

ARTILLERY: FUTURE INSIGHT



Photos: US ARMY

SUMMARY

A dramatic change in the future structure of artillery forces is focusing on increased precision and networking. In the US, Excalibur and the XM1156 Precision Guidance Kit (PGK) are key components of the modernisation programme. Initial fielding of PGK was achieved in 2013, while EXCALIBUR's Blk 1b increment is scheduled to be fielded in 2014. 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 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. Two Adaptable Artillery Regiments have 105MM Light Guns, as does one 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. ➔



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NOTABLE NATIONAL ARTILLERY PROGRAMMES & REQUIREMENTS

Argentina

Procurement of Carl Gustav RCLs is under consideration.

Azerbaijan

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

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.

Bahrain

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

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.

China

The ZBL-09 105MM Assault Gun Vehicle is being introduced.

Colombia

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

Croatia

18 155MM SP howitzers are planned to replace the 2S1s but due to financial constraints, this plan is currently on hold.

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.

India

Under its artillery modernisation plan, the Indian Army envisages induction of 2,814 guns of different types from both indigenous and foreign sources. In 2013, the Indian MoD, in an effort to bridge the gap, issued a tender to upgrade 300 M-46 artillery guns of the Indian Army and allowed private sector companies to take part.

Various 155 mm/52-calibre guns are presently undergoing field trials, and private and public sector howitzer development programmes are making modest headway and procurement of 145 BAE Systems M777 lightweight howitzers is likely to be confirmed in 2014-15.

The PINAKA MRL is in series production to replace the BM-21s.

Indonesia

The 76MM Guns/Howitzers are to be replaced by KH178 105MM Light Guns from South Korea.

Order reported for WR40 LANGUSTA Artillery Rocket Systems.

36 ASTROS II MRL systems (2 batteries) are on order with deliveries by late 2014.



NOTABLE NATIONAL ARTILLERY PROGRAMMES & REQUIREMENTS

US Army testing a new 105mm artillery round



Photo: army.mil

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.

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.

Italy

4 ARTHUR Artillery Locating Radars are on order. Artillery being reduced to a total of 140 pieces by 2014.

Japan

32 Artillery Pieces are planned for procurement in the Mid-Term Defence Programme.

Lebanon

Plan for 36 more D-30 122MM Howitzers from Russia announced in November 2010, but no evidence of delivery.

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.

Oman

Oman is considered a future potential HIMARS customer.

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.

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.

Qatar

The procurement of 7 M142 HIMARS artillery rocket systems with 60 ATACMS Block 1A and 360 M31A1 GMLRS rockets is planned.

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.

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).

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.

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.

Spain

Additional 70 GDSBS 155MM 155MM/52 CAL. APU SBT Howitzers to be delivered by the end of 2014.

4 ARTHUR Mortar-Locating Radars are also on order.

Sweden

24 ARCHER Truck-Mounted 155MM Howitzers are being delivered to replace FH-77Bs, but programme is being reviewed. Sweden has received 100 rounds of Excalibur munitions.

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.

NOTABLE NATIONAL ARTILLERY PROGRAMMES & REQUIREMENTS

Turkey

The PANTER and FIRTINA 155MM Guns are replacing the M-114 and older SP Systems. 336 FIRTINAs and 138 PANTERs are required.

UAE

20 HIMARS Artillery Rocket Systems (100 ATACMS Rockets) are on order.

3 COBRA Artillery Locating Radars are on order.

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.

USA


EXCALIBUR's Blk lb increment is scheduled to be fielded in 2014.

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.

As part of the US Army's Field Artillery Modernisation Strategy for 2020, the HMMWV mounted AN/TPQ-50 Lightweight Counter Mortar Radar (LCMR) and the truck mounted AN/TPQ-53 Quick Reaction Capability Radar are expected to become the primary target acquisition radars within the US Army Field Artillery. The AN/TPQ-53 fielding is currently planned for the first quarter of FY14 and the AN/TPQ-50 was scheduled for the third quarter of FY13.

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. 



HOLDINGS & FUTURE PLANS
EUROPE

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
AUSTRIA	36 M-109 A5OE 155mm SP (+116 M-109A2/M-109A3 stored) 120MM Mortars (+80 stored)	
BELGIUM	14 LG105 Mk.2 105MM 52 120MM; 39 81MM mortars	
BOSNIA AND HERZEGOVINA	155 T-12 100MM (Anti-Tank) Towed 36 L118 105MM Towed 24 M-2/M-2A1 105MM Towed 101 M-56/56A 105MM Towed 268 D-30/D-30J 122MM Towed 61 M-46 130MM Towed 13 M-82 130MM Towed 13 D-20 152MM Towed 17 M-84 152MM Towed 3 M-59 155MM Towed 194 M-114/M114A2 155MM Towed 24 S21 122M SP MRLs; 28 Type 63 107MM 35 RAK 12M91 128MM 21 VBR M63 128MM 15 LRL 107MM 65 LRL M-68 107MM 4 LRL M-71 127MM 10 LRL M-92 128MM 37 APR-40 122MM 5 GRAD BM-21 122MM 2 M-77 128MM 5 M-87 262MM 21 Others 538 120MM; 82 82MM; 1,046 60MM Mortars	
BULGARIA	24 D20 152MM Towed Howitzers 48 2S1 122MM SP Howitzers MRLs: 24 BM-21 122MM	
CYPRUS	12 F1 155MM Towed 12 F3 155MM SP 12 ZUZANA 155MM SP 72 M-56 105MM 20 100MM AT Guns MRLs; 18 M-68 128MM Towed 4 BM-21 122MM 112 RT61 120MM Mortars	

