

Appendix 3. Transfers of major conventional weapons by Russia to Asian countries, 1992–98

This register lists major weapons on order or under delivery, or for which the licence was bought and production was under way or completed, during period 1992–98. 'Year(s) of deliveries' includes aggregates of all deliveries and licensed production since the beginning of the contract. Sources and methods for the data collection are explained in SIPRI Yearbooks and on the SIPRI Internet site at URL <<http://www.sipri.se/projects/armstrade/atmethods.html>>. Conventions, abbreviations and acronyms are explained at the end of this appendix. 'Deal worth' values in the comments refer to real monetary values as reported in sources and not to SIPRI trend-indicator values.

Recipient	No. ordered	Weapon designation	Weapon description	Year of order/ licence	Year(s) of deliveries	No. delivered/ produced	Comments
Cambodia	2	Mi-17 Hip-H	Helicopter	(1995)	1996	(2)	Supplier uncertain; second-hand; for VIP transport
	(2)	Mi-26 Halo	Helicopter	(1996)	1996	(2)	Supplier uncertain; probably second-hand; bought by Cambodian civilian as gift for Air Force
China	7	Il-76M Candid-B	Transport aircraft	1992	1993	7	Barter deal worth \$200 m (offsets 60%); 3 more delivered to military-owned airline
	(8)	Ka-27PL Helix-A	ASW helicopter	1998		..	Incl 4 Ka-28PS SAR version
	24	Su-27SK Flanker-B	FGA aircraft	1995	1996–97	24	Deal worth \$2.2 b; incl 6 Su-27UB trainer version
	(288)	AA-11 Archer/R-73	Air-to-air missile	1995	1996	(288)	For 24 Su-27 fighter aircraft
	2	Su-27UBK Flanker-C	FGA/trainer aircraft	1992	1992	2	Original order for 12 Su-27SK FGA aircraft reduced to 2 Su-27UB trainer version
	24	Su-27SK Flanker-B	FGA aircraft	1991	1992	(24)	Deal worth \$700 m (offsets 40%); incl 4 Su-27UBK trainer version
(288)	AA-11 Archer/R-73	Air-to-air missile	(1991)	1991–92	(288)	For 24 Su-27 fighter aircraft	
(96)	AA-8 Aphid/R-60	Air-to-air missile	1991	1991–92	(96)	For 24 Su-27 fighter aircraft	
(15)	SA-15/Tor-MI	AAV(M)	(1996)	1997	(15)		

(255)	SA-15 Gauntlet/9M330	SAM	(1996)	1997	(255)	For SA-15 SAM system
(4)	SA-10d/S-300PMU-1	SAM system	1992	1993-97	(4)	Number delivered could be 6
(1)	36D6/Tin Shield	Surveillance radar	1992	1993	(1)	For use with 4 SA-10c/S-300PMU SAM systems
(1)	76N6 Clam Shell	Surveillance radar	1992	1993	(1)	For use with 4 SA-10c/S-200PMU SAM system
(144)	SA-10 Grumble/5V55R	SAM	1992	1993-97	(144)	For 4 SA-10d/S-300PMU SAM systems
2	Kilo Class/Type-636E	Submarine	1993	1997	1	
2	Kilo Class/Type-877E	Submarine	1993	1995	2	Originally built for Poland and Romania but cancelled
2	Sovremenny Class	Destroyer	1996		..	Originally ordered for Soviet/Russian Navy but cancelled before completion and sold to China
2	Top Plate	Surveillance radar	1996		..	On 2 Sovremenny Class destroyers
4	Bass Tilt	Fire control radar	1996		..	On 2 Sovremenny Class destroyers; for use with AK-630 30mm guns
12	Front Dome	Fire control radar	1996		..	On 2 Sovremenny Class destroyers; for use with SA-N-7 ShAMs
2	Kite Screech	Fire control radar	1996		..	On 2 Sovremenny Class destroyers; for use with AK-130 130mm guns
6	Palm Fond	Surveillance radar	1996		..	On 2 Sovremenny Class destroyers
4	SA-N-7 ShAMS/Shtil	ShAM system	1996		..	On 2 Sovremenny Class destroyers
(132)	SA-N-7 Gadfly/Smerch	ShAM	1996		..	For 2 Sovremenny Class destroyers; designation could be SA-N-17 Grizzly
2	SS-N-22 ShShMS	ShShM system	1996		..	On 2 Sovremenny Class destroyers
(50)	SS-N-22 Sunburn/P-80	ShShM	1998		..	For 2 Sovremenny Class destroyers
4	AK-130 130mm	Naval gun	1996		..	On 2 Sovremenny Class destroyers
(200)	Su-27SK Flanker-B	FGA aircraft	1996	1998-98	(2)	Incl some only assembled in China; Chinese designation J-11
2	Kilo Class/Type-877E	Submarine	1997	1997-98	1	Incl 1 originally built for Russian Navy, but sold to India before completion; Indian designation Sindughosh Class
3	AK-100 100mm L/59	Naval gun	(1986)	1997	(1)	For 3 Delhi Class (Project-15 Type) destroyers
3	Kite Screech	Fire control radar	(1986)	1997	(1)	For 3 Delhi Class (Project-15 Type) destroyers; for use with AK-100 100mm gun
6	Bass Tilt	Fire control radar	(1986)	1997	(2)	For 3 Delhi Class (Project-15 Type) destroyers; for use with AK-650 30mm guns
	India					

