELEASE

Ambidextrous magazine release with mechanics that prevent accidental magazine release.

### WORLD'S BEST MAGAZINE

30 round high-reliability, polymer, translucent magazine provides a lifetime of reliable feeding while allowing operators to instantly judge magazine load.

### HAND PROTECTION

Integrated trigger and hand guard protects the operator's master hand from impacts in the battle environment.

### LOW PROFILE COCKING HANDLE

Non-reciprocating cocking handle folds flat against the receiver to reduce rifle profile while preventing fixed handle impact injuries.

### HEAT MANAGEMENT

Porting allows cool air to flow through directly over the hottest parts of the barrel, helping control operating temperatures during high rates of fire.

### MODULAR DESIGN

Modular, upgradeable receiver constructed from impact resistant fibre reinforced polymer reduces weight and heat transfer control surfaces.

### CLEAN FIRING

F90 requires no lubrication and minimum operator maintenance for reliable and consistent operation during sustained fire, even in the most adverse of conditions.

### SELECT FIRE CONTROL

Sliding, two stage, select fire trigger allows the operator to fire single shots or bursts at every squeeze of the trigger.

### AMBIDEXTROUS SAFETY

Ambidextrous safety available in two position (SAFE/FIRE) or three position (SAFE/SEMI-ONLY/FIRE) configurations.

### IMPROVED ERGONOMICS

Enhanced buttstock profile dramatically improves ergonomics and cheek weld while reduced snag points.







# F90 FOR LAW ENFORCEMENT

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Law enforcement agencies around the world are currently facing increased criminal and terrorist threats, including active shooters committed to deadly acts against civilians.

In many cases police officers are first responders to these events. In these circumstances, range and accuracy overmatch are key contributors to the rapid resolution of a crisis, or crisis containment until the arrival of tactical response units. The F90 LE (Law Enforcement) platform provides law enforcement officers the tools necessary to exercise scalable, discriminate force to mitigate and resolve these active shooter situations.

The compact size of the F90 LE platform makes it an ideal solution for vehicular based patrolling. Likewise, the low weight and optimised centre of gravity ensure easy comfortable handling while lending a degree of confidence to smaller framed officers.









## SL40 GRENADE LAUNCHER

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The SL40 grenade launcher was developed in parallel with the F90 rifle. Munition compatibility, system integration and ergonomics were nominated as the driving considerations for design. The completed prototypes were tested alongside the F90 as a critical element of the mission system, and successfully passed the same arduous test and evaluation trials as the rifle itself.

The pairing of the SL40 grenade launcher and F90 rifle represents one of the most elegant system integrations available on the market.

Co-located triggers allow operators to react instantly to emerging threats by dual firing the SL40 and F90 rifle. Complementing this, the SL40 grenade launcher red dot sight enables rapid and accurate engagement of targets even while the firer is on the move.

The integration design allows a very low system weight that is lower than any comparable competition. Despite the low weight the SL40 is still equipped with a robust hammer forged steel barrel.



#### COMPLETE COMPATIBILITY

Side-opening barrel accepts all low velocity 40 mm natures and is easily operated by left and right hand firers.

#### MISSION FLEXIBILITY

A single detented sliding pin retains the grenade launcher on the F90 lower rail allowing the launcher mount and dismount in seconds without tools or parts or specialist training.

#### BARREL

Cold hammer forged, plasma nitride treated steel barrel allows continuous high rates of fire without fear of barrel wear.

#### ULTIMATE SAFETY

Two-position ambidextrous safety levers block trigger and firing pin movement while an integrated 'off-bar' safety prevents accidental discharge if separated from the rifle.

#### INSTANT RESPONSE

Co-located triggers enable reactive and accurate fire from the operator's master hand without changing grips.





### AMMUNITION COMPATIBILITY

The SL40 side opening barrel makes the launcher compatible with all LV munitions natures including less-than-lethal and non-lethal munitions.



### RIFLE INTEGRATION

SL40 instantly integrates with F90 rifles without tools or modification. Simple integration mechanics minimise weight and maximise mission flexibility.



### SMART MUNITIONS

Lithgow Arms maintains strategic arrangements with munitions manufacturers, and is co-developing airburst smart munitions compatible with the SL40.



### SNAG FREE

The snag-free, streamlined design will not get hung up or caught on webbing or equipment.



