

# FUTURE ARTILLERY SYSTEMS

## 2016 MARKET REPORT

Defence 

IN ASSOCIATION WITH



23 - 25 May, 2016  
Tidworth, United Kingdom

# CONTENTS

SUMMARY	2
KEY ARTILLERY REQUIREMENTS	3
<i>EUROPE</i>	4
<i>ASIA-PACIFIC</i>	7
<i>NORTH AMERICA</i>	10
<i>LATIN AMERICA</i>	11
<i>MIDDLE EAST &amp; AFRICA</i>	12
ARTILLERY HOLDINGS & PLANS	15
<i>EUROPE</i>	16
<i>RUSSIA &amp; CIS</i>	25
<i>ASIA-PACIFIC</i>	32
<i>NORTH AMERICA</i>	43
<i>LATIN AMERICA</i>	44
<i>MIDDLE EAST/NORTH AFRICA</i>	52
<i>SUB-SAHARAN AFRICA</i>	61
EVENT INFORMATION	71

---

## ***Disclaimer***

*Please note that all information herein is subject to change. Defence IQ endeavours to ensure accuracy wherever possible, but errors are often unavoidable. We encourage readers to contact us if they note any need for amendments or updates. We accept no responsibility for the use or application of this information. We suggest that readers contact the specific government and military programme offices if seeking to confirm the reliability of any data.*

# SUMMARY

**A radical change in the future structure of artillery forces is focusing on increased precision and networking.** In the U.S., Excalibur and the XM1156 Precision Guidance Kit (PGK) are key components of the modernisation programme. The HMMWV-mounted AN/TPQ-50 Lightweight Counter Mortar Radar (LCMR) and the truck-mounted AN/TPQ-53 Quick Reaction Capability Radar are also planned to become the prime target acquisition radars as part of the Field Artillery Modernization Strategy. In addition, the Joint Effects Targeting System (JETS) is scheduled for fielding in 2016.

In the U.K., under Army '2020,' 3 Reaction Regiments will have 3 Batteries of AS90 SP Howitzers and 1 Battery of GMLRS. One reserve regiment will have GMLRS. 2 Adaptable Artillery Regiments have 105MM Light Guns, as does 1 reserve regiment. The Light Gun also equips the artillery regiments of 16 Air Assault and 3rd Commando Brigades. The AS90 is planned to stay in service until 2023. There are also plans to procure a Course-Correcting Fuze.

The French Army will receive a second tranche of Nexter Systems CAESAR 155 mm/52- calibre truck mounted self-propelled artillery systems, with the contract for 64 systems due to be awarded in 2017. 30,000 Spacido fuzes are also scheduled to be fielded from 2017, while the Metric Precision Munition (MPM) is planned to enter service in 2020.

The 2S1 122MM SP howitzer is being upgraded in Russia, as is the BM-30 SMERCH and URAGAN MLRS systems while in China, the latest 155MM SP gun is the PLZ-52. India has entered into a joint venture with Russia to produce the SMERCH MLRS and Brazil is upgrading its ASTROS rocket system to ASTROS III standard with the AV/MT 300 cruise missile. Under its artillery modernisation plan, the Indian Army envisages the induction of 2,814 guns of different types from both indigenous and foreign sources by 2025.

# KEY REQUIREMENTS

**ACTIVE PROGRAMMES &  
EXPECTED ACQUISITIONS**

# ACTIVE PROGRAMMES & REQUIREMENTS

Selected acquisition and modernisation from around the world...

## EUROPE



### Croatia

- Croatia has ordered 12 Panzerhaubitze 2000 (PzH 2000) 155 mm self-propelled howitzers from ex-German military stocks, it has been announced.
- The delivery of the PzH 2000s to the Croatian Armed Forces (CAF) is to be done in two tranches of six systems: the first was due in the second half of 2015 and the second in 2016.

### Cyprus

- An unspecified number of 155MM SP Howitzers are planned to be purchased from France.

### Finland

- MLRS to be upgraded for use of Unitary Warhead Guided Rockets as well as ATACMS.

### France

- The French Army will receive a second tranche of Nexter Systems CAESAR 155 mm/52- calibre truck mounted self-propelled artillery systems, with the contract for 64 systems due to be awarded in 2017.
- France is planning to field 30,000 Spacido fuzes from 2017, while Nexter's Metric Precision Munition (MPM) is planned to enter service in 2020.
- The Army is also planning to acquire the Raytheon Excalibur Precision Guided Munition.

### Germany

- In Germany, the Army is hosting a competition to supply a new 155 mm high explosive projectile with increased range and accuracy. Guided MRL rockets will also be procured and these are meant to provide a significant increase in range as well as a precision effect.
- Germany may procure Excalibur.



### EUROPE



#### Greece

- Greece is expected to push ahead with over \$ 1 billion worth of defence upgrade programmes.
- For the Hellenic Army, the upgrade of 36 Lockheed Martin 270 Multiple Launch Rocket Systems is expected.

#### Italy

- 4 ARTHUR Artillery Locating Radars are on order.
- With sponsorship from the Italian Ministry of Defence, Oto Melara is developing the Vulcano family of 155 mm ballistic extended-range (BER) and guided long-range (GLR) projectiles.
- Initial deliveries are expected to begin in 2016.

#### Netherlands

- 32 PzH2000 SP howitzers remain stored for sale.

#### Norway

- Norway has terminated its contract for 24 Archer 155MM SP truck-mounted howitzers. Norway and Sweden still plan to co-operate on artillery locating radar (ARTHUR), fire control systems, ammunition, education and training.
- The current M-109 155MM SP howitzers have a service life until 2020. The options for their replacement are being reviewed.

#### Poland

- Procurement plans include 155MM SP artillery (KRAB); MLRS; HIMARS and 120MM SP mortars.



### EUROPE



#### Russia

- It is likely that the 2S25 anti-tank gun will be soon replaced by a member of the KURGANETS family armed with an externally mounted gun.
- The army is upgrading its BM-30 SMERCH 300MM MLRS with new navigation and targeting systems. The SMERCH System's GLONASS Satnav. System will be included in an upgrade to the TORNADO-S artillery system (which will also have unguided rockets).
- The TOS-1 BURATINO 220MM MLRS is being exported to Jordan.
- The Army is upgrading its URAGAN 16-round 220mm MLRS with new navigation and targeting systems.
- The obsolescent 2S1 amphibious 122MM SP howitzer is being upgraded to the 2S34 JHOSTA standard.
- For many years the Russian Army has standardised its artillery systems on 122 mm and 155 mm calibres and this is being retained with the Koalitsiya.

#### Spain

- 4 ARTHUR Mortar-Locating Radars are on order.

#### Sweden

- 24 ARCHER Truck-Mounted 155MM Howitzers are being delivered to replace FH-77Bs. Series production starts in 2016. Sweden has received 100 rounds of Excalibur munitions.

#### Turkey

- The PANTER and FIRTINA 155MM Guns are replacing the M-114 and older SP Systems. 350 FIRTINAs and 138 PANTERs are required.

#### UK

- Under Army '2020,' 3 Reaction Regiments will have 3 Batteries of AS90 SP Howitzers and 1 Battery of GMLRS. One reserve regiment will have GMLRS. 2 Adaptable Artillery Regiments have 105MM Light Guns, as does 1 reserve regiment. The Light Gun also equips the artillery regiments of 16 Air Assault and 3rd Commando Brigades.
- The AS90 is planned to stay in service until 2023.
- There are plans to procure a Course-Correcting Fuze. Guided MLRS Rockets are also being procured.

### ASIA-PACIFIC



#### Australia

- The LAND 17 Artillery Replacement Project is for replacement of 105MM and 155MM Guns by 2 Batteries of SP Howitzers, 4 Batteries of Lightweight Towed Howitzers and a Networked Battle Management System.

#### China

- The ZBL-09 105MM Assault Gun Vehicle is being introduced. China has fielded 122 mm and 152 mm towed and SP artillery weapons but has been replacing its 152 mm systems with 155 mm towed and SP weapons. These 155 mm artillery weapons are also being offered on the export market by China.

#### India

- The PINAKA MRL is in series production to replace the BM-21s.
- 40 Arjun Catapult 130MM SP guns were ordered in 2014.
- India has a long-standing need for self-propelled artillery and has started and terminated three programmes in an attempt to meet the requirement. In August 2012 the MoD issued a request for information (RfI) for self-propelled 155 mm 52/45 calibre wheeled howitzers for the fourth time.
- India's locally constructed Bofors FH-77B 155 mm/45 calibre towed howitzer prototypes underwent their final round of trials in the Rajasthan desert in late June ahead of expected series production.

#### Indonesia

- 37 Caesar 155MM SP systems were ordered in 2012, with deliveries commencing in 2014.
- The 76MM Guns/Howitzers are to be replaced by KH178 105MM Light Guns from South Korea.
- Order reported for WR40 LANGUSTA Artillery Rocket Systems.





### ASIA-PACIFIC



#### Japan

- 32 Artillery Pieces are planned for procurement in the Mid-Term Defence Programme.
- The JGSDF will reduce its artillery from about 600 to about 300 howitzers.
- The JGSDF currently deploys the 105 mm armed Type 74 tracked self-propelled howitzer.

#### Philippines

- A 155mm Howitzer acquisition programme was announced in November 2013. The PHP1 billion programme seeks to procure 10 howitzers and is reportedly in an advanced stage of assessment.

#### Singapore

- The latest conventional tube artillery system to enter service is the Pegasus Light Weight Howitzer.
- The SAF has also deployed 18 HIMARS. 88 unitary high explosive GMLRS pods with tri-mode fuzes and related equipment are being procured.
- Singapore's land systems capabilities are concentrated on the design, development and production of 155 mm artillery systems.

#### South Korea

- Requirement for 500+ THUNDER 155MM SP Gun/Howitzers to replace M-107s, M-110s and at least part of M-109 fleet of Guns.
- The EVO-105 self-propelled howitzer was marketed at the 2013 Seoul International Aerospace and Defence Exhibition (ADEX). The RoKA plans to acquire 800 EVO-105s with an in-service date of 2017.

#### Taiwan

- The M-108 and M-109A2 155MM SP Howitzers are being upgraded to M-109A5 configuration.
- Total requirement of 150 RT2000 modular MRL Systems.