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
CZECH REPUBLIC	48 DANA 152MM SPH 40 M1982 120MM; 8 M85 PRAM 120MM SP Mortars	
DENMARK	12 M-109A3 155mm SP	
ESTONIA	32 H-61-37 105MM 42 H63 122MM 24 FH-70/A1 155MM 41 B455 AND 10 NM 95 81MM; 14 2B11 120MM; 165 41D 120MM Mortars 30 M40A1 106MM; 130 PV-1110 90MM RCLs	
FINLAND	750 Towed - D-30 (H63A) 122MM, K54 130MM, K83/K89/K93 155MM 72 2S1 122MM SP 18 2S5 152MM SP MRLs; 22 MLRS M-270 24 Rakh-89 122MM 610 120MM KRH 92 and 81MM KRH71Y; 42 AMOS 120MM twin SP Mortars	MLRS to be upgraded for use of Unitary Warhead Guided Rockets as well as ATACMS
FRANCE	157 AUF-1 155MM SP Howitzers 157 155MM TRF-1 Towed 77 CAESAR 155MM Truck-Mounted MRLs: 13 MLRS 364 RTF1 120MM Mortars APILAS; AT4CS Anti-Tank Weapons	Only the CAESARs will remain in- service of the 155MM Artillery.
GERMANY	89 PzH-2000 155MM SP MRLs: 38 MLRS	
GREECE	18 M-56 105MM 329 M-101 155MM 206 M-114 155MM Towed 24 PzH-2000 418 M-109A1/A2/A3/A5 155MM 145 M-110A2 203MM SP Howitzers MRLs; 111 RM-70 36 MLRS 1,629 81MM; 620 107MM Mortars 135 89MM SRTIM; 1,346 M-67 90MM; 581 M-40A1 106MM RCLs 2,000 CARL GUSTAV ATK Weapons	

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
HUNGARY	31 D-20 152MM Towed 49 92MM; 24 60MM Mortars	
IRELAND	24 L118 105MM Light Guns 24 25 Pounder Gun/Howitzers 95 120MM; 174 81MM; 164 60MM Mortars 440 CARL GUSTAV, AT-4 RCLs	
ITALY	164 FH-70 155MM Towed 124 M-109L 155MM SP 70 PzH-2000 155MM SP MRLs; 21 MLRS 328 120MM; 425 60MM Commando M	4 ARTHUR Artillery Locating Radars on order Artillery being reduced to a total of 140 pieces by 2014.
LATVIA	81MM Mortars CARL GUSTAV and AT4 ATK Weapons	
LITHUANIA	M101 105MM Towed 42 M-113 (with 120MM); 93 120MM, 60MM Mortars 400 CARL GUSTAV 84MM RCLs, 100 RPG-7s	
MACEDONIA	56 122MM Towed Howitzers 14 105MM Towed Howitzers MRLs; 11 MRL 128MM 6 MLRS 122MM 39 120MM Mortars	
MALTA	81MM; 82MM Mortars, RPG-7s	
NETHERLANDS	18 PzH-2000 155MM SP Howitzers 18 120MM Mortars	32 PzH2000 SP howitzers remain stored for sale.
NORWAY	16 M-109A3GN 155MM SP M72 LAW Anti-Tank Weapon	
POLAND	240 2S1 122MM SP GOZDZIK 111 152MM SP DANA 8 KRAB 155MM/L52 MRLs; 75 122MM BM-21 30 RM70 75 WR-40 LANGUSTA 99 M120 120MM; 98 M98 98MM Mortars	

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
ROMANIA	40 M-30 122MM Howitzer 245 M-81 152MM 103 M-85 152MM 6 2S1 122MM SP 18 Mod. 89 122MM SP MRLs; 133 APR-40 54 LAROM 160MM (Upgraded APR-40) 271 Mod. 1982 120MM Mortar 231 M77 100MM; 23 SU-100 SP ATK guns	
SERBIA	36 M-84 152MM Towed 36 M-46 130MM Towed 72 2S1 122MM SP MRLs; 18 M-63/94 128MM 60 M-77 128MM 4 M87 ORKAN 262MM 60 120MM Mortars	
SLOVAKIA	8 D30 122MM Towed 16 ZUZANA M-2000 155MM SP MRLs; 24 RM MODULAR 122MM	
SLOVENIA	18 SOLTAM TN90 155MM 50 120MM (M74 and SOLTAM MN-9) Mortars	
SPAIN	84 155MM/62MM APU SBTs 53 L-118 105MM Light Guns 18 105/14MM Mountain Howitzers 96 M-109A5 155MM SP Howitzers MRLs; 14 TERUEL 140MM 1,200 81MM (inc. 127 on M125A1/A2s); 265 120MM Towed; 192 120MM (on M-106s); 8 120MM (on BMRs) Mortars C-90CR M3; C-100 ALCOTAN ATK Weapons 25 Fixed Guns in 6 Batteries (152 and 381MM), 14+70 155MM/52CAL. APU SBT Towed Howitzers (Coastal Artillery)	4 ARTHUR Mortar-Locating Radars on order Additional 70 GDSBS 155MM 155MM/52 CAL. APU SBT Howitzers to be delivered by the end of 2014.
SWEDEN	4+ ARCHER Truck-Mounted 155MM Howitzers 50 120MM Mortars	24 ARCHER Truck-Mounted 155MM Howitzers being delivered to replace FH-77Bs.
SWITZERLAND	67 PzH-66/88 (M-109US) (by the end of 2014, plus some 150 in storage) 132 M-64 120MM Model 1973 (SP on M-113); 1,200 81MM Model 1972 Mortars 1,500 60MM Panzerfaust 3 ATK Weapons	

