EQUIPMENT OF THE WARSAW PACT

August 1983
BEGINNING IN THE LATE 60's AND CONTINUING TO THIS DATE, THE SOVIETS CONDUCTED A DRAMATIC INCREASE IN THE MECHANIZATION OF THEIR GROUND COMBAT FORCES. WITH THE INTRODUCTION OF A WIDE VARIETY OF NEW SELF-PROPELLED WEAPONS SYSTEMS, THEY MANAGED TO SIGNIFICANTLY INCREASE THE TACTICAL MOBILITY, FIREPOWER, AND SURVIVABILITY OF THOSE FORCES IN BOTH THE NUCLEAR AND CHEMICALLY CONTAMINATED BATTLEFIELD. THIS BOOKLET IS DESIGNED TO PROVIDE THE READER WITH AN APPRECIATION OF THE CAPABILITIES OF THE EQUIPMENT EMPLOYED BY THREE OF THE MAJOR MEMBERS OF THE WARSAW PACT.

THIS BOOKLET WAS PREPARED BY THE OOPFOR DETACHMENT, ACoF S, G2/DSEC, 1st INFANTRY DIVISION (MECH). IT IS AN UNCLASSIFIED DOCUMENT BASED ON INFORMATION DERIVED FROM OPEN SOURCES. USERS ARE ENCOURAGED TO SEND THEIR COMMENTS TO COMMANDER, 1st INFANTRY DIVISION (MECH), ATTN: AFZ-N-DS-CS, FT. RILEY, KS 66442.
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THE EQUIPMENT IN THE GROUP OF SOVIET FORCES GERMANY
### EQUIPMENT OF THE GROUP OF SOVIET FORCES, GERMANY

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1 - ARMORED PERSONNEL CARRIERS

BTR 40
ENTERED SERVICE IN 1951
CREW OF 2 + 8 PASSENGERS
PRIMARILY EMPLOYED TO CONDUCT ROUTE RECONNAISSANCE

BTR 60 P
ENTERED SERVICE IN 1962 - AMPHIBIOUS
CREW OF 2 + 15 PASSENGERS
80km/hr - ROAD SPEED; 10km/hr - WATER SPEED
CZF: 12.7mm MG
**BTR 60 PA**

ENTERED SERVICE IN 1964 - AMPHIBIOUS
COVERED VERSION OF BTR 60 P
CREW OF 2 + 9 PASSENGERS
ONE 7.62mm MG

**BTR 60 PB**

ENTERED SERVICE IN 1966 - AMPHIBIOUS
TURRETED VERSION OF BTR 60 PA
PRESSURIZED WITH AIR FILTRATION SYSTEM
ONE 14.5mm MG
ONE 7.62mm MG
REPLACED THE BTR 152 IN THE MOTORIZED RIFLE REGIMENT
BMP 1967

ENTERED SERVICE IN 1967 - AMPHIBIOUS
CREW OF 5 + 8 PASSENGERS
30km/hr - ROAD SPEED; 6km/hr - WATER SPEED
ARMAMENT: ONE 7.62mm CANNON
ONE COAXIAL 7.62mm MG
ONE SAGGER AT MISSILE
REPLACEMENT FOR THE BTR 50 AND BTR 152
EMPLOYED BY AT LEAST ONE REGIMENT OF THE MOTORIZED RIFLE DIVISION AND IN THE MOTORIZED RIFLE REGIMENT OF THE TANK DIVISION
HAS REPLACED THE PT-76 IN REGIMENTAL AND DIVISIONAL RECONNAISSANCE ELEMENTS

BMP MODEL 1974

2 periscopes and 4 firing ports on the right side

II - TANKS

T 55

ENTERED SERVICE IN 1961
WEIGHT 36 TONS
ARMAMENT: ONE 100mm GUN
ONE 7.62mm COAXIAL MG
ASSIGNED TO: the TANK BATTALION OF THE MRR (40)
the TANK BATTALION OF THE TR (31)
the TANK REGIMENT OF THE TD AND MRD (95)
the INDEPENDENT TANK BATTALION OF THE MRD (51)