### ASIA-PACIFIC

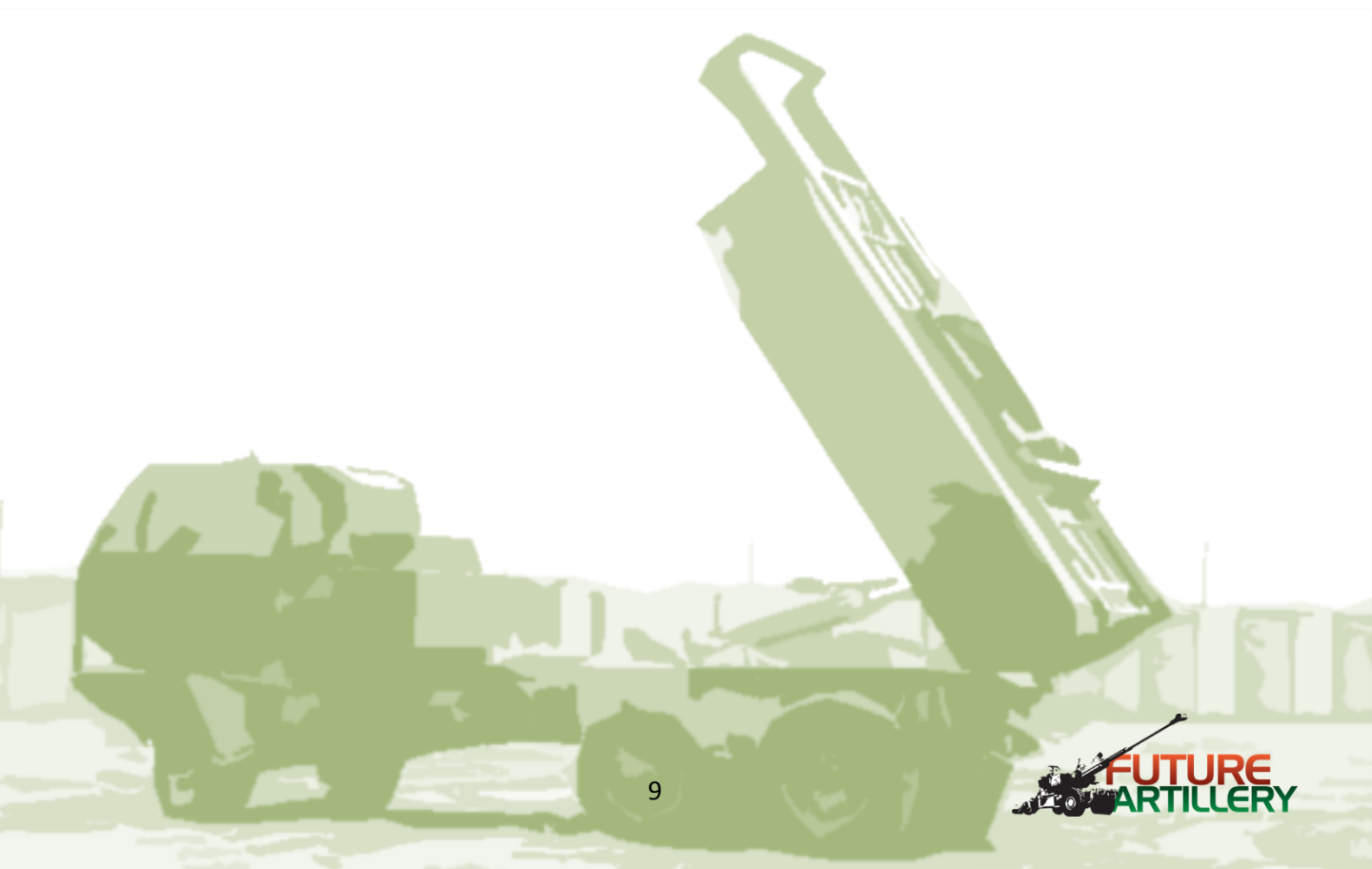


#### Thailand

- Thailand's land systems capabilities are concentrated on the production of howitzers, mortars and propellants.
- The Royal Thai Navy (RTN) has signed a contract with Saab to procure an undisclosed number of the company's ARTHUR weapon-locating radars for use by the Royal Thai Marine Corps.

#### Vietnam

- Vietnam's principal defence industry capabilities are in the manufacturing of small arms and small-arms munitions. These include mortars and associated sub-munitions.
- Trials of the latest Russian 152 mm 2S35 Koalitsiya (Coalition) – SV self-propelled gun (SPG) are now under way.



### NORTH AMERICA



#### USA

- The M1122 155MM HE training projectile will replace the M107 HE projectile and the XM1123 155MM extended range IR illumination and XM1124 155MM extended range visible illumination projectiles are in development.
- There are plans for improvements to the M777A2's Digital Fire Control System and a Laser Ignition System, intended to handle the Modular Artillery Charge (MACS) load, is also planned.
- Select US Army artillery units will be equipped with the Joint Effects Targeting System (JETS) system by 2016.
- BAE Systems has received a \$142 million contract from the US Army to continue low-rate initial production on the M109A7 self-propelled howitzer and M992A3 ammunition carrier.
- In mid-2014 Raytheon received approval for full-rate production of the Excalibur 1b and a \$52 million contract for continued 1b production. Increment 1b deliveries are to run until fiscal year 2017.
- The US Army's High Explosive Guided Mortar (HEGM) requirement could start in FY 2017 with potential qualification for a production start-up by FY 2020.



# LATIN AMERICA & THE CARIBBEAN



### Argentina

- Procurement of Carl Gustav RCLs is under consideration.

### Brazil

- In 2011, Brazil's MoD decided to upgrade the ASTROS to ASTROS 2020 (ASTROS III) as part of a \$760 million Growth Acceleration Programme. The Brazilian Army also plans to buy 3 Batteries of ASTROS 2020, which incorporates the AV-TM Cruise Missile.
- France's Nexter and Brazilian company Avibras have signed a co-operation accord to develop a system based on the Nexter CAESAR wheeled self-propelled gun (SPG).

### Colombia

- An additional batch of 12 LG1 MK111 105 MM light guns is being delivered.

### Mexico

- The Mexican military will continue its modernisation effort, next focusing on artillery.

### Peru

- The Peruvian Army has selected the Norinco Type 90B 122MM multiple rocket launcher (MRL) to fulfil its JUCRAM requirement, which is to improve the field artillery capability of the Land Force's Southern Operational Command.
- A contract worth an estimated \$42 million will include 40 MRLs along with munitions, engineering, command and control, and other support vehicles.



### MIDDLE EAST & AFRICA



#### Azerbaijan

- 36 FIRTINA 155MM Tracked Howitzers are on order from Turkey. A major deal with Russia is reported, including 12 2S19 MSTA-S 152MM SO howitzers, 18 SMERCH MRL systems and 18 VENA 120MM SP mortars.

#### Bahrain

- Bahrain is upgrading its M270 MLRS systems to the M270C1 standard.

#### Djibouti

- The Djibouti Armed Forces (FAD) displayed their newly acquired M109 self-propelled howitzers and Puma armoured personnel carriers (APCs) for the first time during a parade on the 27th June 2015.
- Local TV footage showed at least 8 M109Ls: a version of the original M109 that was modified and rearmed with a longer-range 155 mm/39 calibre barrel for the Italian Army by Oto Melara.

#### Iraq

- A number of M109 155MM SP Howitzers have been refurbished and brought back into service.
- 6 AN/TPQ-36(V)10 FIREFINDER and 18 AN/TPQ-48 Artillery/Mortar Locating Radars are on order.



### MIDDLE EAST & AFRICA



#### Israel

- The Israeli Artillery Corps is moving towards longer-range, high-precision and weather- and jam-immune systems.
- The Israel Defence Force (IDF) is considering the purchase of new howitzers to replace its aging M109A2 155 mm self-propelled howitzers.
- Some M109s have been in service since the 1970s. Another option under consideration is for local industries to upgrade the M109. If funding permits, the Israel Defence Force (IDF) is expected to order an initial batch of 18 new 155 mm SPGs.
- The Israel Defence Force (IDF) has issued a request for information for precision rocket and missile systems to enhance its ground-forces capabilities.
- Israel Military Industries (IMI) is developing a 120 mm guided mortar munition (GMM), which is currently being qualified for use by the Israel Defense Forces' 120 mm mortar platforms.

#### Lebanon

- Plan for 36 more D-30 122MM Howitzers from Russia announced in November 2010, but no evidence of delivery.
- Saudi Arabia and France signed a deal in November 2014 that will see the Lebanese Armed Forces (LAF) receive \$3 billion of French armaments funded by the Gulf kingdom.
- Land systems include up to 30 Caesar 155 mm self-propelled howitzers with the ATLAS automated field artillery fire support system and COBRA counter-battery radar.

#### Oman

- Oman is considered a future potential HIMARS customer.

#### Qatar

- The procurement of 7 M142 HIMARS artillery rocket systems with 60 ATACMS Block 1A and 360 M31A1 GMLRS rockets is planned.
- 24 PzH 2000 155MM SP guns were ordered in 2013 for delivery from 2015.



### MIDDLE EAST & AFRICA



#### Saudi Arabia

- Order for 36 M-777A2 155MM and 54 M-119A2 105MM Howitzers, plus 6 AN/TPQ-36(V) FIREFINDER Artillery Locating Radars under negotiation.
- 80 CAESAR 155MM Truck-Mounted SP Howitzers are being delivered to National Guard (Requirement 100).

#### UAE

- 20 HIMARS Artillery Rocket Systems (100 ATACMS Rockets) are on order.
- 3 COBRA Artillery Locating Radars are on order.



**HOLDINGS**

**WORLD'S ARTILLERY SYSTEMS**





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Albania</b>	MORTARS: 81 82MM; 12 120MM	
<b>Austria</b>	58 M-109 A5OE 155mm SP MORTARS: 90 sGrW 86 120MM Mortars (+10 stored) ANTI-TANK: PAL 2000 BILL	
<b>Belgium</b>	14 LG1 Mk.2 105MM MORTARS: 39 81MM: 52 120MM	
<b>Bosnia and Herzegovina</b>	100 D-30 122MM MRLs; 24 APR-40 122MM MORTARS: 100 M-75 120MM ANTI-TANK: 8 9P122 MALYUTKA; 9 P133 MALYUTKA; 32 BOV-1; 11 M-92; AT-3,4,7, HJ-8; MILAN	
<b>Bulgaria</b>	24 D20 152MM 48 2S1 122MM SP MRLs: 24 BM-21 122MM MORTARS: 215 2S11 SP TUNDZHA ANTI-TANK: 24 9P148 KONKURS; 9K111 FAGOT; 9K113 KONKURS; 85MM/126 MT-12 100MM GUNS (150 D-44 85MM IN STORE)	



COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Croatia</b>	18 M-1H1 155MM 19 M-46H1 130MM 27 D30 122MM 8 2S1 122MM SP MRLs; 31 BM-21 GRAD 122M; 6 M91 VULKAN; 2 LOV RAK M91 R24 MORTARS; 29 LMB M96 82MM; 70 M-75/5 UBM 52 120MM ANTI-TANK: 28 POLO BOV 83 SP; 9K11 MALYUTKA; 9K111 FAGOT; 9K115 METIS; 9K113 KONKURS; MILAN (reported)	12 PzH 2000 155MM SP on order
<b>Cyprus</b>	12 Tr F1 155MM 12 F3 155MM SP 12 ZUZANA 155MM SP 72 M-56 105MM 20 100MM MRLs; 18 M-63 128MM 4 BM-21 122MM MORTARS: 170 E-44 81MM; 20 M2/M30 107MM; 112 RT61 120MM ANTI-TANK: 15 EE-3 JARARACA (with MILAN); 18 VAB (with HOT); HOT; MILAN; 144 M40A1 106MM RCLs; 1,000 APILAS 112MM RLs	
<b>Czech Republic</b>	95 M-77 DANA 152MM SP (+35 IN STORE) MORTARS: 40 M1982 120MM; 8 SPM85 120MM SP; (42 M-1982 IN STORE) ANTI-TANK: 9K113 KONKURS	



COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Denmark</b>	24 M-109A3 155MM SP MORTARS: 20 SOLTAM K6B1 ANTI-TANK: TOW; 349 CARL GUSTAV 84MM RCL	
<b>Estonia</b>	42 H63 122MM 24 FH-70/A1 155MM MORTARS: 41 B455, 80 M252 AND 10 NM 95 81MM; 14 2B11 120MM; 165 41D 120MM ANTI-TANK: MILAN; IMI MAPATS; 30 M40A1 106MM; 130 PV-1110 90MM; 84MM CARL GUSTAV RCLs	
<b>Finland</b>	234 D-30 122MM 36 K 54 130MM 54 K 83/K 98 155MM 36 2S1 122MM SP MRLs; 22 MLRS M-270 MORTARS: 261 KRH92 120MM; 4 XA- 361 AMOS 120MM ANTI-TANK: SPIKE;TOW	MLRS to be upgraded for use of Unitary Warhead Guided Rockets as well as ATACMS
<b>France</b>	37 AUF-1 155MM SP 43 TRF-1 155MM 77 CAESAR 155MM Truck-Mounted MRLs: 26 MLRS 227MM MORTARS: LRR 81MM; 140 RT-F1 120MM ANTI-TANK: 30 VAB HOT SP; 110 VAB MILAN SP; 185 VAB ERYX; JAVELIN; MILAN	Only the CAESARs will remain in-service of the 155MM Artillery.



COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
Germany	138 PzH-2000 155MM SP MRLs: 56 227MM MLRS MORTARS: 104 TAMPELLA 120MM ANTI-TANK: 86 WIESEL SP (TOW); MILAN	
Greece	18 M-56 105MM 263 M-101 105MM 129 M-114 155MM 24 PzH-2000 155MM 418 M-109A1/A2/A3/A5 155MM SP 105 M-110A2 203MM SP MRLs; 111 RM-70 DANA 122MM 36 MLRS 227MM MORTARS: 1,629 81MM; 620 107MM (inc 231 SP) ANTI-TANK: 196 HMMWV with AT-14; 42 HMMWV with MILAN; 290 M901; AT-4; MILAN; TOW; 581 M-40A1 106MM SP RCLs; 2,000 CARL GUSTAV 84MM; EM-67 90MM MANPATs	
Hungary	18 D-20 152MM MORTARS: 50 82MM ANTI-TANK: AT-4 SPIGOT: AT-5 SPANDREL	
Ireland	24 L118 105MM Light Guns MORTARS: 95 120MM; 400 81MM ANTI-TANK: CARL GUSTAV 84MM RCL; JAVELIN	





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
Italy	164 FH-70 155MM 124 M-109L 155MM SP 68 PzH-2000 155MM SP MRLs; 22 MLRS MORTARS: 212 81MM; 325 120MM; 183 BRANDT; 142 RT-F1 ANTI-TANK; SPIKE; MILAN; 80MM RCL	4 ARTHUR Artillery Locating Radars on order
Latvia	23 K-53 100MM MORTARS: 28 L-16 81MM; 25 M120 120MM ANTI-TANK: CARL GUSTAV 84MM RCL; SPIKE-LR; 130 90MM Guns	
Lithuania	18 M101 105MM MORTARS: 15 M-113 (with TAMPELLA); 5 2B11 120MM; 10 M/41D 120MM ANTI-TANK: CARL GUSTAV 84MM RCLs; JAVELIN; 10 M1025A2 HMMWV (with JAVELIN)	
Macedonia	56 M-30/M-1938 122MM 14 M-56 105MM MRLs; 11 128MM; 6 BM-21 122MM MORTARS: 39 120MM ANTI-TANK: 57MM; M60A 82MM RCLs; MILAN	
Netherlands	MORTARS: 12 81MM ANTI-TANK: SPIKE-MR; PANTSERFAUST III DYNARANGE 2000 84MM RL	32 PzH2000 SP howitzers remain stored for sale.





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Poland</b>	292 2S1 122MM SP GOZDIK 111 152MM SP DANA MRLs; 75 122MM BM-21 30 RM70 75 WR-40 LANGUSTA MORTARS: 95 M120 120MM; 89 M98 98MM ANTI-TANK: AT-3; AT-4; SPIKE-LR	
<b>Portugal</b>	6 M-109A2 SP 17 M-109A5 SP 8 M-101A1 105MM 18 M-119 105MM 25 M114A1 155MM 5 M-56 105MM MORTARS: 182 81MM (inc. 21 SP); 52 107MM M30 (inc. 20 SP); 49 120MM Tampella ANTI-TANK: 51 M40 106MM; 152 GARL GUSTAV 84MM; 34 M67 90MM RCLs; MILAN; SPIKE LR; SPIKE MR; TOW (14 M113 with TOW; 4 M901 with TOW) MORTARS; 30 120MM (Marines)	
<b>Romania</b>	6 2S1 122MM SP 18 MODEL 89 122MM SP 72 M-30 122MM 247 M-1981 152MM 103 M-1985 152MM MORTARS: 266 M-1982 120MM MRLs: 133 APR-40 122MM; 54 LAROM 160MM (Upgraded APR-40) ANTI-TANK: 209 M1977 100MM; 23 SU-100 SP GUNS; 86 AT-3 SP; 48 AT-5 SP	





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Serbia</b>	67 2S1 122MM SP 78 D-30 122MM 36 M-84 152MM 18 M-46 130MM 66 M-1 155MM 6 M-65 155MM MRLs; 18 M-63 128MM 60 M-77 128MM 3 M87 ORKAN 262MM MORTARS: 57 M-74/M-75 120MM; 106 M-69 82MM ANTI-TANK: 48 BOV-1 SP (with AT-3); AT-3; AT-4; 6 M-79 90MM RCLs	
<b>Slovakia</b>	18 D30 122MM 3 M-77 152MM SP 16 ZUZANA M-2000 155MM SP MRLs; 26 RM MODULAR 122MM; 4 RM-70 122MM ANTI-TANK: BMP-1 SP (AT-3); BMP-2 SP (AT-4); BRDM-2 SP (AT-5); AT-3; AT-5	
<b>Slovenia</b>	18 SOLTAM TN90 155MM MORTARS: 45 120MM (SOLTAM MN-9) ANTI-TANK: 12 BOV-3 (with 9K11 MALYUTKA; 12 BOV-3 (with 9K111 FAGOT); 9K11 MALYUTKA; 9K111 FAGOT	



COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Spain</b>	64 155MM SBTs + 19 COASTAL 56 L-118 105MM Light Guns 168 MODEL 56 105MM Pack Howitzers 96 M-109A5 155MM SP 6 M109A2 155MM SP (Marines) 12 M-56 105MM (Marines) MORTARS: 989 81MM; 461 120MM ANTI-TANK: 116 MILAN SP; SPIKE-LR; MILAN; TOW 24 TOW-2; C-90C 90MM RL (Marines)	4 ARTHUR Mortar-Locating Radars on order
<b>Sweden</b>	4 ARCHER Truck-Mounted 155MM Howitzers MORTARS: 191 120MM ANTI-TANK: RB-55; RB-56 BILL; CARL GUSTAV 84MM RCL	24 ARCHER Truck-Mounted 155MM Howitzers being delivered to replace FH-77Bs.
<b>Switzerland</b>	133 M109 155MM SP MORTARS: 250 M113 with M72/91 81MM SP ANTI-TANK: 110 PIRANHA1 TOW-2	





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Turkey</b>	<p>391 105MM SP  75+ M101A1 105MM  517 M-114A2 155MM  162 M-115 203MM  6 PANTER 155MM  222 M44T1 155MM SP  36 M-107 175MM SP  219 M110A2 203MM SP  250 (EST.) FIRTINA 155MM SP  MRLs; 12 MLRS (72 ATACMS Rockets)  50+ KASIRGA 302MM  36 (EST) T-122 122MM  48 107MM  MORTARS: 3,792 81MM; 578 120MM;  179 120MM SP; 1,264 M-30 SP 107MM  ANTI-TANK: 923 57MM; 617 75MM;  2,329 106MM RCLs; 365 TOW SP; AT-14;  COBRA; ERYX; MILAN</p>	<p>PANTER and FIRTINA replacing M-114 and older SP Systems.  336 FIRTINAs and 138 PANTERs required</p>
<b>UK</b>	<p>90 105MM Light Guns  89 AS90 155MM SP  35 M270B1 MLRS (unitary warhead rockets)  MORTARS: 360 81MM  ANTI-TANK: SPIKE; JAVELIN</p>	





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Armenia</b>	69 D-30 122MM 25 2A36 152MM 2 D-1 152MM 34 D-20 152MM 10 2S1 122MM SP 28 2S3 152MM SP MRLs; 47 BM-21 122MM 4 WM80 273MM MORTARS: 12 M120 120MM ANTI-TANK: 9 P148; 13 P149 SP	
<b>Azerbaijan</b>	129 D-30 122MM 36 M-46 130MM 24 D-20 152MM 18 2A36 152MM 46 2S1 122MM SP 12 2S7 203MM SP 6 2S3 152MM SP 18 2S19 152MM SP 5 ATMOS 2000 155MM SP MRLs; 43 BM-21 122MM 30 9A52 MERCH 300M 9+ IMI LYNX 122MM 12 RAK-12 128MM 6TOS-1A 220MM MORTARS: 5 CARDOM 120MM;107PM28 120MM ANTI-TANK: AT-3; AT-4; AT-5; AT-7; SPIKE -LR	36 FIRTINA 155MM Tracked Howitzers are on order from Turkey





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
Belarus	48 2A36 152MM 132 2A65 152MM 48 D-30 122MM (Special Forces) 198 2S1 122MM SP 12 2S19 152MM SP 108 2S3 152MM SP 116 2S5 152MM SP 48 2S9 120MM SP MRLs; 126 BM-21 122MM 36 9A52 300MM 72 9P140 220MM MORTARS: 61 2S12 120MM ANTI-TANK: 126 9P148 SP; 110 9P149 SP; AT-4; AT-5; AT-6; AT-7 (also used by Special Forces)	
Georgia	58 D-30 122MM 3 2A36 152MM 10 2A65 152MM 32 DANA 152MM SP 20 2S1 152MM SP 13 2S3 152MM SP 1 2S19 152MM SP 1 2S7 203MM SP MRLs; 13 BM-21 122MM 6 GRADLAR 122MM 18 RM-70 122MM MORTARS: 14 2S12 120MM; 33 M-75 120MM; 18 M120 120MM ANTI-TANK: 10 (EST.) MSL; 40 (EST.) GUNS	