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<p>TURKEY</p>	<p>171 M-59 155mm Towed 490 M-101A1 105MM Towed 171 M-114A1/A2 155MM Towed 159 M-115 203MM Towed 24 PANTER 155MM Towed 530 M-52T/M44T 155MM SP 36 M-107 175MM SP 159 M-55 203MM SP 80+ FIRTINA 155MM SP MRLs; 12 MLRS (72 ATACMS Rockets) 54 KASIRGA 302MM 76+ 122MM SSM; J-600T YILDIRIM 5,342 60MM; 81MM; 107MM; 120MM Mortars 3,295 57MM; 75MM; 106MM RCLs</p>	<p>PANTER and FIRTINA replacing M-114 and older SP Systems. 336 FIRTINAs and 138 PANTERS required</p>
<p>UK</p>	<p>166 105MM Light Guns 137 AS90 155mm SP [89] 36 M270B1 MLRS (unitary warhead rockets)</p>	



SUB-SAHARAN AFRICA

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
ANGOLA	M1942 76MM) D84 85MM) Approximately 350 D30 120MM) in Total M46 130MM) MRLs; 75 BM-21/24 81MM and 120MM Mortars RPG-7 ATK Weapons	
BENIN	4 M-101 105MM 60MM; 81MM Mortars	
BOTSWANA	36 105MM Light Towed SOLTAM 155MM Towed CARL GUSTAV 84MM RCLs	
BURKINA FASO	8 M-101 105MM MRLs; Type 63 107MM 60MM; 81MM Mortars	
CAMEROON	16 M-101 105MM 4 SOLTAM 155MM 5 M-116 MRLs; 20 122MM 81MM Mortars 106MM RCLs	
CHAD	2 S1 122M SP 10 M-101 105MM MRLs; BM-21 122MM 81MM; 120MM Mortars	
CONGO	6 75MM 10 100MM 8 122MM D-30 Howitzers MRL; 122MM 81MM; 120MM Mortars 100MM ATK Guns	
DRC	24 M-116 75MM 20 Type 56 85MM 20 M-1938/D-30 122MM 14 Type 60 122MM 8 Type 59 130MM MRLs; 6 BM-21 122MM 81MM; M-30 107MM; 50 120MM Mortars M18 57MM; M20 75MM; M40A1 106MM RCLs	
DJIBOUTI	M56 105MM D-30 122MM 81MM; 120MM Mortars	10 M109L 155MM SP Howitzers being donated by Italy

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
ERITREA	Some 400-500 pieces, including 60 M46 130MM and D30 122MM as well as 20 2S1 122MM SP 82 MM mortars 9 BM-27 OURAGANs- MRL's	
ETHIOPIA	10 D-20 152MM M-46 130MM 360 122MM 40 105MM MRLs; BM-21 122MM 82MM; 120MM; 100 M-2/-30 107MM Mortars	
GABON	4 M-101 105MM MRLs; 140MM TERUEL 81MM; 120MM Mortars 106MM RCL ARMBRUST ATK Weapons	
GHANA	Type 86 122MM towed howitzer 81MM; 107MM; 120MM Mortars Type 83 122MM MRLs 50 CARL GUSTAV; RPG-7 ATK Weapons	
GUINEA	8 M-1942 76MM 6 D-44 85MM 10 M-1931/37 122MM 82MM; 120MM Mortars	
GUINEA BISSAU	8 D-44 85MM 18 D-30 122MM 82MM; 120MM Mortars	
KENYA	25 2S7 203MM SP NORA 152MM SP 48 122MM Towed 40 105MM Light Guns L5 105MM Pack 20 81MM; 8 120MM Mortars 56 CARL GUSTAV 84MM ATK Weapons	
MADAGASCAR	16 M37 82MM; M81; M60 120MM Mortars 106MM RCLs	
MALAWI	105MM Pack L-16 81MM Mortars M18 57MM RCLs	
MAURITANIA	10 M-101A2 105MM 18 D-74 8 D-30 122MM 60MM; 81MM; 120MM Mortars 75MM; 106MM RCLs	

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
MOZAMBIQUE	180 M-1942 76MM 24 M-1944 100MM 24 M-101 105MM 24 M-1938 and D-30 122MM 24 M-46 130MM 18 D-1 152MM MRLs; BM-21 122MM M-43 82MM; 120MM Mortars 75MM; 82MM; 106MM RCLs 75MM; 82MM ATK Weapons	
NAMIBIA	MRLs; 4 BM-21 122MM 81MM Mortars B10 82MM RCLs	
NIGER	60MM; 81MM; 120MM Mortars 6 M20 75MM; 6 106MM RCLs	
NIGERIA	200 M-56 105MM 180 D-30 and D-74 122MM 25 FH-77 155MM 130MM Towed 25 PALMARIA 155MM SP MRLs; 25 BM-21 122MM 200 81MM Mortars CARL GUSTAV 84MM; M40A1 106MM RCLs	
RWANDA	8 81MM Mortars BLINDICIDE 83MM; 57MM ATK Weapons	
SENEGAL	6 M-116 75MM Pack 6 M-101A1 105MM 6 Mod.50 155MM Howitzers 8 81MM; 8 120MM Mortars STRIM-89 ATK Weapons	
SEYCHELLES	Some RPG-7s	
SIERRA LEONE	10 25 Pounder (88MM) 60MM; 81MM Mortars CARL GUSTAV; RPG-2; RPG-7 RCLs	
SOUTH AFRICA	45 G5 155MM Towed 43 G6 155MM SP MRLs; 25 127MM BATELEUR 25 120MM Mortars 171 106MM RCLs	