T 55 A

SAME CHARACTERISTICS AS THE T 55 WITH
A 12.7mm AA MG
T 62

ENTERED SERVICE IN 1962
WEIGHT 38.5 TONS
ARMAMENT: ONE 115mm GUN
ONE 7.62mm COAXIAL MG
ASSIGNED TO: the TANK BATTALION OF THE MRR (40)
the TANK BATTALION OF THE TR (31)
the TANK REGIMENT OF THE TD AND MRD (95)

T 62 A

SAME CHARACTERISTICS AS THE T 62 WITH
A 12.7mm AA MG
T 64

INTRODUCED INTO THE G.S.F.G. IN 1976
WEIGHT 39 TONS
ARMAMENT: ONE 125mm CANNON
ONE 12.7mm MG
ONE 7.62mm MG (COAXIAL)

ASSIGNED TO: the TANK BN OF THE MRR (40)
the TANK BN OF THE TR (31)
the TANK REGT OF THE MRD AND TD (95)
the INDEPENDENT TK BN OF THE MRD (51)

STEADILY REPLACING THE T 55 AND THE T 62

T 64 COMMAND

NOTE: THE T 64, WHICH HAS BEEN IN SERVICE IN THE G.S.F.G. SINCE 1976, HAS OFTEN BEEN
CONFUSED WITH THE VERY SIMILAR T 72 (SHOWN ON THE NEXT PAGE).
T 72

ENTERED SERVICE IN 1976
WEIGHT 41 TONS
ARMAMENT: ONE 125mm CANNON
ONE 12.7mm MG (ON COMMANDER'S HATCH)
ONE 7.62mm COAXIAL MG

NOTE: THE T-72, WHICH WAS FIRST PRESENTED IN MOSCOW ON 7 NOVEMBER 1977, HAS NOT BEEN OBSERVED IN THE G.S.F.G. IT IS CURRENTLY ASSIGNED TO SEVERAL REGIMENTS IN THE USSR.
T 55 FITTED WITH TRAINING SNORKEL

T 55 FITTED WITH COMBAT SNORKEL
RECOVERY VEHICLES

SKP 5

- Weight: 25 tons
- Modified T 34 Chassis
- Crane capacity: 5 tons
- Can pull up to 30 tons

T 54 T1

- Weight: 32 tons
- Modified T 54 Chassis
- Winch capacity: 30 tons
- Equipped with a snorkel and can be submerged
T 54 T2

- Weight: 32 Tons
- Modified T 34 Chassis
- Crane Capacity: 1.5 Tons
- Winch Capacity: 30 Tons
- Capable of being submerged in water

JSU T w Crane

- Weight: 45.5 Tons
- Modified JSU Chassis
- Crane Capacity: 7 Tons
- Winch Capacity: 30 Tons
III - RECONNAISSANCE VEHICLES

BRDM

ENTERED SERVICE IN 1959
ARMAMENT: ONE 7.62mm OR 12.7mm MG
ASSIGNED TO: RECONNAISSANCE COMPANIES OF TR AND MRR
RECONNAISSANCE BN OF TD AND MRD
ALSO EMPLOYED AS A COMMAND VEHICLE

BRDM 2

ENTERED SERVICE IN 1966
ARMAMENT: ONE 14.5mm MG
ONE 7.62mm MG
PT 76
ENTERED SERVICE IN 1954
WEIGHT 14 TONS
ARMAMENT: ONE 76mm CANNON
ONE 7.62mm MG
ASSIGNED TO: RECONNAISSANCE COMPANY OF TR AND MRR (3)
RECONNAISSANCE BATTALION OF TD AND MRD (10)
BEING REPLACED BY THE BMP

BMP RECONNAISSANCE
ENTERED SERVICE IN 1976
COMMAND VEHICLE OF BMP EQUIPPED UNITS
MAIN DIFFERENCES WITH BMP 67 IS IN TURRET AND ABSENCE
OF SAGGER LAUNCH RAIL
IV - ARTILLERY