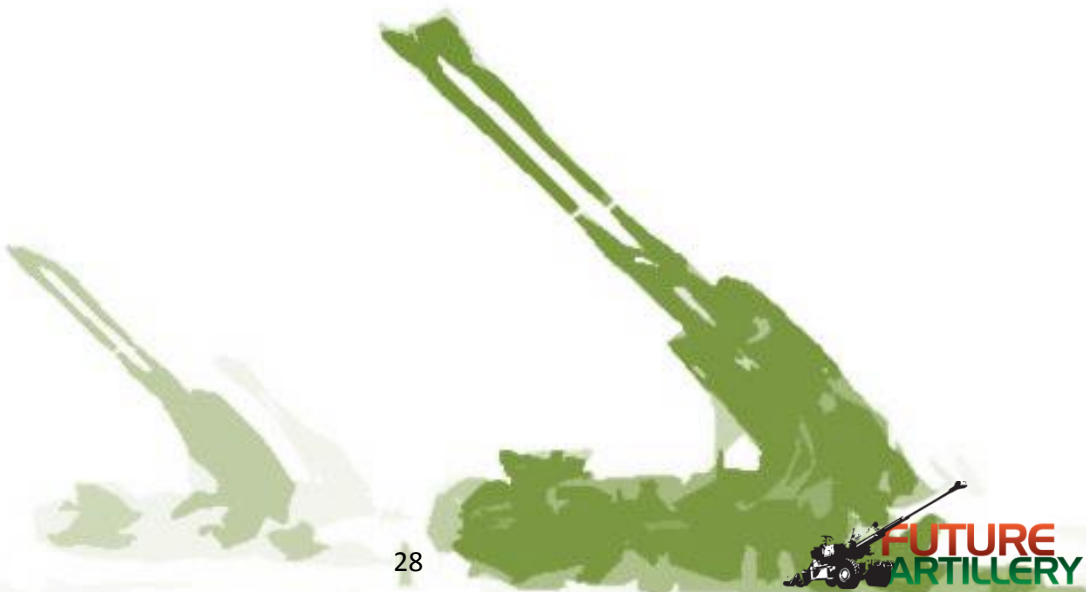




COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Kazakhstan</b>	100 D-30 122MM (up to 300 in store) 50 2A65 152MM 120 2S1 122MM SP 120 2S3 152MM SP 6 SENSER 122MM SP MRLs; 100 BM-21 122MM (+100 in store) 180 URAGAN 220MM (in store) 18 LYNX 300MM Mortars: 18 CARDOM 120MM SP; 45 2B11/M120 120MM ANTI-TANK: 3 BMP-T SP; AT-4; AT-5; AT-6; 68 MT-12/T-12 100MM GUNS	
<b>Kyrgyzstan</b>	18 2S1 122MM SP 18 M-1944 100MM 72 D-30 122MM 35 M-30 (M-1938) 122MM 16 D-1 152MM 12 2S9 120MM MRLs: 15 BM-21 122MM 6 9P140 220MM MORTARS: 6 2S12 120MM; 48 M-120 120MM ANTI-TANK: AT-3; AT-4; AT-5; SPG-9 73MM RCL; 18 MT-12/T-12 100MM GUNS	



COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
Moldova	21 2A36 152MM 31 D-20 122MM 17 M-30 122MM MRLs; 11 9P140 URAGAN 220MM MORTARS: 52 82MM; 7 M-120 120MM; 9 2S9 ANONA 120MM SP ANTI-TANK: AT-4; AT-5; AT-6; SPG-9 73MM RCL; 36 MT-12 100MM GUNS	





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
Russia	<p>1,500 122MM/152MM SP (+ 4,300 122MM/152MM/203MM SP in store)</p> <p>150 2A65 152MM (+ 12,415 122MM/130MM/152MM/203MM in store)</p> <p>263 122MM/152MM (Naval Infantry)</p> <p>36 (EST.) A-222 130MM SP (Coastal Artillery)</p> <p>150 D-30 122MM (Airborne Troops)</p> <p>MRLs; 850+ 122MM/220MM/300MM (+3,220 122MM/132MM/220MM in store)</p> <p>36 BM-21 122MM (Naval Infantry)</p> <p>MORTARS: 430 2S4 240MM SP (in store); 1,500 81MM/120MM (2,200 120MM/160MM in store)</p> <p>66 120MM (Some SP) (Naval Infantry)</p> <p>450+ 82MM/120MM/120MM SP (+500 in store) (Airborne Troops)</p> <p>ANTI-TANK: BMP-T with AT-9 SP; 9P149 with AT-6 SP; 9P157-2 with AT-15 SP; AT-4; AT-5; AT-6; AT-7; AT-8; AT-10; AT-11; AT-13; AT-14; SPG-9 73MM RCL; RPG-29 105MM RL; 526 MT-12 100MM GUNS (+ 2,000 in store)</p> <p>9P149 with AT-6 SP; 9P157-2 with AT-15 SP (Naval Infantry)</p> <p>AT-3; AT-5; T-12 100MM GUNS (Naval Infantry)</p> <p>AT-4; AT-5; AT-6; AT-7; AT-8; AT-10; AT-11; AT-13; AT-14; 100 BTR-RD SP MSL; SPG-9 73MM RCL; RPG-29 105MM RL; 36+ 2S25 125MM SP GUNS (Airborne Troops)</p>	



COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
Tajikistan	10 D-30 122MM MRLs: 3 BM-21 122MM MORTARS: 10 120MM	
Turkmenistan	16 2S3 152MM SP 40 2S1 122MM SP 180 D-30 122MM 17 D-1 152MM 72 D-20 152MM MRLs; 56 BM-21 122MM 9 9P138 122MM 60 9P140 220MM 6 SMERCH 300MM MORTARS: 31 82MM; 66 PM-38 120MM ANTI-TANK: AT-3; AT-4; AT-5; AT-6; 72 MT-12/T-12 100MM GUNS	





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Ukraine</b>	240 2S1 122MM SP 35 2S19 152MM SP 235 2S3 152MM SP 18 2S5 152MM SP 2S7 203MM SP (up to 90 in store) 75 D-30 122MM 180 2A36 152MM 130 2A65 152MM 130 D-20 152MM 2 2B16 NONA-K 120MM 40 2S9 120MM SP (Airborne Forces) 54 D-30 122MM (Airborne Forces) MRLs; 185 BM-21 122MM 18 9P138 122MM 70 9P140 220MM 75 9A52 300MM MORTARS: 190 2S12 120MM; 30 PM-38 120MM 24 2S12 120MM (Airborne Forces) ANTI-TANK: AT-4; AT-5; AT-6; 500 (EST.) MT-12/T-12 100MM GUNS	
<b>Uzbekistan</b>	18 2S1 122MM SP 17 2S3 155MM SP 2S5 155MM (Reported) SP 48 2S7 203MM SP 60 D-30 122MM 140 2A36 152MM MRLs: 24 9P138 122MM; 36 BM-21 122MM; 48 9P140 220MM MORTARS: 3 2B11; 19 2S12; 18 PM-120 120MM; 54 2S9 120MM ANTI-TANK: AT-3; AT-4; 36 MT-12/T-12 100MM GUNS	







COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Australia</b>	35 M-198 155MM 54 M777A2 155MM 101 L118 105MM MORTARS: 188 81MM ANTI-TANK: JAVELIN; CARL GUSTAV 84MM RCLs	LAND 17 Artillery Replacement Project is for replacement of 105MM and 155MM Guns by 2 Batteries of SP Howitzers, 4 Batteries of Lightweight Towed Howitzers and a networked Battle Management System.
<b>Bangladesh</b>	56 M-56A1 105MM 114 M-56 /L10A1 105MM 20 Type 83 122MM 62 Type 59-1 130MM 57 Type 54/54-1 (M-30) 122MM 54 Type 96 (D-30)122MM 4+ NORA B-52 155MM SP MORTARS: 11 M29A1 81MM; 366 Type-53/87/M-31 82MM; 95 MO-120-AM-50 M67/UBM 52 120MM ANTI-TANK: AT-13; 238 M40A1 106MM RCLs	Further 300 Type 87 Mortars being delivered
<b>Brunei</b>	MORTARS: 24 81MM	





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Cambodia</b>	400+ ZIS-3 (M-1942) 76MM; D-30 122MM/ Type-59-I 130MM MORTARS: M-37 82MM; M-43 120MM; M-160 160MM ANTI-TANK: B-10 82MM; B-11 107MM RCLs	
<b>China</b>	700 Type-89 122MM SP 300 Type-07 122MM SP 150 Type-07B 122MM SP 450 Type-09 122MM SP 390 Type-83A/B 152MM SP 290 Type-05 155MM SP 40+ 122MM SP (Marines) 3,800 Type-54-1 (M-1938)/Type- 83/Type-60 (D-74) /Type-96 (D-30) 122MM 234 Type-59 (M-46)/Type-59-I 130MM 2,106 Type-54 (D-1)/Type-66 (D-20) 152MM MRLs; Some 107MM SP; 1,643 120MM SP; 175 Type-03 300MM SP; 54 Type-63 107MM Type-63 107MM (Marines) MORTARS: 2,886 Type-53 (M-37)/Type- 67/Type-82/Type-87 82MM; Type-89 100MM; 120MM ANTI-TANK: 450 HJ-8 SP; 24 HJ-10 SP; 450 ZSL-02B SP; HJ-73A/B/C; HJ-8A/C/E; 3,966 Type-56 75MM; Type-65 (B- 10)/Type-78 82MM; Type-75 105MM; Type-98 120MM RCLs; 250 Type-02 100MM SP; 230 Type-89 120MM SP; 1,308 Type-73/Type-86 GUNS	





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Fiji</b>	4 25 Pounder Guns/Howitzers MORTARS: 12 81MM	
<b>India</b>	20 M-46 130MM SP 2S19 152MM (Reported) 1,350 105MM 520 D-30 120MM 600 approx. M-46 130MM (500 in store) 200 (EST.) Modified M-46 155MM 300 (EST.) FH-77B 155MM MRLs; 150 BM-21 122MM (Being withdrawn) 28 SMERCH 300MM 14 PINAKA 214MM (Non-Operational) MORTARS: E1 120MM SP; 5,000+ 81MM; 1,500 (EST.) 120MM; 20 M-58 TAMPELLA 160MM 252 81MM (Assam Rifles) 942+ 81MM (Border Security Force) ANTI-TANK: AT-4; AT-5; AT-3 (Being withdrawn); AT-4; AT-5; MILAN 2; CARL GUSTAV 84MM; 3,000+ M40A1 106MM RCLs	Field Artillery Rationalisation Plan calls for all Towed and SP Guns to be standardised on a 155MM Calibre. 400 Towed and 180 Wheeled 155MM SP Systems Required.  40 130MM SP on order





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Indonesia</b>	5 FH-88 155MM 18 KH-179 155MM 110+ KH-178/M101/M-56 105MM 22 105MM (Marines) 28 122MM (Marines) 4 CAESAR truck-mounted 155MM SP MRLs; 13 ASTROS MK.6 127MM 9 RM-70 122MM (Marines) MORTARS; 800 81MM; 155 120MM 81MM (Marines) ANTI-TANK: SS-11; MILAN; AT-3; M67 90MM; M40A1 106MM RCLs; LRAC 89MM RL	Order reported for WR40 LANGUSTA Artillery Rocket Systems.
<b>Japan</b>	93 Type-99 155MM SP 67 M110A2 203MM SP 422 FH-70 155MM MRL: 99 M270 MRLS MORTARS: 24 Type-96 120MM SP; 646 L16 81MM; 426 120MM ANTI-TANK: 34 Type-96 MPMS SP; Type- 79; Type-87; Type-01; CARL GUSTAV 84MM RCL; 89MM RL	32 Artillery Pieces in Mid-Term Defence Programme. Approx. 300 Artillery Systems will be in-service in the near future.





