





PRODUCT AND SERVICES CATALOGUE

BATTLE PROVEN SINCE 1912





MANUFACTURE OF SHORT MAGAZINE LEE ENFIELD RIFLES TO SUPPORT THE WAR EFFORT

The 1,500 men and women of the Lithgow SAF manufacture over 100,000 SMLE rifles, bayonets and accourtements to equip Australian soldiers.



PRODUCTION OF THE LIAI SLR COMMENCES

Over 10 years the SAF will manufacture over 220,000 L1A1 SLR rifles, of which more than half are exported. Lithgow produces the automatic, heavy barrel L2A1 AR in lesser numbers. Both are later issued to soldiers travelling to Vietnam.



PRODUCTION OF THE F88 AUSTEYR COMMENCES

After extensive testing and careful selection by the Commonwealth of Australia, the Steyr AUG is selected as the next individual rifle for the Australian Defence Force. Licenced production at the SAF begins in 1988, and with derived models and rebuilds, more than 100,000 rifles will be produced over the life of the platform.



THE F88 EVOLUTION BEGIN THE F88-SA1

The Austeyr evolution starts wi upgrade program for F88 rifles F88-SA1 incorporates a Picatini allowing the fitment of modern acquisition systems.

912 — 1914 — 1939 — 1959 — 1962 — 1

10.30 AM 8TH JUNE HIS EXCELLENCY THE GOVERNOR GENERAL, LORD DENMAN OPENS THE LITHGOW SAF

The Lithgow Small Arms Factory (SAF) is established and the growth of a reputation for engineering excellence and precision mass-production begins.

MANUFACTURING BROADENS IN ANTICIPATION OF WAR

Lithgow SAF manufacturing expands to include the Vickers and Bren machine guns in anticipation of conflict and then in support of Australian war efforts



Lithgow begins production of the F1 Submachine gun which is later issued to troops in Vietnam. The factory produces 25,000 F1s over the coming 11 years.



The FN Herstal MINIMI is selected for service within the Australian Defence Force, renamed the F89. Lithgow begins manufacture of the F89 and returns to manufacturing 24 hours a day on 12 hour shifts.









AUSTRALIAN DEFENCE FORCE COMMITS TO EF88

The Australian military commits to an enhanced F88 program. The resultant F90 rifle is significantly lighter, more accurate and reliable than even the F88-SA2 platform.



THE LA101 CROSSOVER IS CREATED

Lithgow Arms first civilian rifle, the LA101 CrossOver, is designed and manufactured entirely by the factory. The new rimfire receives a very positive reception and makes a successful market debut.



THE LA102 CROSSOVER IS CREATED

LA102 CrossOver short action centrefire is produced, consolidating Lithgow's position as a manufacturer of high quality firearms.

2009

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target

The new

2011 **|--|** 2012

2012 — 2013

2015

2016

THE F88-SA2 IS CREATED AND BRINGS SIGNIFICANT RELIABILITY IMPROVEMENTS TO THE F88 RIFLE

The F88 evolution continues with the introduction of the significantly improved F88-SA2. Reliability of the F88 platform is significantly enhanced and the rifle is battle proven by Australian soldiers in Afghanistan almost immediately.



100 YEAR ANNIVERSARY OF THE LITHGOW SMALL ARMS FACTORY

Now commercially trading under the brand Lithgow Arms, the factory celebrates 100 years of small arms manufacture.



F90 RIFLES DELIVERED TO THE AUSTRALIAN DEFENCE FORCE

After extensive testing and user trials the F90 is accepted into service and delivered to Australian soldiers, with 30,000 rifles planned over five years.







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 Pozières 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





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MILITARY AND LAW ENFORCEMENT

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F90 *A*SS*A*ULT RIFLE

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.



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.

IMRPOVED 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.

MULTI POSITION GAS REGULATOR

Short stroke gas piston with two-position regulator ensures consistent reliable operation in adverse conditions.

HAND PROTECTION

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

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.

LOW PROFILE COCKING HANDLE \

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

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.

IMPROVED ERGONOMICS

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

AMBIDEXTROUS SAFETY

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



F90 F0R LAW ENFORCEMENT

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.





SLYO GREN*A*DE L*A*UNCHER

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 was 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.

MISSION FLEXIBILITY

COMPLETE COMPATIBILITY

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

40x46 3057897 ①

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.



STAND ALONE STOCK

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



RIFLE INTEGRATION

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



LOW WEIGHT

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



SMART MUNITIONS

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



GRENADE LAUNCHER SIGHT

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



SNAG FREE

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



SYSTEMS INTEGRATION

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.













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.



ADJUSTABLE LENGTH OF PULL

Length of pull can be adjusted# 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

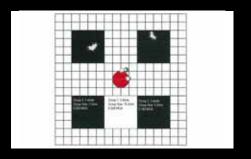
Match quality trigger set from the factory at a field friendly 1.5 Kg break.

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.



LEFT HAND ACTION

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



THREADED BARREL

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



ARMOR BLACK

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



CHOICE OF CALIBRES

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



LAMINATE STOCK

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



CERAKOTE™

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



WALNUT STOCK

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









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.



ADJUSTABLE TRIGGER

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



THREADED BARREL

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



SLING LOOPS

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



CHOICE OF CALIBRES

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



LAMINATE STOCK

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



CERAKOTE™

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



WALNUT STOCK

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







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

l		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		40 mm x 46 LV		
Barrel	Proprietary, military gra Chrome lined bo	Proprietary, military grade steel, cold hammer forged. Plasma nitride treated		
Barrel Length	360 mm	407 mm	508 mm	180 mm
Rate of Fire		Unrestricted		
Rifling		6 grooves 1 : 47 1/4 " (1200 mm) right hand twist		
Operation	Semi (Single shot manual loading		
Receiver	Modular,	Anodised aluminium		
Stock	Ergonomic, ambi	Lightweight stand-alone stock compatible with M4/M16 aftermarket grips and buttstocks		
Length of Pull		390 mm (when fitted to F90)		
Trigger	Two position, slidir	Double Acting, co-located with F90 trigger		
Safety	Two or three posit	Two position, rotating lever that blocks trigger and firing pin displacement		
Magazine	Remove	N/A		
Capacity		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	Button broached, 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 : 11" (279 mm) right hand twist	
Muzzle Thread (optional)	1∕2" × 20 UNF Right Hand			M14 x 1 Right Hand			
Receiver	High tensile steel with recoil lug. Weaver bases. Coated in Cerakote™			High tensile steel with plate recoil lug. Picatinny rail. Coated in Cerakote ™			
Stock	Floated design with two 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)			337-357mm (Polymer Adjustable) 347mm (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, with indicator. Safety catch blocks the trigger			Three 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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