### STAND ALONE STOCK

Standalone stock allows the SL40 to be employed by team members in a dedicated grenadier or fire support role.



### LOW WEIGHT

The SL40 grenade launcher with holographic sight weighs only 1185 grams, making the SL40 one of the lightest grenade launchers available.



### GRENADE LAUNCHER SIGHT

Toughened, quick fit grenade launcher site with 7 MOA Trijicon holographic sight allows fast and accurate target acquisition without the difficulty or fragility of traditional plastic open sights.





# SYSTEMS INTEGRATION

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Through a large network of strategic partners Lithgow Arms can offer prospective military and law enforcement customers uniquely tailored system-based solutions. Holistic solutions may include the provision of:

- Weapon systems and accessories
- Optical sighting systems
- Ammunition
- Simulation, airsoft, marking and blank-fire training systems
- Load carrying equipment
- Shipping and storage equipment

Beyond a systems approach, Lithgow Arms is committed to generating alternate, flexible approaches to ownership including leasing and buyback options. Contracted services can be included as part of any purchase or lease plan and may include the provision of permanent onsite maintenance and training services at the customer's location.

Lithgow Arms also offers firearms training at its facility, utilising private range facilities and instructors.















# SPORT AND HUNTING

LA 101 CROSSOVER..... 21

LA 102 CROSSOVER..... 25









## LA 101 CROSSOVER

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Under the CrossOver banner, Lithgow Arms has produced a rimfire rifle that can be used in a sport shooting match one day and then carried into the field the next. The LA101 features a level fit and finish that is rarely found in small calibres, a level of quality imparted by using the very same materials, machinery and processes that manufacture our military products, winning the LA101 accolades around the world.

Available in rimfire calibres .17 HMR, .22 LR and .22 WMR.





### ACTION

Three-lug, 60° action, rear locking bolt with cocking indicator. The 60° action allows the fitment of large telescopic sights. Available in left and right hand actions.

### WEAVER RAILS

LA101 CrossOver is fitted with two segments of Weaver accessory rail atop the receiver providing compatibility with a myriad of sight mounts.

### HAMMER FORGED BARREL

22LR and 22WMR CrossOver equipped with a fully floated, cold hammer forged from military grade steel in medium varmint weight with choked bore and 11° target crown.

### POLYMER STOCK

Light weight, glass fibre reinforced polymer stock is produced in the same high impact plastic as the F90 assault rifle and will provide a lifetime of reliable service. Rubber recoil pad and integrated trigger guard.

# CrossOver™

### ADJUSTABLE LENGTH OF PULL

Length of pull can be adjusted<sup>#</sup> between 325-345 mm by adding or removing supplied stock spacers.

### MAGAZINES

LA101 CrossOver is compatible with inexpensive and plentiful CZ 455/456 five and 10-round magazines.

### TRIGGER

Match quality trigger set from the factory at a field friendly 1.5 Kg break.

### STOCK OPTIONS

CrossOver rifles can be supplied in Walnut\* or Laminate\* stocks.



## ACCURACY

The legendary Lithgow accuracy imparted by medium weight hammer forged barrel and semi match chamber makes the CrossOver series suitable for hunting and sport shooting alike.



## THREADED BARREL

LA101 Crossover rifles can be optioned with a threaded barrel to allow fitment of a range of muzzle devices and accessories.



## CHOICE OF CALIBRES

LA101 CrossOver now available in 17HMR, 22LR and 22WMR calibres.



## CERAKOTE™

All Lithgow Arms rifles are finished in Cerakote™ firearms coatings. CrossOver rifles are available in Titanium or Armor Black.



## LEFT HAND ACTION

LA101 CrossOver is available in left handed action with complete reversal of receiver layout, including the safety controls.



## ARMOR BLACK

LA101 CrossOver is available in matte Armor Black Cerakote™ with either polymer or timber stocks.



## LAMINATE STOCK

LA101 CrossOver is available with a floated, walnut brown laminate stock with rubber recoil pad and 347 mm length of pull.



## WALNUT STOCK

LA101 CrossOver is available with a floated, standard grade Turkish Walnut stock with rubber recoil pad and 347 mm length of pull.









# LA 102 CROSSOVER

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The LA102 CrossOver brings Lithgow quality, accuracy and reliability to centrefire cartridges.