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Korea (North)</b>	<p>8,500 SP/TOWED:</p> <p>M-1977/M-1981/M-1985/M-1991 122MM SP</p> <p>M-1975/M-1981/M-1991 130MM SP</p> <p>M-1974/M-1977 152MM SP</p> <p>M-1978/M-1989 170MM SP</p> <p>D-30/D-74/M-1931/37 122MM</p> <p>M-46 130MM</p> <p>M-1937/M-1938/M-1943 152MM</p> <p>122MM, 152MM and 130MM (Coastal Defence)</p> <p>MRLs; 5,100 107MM, 122MM, 200MM, 240MM</p> <p>MORTARS: 7,500 82 MM; 120 MM; 160MM</p> <p>ANTI-TANK: AT-3 SP; AT-1; AT-4; AT-5; 1,700 B-10 82MM RCLs</p>	
<b>Korea (South)</b>	<p>1,700 M101/KH-178 105MM</p> <p>1,800+ KH-179/M114/M115 155MM</p> <p>1,040 M109A2 155MM SP</p> <p>100+ K9 155MM SP</p> <p>300 (EST.) K9 THUNDER 155MM SP</p> <p>13 M110 203MM SP</p> <p>Some M107 175MM SP</p> <p>105MM; 155MM (Marines)</p> <p>MRLs; 29 MLRS (227MM + 110 ATACMS Block 1A Missiles)</p> <p>156 KOORYONG 130MM</p> <p>MORTARS: 6,000; KM-29 81MM; M30 107MM Mortars</p> <p>ANTI-TANK: AT-7; TOW-2A; 57MM; 75MM; 90MM RCLs; 50 M36 90MM SP</p> <p>GUNS; 8 M18 HELLCAT 76MM GUN</p> <p>SPIKE NLOS SP (Marines)</p>	<p>Requirement for 500+ THUNDER 155MM SP Gun/Howitzers to replace M-107s, M-110s and at least part of M-109 fleet of Guns.</p>



COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Laos</b>	20 M101 105MM 20 D-30/M-30 M-1938 122MM 10 M-46 130MM 12 M114 155MM MORTARS: 81MM; 82MM; M-1938/M2A-1 107MM; M-43 120MM ANTI-TANK: M18/A1 57MM; M20 75MM; M40 106MM; B11 107MM RCLs	
<b>Malaysia</b>	22 G-5 Mk.3 155MM 12 FH-70 155MM 100 105MM Pack MRLs; 36 ASTROS II MORTARS: 14 81MM SP; 10 ACV300-S 81MM SP; 8 ACV—S 120MM SP; 232 81MM ANTI-TANK: 8 ACV300; K263 SP; AT-7; AT-13; HJ-8; C90-CRRB; SS-11; 236 CARL GUSTAV 84MM; 24 M40 106MM RCLs	
<b>Mongolia</b>	300 (EST.) D-30/M-30 122MM; M-46 130MM; ML-20 152MM MRLs: 130 BM-21 122MM MORTARS; 140 82MM/120MM/160MM ANTI-TANK: 200 D-44/D-48 85MM/M-1944/MT-12 100MM GUNS	





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Myanmar</b>	16 SOLTAM 155MM/140MM 96 M-101 105MM 36 M-56 105MM 100 D-30 122MM 16 M-46 130MM 30 NORA B-52 155MM SP 6 SH1 155MM SP MRLs; BM-21 122MM (Reported) 30 Type 63 107MM 30+ 240MM (Reported) MORTARS: Type-53 82MM; 80 SOLTAM 120MM ANTI-TANK: M40A1 106MM; 1,000 (EST.) CARL GUSTAV 84MM; 24 PTL-02 mod. 105MM SP; 6-PDR 57MM; 17-PDR. 76.2MM GUNS	
<b>Nepal</b>	14 PACK HOWITZERS (6 NON-OPERATIONAL) 8 L118 105MM Towed MORTARS: 81MM; 70 M-43 120MM (EST. 12 OP.)	
<b>New Zealand</b>	24 L-118 105MM MORTARS: 50 81MM ANTI-TANK: 42 CARL GUSTAV 84MM RCLs; 24 JAVELIN	



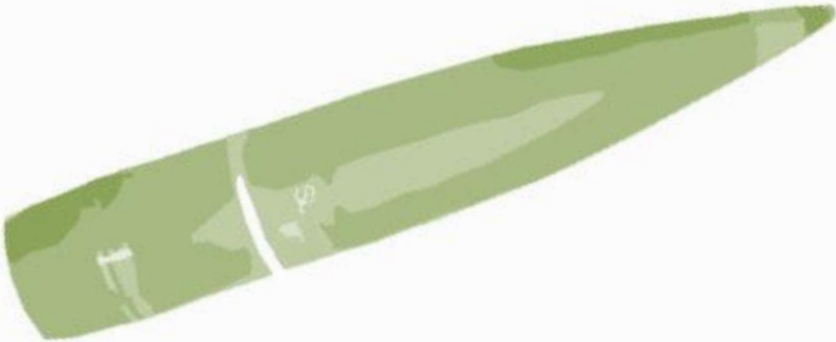


COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Pakistan</b>	30 PANTER 155MM 148 M-198 155MM 144 M-114 155MM 410 Type 59-I 130MM 490 Type-54 M-1938 122MM 80 D-30 122MM 216 M-101 105MM 113 M-56 105MM 28 M115 203MM 200 M-109A2 155MM SP 115 (EST.) M-109A5 155MM SP 60 M-110/M110A2 203MM SP MRLs; 52 AZAR; some KRL-122 122MM; 36 A100 300MM MORTARS: 2,350 81MM; 120MM ANTI-TANK: M901 TOW SP: TOW; AT-11; Type 52 75MM; M40A1 106MM RCLs; M20 89MM RL; 200 Type-56 85MM GUNS	
<b>Papua New Guinea</b>	MORTARS: 81MM; 3 120MM	
<b>Philippines</b>	10 M114/M-68 155MM 204 M101/M102/M-26/M-56 105MM 23 M-101 105MM (Marines) 8 M-26 105MM (Marines) MORTARS: M-29 81MM; 40 M-30 107MM 107MM (Marines) ANTI-TANK; M20 75MM; M67 90MM; M40A1 106MM RCLs (Also some Marines)	An international tender has been circulated for the purchase of 10-12 155MM SP howitzers.





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
Singapore	52 FH-88 155MM 18 FH2000 155MM 37 LG1 105MM (in store) 18 PEGASUS 155MM 54 SPH-1 PRIMUS 155MM SP MRLs; 18 HIMARS MORTARS: 90+ 81MM/120MM SP; 500 81MM; 36 120MM; 12 160MM ANTI-TANK; 30 MILAN; 30 SPIKE MR; 200 (EST.) CARL GUSTAV84MM; 90 M40A1 106MM RCLs	
Sri Lanka	20 122MM 30 TYPE-59-I 130MM 46 TYPE-66 (D-20) 152MM MRLs; 22 RM-70 DANA/ 6 KRL-122 122MM MORTARS: 520 81MM; 209 82MM; 55 M-43 120MM ANTI-TANK: 10 M-65 105MM; 30 M40 106MM RCLs; 8 TYPE-56 (D-44) 85MM GUNS	





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
Taiwan	650 T-64 (M-101) 105MM 90 M59 155MM 250 T-65 155MM M44 155MM XT-69 155MM 70 M115 203MM 100 M108 105MM SP 225 M-109A2/A5 155MM SP 48 M44T 155MM SP 45 T-69 155MM SP 70 M-110A2 203MM SP 4 240MM SP 50 (EST.) US MK.32 127MM (Coastal-reported) 105MM and 155MM (Marines) MRLs; 120 KUNG FENG VI 117MM 60 KUNG FENG III/IV 126MM 150 RT 2000 THUNDER 126MM (some SP) MORTARS: 232+ 81MM; 90 M106A2 107MM; K5/XY-86 120MM (Some Marines) ANTI-TANK: TOW SP; M67 90MM; 500 M40A1 106MM; Type-51 106MM RCLs 106MM RCL (Marines)	M-108 and M-109A2 155MM SP Howitzers being upgraded to M-109A5 configuration.



COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
Vietnam	2S1 122MM SP 30 2S3 152MM SP M107 175MM SP 2,300 TOWED: M-1944 100MM M101/M102 105MM D-30/Type-54 (M-1938)/Type-60 (D-74) 122MM M-46 130MM D-20 152MM M114 155MM MRLs; 360 Type-63 107MM, 350 BM-21 122MM, BM-14 140MM MORTARS: 82MM; 120MM; 160MM ANTI-TANK: AT-3; Type-56 75MM; Type-65 82MM; Type-51 87MM RCLs; SU-100 100MM SP; SU-122 122MM SP GUNS: T-12 100MM GUNS	





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
Canada	27 105LG Mk. II 105MM Towed 98 C3 105MM, 19C1 105MM Towed 37 M777 Lightweight 155MM Howitzers 1,075 CARL GUSTAV M2/M3 RCLs 100 81MM Towed Mortars; 24 LAV Bison 81MM SP	
USA	821 M-119A1 105MM Towed 421 M777A1/A2 155MM Lightweight Towed 969 M-109A6 PALADIN 155MM SP (500 Est. in store) 501 M-777A2 155MM Towed (Marine Corps) 331 M-101A1 105MM Towed (Marine Corps) MRLs; 830 MLRS 227MM 42 MLRS (Marine Corps) 375 HIMARS ATACMS (deployed with MLRS and HIMARS launchers) 2,000 M224 60MM; M224A1 60MM; 990 M252 81MM; 1,076 M120/M120A1 120MM Mortars 441 M1129 Stryker MC Mortars 535 81MM; 50 LAV-M; 49 EFSS 120MM Mortars (Marines) 270,000 M-136 (AT-4) 84MM CARL GUSTAV ATK Weapons	580 M-109A6 to be re-built to M-109PIM (PALADIN Integrated Management) configuration. LRIP under way. Total requirement 511 M-777s for Marine Corps  Requirement for 45 HIMARS for Marine Corps  M224A1 lightweight 60mm mortar will progressively replace entire M224 inventory.