A - ANTITANK WEAPONS

1 - ANTITANK GUNS

SPG 9

ENTERED SERVICE IN 1968
73mm RECOILLESS GUN
300mm PENETRATION AT 1000m
REPLACES THE 82mm B-10
FOUND IN BTR EQUIPPED MRR'S

100mm T 12

100mm T 12 AND T 12 A

ENTERED SERVICE IN 1965
386mm PENETRATION AT 1000m
18 PIECES IN THE ARTILLERY REGT OF THE MRD
**SAGGER**

ENTERED SERVICE IN 1966
WIREGUIDED, WILL PENETRATE
BETWEEN 400 AND 500mm AT
3000 m
ASSIGNED TO THE MR BN
NORMALLY THERE ARE 3 MISSLES
CARRIED BY TWO MEN

**BRDM SAGGER**

ENTERED SERVICE IN 1965
EQUIPPED WITH 6 SAGGER MISSLES
ASSIGNED TO THE AT BATTERY OF THE MRR (9)
SAME CHARACTERISTICS AS THE PORTABLE SAGGER
B - TOWED ARTILLERY

122mm D-30 HOWITZER
ENTERED SERVICE IN 1963
MAXIMUM RANGE 15,300m
RATE OF FIRE 7 rds/min
CAPABLE OF 360° TRAVERSE
2 BATTALIONS (36) IN THE ARTILLERY REGT
OF THE MRD AND TD
1 BATTALION IN THE BTR EQUIPPED MRR
152mm D-1 GUN HOWITZER

ENTERED SERVICE IN 1943
MAXIMUM RANGE 12,400m
RATE OF FIRE 4 rds/min
1 REGIMENT OF 4 BATTALIONS (72) ASSIGNED TO THE FRONT
152mm D-20 GUN HOWITZER
ENTERED SERVICE IN 1955
MAXIMUM RANGE 18,500m
RATE OF FIRE 4 rds/min
1 BATTALION (18) ASSIGNED TO FRONT

152mm D-20 WITH PRIME MOVER
130mm GUN M-46

ENTERED SERVICE IN 1954
MAXIMUM RANGE 26,700m
RATE OF FIRE 5 rds/min
2 REGIMENTS OF 4 BATTALIONS (144) ASSIGNED TO FRONT
2 BATTALIONS (36) ASSIGNED TO ARMY
2 - SELF PROPELLED ARTILLERY

122mm SP

ENTERED SERVICE IN 1974
MAXIMUM RANGE 22000 WITH RAP ROUND (?)
AMPHIBIOUS
1 BATTALION (18) ASSIGNED TO BMP EQUIPPED MRR'S

152mm SP

ENTERED SERVICE IN 1973
MAXIMUM RANGE 33,000m WITH RAP ROUND (?)
NOT AMPHIBIOUS
1 BATTALION (18) IN THE ARTILLERY REGT OF THE
MRD AND TD (REPLACING THE 152mm D-1)
1 REGIMENT OF 4 BATTALIONS (72) ASSIGNED TO FRONT
(REPLACING THE 152mm D-1)
ARMORED VEHICLES EMPLOYED WITH ARTILLERY

BATTALION COMMAND VEHICLE

ARTILLERY COMMAND VEHICLE

ARTILLERY OBSERVATION VEHICLE
MULTIPLE ROCKET LAUNCHERS

LRM BM-21

ENTERED SERVICE IN 1964
CHASSIS: URAL 375
FORTY 122mm ROCKETS
MAXIMUM RANGE: SHORT ROCKET 14,000m
LONG ROCKET 21,000m
ONLY LIGHT MRL IN SERVICE WITH G.S.F.G.
1 BATTALION (18) IN ARTY REGT OF MRD AND TD
1 REGIMENT (72) ASSIGNED TO FRONT