The LA102 maintains the military, form-following-function style of the LA101 rifle with reinforced polymer stock, broad flat fore end and Cerakote™ treated barrel and receiver. Accuracy, now synonymous with the Lithgow Arms brand, is assured by our floated, choked hammer forged barrels with semi-match chambers and three-lug lock up bolts. The new, three lever style trigger module fitted to the LA102 is adjustable for weight, sear engagement and overdraw.

Available in centrefire calibres .223 REM, .243 WIN and .308 WIN.

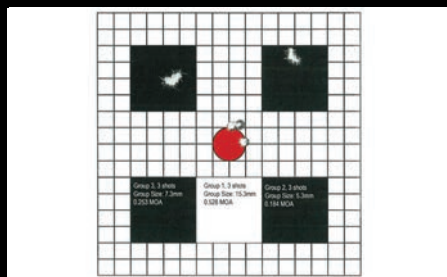


**CrossOver™**



## ACCURACY

The legendary Lithgow accuracy imparted by medium weight hammer forged barrel and semi match chamber makes the CrossOver series suitable for hunting and sport shooting alike.



## THREADED BARREL

The LA102 CrossOver is fitted with a threaded barrel to allow fitment of a range of muzzle accessories.



## CHOICE OF CALIBRES

LA102 is available in .223REM, .243WIN and .308WIN calibres.



## CERAKOTE™

All Lithgow Arms rifles are finished in firearms coatings. LA102 CrossOver rifles are finished in Cerakote™ Titanium H series.



## ADJUSTABLE TRIGGER

Adjustable for weight between 1 and 2.5 Kg, sear engagement and over draw.



## SLING LOOPS

Three sling loop mounts with dual forward sling points allows fitment of bipod and sling simultaneously.



## LAMINATE STOCK

LA102 CrossOver is available with a floated, walnut brown laminate stock with rubber recoil pad and 347 mm length of pull.



## WALNUT STOCK

LA102 CrossOver is available with a floated, standard grade Turkish Walnut stock with rubber recoil pad and 347 mm length of pull.





### THREE POSITION SAFETY

The LA102 CrossOver features a three-position, thumb-operated bolt mounted safety catch. The safety provides a bolt locked and unlocked position while cocked.

### ACTION

Three lug forward locking bolt with 65° rotation, cocking indicator and bolt mounted safety.

### HAMMER FORGED BARREL

Free floated, medium weight varmint barrel with 9° target crown, cold hammer forged and finished in Cerakote™ Titanium H series coating.



### THREADED MUZZLE

All LA102 CrossOver rifles ship with a threaded muzzle as standard.

### POLYMER STOCK

Light weight, glass fibre reinforced polymer stock is produced in the same high impact plastic as the F90 assault rifle and will provide a lifetime of reliable service. Rubber recoil pad and integrated trigger guard.

### RECEIVER

Heavy, high tensile steel receiver fitted with Picatinny rail segment and finished in Titanium Cerakote™ Titanium H Series. Every steel billet receiver requires more than 30 minutes of continuous, complex high speed machining on a multi-axis machining centre to complete.



# CrossOver™

### STOCK OPTIONS

LA102 CrossOver rifles can be supplied in Walnut or Laminate stocks.

### ADJUSTABLE LENGTH OF PULL

Length of pull can be adjusted between 337-357 mm by adding or removing supplied stock spacers.