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
SUDAN	20 M-101 105MM 6 M-56 105MM 4 D-74 122MM 18 M-1938 122MM 80 Type 54/D-30 122MM 27 Type 59-1/M-46 130MM 60 D-20 155MM 12 M114A1 155MM Towed 6 AMX F3 155MM SP 120 81MM; 12 M-43 and AM-49 (120MM) Mortars	GHY02 KHALIFA 122MM SP being introduced
TANZANIA	24 ZIS-3 76MM 80 Type 56 85MM 20 D-30 122MM Howitzers 85 M-30 122MM Howitzers 36 M-46 130MM MRLs; 48 BM-21 122MM 280 M43 82MM; 50 M43 120MM Mortars 500 Type 55 75MM RCLs	
TOGO	4 M-101A2 105MM 20 M43 82MM Mortars	
UGANDA	55 M-1942 76MM 18 M-1938 122MM 82MM; SOLTAM 120MM Mortars	
ZAMBIA	35 M1942 76MM 18 Mod.56 105MM 24 D-30 122MM 18 M46 130MM MRLs; 50 BM-21 122MM 50 81MM; 24 82MM; 14 120MM Mortars 10 M18 57MM; M20 75MM; CARL GUSTAV 84MM RCLs	
ZIMBABWE	24 25 Pounder (88MM) 18 Type 60 122MM 12 Type 54 122MM L-16 81MM; 120MM Mortars 12 M40A1 106MM RCLs	

LATIN AMERICA

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<p>ARGENTINA</p>	<p>70 OTO MELARA 105MM PACK+12 Marines 100 approx. Schneider 105MM (Stored) 109 SOFMA/CITER 77/81 155MM Towed 24 AMX Mk.F3 155MM SP 20 VCA 155MM SP 6 M114 155MM Howitzers (Marines) MRLs; 4 PAMPERO 105MM 4+ LVC CP-30s (105MM and 127 MM rockets) 360 120 MM, 40 TAM VCTM mortar carriers, 26 M-106 mortar carriers.</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>
<p>BELIZE</p>	<p>81MM mortars 84MM RCLs</p>	
<p>BOLIVIA</p>	<p>36 M-116 75MM Pack Howitzers 2 M-101 105MM 36 122MM 6 L-15 Mod, 6 75 MM 250 81MM and M30 107MM Mortars 50 90MM and 30 106MM RCLs</p>	
<p>BRAZIL</p>	<p>342 M-101A1 105MM 14 LG1 Mk.II 105MM 92 M-114A1 155MM Howitzers 72 M-108 155MM SP 18 L118 105MM (Marines) MRLs; 3 ASTROS II Batteries (6 launchers each), 1 ASTROS Mk6 battery (forming) 85 K6A3 120MM; 217 M30 107MM Mortars 7 120MM (Marines) 300 57MM and 106MM RCLs</p>	<p>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)</p>
<p>CHILE</p>	<p>48 SOLTAM M-68/M-71 155MM 89 M-101 105MM 104 M-56 105MM Pack Howitzers 36 M-109A3 155MM SP 4 KH-178 105MM; 14 G-5 155MM; 4 105MM Towed (Marines) 744 81MM; 78 120MM SP; 276 120MM, 744 81MM Mortars 16 81MM (Marines) 221 M40A1 106MM; CARL GUSTAV 84MM RCLs</p>	

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
COLOMBIA	15 155/52 APU SBT 155MM Howitzers 20+12 LG1 MK.III 105MM 130 M-2A1/M-101 105MM (stored) 69 M40 106MM RCLs	An additional batch of 12 LG1 MK111 105 MM light guns are being delivered.
CUBA	1,200 Towed Guns and Howitzers (76MM, 85MM, 122MM, 130MM, 152MM) 100 SU-100 MRLs; BM-21 122MM BM-14 140MM BM-24 240MM M-41/43 82MM; M-38/43 120MM Mortars 57MM RCLs 70 FROG-4/7 SSM	
DOMINICAN REPUBLIC	20 M-101 105MM Howitzers M1 81MM; 24 ECIA 120MM Mortars M40A1 106MM RCLs	
ECUADOR	50 M2A1 105MM 10 M-198 155MM 10 Mk.F3 155MM SP Howitzers MRLs; 6 BM-70 122MM 300 M29 81MM; M30 107MM; SOLTAM 160MM Mortars 400 M67 90MM; M40A1 106MM RCLs	
EL SALVADOR	8 M-101A1 105MM 24 M-102A2 105MM 18 M-56 105MM 379 M67 90MM RCLs	
GUATEMALA	36 M-101 105MM Howitzers 8 M-102 105MM Howitzers 56 M-56 105MM Howitzers 12 M-116 75MM 55 M1 81M; 12 M30 107MM; 18 ECIA 120MM Mortars M40A1 106MM RCLs	
GUYANA	12 81MM; 18 82MM; 18 120MM Mortars	
HONDURAS	24 M-101/M-102 105MM Howitzers 4 M-198 155MM 400 60/81MM; 60 120MM; 30 160MM Mortars 80 M40A1 106MM RCLs 120 CARL GUSTAV ATK Weapons	