LOADING THE BM-21 (5 MEN, 15 MINUTES)
C - TACTICAL MISSLES

1 - ROCKETS

FROG-7 on ZIL 135

ENTERED SERVICE IN 1965
EFFECTIVE RANGE FROM 15 to 70 KM
FROG 7 A - NUCLEAR ROUND
FROG 7 B - CHEMICAL ROUND

1 BATTALION (4) IN MRD AND TD

FROG-7 RESUPPLY VEHICLE

CHASSIS SIMILAR TO FROG 7
CAN CARRY UP TO 3 FROG MISSLES
2 - MISSLES

SS-1B SCUD A
ENTERED SERVICE IN 1957
CHASSIS USES MODIFIED JS-4
MAXIMUM RANGE: NUCLEAR 150KM
CHEMICAL 280KM

SS-1C SCUD-A MOD
ENTERED SERVICE IN 1961
CHASSIS USES MODIFIED JS-4
MAXIMUM RANGE: NUCLEAR & CHEMICAL 280KM

SCUD A IN FIRING POSITION
SCUD-B

ENTERED SERVICE IN 1985
CHASSIS USES MODIFIED MAZ 545
PERFORMANCE IDENTICAL TO MODIFIED SCUD A
MAZ 545 REPLACED SCUD'S TRACKED CARRIER

SCUD RESUPPLY VEHICLE

NOTE: THE SCUD BRIGADE FOUNDED AT ARMY LEVEL IS COMPOSED OF 12 SCUD B LAUNCHERS
SS-12 SCALEBOARD

ENTERED SERVICE IN 1967
CHASSIS USES A MODIFIED MAZ 543
MAXIMUM RANGE 900 KM

WEIGHT OF MISSLE: 8.5 TONS
LENGTH OF MISSLE: 11.7m
DIAMETER OF MISSLE: 1m
SSC-1A SHADDOCK

ENTERED SERVICE IN 1961
CHASSIS USES A ZIL 135
MAXIMUM RANGE: 550 KM
BOTH NUCLEAR AND CHEMICAL ROUNDS
WEIGHT OF MISSILE: 4.5 TONS
LENGTH OF MISSILE: 11.6m
DIAMETER OF MISSILE: 0.76m

NOTE: NEITHER THE SCALEBOARD NOR THE SHADDOCK HAVE BEEN OBSERVED IN THE G.S.F.G.
BOTH SYSTEMS COULD BE EMPLOYED AT ARMY LEVEL WITH UP TO 2 BRIGADES (12) SUPPORTING THE ARMY
ZSU-23-4

ENTERED SERVICE IN 1965
FOUR 23mm CANNON
ONE 'GUN DISH' FIRING RADAR
MAXIMUM EFFECTIVE RANGE: OPTICAL 2500m
RADAR 5200m
MAXIMUM RATE OF FIRE: 850 rds/min
ELEVATION: -10° to 85°
TRAVERSE: 360°
1 SECTION (4) IN THE AIR DEFENSE BATTERY OF THE MRR & TR

S-60 57mm

ENTERED SERVICE IN 1955
57mm AA GUN
MAXIMUM EFFECTIVE RANGE (WITH RADAR): 4000m
VELOCITY (INITIAL): 1000m/sec
MAXIMUM RATE OF FIRE: 120 rds/min
ELEVATION: -4° to 85°
TRAVERSE: 360°
UTILIZES THE 'FLAP WHEEL' RADAR
5 BATTERIES (6 GUNS IN A BATTERY) IN THE
DIVISION'S ANTIAIRCRAFT REGIMENT
6 BATTERIES IN THE AA REGIMENT AT ARMY AND
FRONT

(1) THE 'FLAP WHEEL' REPLACED THE SON-9 RADAR AND THE PHA20 6/60 CALCULATOR

NOTE: THE TWIN BARREL ZU-23-2, ZPU-2 and ZSU-57-2 ARE BEING PHASED OUT OF THE
G.S.F.G. INVENTORY
2 - SURFACE TO AIR MISSLES