Recipient	No. ordered	Weapon designation	Weapon description	Year of order/ licence	Year(s) of deliveries	No. delivered/ produced	Comments
	18	Front Dome	Fire control radar	(1986)	1997	(6)	For 3 Delhi Class (Project-15 Type) destroyers; for use with SA-N-7 ShAM system
	6	SA-N-7 ShAMS/Shtil	ShAM system	(1986)	1997	(2)	For 3 Delhi Class (Project-15 Type) destroyers
	(216)	SA-N-7 Gadfly/Smerch	ShAM	(1986)	1997	(72)	For 3 Delhi Class (Project-15 Type) destroyers
	3	Garpun	Fire control radar	(1993)	1997-98	(1)	For 3 Delhi Class (Project-15 Type) destroyers; for use with SS-N-25 ShShMs
	3	SS-N-25 ShShMS	ShShM system	1992	1997-98	(1)	For 3 Delhi Class (Project-15 Type) destroyers
	(98)	SS-N-25/X-35 Uran	ShShM	1992	1997-98	(32)	For 3 Delhi Class (Project-15 Type) destroyers
	3	Krivak-4 Class	Frigate	1997	..	..	Deal worth Rs35.4 b; delivery delayed due to financial problems of producer
	3	AK-100 100mm L/59	Naval gun	(1997)	..	..	On 3 Krivak-4 Class frigates
	3	Kite Sereech	Fire control radar	1997	..	..	On 3 Krivak-4 frigates; for use with AK-100 100mm gun
	..	Cross Sword	Fire control radar	(1997)	..	..	On 3 Krivak-4 Class frigates; for use with SA-N-9 ShAM system; status uncertain
	3	SA-N-9 ShAMS	ShAM system	(1997)	..	..	On 3 Krivak-4 Class frigates; status uncertain
	..	SA-N-9 Tor-M	ShAM	(1997)	..	..	For 3 Krivak-4 Class frigates; status uncertain
	3	Garpun	Fire control radar	1997	..	..	On 3 Krivak-4 Class frigates; for use with SS-N-25 ShShM system
	3	SS-N-25 ShShMS	ShShM system	(1997)	..	..	On 3 Krivak-4 Type frigates
	3	Top Plate	Surveillance radar	1997	..	..	On 3 Krivak-4 Class frigates; designation uncertain
	8	Bass Tilt	Fire control radar	1983	1989-98	(5)	For 8 Khukri Class (Project-25/25A Type) corvettes; for use with 76mm gun and AK-630 30mm CIWS
	8	Cross Dome	Surveillance radar	(1983)	1989-98	(5)	For 8 Khukri Class (Project-25/25A Type) corvettes
	8	Plank Shave	Surveillance radar	(1983)	1989-98	(5)	For 8 Khukri Class (Project-25/25A Type) corvettes
	4	SS-N-25 ShShMS	ShShM system	(1996)	1998	(1)	For last 4 Khukri Class (Project-25A Type) corvettes