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
JAMAICA	12 81 MM mortars	
MEXICO	6 M-56 105MM Howitzers (Marines) MRLs; FIROS-6 (Marines) 100 60MM/81MM Mortars (Marines) 106MM RCLs (Marines)	
NICARAGUA	18 D20 152MM MRLs; 30 BM-21 122MM 500 82MM; M43 120MM Mortars	
PARAGUAY	20 75MM 15 M-101 105MM 6 152MM 75 81MM Mortars M20 75MM RCLs	
PERU	130 M-101 105MM 50 M-56 105MM Pack 30 M-46 130MM 38 D-30 122MM Towed Howitzers 12 M-109A2 155MM SP Some 2S1 122MM SP 18 155MM Howitzers (Marines) 6 D-30 122MM Howitzers (Marines) 106MM RCLs (Marines) MRLs; 26 BM-21 122MM 500+ 81MM; 120MM; 160MM Mortars; 45 FIAT /OTO 6614 Mortar Carriers	
TRINIDAD & TOBAGO	Some 60MM Mortars B300 AT Weapons	
URUGUAY	48 M-101/M-102 105MM 8 M-114 155MM 6 S1 122MM SP MRLs; 4 RM-70 (LCM 122) 98 60MM; 96 81MM; 44 SL 120MM Mortars 69 M40A1 106MM; 3 M-20 75MM RCLs 15 MILAN ATGWs	

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<p>VENEZUELA</p>	<p>5 M-109 155MM SP 2S19 MSTA-S 152MM SP 20 FMk.3 155MM SP 24 M-114 155MM Howitzers 80 M-56 105MM 40 M-101 105MM 12 M-56 105MM Pack Howitzers (Marines) MRLs; 12 AMX-13/LAR 160MM 12 BM-30 SMERCH 300MM BM-21 GRAD 122MM (numbers unknown) 120MM; 81MM; 60MM Mortars 18 120MM Mortars (Marines) M40A1 106MM; 13+ 2S23 NONA-SVKs; 24+ 2S12 SANI 120mm Towed RCLs CARL GUSTAV; AT4; RPG-7 ATK Weapons</p>	



MIDDLE EAST & NORTH AFRICA

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
ALGERIA	500 122MM and 152MM Towed? Norinco 155MM 5 SU-85 145 2S1 122MM SP 40 2S3 152MM SP 20 ISU-152MM SP NORINCO PLZ45 155MM SP MRLs; 48 BM-21 120MM 52 BM-14/16 140MM 30 BM-24 240MM SSMs; 18 FROG-4/7 Launchers - 50 Rockets 300 120MM; 60 M-1943 160MM Mortars	
BAHRAIN	61 M-110 203MM SP M-109 155MM SP 18 M-198 155MM 8 105MM MLRs; 9 MLRS (30 ATACMS pods) 18 81MM and 120MM Mortars 6 MOBAT 120MM RCLs	
EGYPT	1,200 122MM, 130MM, 152MM, 180MM 40 203MM Towed 680 M-109A2/A3 155MM SP 124 122MM SP MRLs; 145 BM-11 122MM 60 BM-21 122MM 175 M-88 122MM 26 MLRS SSMs; 24 SCUD SAKR-36 400 120MM; 160MM; 240MM Mortars 900 82MM; 107MM RCLs 900 57MM; 76MM; 100MM ATK Guns	

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
<p style="text-align: center;">IRAN</p>	<p>2,000 75MM, 85MM, M-101 105MM 200 122MM, 130MM Towed, M-107 175MM SP GUNS M-114 Towed M-109A1 155MM SP M-115 Towed M-110 203MM SP RAAD (THUNDER) 1 122MM SP 2 155MM SP 50 GHN-45, G-5 155MM Towed Gun/Howitzers MRLs; 64 BM-21 HADID FADJR-3 240MM FADJR-5 333MM SSMs; 300+ SCUD-B 60 SCUD-C 81MM; 107MM; 120MM Mortars 5MM; 75MM; 106MM RCLs</p>	<p>Various National Development Programmes and Prototypes of SSMs exist, but their status and numbers are uncertain</p>
<p style="text-align: center;">IRAQ</p>	<p>50 M-109A4/A5 155MM SP Howitzers 128 M198 155MM towed howitzers 120MM (55 Batteries); 81MM (108 Platoons) Mortars</p>	<p>Large number refurbished and brought back into service. 6 AN/TPQ-36(V)10 FIREFINDER and 18 AN/TPQ-48 Artillery/Mortar locating Radars have been delivered</p>
<p style="text-align: center;">ISRAEL</p>	<p>100 D-30 122MM SOLTAM M-68/71 155MM Towed 175 M-107 175MM SP 120 L33 M-50 155MM SP 600 M-109 155MM SP 72 M-110 203MM SP MRLs; 122MM, 135MM, 240MM, 290MM, 48 MLRS 900 81MM; 120MM; 160MM Mortars</p>	<p>Requirement for new 155MM SP System 100 M-109 SP Systems to be retired. The KESHET 120MM mortar system is in continued procurement.</p>
<p style="text-align: center;">JORDAN</p>	<p>17 M-59 155MM 38 M-114 155MM 4 203MM Towed 29 M-44 155MM SP 110 approx. M-109 155MM SP 100 M-110A2 203MM SP MRLs; 12 HIMARS 81MM; 107MM; 120MM Mortars Norinco 120MM SP Mortar/Howitzer</p>	