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Argentina</b>	<p>80 OTO MELARA M-56 105MM PACK+18 Marines</p> <p>25 CITEFA M-77/M-81 155MM</p> <p>84 SOFMA L-33 155MM</p> <p>20 AMX Mk.F3 155MM SP</p> <p>17 VCA 155MM SP</p> <p>6 M114 155MM Howitzers (Marines)</p> <p>MRLs; 4 PAMPERO 105MM; 4 CP-30 127MM</p> <p>MORTARS: 492 81MM; 353 BRANDT 120 MM; 25 M106A2 SP; 13 TAM VCTM; 70 81MM (Marines); 12 120MM (Marines)</p> <p>ANTI-TANK: 3 HMMWV with TOW-2A; 150 M-1968 RCL; 78 MM NATA RL; 50 COBRA/RB-53 BANTAM (Marines); 30 M-1974 FMK-1 105MM RCL (Marines); 60 M-20 89MM RL (Marines)</p>	<p>New towed light 105MM gun is under development to replace the Oto Melara Pack Howitzers. This is called the CALIV programme</p> <p>20 LVC CP-30 Artillery Rocket Systems being delivered.</p>
<b>Belize</b>	<p>MORTARS: 6 81MM</p> <p>ANTI-TANK: 8 CARL GUSTAV 84MM RCLs</p>	
<b>Bolivia</b>	<p>25 M-101A1 105MM</p> <p>36 M-30 122MM</p> <p>MORTARS: 250 M29 81MM; TYPE W87 81MM; M30 107MM; M120 120MM</p> <p>ANTI-TANK: SP2 KOYAK with HJ-8; HJ-8; M67 90MM, M40A1 106MM RCLs; 200+ M20 89MM RL</p>	





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Brazil</b>	233 M-101/M102 105MM 40 L-118 105MM 63 Model 56 105MM 95 M-114A1 155MM 72 M-108 155MM SP 37 M109A3 155MM SP 18 L118 105MM (Marines) 15 M101 105MM (Marines) 8 M114 155MM (Marines) MRLs; 20 ASTROS II Mk.3; 6 ASTROS II Mk6 MORTARS: 1,168 81MM; 77 120MM 18 M29 81MM (Marines) ANTI-TANK: ERYX; MILAN; MSS-1.2AC; 194 M40A1 106MM; 149 CARL GUSTAV 84MM; RB-56 BILL (Marines); MSS 1.2 AC (Marines); 89MM M20 RL (Marines)	30 ASTROS II Mk6 launch vehicles (3 batteries) for the new MTC300 surface-to-surface 300km- range cruise missiles on order, with initial deliveries underway (ASTROS 2020 programme)
<b>Chile</b>	40 SOLTAM M-68 155MM 89 M-101 105MM 104 M-56 105MM 24 M109A3 155MM SP 12 M109A5+ 155MM SP 7 KH-178 105MM; 17 M-71 155MM (Marines) MRLs: 12 LAR-160 160MM MORTARS: 744 81MM; 72 120MM SP; 282 120MM, 16 81MM (Marines) ANTI-TANK: SPIKE; M40A1 106MM; CARL GUSTAV 84MM RCLs	





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Colombia</b>	13 155/52 APU SBT-1 155MM 20 LG1 Mk.III 105MM 88 M101 105MM MORTARS: 1,374 81MM; 108 120MM ANTI-TANK: SP77 NIMROD; TOW; SPIKE-ER; APILAS; 7369 M40A1 106MM RCLs; 121 C-90C 90MM RLs	
<b>Cuba</b>	500 Towed Guns and Howitzers (122MM, 130MM, 152MM) 40+ SU-100 100MM 2S1 122MM SP 130MM SP 2S3 155MM SP MRLs (175); BM-21 122MM SP BM-14 140MM SP MORTARS: M-41/43 82MM; M-38/43 120MM ANTI-TANK: AT-1; AT-3; 600 M-1943 57MM; D-44 M-38 RCLs	
<b>Dominican Republic</b>	4 M-101 105MM 12 REINOSA 105/26 105MM MORTARS: 60 M1 81MM; 4 M-30 107MM; 24 EXPAL MODEL L 120MM ANTI-TANK: 20 M40A1 106MM RCLs; 20 M3 37MM GUNS	





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Ecuador</b>	50 M2A1 105MM 30 M101 105MM 24 M2A2 105MM 24 MODEL 56 105MM 10 M-198 155MM 12 M114 105MM 5 Mk.F3 155MM SP MRLs; 6 BM-70; 18 BM-21 122MM MORTARS: 400 M29 81MM; M30 107MM; 12 M-66 SOLTAM 160MM; 32+ 60MM/81MM/120MM (Marines) ANTI-TANK: 380 M67 90MM; 24 M40A1 106MM RCLs	
<b>El Salvador</b>	18 M-56 105MM 36 M-102 105MM MORTARS: 151 M29 81MM; 12+120MM; 12 UBM-52 ANTI-TANK: 379 M67 90MM; 20 M40A1 (inc 16 SP) 106MM RCLs; 31 M-55, 4 TCM-20 20MM GUNS	
<b>Guatemala</b>	12 M-101 105MM 8 M-102 105MM 56 M-56 105MM MORTARS: 55 M1 81M; 12 M30 107MM (in store); 18 ECIA 120MM Mortars ANTI-TANK: 64 M-1974 FMK-1 105MM; 56 M40A1 105MM; M20 75MM RCLs	







COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Guyana</b>	6 M-46 130MM MORTARS: 12 L16A1 81MM; 18 M-43 82MM; 18 M-43 120MM	
<b>Honduras</b>	24 M-102 105MM 4 M-198 155MM MORTARS: 81MM; 60 FMK-2 120MM; 30 M-66 160MM ANTI-TANK: 50 M40A1 106MM; 120 CARL GUSTAV 84MM RCLs; 24 M55A2, 24 TCM-20 20MM GUNS	
<b>Jamaica</b>	MORTARS: 12 L16A1 81 MM	
<b>Mexico</b>	40 M101 105MM 40 M-56 105MM 12 M2A1 105MM 14 M3 105MM 13 NORINCO M-90 105MM 16 M-56 105MM (Marines) MRLs; 6 FIROS-25 (Marines) MORTARS: 1,100 81MM; 167 120MM; 100 60MM/81MM Mortars (Marines) ANTI-TANK; MILAN; M40A1 106MM SP; M40A1 106MM; 30 M3 37MM; M40A1106MM RCLs (Marines)	





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
Nicaragua	12 D-30 122MM 30 D20 152MM (in store) MRLs; 33 TYPE 63 107MM; 18 BM-21 122MM; 100 GRAD 1P MORTARS: 579 82MM; 24 M-43 120MM; 4 M-160 160MM (in store) ANTI-TANK: 12 BRDM-2 with AT-3 SP; AT-3; B-10 82MM RCL; 174 ZIS-2 57MM (+90 in store); 83 ZIS-3 76MM; 24 M-1944 100MM	
Paraguay	14 M-101 105MM MORTARS: 80 81MM ANTI-TANK: M20 75MM RCLs	
Peru	44 M-101 105MM 24 M2A1 105MM 84 M-56 105MM 36 M-46 130MM 36 D-30 122MM 12 M-109A2 155MM SP 36 M114 155MM 30 MODEL 50 155MM 6 D-30 122MM (Marines) 106MM RCLs (Marines) MRLs; 22 BM-21 122MM MORTARS: 24 M106A1 107MM SP; 350 81MM/107MM; 300+ BRANDT/EXPAL MODEL L 120MM; 18+ 81MM/120MM (Marines) ANTI-TANK: 22 M1165A2 HMMWV with AT-14 SP; AT-3; AT-14; SPIKE-ER; M40A1 106MM RCL; 106MM RCLs (Marines); CARL GUSTAV 84MM RCL (Marines)	



COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Suriname</b>	MORTARS: 6 81MM ANTI-TANK: M40A1 106MM RCLs	
<b>Trinidad &amp; Tobago</b>	MORTARS: 6 L16A1 81MM ANTI-TANK: 24 CARL GUSTAV 84MM RCLs	
<b>Uruguay</b>	28 M-101A1 105MM 8 M102 105MM 8 M-114A1 155MM 6 2S1 122MM SP MORTARS: 91 81MM; 44 SL 120MM ANTI-TANK: 69 M40A1 106MM RCL ; MILAN	
<b>Venezuela</b>	48 2S19 MSTA-S 152MM SP 12 FMk.3 155MM SP 12 M-114 155MM 40 M-56 105MM 40 M-101A1 105MM 18 M-56 105MM (Marines) MRLs; 24 BM-21 122MM; 20 LAR SP 160MM; 12 9A52 300MM MORTARS: 108 120MM; 186 81MM; 13 2S3 120MM 12 BRANDY 120MM (Marines) ANTI-TANK: IMI MAPATS; 175 M40A1 106MM RCL; 75 M18 76MM; CARL GUSTAV (Marines); M40A1 106MM (Marines)	





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Algeria</b>	140 2S1 122MM SP 30 2S3 152MM SP 54 (Est.) NORINCO PLZ45 155MM SP 160 D-30 122MM 25 D-74 122MM 100 M-1931/37 122MM 60 M-30 122MM 10 M-46 130MM 20 ML-20 152MM 18 Type-88 155MM MRLs; 48 BM-21 122MM 48 BM-14/16 140MM 30 BM-24 240MM 18 9A52 Smerch Mortars: 150 M-37 82MM; 120 M-1943 120MM; 60 M-1943 160MM	
<b>Bahrain</b>	62 M-110A2 203MM SP 20 M-109A5 155MM SP 28 M-198 155MM 8 L118 105MM MLRs; 9 M270 MLRS (30 ATACMS pods) 227MM MORTARS: 12 L16 81MM; 12 M113A2 120MM ANTI-TANK: HMMWV with TOW; JAVELIN; TOW	





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Afghanistan</b>	85 D-30 122MM 24 M114A1 155MM MORTARS: 105 M-69 82MM	
<b>Egypt</b>	190 D-30M 122MM 36 M-1931/37 122MM 300 M-30 122MM 420 M-46 130MM 16 GH-52 155MM 164 M-109A2 155MM SP 204 M109A5 155MM SP 124 122MM SP 100MM; 130MM; 152MM (Coastal Defence) MRLs; 96 BM-11 122MM 60 BM-21 122MM 50 SAKR-10 122MM 50 SAKR-18 122MM 100 SAKR-36 122MM 36 KOORYONG 130MM 32 BM-14 140MM 26 MLRS 48 BM-24 (in store) MORTARS: 65 M106A1 107MM SP; 35 M106A2 107MM SP; 36 M1064A3 120MM SP; 50 M125A2 81MM; 500 120MM; 30 M160 160MM ANTI-TANK: 52 M-901 SP; 210 YPR 765 PRAT SP; AT-3; MILAN; TOW-2	





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
Iran	<p>130 M101A1 105MM  20 M-56 105MM  540 D-30 122MM  100 Type 54 122MM  985 M-46 130MM  30 D-20 152MM  70 M-114 155MM  15 Type-88 WAC-21 155MM  150 M-109 155MM SP  210 M-115 203MM  30 M-110 203MM SP  60 2S1 122MM SP  RAAD (THUNDER) 122MM SP  RAAD-2 (THUNDER 2) 155MM SP  30 M-1978 170MM SP  22 M107 175MM SP  120 GHN-45 155MM  MRLs; 100 BM-21 12MM  50 ARASH/HADID/NOOR 122MM  10 (EST.) FADJR-3 240MM  FADJR-5 330MM  700 Type 63 107MM  600 HASEB FADJR-1 107MM  7 BM-11 122MM  9 M-1985 240MM  MORTARS: 60MM; 81MM; 82MM;  107MM; 120MM  ANTI-TANK: AT-3; AT-4; AT-5; SAEQHE 1;  SAEQHE 2; TOOPHAN; TOOPHAN 2;  200+ 75MM; 82MM; 106 MM; 107MM  RCLs  SSMs: 30 (EST.) CSS-8; SHAHIN-1;  SHAHIN-2' NAZEAT; OGHAB</p>	



COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Iraq</b>	18+ TYPE 83 152MM SP 6 M-109A1/24 M-109A5A5 155MM SP 60 (EST.) M198 155MM M-46/TYPE 59 130MM MLRs; BM-21 122MM; 3+ TOS-1A 220MM MORTARS: 450 M120 120MM; 500 M252 81MM; M-240 240MM ANTI-TANK: 9K135 KORNET	6 AN/TPQ-36(V)10 FIREFINDER and 18 AN/TPQ-48 Artillery/Mortar locating Radars have been delivered
<b>Israel</b>	5 D-30 122MM (in store) 100 M-46 130MM (in store) 171 155MM (in store) 50 M-68/M-71 155MM (in store) 81 M-839P/M-945P 155MM (in store) 36 M-107 175MM SP 120 L33 M-50 155MM SP 250 M-109A5 155MM SP 36 M-110 203MM SP (in store) MRLs; 122MM, 160MM, 227MM; 240MM, 290MM (in store) 30 MLRS MORTARS: 250 81MM; (+ 1,100 81MM; 650 120MM; 18 SOLTAN M-66 160MM in store)	





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Jordan</b>	10 M1/M-59 155MM 18 M-114 155MM 4 M115 203MM (in store) 20 M-44 155MM SP 30 M52 105MM SP 370 M-109A1/A2 155MM SP 148 M-110A2 203MM SP 54 M102 105MM 18 MOBAT 105MM MRLs; 12 HIMARS 227MM 2+ WM-80 273MM MORTARS: 50 81MM SP; 359 81MM; 50 M30 107MM; 300 BRANDT 120MM ANTI-TANK: 975 MSL; 70 M901 SP; 45 YPR-765 with MILAN. JAVALIN; M47 DRAGON; TOW/TOW-2A; AT-14; 2,300 APILAS 112MM RL	
<b>Kuwait</b>	51 NORINCO PLZ45 155MM SP 37 M-109A3 155MM SP 18 F3 155MM SP MRLs; 27 SMERCH 300MM MORTARS: 60 81MM; 6 M-30 107MM; 12 120MM ANTI-TANK: 66 HMMWV TOW; 8 M901; TOW-2; M47 DRAGON; 200 CARL GUSTAV 84MM RCLs	







COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Lebanon</b>	106 M-198 155MM 18 M-114A1 155MM 14 Mod.50 155MM 15 M-46 130MM 35 122MM 13 M-101A1/M-102 105MM MRLs; 11 BM-21 MORTARS: 134 81MM; 112 82MM; 29 BRANDT 120MM ANTI-TANK: 26 MILAN; 12 TOW; 113 M40A1 106MM RCLs; 11 M-50; 8 M-69 90MM RLs	Up to 30 Caesar 155MM SP to be received
<b>Morocco</b>	30 L-118 105MM 20 M-101 105MM 18 M-46 130MM 20 M-114 155MM 30 FH-70 155MM 5 MK.61 105MM SP 84 M-109A1/A1B 155MM SP 43 M109A2 155MM SP 90 F3 155MM SP 60 M-110 203MM SP MRLs: 35 BM-21 MORTARS: 32-36 M106A2 106MM SP; 20 VAB APC SP; 1,100 EXPAL MODEL LN 81MM; 550 BRANDT 120MM ANTI-TANK: 80 M901; AT-3; M47 DRAGON; MILAN; TOW; 350 M40A1 RCLs; 200 M20 89MM RL; 8 SU-100 100MM SP; 28 M-56 90MM GUNS	AR-1A Artillery Rockets may have been received from China, but no evidence.





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
Oman	24 G-6 155MM SP 30 D-30 122MM 12 FH-70 155MM 12 M-46 130MM 12 TYPE -59-I 130MM 42 105MM MORTARS: 69 81MM; 20 M-30 107MM; 12 BRANDT 120MM ANTI-TANK: 8 VBL (TOW); 30 JAVELIN; 32 MILAN; 18 TOW/TOW-2A	
Qatar	12 G-5 155MM (To be withdrawn) 28 Mk F3 155MM SP (To be withdrawn) MLRS; 4 ASTROS II 127MM; 2+ 122MM MORTARS: 26 L16 81MM; 15 BRANDT 120MM; 4 VAB VPM 81 SP ANTI-TANK; 24 VAB VCAC HOT; MILAN; 40 CARL GUSTAV 84MM RCLs	24 PzH-2000 155MM SP Howitzers are on order to replace existing assets.





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
Saudi Arabia	<p>100 M101/M102 105MM (in store)  50 M-114 155MM  60 M-198 155MM (in store)  72 FH-70 155MM Towed  280 M-109 155MM  50 GCT 155MM SP  60 AU-F-1 155MM SP  110 M109A1B/A2 155MM SP  54 PLZ-45 155MM SP  8 M115 203MM (in store)  132 CAESAR 155MM SP; 50 M102 105MM; 59 M198 155MM (National Guard)  MRLs; 60 ASTROS II MK.3  MORTARS: 70 81MM SP; 150 M30 107MM SP; 70 81MM/107MM; 147 120MM;  Some 81MM; 119 LAV-M 120MM (National Guard)  ANTI-TANK: 90+ AMX-10P (HOT) SP; 200 VCC-1 ITOW SP; M47 DRAGON; TOW-2A; CARL GUSTAV 84MM; M40A1 106MM; M67 90MM RCLs; APILAS 112MM RL;  183 LAV-AT SP; TOW-2A; M47 DRAGON; M40A1 106MM RCL (National Guard)</p>	<p>Order for 36 M-777A2 155MM and 54 M-119A2 105MM Howitzers, 6 AN/TPQ-36(V) FIREFINDER Artillery Locating Radars being implemented.</p>





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Syria</b>	400 2S1 122MM SP D-30 122MM SP M-46 130MM SP 50 2S3 152MM SP D-30 122MM M-30 (M1938) 122MM M-46 130MM D-20/ML-20 M1937 152MM S23 180MM MRLs; 107MM; 122MM, 140MM; 220MM; 300MM (Reported); 330MM (Reported) MORTARS: 82MM; 120MM; 160MM; 240MM ANTI-TANK: BRDM-2 with AT-3 SP; AT-4; AT-5; AT-7; AT-10; AT-14; MILAN; RPG- 29 105MM RL	
<b>Tunisia</b>	48 M-101A1/A2 105MM 12 M-114 155MM 55 M-198 155MM Mortars: 95 81MM; 48 107MM (some SP); 18 Brandt 120MM ANTI-TANK: 590 MSL; 35 M901 ITV TOW SP; MILAN; TOW; 300 LRAC/300 M20 89MM RL	





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>UAE</b>	<p>73 ROF Lt. 105MM  20 Type-59-I 130MM  18 AMX Mk F3 155MM SP  78 G-6 155MM SP  85 M-109A3 155MM SP  MRLs; Type 90 122MM (Reported)  48 122MM FIROS-25  6 SMERCH 300MM  20 HIMARS 227MM  18 LAU-97 70MM</p> <p>MORTARS: 213 81MM; 79 120MM  ANTI-TANK: 20 HOT SP; MILAN; TOW;  VIGILANT (In store); 250 CARL GUSTAV  84MM; 12 M40 106MM RCLs  HMMWV with 9M133 KORNET SP  (Presidential Guard)</p>	<p>3 COBRA Artillery Locating Radars  on order</p> <p>72 120MM SP mortars being  received</p>
<b>Yemen</b>	<p>25 2S1 122MM SP  25 M101A1 105MM  130 D-30 122MM  30 M-1931/37 122MM  40 M-30/M-1938 122MM  60 M-46 130MM  10 D-20 152MM  15 M114 155MM  36 SM-4-1 130MM  MRLs; 280 BM-21 122MM  14 BM-14 140MM</p> <p>MORTARS: 250 81MM; 144 M-43 82MM; 12  107MM; 136 120MM; 100 (EST.) 160MM  ANTI-TANK; AT-3; M47 DRAGON; TOW; M-  20 75MM; B-10 82MM; B-11 107MM RCLs;  30 SU-100 100MM SP; D-44 85MM; 20 M-  1944 100MM GUNS</p>	





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Angola</b>	2S1 122MM SP 4 2S3 152MM SP 12 2S7 203MM SP 500 D-30 122MM 48 M-46 130MM 4 D-20 152MM MRLs: 50 BM-21 122MM; 40 RM-70 122MM; BM-24 240MM Mortars: 250 82MM; 500 120MM ANTI-TANK: AT-3 SAGGER; 500 RCL; SU-100 SP 100MM	
<b>Benin</b>	4 M-101 105MM 12 L118 105MM 81MM Mortars ANTI-TANK: 89MM LRAC RL	
<b>Botswana</b>	12 L-118 105MM 6 MODEL 56 105MM 12 SOLTAM 155MM MRLs: 20 APRA-40 122MM MORTARS: 22 81MM; 6 M-43 120MM CARL GUSTAV 84MM RCLs ANTI-TANK: TOW	
<b>Burkina Faso</b>	8 M-101 105MM 6 122MM MRLs; Type 63 107MM; 5 APRA-40 122MM MORTARS: 81MM; 15 82MM; 12 120MM TYPE 52 75MM; CARL GUSTAV 84MM RCLs LRAC 89MM RL	



COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Burundi</b>	18 D-30 122MM MRLs: 12 BM-21 122MM MORTARS: 15 M-43 82MM; 75 120MM ANTI-TANK: MILAN (Reported); TYPE 52 75MM RCL; RL-83 83MM RL	
<b>Cameroon</b>	18 ATMOS 2000 155MM SP 20 M-101 105MM 12 MODEL 1982 130MM (Reported) 12 TYPE 59 130MM 8 I1 155MM MRLs; 20 BM-21 122MM MORTARS: 81MM (Some SP); 16 BRANDT 120MM ANTI-TANK: 24 TOW (On Jeeps); 25 MILAN 40 M40A2 106MM RCLs; 13 TYPE 52 75MM RCLs; LRAC 89MM RL	
<b>Cape Verde</b>	MORTARS: 12 82MM; 6 M-1943 120MM ANTI-TANK: 89MM RL	
<b>Central African Republic</b>	MORTARS: 81MM; 12 M-1943 120MM ANTI-TANK: 14 M40 106MM RCL; LRAC 89MM RL	
<b>Chad</b>	10 2S1 122M SP 5 M2 105MM MRLs; 6 BM-21 122MM; 4 APRA-40 122MM MORTARS: 81MM; AM-50 120MM ANTI-TANK: ERYX, MILAN; M40A1 106MM RCL; APILAS 112 MM; LRAC 89MM; 30 PTL-02 105MM SP	