SA-2 GUIDELINE

SA-2 CARRIED ON A ZIL 157 TRANSPORT-RESUPPLY VEHICLE

ENTERS SERVICE IN 1960
AIR DEFENSE MISSLE FOR MIDDLE AND HIGH ALTITUDE TARGETS
MAXIMUM RANGE 4,000m
EFFECTIVE RANGE 10,000m
PRIMARILY USED AGAINST TARGETS FLYING BETWEEN 300 TO 27,000m
MAXIMUM SPEED OF MISSLE: MACH 3.5
REACTION TIME FROM DETECTION TO FIRING IS 60 SECONDS
ASSOCIATED EQUIPMENT: ACQUISITION RADAR - SPOON REST
IFF RADAR - SCORE BOARD/A
FIRE CONTROL RADAR - FAN SONG
MISSLE WARHEAD: HE 200 KG
TWO STAGE PROPULSION SYSTEM USING PROPERGOL
SA-3 CARRIED ON A MODIFIED ZIL 157 TRANSPORT- RESUPPLY VEHICLE

ENTERED SERVICE IN 1961
AIR DEFENSE MISSLE FOR LOW AND MEDIUM LEVEL TARGETS
MAXIMUM RANGE 35 KM
PRIMARILY USED AGAINST TARGETS FLYING BETWEEN 300 to 15,000m
ASSOCIATED EQUIPMENT: ACQUISITION RADAR - FLAT FACE & SQUAT EYE
TARGET TRACKING & GUIDANCE RADAR - LOW BLOW
MISSILE WARHEAD: HE 40 KG
SA-4 GANEF

SA-4 on tracked chassis which also serves as firing platform

ENTERED SERVICE IN 1961

- IR DEFENSE MISSILE FOR MIDDLE AND HIGH ALTITUDE TARGETS
- MAXIMUM RANGE 92,000m
- EFFECTIVE RANGE 55,000m
- PRIMARILY USED AGAINST TARGETS FLYING BETWEEN 300 to 24,000m
- MAXIMUM SPEED OF MISSILE: MACH 2.5

ASSOCIATED EQUIPMENT:
- ACQUISITION RADAR - LONG TRACK
- FIRE CONTROL RADAR - PAT HAND
- ALTITUDE RADAR - THIN SKIN

MISSILE WARHEAD: HE 250 KG

FOUR SOLID-PROPELLANT WRAP-AROUND BOOSTERS

1 BRIGADE OF 3 BATTALIONS (27) COMPRISED OF 3 BATTERIES WITH 3 SA-4 PER ARMY
2 BRIGADES OF 3 BATTALIONS (54) ASSIGNED TO FRONT
SA-6 GAINFUL

SA-6 on tracked chassis which also serves as firing platform

Entered service in 1967
Air defense missile for low and middle altitude targets
A mobile air defense system designed to provide air defense coverage
   for the troops in the field
Maximum range 21,000m
Effective range 17,000m
Primarily employed against targets flying between 50 to 13,000m
Maximum speed of missile: Mach 2.5
Reaction time from detection to firing is from 10 to 15 sec.
Associated equipment: Acquisition radar - Long track
                     Fire control radar - Straight flush
                     Altitude radar - Thin skin
Missile warhead: HE 56 kg
Solid fuel propulsion with one booster
2 regiments (40) consisting of 5 batteries (20) of 4 SA-6 per army
SA-7 GRAIL

ENTERED SERVICE IN 1969
MAN PORTABLE ATR DEFENSE MISSLE FOR LOW ALTITUDE TARGETS
MAXIMUM RANGE 5,600m
EFFECTIVE RANGE 5,500m
PRIMARILY EMPLOYED AGAINST TARGETS FLYING BETWEEN 15 to 2,500m
MAXIMUM SPEED OF MISSLE: 450 m/sec
INFRA-RED HOMING
THE FIRER NORMALLY WEARS AN IFF SYSTEM ON HIS HELMET
SOLID FUEL PROPULSION
INEFFECTIVE AGAINST TARGETS FLYING AT MORE THAN 810 KM/HR
3 SA-7 IN A MOTORIZED RIFLE COMPANY and 3 SA-7 IN THE RECON COMPANY
OF THE MRR (TOTAL OF 30 SA-7 IN THE MRR).
6 SA-7 IN THE TANK REGIMENT (5 IN THE RECON COMPANY AND 5 IN THE
HEADQUARTERS ELEMENT)
SA-8 GECKO