(96)	SS-N-25/X-35 Uran	ShShM	(1996)	1998	(24)	For last 4 Khukri Class (Project-25A Type) corvettes
(320)	SA-N-5 Grail/Strela-2M	ShAM	(1983)	1989-98	(200)	For 8 Khukri Class (Project-25/25A Type) corvettes
3	Head Net-C	Surveillance radar	1989	1998	(1)	For 3 Brahmaputra Class (Project-16A Type) frigates
3	Garpun	Fire control radar	(1993)	1998	(1)	For 3 Brahmaputra Class (Project-16A Type) frigates; for use with SS-N-25 ShShM system
3	SA-N-4/ZIF-22	ShAM system	(1989)	1998	(1)	For 3 Brahmaputra Class (Project-16A Type) frigates
(90)	SA-N-4 Gecko/Osa-M	ShAM	(1989)	1998	(20)	For 3 Brahmaputra Class (Project-16A Type) frigates
3	SS-N-25 ShShMS	ShShM system	1993	1998	(1)	For 3 Brahmaputra Class (Project-16A Type) frigates
8	Plank Shave	Surveillance radar	(1987)	1991-97	(8)	For 8 Tarantul-1 (Vibhuti) Class FAC
8	Bass Tilt	Fire control radar	(1987)	1991-97	(8)	For 8 Tarantul-1 (Vibhuti) Class FAC; for use with 76mm gun and AK-630 30mm CIWS
(160)	SA-N-5 Grail/Strela-2M	ShAM	1987	1991-97	(160)	For 8 Tarantul-1 (Vibhuti) Class FAC
8	SS-N-2 ShShMS	ShShM system	(1987)	1991-97	(8)	For 8 Tarantul-1 (Vibhuti) Class FAC
(104)	SS-N-2d Styx/P-21	ShShM	1987	1987-97	(104)	For 13 Tarantul-1 (Veer and Vibuthi) Class Class FAC
(4)	140mm RL	Naval MRL	(1985)	1987-97	(4)	For 2 Magar Class landing ships; designation uncertain
1	Fedko Class	Tanker	1995	1996	1	Indian designation Jyoti Class
3	Ka-31 Helix	AEW helicopter	(1997)		..	For Navy; deal worth \$29 m
(10)	MiG-21UM Mongol-B	Fighter/trainer ac	1995	1995	10	Ex-Russian Air Force
8	MiG-29SE Fulcrum-C	FGA aircraft	1994	1996	8	
2	MiG-29UB Fulcrum-B	Fighter/trainer ac	1995	1996	2	
(180)	AA-11 Archer/R-73	Air-to-air missile	1995	1996	(180)	For 10 MiG-29SE/UB fighter aircraft
40	Su-30MK Flanker	FGA aircraft	1996	1997	8	Deal worth \$1.55 b; incl 32 Su-30MKI version; option on licensed production of 120 more
(360)	AA-10c Alamo/R-27RE	Air-to-air missile	1996	1997	(60)	For Su-30MK/MKI FGA aircraft
(720)	AA-11 Archer/R-73	Air-to-air missile	(1996)	1997	(144)	For Su-30MK/MKI FGA aircraft
(750)	AA-12 Adder/R-77	Air-to-air missile	(1996)		..	For 125 MiG-21bis fighter aircraft; upgraded to MiG-21-93 and possibly also for MiG-29 fighter aircraft