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Congo</b>	3 2S1 122MM SP 10 M-1944 100MM 10 D-30 122MM 5 M-46 130MM D-20 155MM MRLs; 10 BM-21 122MM; BM-14 122MM; BM-16 140MM MORTARS: 82MM; 28 M-43 120MM ANTI-TANK: M18 57MM RCLs; 5 ZIS-2 57MM GUNS	
<b>DRC</b>	6 2S1 122MM SP 10 2S3 152MM SP 10 M-1944 100MM 77 M-30/M-1938/D-30/TYPE 60 122MM 42 TYPE -59 (M-46)/TYPE 59 I 130MM MRLs; 24 BM-21 122MM; 12 TYPE-63 107MM; 6 M-51 128MM; 3 TYPE 82 130MM; 12 132MM MORTARS: 100 81MM; 400 82MM; M-30 107MM; 28 120MM; 10 BRANDT ANTI-TANK: M18 57MM RCLs; 73MM; 75MM M20; M40A1 106MM; 10 TYPE 56 85MM	
<b>Cote D'Ivoire</b>	4 M1950 105MM Howitzers 122MM (Reported) MRLs: 6 BM-21 122MM MORTARS: 81MM; 10 M-37 82MM; 16 AM-50 120MM ANTI-TANK: AT-5 SPANDREL (Reported); AT-14 SPRIGGAN (Reported); 12 M40A1 106MM RCL; LRAC 89MM RL	







COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Djibouti</b>	10 M109L 155MM SP 6 D-30 122MM MRLs: 6 TOYOTA LAND CRUISER 70 (6-TUBE); 2 IVECO 110-16 (30 TUBE) MORTARS: 25 81MM; 20 BRANDT 120MM ANTI-TANK: 16 M40A1 106MM RCLs; LRAC 89MM RL	
<b>Eritrea</b>	32 2S1 122MM SP 13 2S5 152MM SP D-30 122MM 19 M-46 130MM MRLs: 35 BM-21 122MM; 9 BM-27/9P140 URAGAN MORTARS: 100+ 120MM/160MM ANTI-TANK: 9K11 MALYUTKA; 9K113 KONKURS; D-44 85MM GUNS	
<b>Ethiopia</b>	M-46 130MM 2S1 122MM SP 10 2S19 152MM SP 464 D-30/M-1938 (M-30) AH2 155MM MRLs; 50 BM-21 122MM MORTARS: M1/M29 81MM; M-1937 82MM; M-1944 120MM ANTI-TANK: AT-3; AT-4; AT-14; B-10 82MM; B-11 107MM; RCLs; D-44 85MM GUNS	





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Gabon</b>	4 M-101 105MM MRLs; 8 TERUEL 140MM MORTARS: 35 81MM; 4 BRANDT 120MM ANTI-TANK: 4 MILAN; M40A1 106MM RCL; LRAC 89MM RL	
<b>Ghana</b>	6 D-30 122MM TYPE 63 107MM 3 Type 81 122MM MORTARS: 50 81MM; 28 TAMPELLA 120MM ANTI-TANK: 50 CARL GUSTAV 84MM RCLs	
<b>Guinea</b>	12 M-1931/37 122MM 12 M-46 130MM MRLs: 3 BM-27/9P140 220MM MORTARS: M-43 82MM; 20 M-1943/M-38 120MM ANTI-TANK: AT-3; AT-5; B-10 82MM RCL; ZIS-2 57MM; 6 D-44 85MM GUNS	
<b>Guinea Bissau</b>	18 D-30/M1938 122MM MORTARS: M-43 82MM; 8 M-1943 120MM ANTI-TANK: TYPE 52 (M20) 75MM; B-10 82MM RCLs: M20 89MM RL; 8 D-44 85MM GUNS	





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Kenya</b>	40 L-118 105MM 8 M-56 105MM MORTARS: 50 81MM; 12 BRANDT 120MM ANTI-TANK; 80 CARL GUSTAV 84MM RCLs; MILAN; SWINGFIRE; 81 20MM; 11 Oerlikon 20MM; 70 (EST.) TCM-20 20MM; 13 L/70 40MM GUNS	
<b>Lesotho</b>	2 105MM MORTARS: 10 81MM ANTI-TANK: 6 M40 106MM	
<b>Madagascar</b>	5 M101 105MM 12 D-30 122MM MORTARS: M37 82MM; 8 M-43 120MM ANTI-TANK: M40A1 106MM RCLs; LRAC 89MM RL	
<b>Malawi</b>	9 105MM MORTARS: 8 L-16 81MM	
<b>Mali</b>	MRLs: 30+ BM-21 122MM	
<b>Mauritania</b>	36 HM-2/M-101A2 105MM 24 D-74 122MM 20 D-30 122MM MRLs: 4 Type-63 107MM; 4 Type-81 122MM MORTARS: 24 60MM; 60 81MM; 30 BRANDT 120MM ANTI-TANK: MILAN; 24 (EST.) M20 75MM; 90 (EST.) M40A1 106MM RCLs	





COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Mauritius</b>	MORTARS: 2 81MM ANTI-TANK: 4 LRAC 89MM RL	
<b>Mozambique</b>	20 M-1944 100MM 12 M-101 105MM 12 D-30 122MM 6 M-46 130MM 12 D-1 152MM MRLs; 12 BM-21 122MM MORTARS: 40 M-43 82MM; 12 M-43 120MM ANTI-TANK: AT-3; AT-4; 75MM; 107MM RCLs; 6 D-48 85MM; 12 Type-56 85MM GUNS	
<b>Namibia</b>	24 G2 140MM MRLs; 5 BM-21 122MM MORTARS: 40 81MM/82MM ANTI-TANK: B10 82MM RCLs; 57MM; 12 ZIS-3 76MM GUNS	
<b>Niger</b>	MORTARS: 19 BRANDT 81MM; 17 82MM; 4 BRANDT 120MM ANTI-TANK: 6 M20 75MM; 6 M40 106MM RCLs; 36 LRAC 89MM RLs	
<b>Nigeria</b>	50 M-56 105MM 31 D-30 and D-74 122MM 24 FH-77 155MM (in Store) 7 M-46 130MM 39 PALMARIA 155MM SP MORTARS: 200 81MM; 100 82MM; 30+ 120MM MRLs; 25 APR-21 122MM ANTI-TANK: SWINGFIRE; CARL GUSTAV 84MM; M40A1 106MM RCLs	



COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>Rwanda</b>	29 Type 54 (D-1) 105MM 6 D-30 122MM 152MM MORTARS; 115 81MM/82MM/120MM MRLs; 5 RM-70 122MM; 5 LAR-160 160MM	
<b>Senegal</b>	6 M-101A1 105MM 14 155MM 8 TR-F1 155MM MORTARS; 8 BRANDT 81MM; 8 BRANDT 120MM ANTI-TANK: 4 MILAN: 31 LRAC 89MM RL	
<b>Seychelles</b>	MORTARS: 6 M-43 82MM	
<b>Sierra Leone</b>	MORTARS: 27 (EST.) 81MM; 2 82MM; 2 120MM ANTI-TANK: CARL GUSTAV 84MM RCLs	
<b>Somalia</b>	12 D-30 122MM MORTARS: 45 81MM/120MM MRLs: 8-12 BM-21 GRAD ANTI-TANK: 16 M40A1 106MM RCLs	
<b>South Africa</b>	6 G5 155MM (+66 in store) 2 G6 155MM SP (+41 in store) MORTARS: 1,190 81MM (Some SP); 36 120MM MRLs; 21 127MM BATELEUR (+4 in store); 26 VALKIRI MK.1 127MM in store) ANTI-TANK: ZT-3 SWIFT; MILAN; M40A1 106MM RCLs; FT-5 92MM RL	



COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<b>South Sudan</b>	2S1 122MM SP 2S3 152MM M-46 130MM MORTARS: 82MM; 120MM MRLs: BM-21 122MM; TYPE-63 107MM ANTI-TANK: HJ-73; 9K115 METIS; SPG-9 73MM RCL	
<b>Sudan</b>	20 M-101 105MM 56 2S1 122MM 21+D-30/D-74/M-30 122MM 75 Type 59-1/M-46 130MM 12 M114A1 130MM 10 AMX F3 155MM SP MORTARS: 81MM; 82 MM; AM-49/M-43 120MM MRLs: 477 TYPE-63 107MM; 120 BM-21; 50 SAQR; 18 TYPE 81 120MM; 1+ WS-1 302MM ANTI-TANK; SWINGFIRE; 9K11 MALYUTKA; 40 M40A1 106MM RCLS; 40 76MM ZIS-3; M-1944 100MM; D-44 85MM	GHY02 KHALIFA 122MM SP being introduced
<b>Tanzania</b>	40 ZIS-3 76MM 80 Type 56 85MM 20 D-30 122MM 80 M-30 122MM 30 TYPE 59I 130MM MORTARS: 3+ TYPE 07PA 120MM; 100M-4382MM; 50 M-43 120MM MRLs; 58 BM-21 122MM; 3+ A100 300MM ANTI-TANK: TYPE 52 75MM RCLs; 75 TYPE 56 85MM GUNS	



COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
Togo	6 122MM SP 4 HM-2 105MM MORTARS; 20 M43 82MM ANTI-TANK: TYPE 52/56 75MM RCLs; TYPE 65 82MM RCLs; 5 ZIS-2 57MM GUNS	
Uganda	6 ATMOS 2000 155MM SP M-30 122MM 221 130MM 22 155MM 4 G-5/18 M-839 155MM MORTARS; L16 81MM; M-43 82MM; 78 SOLTAM 120MM MRLs: 107MM; 6+ BM-21/6 RM-70 122MM	
Zambia	18 Mod.56 105MM 25 D-30 122MM 18 M46 130MM MORTARS: 55 81MM; 24 82MM; 12 120MM MRLs; 30 BM-21 122MM ANTI-TANK: 9K11 MALYUTKA; 12 M18 57MM; M20 75MM; CARL GUSTAV 84MM RCLs	
Zimbabwe	12 2S1 122MM SP 4 D-30 122MM 16 Type 60 122MM MORTARS: 140 81MM/82MM; 6 M-43 120MM MRLs; 16 TYPE 63 107MM; 60 RM-70 DANA 120MM	



Defence **iQ**

23 - 25 May, 2016  
Tidworth, United Kingdom

## Taking Firepower Forward

### **The world's most popular and influential joint fires conference**

*Defence IQ* is delighted to announce that this year's future artillery conference will be returning to London, UK.

To coincide with the anniversary, we have shifted the dates of Future Artillery to the **24th-25th of May**, and will be hosted at Tidworth Garrison Theatre, near Salisbury and Larkhill – the current home of the Royal Regiment of Artillery.

Having catered for over 180 delegates from more than 25 nations at our 2015 event, Future Artillery truly is the AGM of the Artillery Community. We hope you can join us in 2016 for in depth discussions on the latest challenges and the future direction of indirect and joint fires capability.

### **Key speakers include:**

Brigadier Simon Humphrey, Director, Capability Combat Support, British Army

Colonel Pasi J. Pasivirta, Director of Artillery, Finnish Defence Forces

Colonel Timothy J. Bishop, Director of Artillery, Canadian Land Forces



**BOOK NOW**

**[www.FUTURE-ARTILLERY.com](http://www.FUTURE-ARTILLERY.com)**

**+44 (0)20 7368 9737**