SELF CONTAINED AIR DEFENSE SYSTEM - SA 8 GECKO

ENTERED SERVICE IN 1975
MOUNTED ON AN AMPHIBIOUS 6 x 6 CHASSIS
AIR DEFENSE MISSILE FOR LOW AND MIDDLE ALTITUDE TARGETS
BEING BOTH MOBILE AND SELF CONTAINED THE SYSTEM
PROVIDES MOBILE AIR DEFENSE COVERAGE FOR MANEUVER UNITS
MAXIMUM RANGE 14,000 m
EFFECTIVE RANGE 11,000m
PRIMARILY EMPLOYED AGAINST TARGETS FLYING BETWEEN 50 TO 8500m
MAXIMUM SPEED OF MISSILE: MACH 2.2
REACTION TIME FROM DETECTION TO FIRING IS FROM 10 TO 12 sec
CARRIES THE LAND ROLL RADAR SYSTEM WHICH COMBINES ACQUISITION,
SURVEILLANCE AND FIRE CONTROL RADARS
MISSILE WARHEAD: HE 25 KG
SOLID (PROPARGOL) PROPELLANT
1 REGIMENT (20) OF 5 BATTERIES (4 SYSTEMS) ARE CURRENTLY
REPLACING THE AIR DEFENSE REGIMENT IN DIVISIONS EQUIPPED
WITH THE S-60 57mm AD GUN
(1) CONTAINS A TELEVISION SYSTEM FOR USE IN CLEAR WEATHER
SA-9 GASKIN on BRDM-2

MISSILE- LAUNCHER FOR LOW ALTITUDE TARGETS
HEAVY WEIGHT, AIR DEFENSE SYSTEM
MAXIMUM RANGE 11,000 ft.
EFFECTIVE RANGE 7,000 ft.
CAPABLY ENGAGES TARGETS FLYING BETWEEN 500 to 5000 ft.
WEIGHT OF MISSILE 740 lb.
WEIGHT OF UNDER ARM OF STABILIZATION SYSTEM
TARGETS ENGAGED WITH THIS SYSTEM ARE THE 2S1 AND 2S3 AND CAN USE
THE WEAPON'S APAR SYSTEM WITHIN RANGE OF APPROACHING TARGETS
MISSILE LAUNCHER 8,000 lb.
SOFT TEL. PROTECTION
MISSILE LAUNCHER ON TANK CARDS READY TO FIRE AND TRAVEL ON THE
VEHICLE IN STOWAGE CONTAINERS
1 SECTION ON EACH WAGON BATTERY OF THE EK AND WIP

EFFECTIVE RANGE
FULLY LOADED
V - ENGINEERS
A - COMBAT ENGINEERS

IMR

ENTERED SERVICE IN 1972
WEIGHT 38 TONS
MODIFIED T 54 CHASSIS
CRANE CAPACITY: 11 TONS AT 6m
               6 TONS AT 9m

CAN GRADE 360m/hr
4 PER ENGINEER BATTALION OF TD AND MRD
K-61
CAN CARRY A 5 TON LOAD IN WATER
MAXIMUM WATER SPEED 10 km/hr
12 PER ENGINEER BATTALION IN
THE TD AND MBD
24 PER ARMY

PTS
CAN CARRY A 10 TON LOAD IN WATER
MAXIMUM WATER SPEED 15 km/hr
REPLACING THE K 61

P&K TRAILER ASSOCIATED WITH PTS
2 - AMPHIBIOUS FERRY

GSP

HEAVY AMPHIBIOUS FERRY

GSP FERRY CONSISTS OF A RIGHT AND LEFT HALF FERRY THAT ARE LINKED TOGETHER.