Recipient	No. ordered	Weapon designation	Weapon description	Year of order/licence	Year(s) of deliveries	No. delivered/produced	Comments
	(800)	AT-6 Spiral/9M114	Anti-tank missile	(1995)	1998-98	(400)	For Mi-24 (Mi-25 and Mi-35) helicopters
	..	BM-9A52/BM-23	MRL	(1998)		..	
	(321)	M-46 130mm	Towed gun	(1991)	1994-95	321	Ex-Russian Army
	(250)	T-90	Main battle tank	(1998)		..	Deal worth \$750 m; no. ordered could be up to 315; may incl assembly or licensed production in India; reaction on Pakistani acquisition of 320 T-80UB tanks; status uncertain
	(20)	2S6M Tunguska	AAV(G/M)	(1996)	1997-98	(20)	Number ordered could be up to 50
	(320)	SA-19 Grison	SAM	(1996)	1997-98	(320)	For 20 2S6 AAV(G/M)s
	(6)	SA-12/S-300V	SAM system	(1998)		..	
	(400)	SA-16 Gimlet/Igla-1	Portable SAM	(1990)	1990-92	(400)	
Lic.	165	MiG-27M Flogger-J	FGA aircraft	1983	1984-97	(165)	Indian designation Bahadur
Lic.	753	BMP-2	IFV	1985	1988-92	(753)	Indian designation Sarath
Lic.	143	BMP-2	IFV	(1990)	1993-95	(143)	Indian designation Sarath
Lic.	375	T-72M1	Main battle tank	(1980)	1990-94	(375)	Indian designation Ajeya
Lic.	1 200	AT-4 Spigot/9M111	Anti-tank missile	1983	1990-94	(1 200)	For BMP-2 IFVs
Lic.	..	AT-5a Spandrel/9M113	Anti-tank missile	(1988)	1989-98	(8 750)	For BMP-2 IFVs
Lic.	8	Tarantul-1 Class	FAC(M)	1987	1991-97	8	Indian designation Vibhuti Class
Iran	2	Kilo Class/Type-877E	Submarine	1991	1992-93	2	Deal worth \$750 m; Iranian designation Tareq Class
	1	Kilo Class/Type-877E	Submarine	1993	1996	1	
	(122)	T-72M1	Main battle tank	1989	1993-96	122	Iranian designation Tareq Class
	(80)	BMP-2	IFV	1992	1993	80	
	(800)	AT-4 Spigot/9M111	Anti-tank missile	(1992)	1993	(800)	For 80 BMP-2 IFVs
	(2)	BMP-2	IFV	(1995)	1996	2	Designation uncertain
Lic.	..	T-72S1	Main battle tank	(1996)	1997-98	(30)	
	(21)	MiG-29 Fulcrum-A	Fighter aircraft	1995	1995-96	(21)	Ex-Russian Air Force; payment for Russian debt to Kazakhstan; incl 4 MiG-29UB trainer version
	(14)	Su-25 Frogfoot-A	Ground attack ac	1995	1997	(14)	Ex-Russian Air Force; payment for Russian debt to Kazakhstan

								Ex-Russian Air Force; payment for Russian debt to Kazakhstan
								For 1 SA-10c/S-300PMU SAM system
								For 15 Soju Class FAC; for use with 30mm guns
								For 15 Soju Class FAC
								For 15 Soju Class FAC; supplier uncertain
								For Taechong-2 (Mayang) Class patrol craft
								For 6 Sohung Class FAC; supplier uncertain
								More possibly produced for export
								Part of payment for Russian \$210 m debt to S. Korea
								For 33 T-80U tanks
								Part of payment for Russian \$210 m debt to S. Korea; incl for Marines; number could be up to 70
								For 33 BMP-3 IFVs
								Part of payment for Russian \$210 m debt to S. Korea; for technical evaluation
								Part of payment for Russian \$210 m debt to S. Korea
								Originally 12 planned but last 8 cancelled for financial reasons
								Deal worth \$600 m (offsets \$220 m incl \$150 m barter); incl 2 MiG-29UB trainer version; Malaysian designation MiG-29N and MiG-29NUB
								For 18 MiG-29SE FGA aircraft
								For Army; deal worth \$32 m
North Korea								
(38)		Su-27SK Flanker-B	FGA aircraft	(1995)	1996-97	(10)		
	1	SA-10c/S-300PMU SAM system	SAM system	(1998)		..		
	..	SA-10 Grumble/5V55R SAM	SAM	(1998)		..		
	15	Drum Tilt	Fire control radar	(1979)	1981-94	(15)		
	(15)	SS-N-2 ShShMS	ShShM system	(1979)	1981-94	(15)		
	15	Square Tie	Surveillance radar	(1979)	1981-94	(15)		
	5	Drum Tilt	Fire control radar	(1987)	1990-95	(5)		
	6	Square Tie	Surveillance radar	(1979)	1981-93	(6)		
	..	AT-4 Spigot/9M111	Anti-tank missile	(1987)	1991-98	(800)		
	(.)	SA-16 Gimlet/Igla-1	Portable SAM	(1989)	1992-98	(140)		
	(800)	SA-7 Grail/Strela-2	Portable SAM	(1985)	1986-93	(800)		
	(33)	T-80U	Main battle tank	1995	1996-97	33		
	(396)	AT-11 Sniper/9M119	Anti-tank missile	1995	1996-97	(396)		
	(33)	BMP-3	IFV	1995	1996-98	(33)		
	(528)	AT-10 Stabber/9M117	Anti-tank missile	1995	1996-98	(528)		
	(45)	AT-7 Saxhorn/9M115	Anti-tank missile	1995	1996	(45)		
	(45)	SA-18 Grouse/Igla	Portable SAM	1995	1996	(45)		
Laos	4	Mi-17 Hip-H	Helicopter	1997	1997-98	(4)		
Malaysia	18	MiG-29S Fulcrum-C	FGA aircraft	1994	1995	18		
	(216)	AA-11 Archer/R-73	Air-to-air missile	1994	1995	(216)		
Myanmar	5	Mi-17 Hip-H	Helicopter	1996	1997	(5)		
	7	Mi-17 Hip-H	Helicopter	1995	1995	7		
Pakistan	12	Mi-17 Hip-H	Helicopter	1995	1996	12		