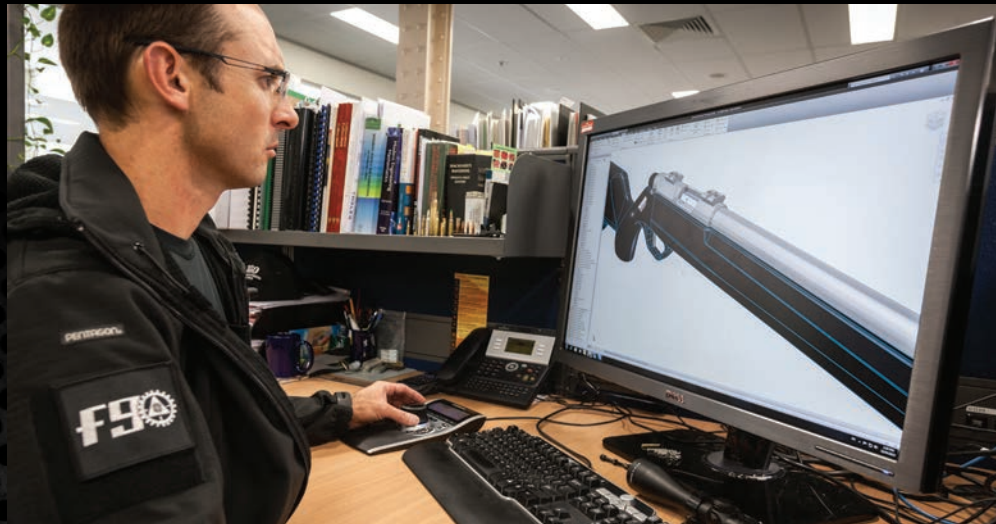


# TECHNICAL SERVICES

## DESIGN AND ENGINEERING

Lithgow Arms can offer partial or complete industrial design solutions, starting at conceptual design and finishing with functional, qualified prototypes for firearms, and firearm sub-systems. The design team consists of multi-disciplined small arms experts, industrial designers and draftsmen drawn from diverse backgrounds in mechanical and manufacturing engineering, plus sporting and military firearms development. Many of the staff members have considerable military service across technical, logistics and combat specialities.

The Lithgow Arms design team operates the very latest CAD and CAE software packages, meaning it can optimise and validate designs in software long before prototyping. Once designs are confirmed, rapid prototyping capabilities ensure a quick turnaround on demonstrative prototypes without the cost and delay of functional prototyping.



## TRAINING SYSTEMS

Lithgow Arms employs technical and firearms trainers, as well as training developers, to satisfy internal and customer training liabilities. Lithgow Arms is able to provide fully developed and customer tailored training packages to suit new products including user, armourer and special tactics disciplines.

These training systems may be adopted by the customer or delivered by Lithgow Arms in either train-the-trainer or fleet rollout formats.

Lithgow Arms developed training packages may include any of the following elements;

- training needs analysis
- training management packages
- learning materials and training aids development including simulation, e-learning, models and mock-ups
- assessment materials
- train the trainer delivery services conducted at the customer location
- fleet delivery services



## DESIGN QUALIFICATION

Lithgow Arms' design qualification is managed within the Small Arms Test Facility (SATF). The SATF conducts controlled testings using world best practices and equipment, including a proprietary, laser-based kinematic assessment system to assess the entire small arms performance spectrum, including:

- human factors, environmental factors
- weapon kinematics
- internal, external and terminal ballistics
- small arms endurance and reliability
- accuracy, dispersion and probability of hit
- accessory performance

The SATF comprises multiple field and indoor ranges between five and 900 metres, with the capacity to fire up to 12.7 mm x 99 munitions. The SATF maintains all specialist equipment required to conduct NATO and UK MOD small arms qualification tests including NATO 1980 mounts, projectile locating systems, thermal cameras, high speed video and environmental conditioning cabinets. The SATF staff are also able to design and conduct non-standard testing to suit a customer's specific investigative requirements.

The SATF is routinely called upon by military and law enforcement agencies to provide independent reporting on small arms equipment and munitions performance.

## PROJECT MANAGEMENT

Lithgow Arms utilises ISO9001 quality certified project management systems to ensure on time and on budget delivery. Lithgow Arms employs award-winning project managers and systems engineers using high value enterprise resources to closely manage internal and customer projects.

## TECHNICAL INVESTIGATIONS

Lithgow Arms can provide onsite and remote technical investigative services at any stage of design or manufacture. Rapid, accurate and independent reporting provides customers clear guidance on how to resolve technical issues and minimise opportunity for reoccurrence.