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
KUWAIT	51 NORINCO PLZ45 155MM SP Howitzers 23 M-109 155MM SP (Stored) 18 GCT 155MM SP (Stored) 18 F3 155MM SP (Stored) MRLs; 25 SMERCH 300MM 18 120MM Mortars	
LEBANON	107 M-198 155MM Towed 20 M-114A1 155MM Towed 12 Mod.50 155MM Towed 20 M-46 130MM Towed 24 D-30 and M-30 122MM Towed 23 M-101A1/M-102 105MM Towed MRLs; 30 BM-21 43 120MM Mortars 106MM RCLs	
MOROCCO	36 L-118 105MM 18 M-101 105MM 40 M-101A1 105MM 18 M-46 130MM 22 M-114 155MM Towed 30 FH-70 155MM Towed 100 M-109 155MM SP 80 F3 155MM SP 60 M-110 203MM SP 81MM; 120MM Mortars 75MM; 106MM RCLs STRIM 89 ATK weapons	AR-1A Artillery Rockets may have been received from China, but no evidence.
OMAN	24 G-6 155MM SP 12 FH-70 155MM 130MM Towed 105MM Towed 15 M-109 155MM SP MRLs; Type 90 122MM 81MM; 107MM; 120MM Mortars	
QATAR	12 G-5 155MM Gun/Howitzers (To be withdrawn) 22 Mk F3 155MM SP (To be withdrawn) MLRS; 4 ASTROS II 24 81MM; 15 120MM Mortars	24 PzH-2000 155MM SP Howitzers are on order to replace existing assets. Deliveries are to start in late 2014/early 2015.

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
SAUDI ARABIA	100 M-101 105MM M-114 155MM 90 M-198 155MM 72 FH-70 155MM Towed 280 M-109 155MM 50 GCT 155MM SP 27 M-198 155MM/105MM Towed (National Guard) MRLs; 60 ASTROS II 400 81MM; 107MM (stored); 110 120MM Mortars	Order for 36 M-777A2 155MM and 54 M-119A2 105MM Howitzers, 6 AN/TPQ-36(V) FIREFINDER Artillery Locating Radars being implemented. 80+20+32 CAESAR 155MM Truck- Mounted SP Howitzers being delivered to National Guard
SYRIA	2,600 122MM, 130MM, 155MM, 180MM Towed 400 2S1 122MM SP 50 2S3 152MM SP 100MM Anti-Tank Guns MRLs; 122MM, 140MM and 240MM SSMs; 24 FROG-7 18 SCUD-B (60 Missiles) SS-12 18 SS-21 M-9? SSC1/SSC2/SSC3 (Coastal Artillery) 81MM; 120MM; 160MM Mortars	
TUNISIA	45 M-101A1/A2 105MM 12 M-114 155MM Towed 48 M-198 155MM Towed 10 M-108 105MM SP 18 M-109 155MM SP 90 81MM; 64 107MM; 18 120MM Mortars STRIM-89 ATK Weapon	

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
UAE	12 M-198 155MM Towed 105MM Towed 20 AMX Mk F3 155MM SP 76 G-6 155MM SP 85 M-109L47 155MM SP MRLs; ASTROS II FIROS-25 6 SMERCH 20 HIMARS 81MM Mortars	20 HIMARS Artillery Rocket Systems (100 ATACMS Rockets) on order, with deliveries to start in 2014 through local production. 3 COBRA Artillery Locating Radars on order
YEMEN	550 76MM, 85MM, 100MM, 105MM, 122MM, 130MM 12 M-114 155MM Towed MRLs; 280 BM-21 122MM 15 BM-14 SSMs; 15+ SCUD 12 FROG-7 6 SCUD-B 6 SS-21 81MM; 120MM; 160MM Mortars	



ASIA-PACIFIC

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
AFGHANISTAN	194 D-30 122MM Howitzers	Being procured from various sources
AUSTRALIA	240 M-2A2 105MM Howitzers 36 M-198 155MM Howitzers 54 M777A2 155MM lightweight howitzers 109 HAMEL L118/119 105MM Light Guns 296 F2 81MM Mortars 74 106MM RCLs 577 CARL GUSTAV 84MM ATK Weapons	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.
BANGLADESH	56 M-56A1 105MM Pack Howitzers 98 M-56 /L10A1 105MM Pack Howitzers 110 Type 83 122MM Field Guns 14 D-30 122MM Field Guns 62 Type 59-1 130MM NORA B-52 155mm SP (Numbers unknown) 11 M29A1 81MM; 477 Type-53/87/M32 82MM; 23 Type 52 120MM Mortars 246 M40 106MM RCLs PF-98 ATK Weapons	Further 300 Type 87 Mortars being delivered
BRUNEI	23 81MM Mortars ARMBRUST ATK Weapons	
CAMBODIA	102 Heavy Calibre Artillery Systems 76MM, 122MM, 130MM, 81MM, 120MM and 160MM mortars. MRLs; BM-21 122MM, RM-70 122MM	Official Figure – includes mortars of 120MM and above.
CHINA	15,000 100MM, 122MM, 130MM, 152MM, 155MM Towed 122MM, 152MM, 155MM SP MRLs; 3,500 130MM, 132MM, 253MM, 284MM, 300MM SSMs; FROG-7 100 SRBM T-5 M-9 81MM; 120MM; 160MM Mortars 57MM; 75MM; 82MM RCLs Type 55 (57MM); Type 54 (76MM); Type 56 (85MM); Type 65 (82MM RCL); Type 73 (100MM); Type 75 (105MM SP) ATK Weapons 35 Regiments of fixed and mobile tube artillery (Coastal Defence)	