Recipient	No. ordered	Weapon designation	Weapon description	Year of order/licence	Year(s) of deliveries	No. delivered/produced	Comments
Singapore	5	Mi-17 Hip-H	Helicopter	(1995)	1995	5	For Army
	350	SA-16 Gimlet/Igla-1	Portable SAM	1997	1998	(175)	Deal incl also 30 launchers; option on 500 more
	10	Mi-8T Hip-C	Helicopter	1993	1994	(10)	Ex-Russian Air Force
Tajikistan	19	Mi-17 Hip-H	Helicopter	(1994)	1995-96	(19)	Deal worth \$65 m; for Gendarmerie
	23	BTR-60P	APC	1993	1993	23	Ex-Russian Army; deal worth \$75 m incl 20 Mi-17 helicopters and 52 BTR-80 APCs; for Gendarmerie
Viet Nam	(174)	BTR-80	APC	1993	1993-95	174	Ex-Russian Army
	(40)	BTR-80	APC	1993	1993	(40)	Ex-Russian Army
	6	Su-27SK Flanker-B	FGA aircraft	(1994)	1995	6	Deal worth \$200 m; incl 1 Su-27UBK trainer version
	(72)	AA-11 Archer/R-73	Air-to-air missile	(1994)	1995	(72)	For 6 Su-27SK/UB fighter aircraft
	(6)	Su-27UBK Flanker-C	FGA/trainer ac	(1996)	1997-98	6	
	4	ST-68U	Surveillance radar	1994	1995-97	(4)	Designation uncertain
Turkey	2	Tarantul-1 Class	FAC(M)	1994	1996	2	Vietnamese designation HQ-371 Class.
	2	Plank Shave	Surveillance radar	1994	1996	2	On 2 Tarantul-1 Class FAC
	2	Bass Tilt	Fire control radar	1994	1996	2	On 2 Tarantul-1 Class FAC; for use with 76mm and 30mm guns
	2	SS-N-2 ShShMS	ShShM system	1994	1996	2	On 2 Tarantul-1 Class FAC
	(16)	SS-N-2d Styx/P-21	ShShM	(1994)	1996	(16)	For 2 Tarantul-1 Class FAC
	(80)	SA-N-5 Grail/Strela-2M	ShAM	(1994)	1996	(80)	For 2 Tarantul-1 Class FAC
Lic.	2	Cross Dome	Surveillance radar	1996	..	..	For 2 BPS-500 Type FAC
	2	Bass Tilt	Fire control radar	1996	..	..	For 2 BPS-500 Type FAC; for use with 76mm and AK-630 30mm guns
	2	SS-N-25 ShShMS	ShShM system	1996	..	..	For 2 BPS-500 Type FAC
	(16)	SS-N-25X-35 Uran	ShShM	1996	..	..	For 2 BPS-500 Type FAC
	(48)	SA-N-5 Grail/Strela-2M	ShAM	(1996)	..	..	For 2 BPS-500 Type FAC; designation uncertain
	2	BPS-500 Type	FAC(M)	1996	..	..	Vietnamese designation Ho-A Class
Lic.	(4)	BPS-500 Type	FAC(M)	(1998)	..	..	Vietnamese designation Ho-A Class

Source: SIPRI arms transfers database.

Abbreviations and acronyms

ac	Aircraft
AAV	Anti-aircraft vehicle
AEW	Airborne early-warning
AEW&C	Airborne early-warning and control
APC	Armoured personnel carrier
APC/CP	Armoured personnel carrier/command post
ASW	Anti-submarine warfare
CIWS	Close-in weapon system
FAC	Fast attack craft
FGA	Fighter/ground attack
IFV	Infantry fighting vehicle
Lic.	Licensed production
mm	millimetres

(M)	Missile-armed
MRL	Multiple-rocket launcher
SAM	Surface-to-air missile
SAR	Search and rescue
ShAM	Ship-to-air missile
ShShM	Ship-to-ship missile

Conventions

..	Data not available or not applicable
()	Uncertain data or SIPRI estimate
m	million (10 ⁶)
b	billion (10 ⁹)