## MAINTENANCE SYSTEMS

Lithgow Arms can provide tailored maintenance services both domestically and internationally. Lithgow Arms' ongoing relationships with premium international OEMs allows it to provide a single POC for the customer, such as through life support to fleets of mixed make and model via a single agreement. All support activities are tailored to comply with local technical regulatory and data management requirements. These services may include:

- scheduled and unscheduled maintenance
- refurbishment
- demilitarisation and destruction of small arms
- maintenance management





# MILITARY AND LAW ENFORCEMENT

	F90			SL40
				
	F90QCB	F90	F90M	SL40
Overall Length	653 mm	701 mm	802 mm	304.5 mm
Weight	3.15Kg	3.25Kg	3.39Kg	1.02 Kg
Calibre	5.56 mm x 45 NATO			40 mm x 46 LV
Barrel	Proprietary, military grade steel, cold hammer forged. Six external flutes with threaded muzzle. Chrome lined bore and chamber. Phosphate treated and coated in Cerakote™			Proprietary, military grade steel, cold hammer forged. Plasma nitride treated
Barrel Length	360 mm	407 mm	508 mm	180 mm
Rate of Fire	Nominally 740 RPM			Unrestricted
Rifling	6 grooves 1 : 7" (228 mm) right hand twist			6 grooves 1 : 47 1/4 " (1200 mm) right hand twist
Operation	Semi and fully automatic, short stroke gas piston operated			Single shot manual loading
Receiver	Modular, light weight composite receiver. Coated in Cerakote™			Anodised aluminium
Stock	Ergonomic, ambidextrous stock made from high impact fibre reinforced polymer			Lightweight stand-alone stock compatible with M4/M16 aftermarket grips and buttstocks
Length of Pull	385 mm			390 mm (when fitted to F90)
Trigger	Two position, sliding trigger with select fire function. Fitted with single shot lock out			Double Acting, co-located with F90 trigger
Safety	Two or three position sliding, ambidextrous safety that blocks trigger displacement			Two position, rotating lever that blocks trigger and firing pin displacement
Magazine	Removable, double stack box magazine, polymer construction			N/A
Capacity	30 rounds			1 round



# SPORT AND HUNTING

	LA 101 CrossOver			LA 102 CrossOver		
						
	17 Hornady Magnum Rimfire (17HMR)	22 Long Rifle (22LR)	22 Winchester Magnum Rimfire (22WMR)	223 Remington	243 Winchester	308 Winchester
Overall Length	977-1007 mm (Polymer adjustable) 977 mm (Timber)			1067-1087 mm (Polymer adjustable) 1077 mm (Timber)		
Weight	3.1 kg (Polymer) 3.3 kg (Timber)			3.5 kg (Polymer) 3.7 kg (Timber)		
Barrel	Drilled and button broached, target crowned	Proprietary, military grade steel, cold hammer forged. Medium varmint weight, target crowned. Coated in Cerakote™		Proprietary, military grade steel, cold hammer forged. Medium varmint weight, target crowned. Coated in Cerakote™		
Barrel Length	531 mm			560 mm		
Rifling	6 grooves 1 : 9" (228 mm) right hand twist	6 grooves 1 : 16" (406 mm) right hand twist	6 grooves 1 : 16" (406 mm) right hand twist	6 grooves 1 : 9" (228 mm) right hand twist	6 grooves 1 : 10" (254 mm) right hand twist	4 grooves 1 : 12" (279 mm) right hand twist
Muzzle Thread (optional)	½" x 20 UNF Right Hand			M14 x 1 Right Hand		
Receiver	High tensile steel with plate recoil lug. Weaver accessory rail segments . Coated in Cerakote™			High tensile steel with plate recoil lug. Picatinny rail. Coated in Cerakote™		
Stock	Floated design with three sling studs, available in polymer, walnut and laminate			Floated design with three sling studs, available in polymer, walnut and laminate		
Length of Pull	325-345 mm (Polymer Adjustable) 345 mm (Timber)			338-358 mm (Polymer adjustable) 348 mm (Timber)		
Trigger	Single stage 1.5 kg release			Single stage, three way adjustable for weight, sear engagement and draw length. Factory set at 1.5 kg release		
Adjustment Range	-			Approximately 0.75 kg — 1.9 kg		
Safety	Two position, receiver mounted with indicator. Safety catch blocks the trigger			Two position, bolt shroud mounted, rotating safety catch with indicator. Safety catch over-cocks and blocks the firing pin and disconnects the trigger		
Magazine	Removable, single stack box magazine, polymer construction. Compatible with CZ452/455 series			Removable, single stack box magazine, polymer construction		
Capacity	5 and 10 round magazines available			4 rounds	3 rounds	3 rounds





LITHGOW ARMS BATTLE PROVEN SINCE 1912

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