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
FIJI	4 25 Pounder Guns/Howitzers 10 81MM Mortars	
INDIA	105MM Light Guns 300 approx. M-46 130MM 180 Modified M-46 155MM 370 FH-77B 155MM MRLs; 80 BM-21 122MM (Being withdrawn) 36 SMERCH 300MM 62+ PINAKA 214MM 500 81MM; 120MM Mortars 106MM RCLs 57MM; 100MM ATK Guns	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. Order for 145 M-777 155MM Towed Lightweight Howitzers to be delivered in 2014-2015, expected to be signed in 2014-15.
INDONESIA	5+ 155MM 40 105MM 20 105LG 105MM 122MM 37 CAESAR truck-mounted SP 155MM howitzers MRLs; 24 BM-14 140MM 81MM; 120MM Mortars 90MM; 106MM RCLs	76MM Guns/Howitzers to be replaced by KH178 105MM Light Guns from South Korea. Order reported for WR40 LANGUSTA Artillery Rocket Systems. 36 ASTROS II MRL systems (2 batteries) are on order with deliveries by late 2014.
JAPAN	400 Systems including FH-70 155MM Towed, Type 75 and 99 (20) 155MM SP, M-110 203MM SP, MRLs; Type 75 130MM 107MM; 120MM; Type 96 120MM SP Mortars 100 Type 60 106MM RCLs CARL GUSTAV; Panzerfaust-3 ATK Weapon	32 Artillery Pieces in Mid-Term Defence Programme. Approx. 300 Artillery Systems will be in-service in the near future.
KOREA (NORTH)	3,500 100MM, 122MM, 130MM, 152MM Towed, 122MM and 152MM SP 122MM and 130MM (Coastal Defence) MRLs; 2,000 107MM, 122MM, 130MM, 200MM SSM; 54 FROG-7 100 SCUD-B 36 SCUD-C KN-02 81 MM; 120 MM; 160MM; 240MM Mortars 82MM B-10; B-11 107MM RCLs 100MM ATK Guns	

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
KOREA (SOUTH)	3,000 M-101/KH178 105MM and M-114/KH179 155MM Towed Howitzers 48 M-115 203MM Towed Howitzers 1,000 M109A2 155MM 100+ K9 155MM 100 M-107 175MM/M110 203MM SP Howitzers MRLs; 58 MLRS (227MM + 110 ATACMS Block 1A Missiles) 156 KOORYONG 130MM SSM; HYUNMOO 2B/3C 5,000 81MM; 107MM Mortars 57MM; 75MM; 106MM LAW RCLs Panzerfaust 3 AT Weapons	Requirement for 500+ THUNDER 155MM SP Gun/Howitzers to replace M-107s, M-110s and at least part of M-109 fleet of Guns. New Truck-Mounted 105MM Howitzer revealed in September 2011 (numbers to be procured unknown).
LAOS	75MM, 105MM, 122mm (40), 130MM (10), 155MM 81MM; 107MM Mortars 75MM; 106MM RCLs	
MALAYSIA	28 G-5 Mk.3 155MM 12 FH-70 155MM 150 105MM Pack 56 M-102A1 MRLs; 36 ASTROS II 81MM; 8 120MM SP Mortars 150 106MM RCLs CARL GUSTAV ATK Weapons	
MONGOLIA	300 76MM, 100MM, 130MM, 152MM Field Howitzers	
MYANMAR	Type WP52 155MM 16 SOLTAM 155MM, 140MM 100 M-1948 76MM 80 M-101 105MM 30 NORA B-52 155MM Truck-Mounted NORINCO SH1 155MM truck-mounted MRLs; 122MM 30 Type 63 107MM 30+ 240MM 81MM; 120MM Mortars CARL GUSTAV ATK Weapons	
NEPAL	75MM Pack 105MM Towed 81MM; 120MM Mortars	

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
NEW ZEALAND	24 L-118 105MM Light Guns 50 81MM Mortars 68 CARL GUSTAV 84MM RCLs	
PAKISTAN	12 PANTER 155MM Towed 124 M-198 155MM Towed 60 M-114 155MM Towed 200 Type 59 130MM Towed 600 Type 60 122MM Towed 300 M-101 105MM Towed 200 Type 56 85MM Towed 12 M-7 105MM SP 300 M-109A2 155MM SP 115 M-109A5 155MM SP 12 M-110 203MM SP 90 NORINCO SH1 155MM (Wheeled) MRLs; 40 BM-21 122MM SSM: HAFT-1/1A HAFT-2 HAFT-9 NASR 120MM Mortars 75MM; 106MM RCLs	
PAPUA NEW GUINEA	Some 120MM Mortars	
PHILIPPINES	14 SOLTAM M71 12 M113A1 155MM 200+ 105MM 23 M-101 105MM Howitzers (Marines) 10 L10A1 105MM Pack Howitzers (Marines) 60 M81 81MM Mortars M-67 90MM; 75 M40 106MM RCLs (Also some Marines)	An international tender has been circulated for the purchase of 10-12 155MM SP howitzers.
SINGAPORE	35 M-71 155MM 50 FH-88 155MM 50+ FH2000 155MM 54 PEGASUS 155MM Lightweight Guns 54 SPH-1 PRIMUS 155MM SP MRLs; 18 HIMARS 60MM; 81MM; 120MM; 160MM Mortars CARL GUSTAV; MATADOR ATK Weapons	

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
SRI LANKA	346 85MM, 120MM, 122MM, 130MM, 152MM and 25 Pounder MRLs; 20 122MM 81MM; 107MM Mortars	
TAIWAN	500 105MM 450 155MM 56 TRF1 155MM 300 M-52/M-108, M-109A2, M-109A5 155MM SP 75 M-110A2 203MM SP, M-107 175MM SP 105MM and 155MM Towed (Marines) M-109A2 155MM and M-110A2 203mm SP (Marines) MRLs; 117MM 60 RT2000 SSM; HSIUNG FENG CHING FENG 60MM; 81MM; 107MM; 120MM Mortars (Some Marines) 106MM RCL (Marines)	M-108 and M-109A2 155MM SP Howitzers being upgraded to M-109A5 configuration. 60 RT2000 modular MRL systems (117 MM, 180MM or 230MM rockets) are being delivered against a total requirement for 150 systems. Total requirement of 150 RT2000
THAILAND	20 M-109A5 155MM SP Howitzers 6 CAESAR 155MM Wheeled SP Howitzers 286 M-101 105MM 24 LG1 Mk.2 105MM 22 L119 105MM Light Guns 54 M198 155MM Howitzers 18+ Type 59 130MM 300 75MM Pack 24 GC-45 155MM (Marines) 18 GHN-45 155MM (Marines) 12 SOLTAM M-71 155MM (Marines) MRLs; 60 130MM Systems DT-1 300MM 81MM; 120MM Mortars; 12 M106A3 120MM Mortar Carriers; 12 M125A3 81MM Mortar Carriers 57MM; 75MM; 106MM RCLs LAW; RPG-2; RPG-7; 73MM Thai LAW ATK Weapons	

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
VIETNAM	300 76MM, 85MM, 100MM, 105MM, 122MM 200 130MM 100 152MM MRLs; 107MM, 122MM, 140MM SSM; SCUD B/C 81MM; 107MM; 120MM; 160MM Mortars Type 63 107MM; 122MM; 140MM MRLs	

RUSSIA & CIS

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
ARMENIA	69 D-30 122MM Towed 62 D-1, D-2 and 2A36 152MM Towed 10 2S1 122MM SP 28 2S3 152MM SP MRLs; 47 BM-21 122MM 4 WM80 SMERCH SSM; SCUD-B TOCHKA-U 12 M120 120MM Mortars	
AZERBAIJAN	165 D-30 122MM Towed 24 D-20 152MM Towed 16 2A36 152MM Towed 66 2S1 122MM SP 12 2S7 203MM SP 16 2S3 152MM SP MRLs; 44 BM-21 122MM 12 9A52 MERCH 300M IMI LYNX (122MM,160MM, 30MM) SSM; 9K79 TOCHKA 125 120MM Mortars (18 SP)	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.
BELARUS	58 D-20 152MM Towed 46 D-30 130MM Towed 50 2A36 152MM Towed 136 2A65 152MM Towed 232 2S1 122MM SP 13 2S19 152MM SP 162 2S3 152MM SP 120 2S5 152MM SP 24 2S7 203MM SP 54 2S9 120MM SP MRLs; 210 BM-21 122MM 40 9A52 300MM 75 9P140 220MM 65 120MM 2S12 Mortars	
GEORGIA	50 D-30 122MM Towed D-20 152MM Towed 40 DANA 152MM SP 30 2S3 152MM SP 10 S7 203MM SP MRLs; BM-21 122MM RM-70 122MM 12 LAR-160 160MM 900 82MM; 120MM Mortars	

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
KAZAKHSTAN	D-30 122MM Towed) M-46 130MM Towed) 500 D-20 152MM Towed) 2S1 122MM SP) 150 2S3 152MM SP) MRLs; BM-21 122MM URAGAN 220MM (A few)	
KYRGYZSTAN	1 Field Artillery Regiment	
MOLDOVA	21 2A36 9 2S9 31 D-20 17 M-30 MRLs; 11 9P140 URAGAN 59 Mortars (inc. NONA 120MM SP)	
RUSSIA	40,000 122MM, 130MM, 152MM Towed, 122MM, 152MM SP Guns / Howitzers MRLs; 7,500 122MM, 140MM, 220MM, 240, SMERCH 300MM SSM; 600 SS-21 TOCHKA ISKANDER-M 14,000 82MM; 120MM; 160MM; 240MM Mortars 1,100 Gun/Mortars 8,000 57MM; 76MM; 85MM; 100MM Towed and ASU-57/85 SP ATK Weapons 40MM RPG-7; 64MM RPG-15; 73MM RPG-16 RLs 1 Artillery Regiment (Naval Infantry)	ISKANDER-M to equip 5 Brigades
TURKMENISTAN	250 Approx. D-20 152MM and D-30 122MM Towed 12 2S3 152MM SP MRLs; BM-21 122MM 8 SMERCH 300MM	
UKRAINE	D-20 152MM Towed) 2A36 152MM Towed) 342 152MM and 203MM SP) MRLs; BM-21 122MM) 287 130MM, 220MM, 300MM) SSM; SS-21 TOCHKA/TOCHKA-U 180 120MM Mortars	
UZBEKISTAN	800 Artillery Pieces (Tube and MRL) - 1 Artillery Brigade	

NORTH AMERICA

COUNTRY	CURRENT ARTILLERY HOLDINGS	FUTURE PLANS
CANADA	28 105LG Mk. II 105MM Towed 96 C3 105MM, 19C1 105MM Towed 37 M777 Lightweight 155MM Howitzers 935 CARL GUSTAV M2; 227 CARL GUSTAV M3 RCLs	
USA	1,000 M-119A1 105MM Towed 1,450 M-198 155MM Towed 275 + 70 M777A1 155MM Lightweight Towed 1,500 M-109A2/A3/A5 155MM SP 950 M-109A6 PALADIN 155MM SP 489 M-777A1 155MM Towed (Marine Corps) 140 M-109 155MM SP Howitzer (Marine Corps) MRLs; 800 MLRS 227MM 42 MLRS (Marine Corps) 375 HIMARS ATACMS (deployed with MLRS and HIMARS launchers) 2,000 M224 60MM; M224A1 60MM; 450 M252 81MM; 1,000 M120/M120A1 120MM Mortars 500 81MM; 107MM 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.

Source for artillery holdings and plans: MILTEC World Defence Almanac 2014; S. Philpott; Jane's IHS.



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