CARRYING CAPACITY IN WATER: 50 TONS

MAXIMUM SPEED IN WATER: 8 KM/HR

12 PER ENGINEER BATTALION OR TD AND MRD

24 PER AMPHIBIOUS M35
EMPLOY THE KRAZ 214 or 255/B
50 TON TREADWAY BRIDGE
LENGTH OF SPAN: 10.5m
TIME TO EMPLACE A BRIDGE WITH 4 SPANS: 40 min
HEIGHT OF TRESTLE LEGS: 3m
4 PER ENGINEER COMPANY OF THE MRR
8 IN THE ENGINEER BATTALION OF THE TD AND MRD
MTU-20

TANK LAUNCHED BRIDGE
EMPLOYS A MODIFIED T-54 CHASSIS
LENGTH OF SPAN: 19.66m
CLASS 60
REPLACING THE MTU-T-54
1 PER ENGINEER COMPANY OF THE MRR
4 PER ENGINEER COMPANY OF THE TD
4 PER ENGINEER BATTALION OF THE MRR
6 PER ENGINEER BATTALION OF THE TD

MT-55

TANK LAUNCHED BRIDGE
BUILT IN CZECHOSLOVAKIA; USED THROUGHOUT THE WARSAW PACT
EMPLOYS A MODIFIED T-54 CHASSIS
LENGTH OF SPAN: 20m
CLASS 60
TIME TO LAUNCH: 3 min
NORMALLY FOUND WITH THE MTU-20
PMP COMPANY CONTAINS:
- 2 BOW PONTONS
- 16 CENTER SECTIONS

A PMP COMPANY CAN FORM:
- 1 120m CLASS 50 BRIDGE
- OR
- 4 CLASS 80 FERRIES

TIME TO EMPLACE A 120m BRIDGE: 30 min

1 PMP COMPANY IN THE ENGINEER BATTALION OF THE MRD AND TD
6 to 8 COMPANIES AT ARMY AND FRONT ENGINEER REGIMENT
EQUIPMENT ASSOCIATED WITH THE PMP

BMK 150
POWERED BY 2 62 HP MOTORS
6 PER PMP COMPANY

BMK-T
POWERED BY A 62 HP MOTO
6 PER PMP
6 PER PMP AND THE
UNITED STATES MILITARY
C - SPECIAL PURPOSE EQUIPMENT

1 - DITCHING MACHINES

**BTM**

- Maximum Trench Depth: 1.5m
- Width of Trench: 0.6m
- Can dig a 0.8m deep trench at a rate of 1100m/hr
- 1 BTM per Engineer Company of the MRR and TR
- 4 BTM in the Engineer Battalion of the MRD and TD

**MDK-2**

- Maximum Trench Depth: 4.5m
- Width of Trench: 4m
- Can dig 300 cubic meters per hour
- An Army Engineer asset that can be assigned to Division level
2 - EARTHMOVING EQUIPMENT

BTU PLOW
IS NORMALLY FITTED TO A TANK IN APPROXIMATELY 90 min
CAN MOVE 100 to 200 CUBIC METERS OF EARTH PER HOUR
3 PER ENGINEER COMPANY IN THE MRR AND TR

BAT-M
ARTILLERY TRACTOR WITH DOZER BLADE AND CRANE
REPLACING THE OLDER MODEL BAT
DOZER BLADE IS HYDRAULICALLY OPERATED
1 PER ENGINEER COMPANY IN THE MRR AND TR
8 PER ENGINEER BATTALION IN THE MRRD AND TD

E-305 V
CRANE SHOVEL
CRANE CAPACITY 5 TONS
SHOVEL CAPACITY 0.3 CUBIC METERS
2 PER ENGINEER COMPANY OF THE TR AND MRR
5 PER ENGINEER BATTALION IN THE TD AND MRRD
ALSO FOUND AT ARMY LEVEL.
3- MINE CLEARING EQUIPMENT

GAZ 69 DIM

3 PER ENGINEER COMPANY IN THE MRR

UAZ 469 DIM

REPLACING THE GAZ 69 DIM
KMT 4

MINE CLEARING ROCKETS
12 PER ENGINEER COMPANY IN
THE MRR AND IR

KMT 5 : REPLACING THE KMT-4

T55 with Mine Clearing Rocket
4 - MINE LAYERS

PMR 60

MINE LAYER
5. PER ENGINEER COMPANY OF THE MRK AND TR
4. PER ENGINEER BATTALION IN THE TD AND VDO

PMR 3

REPLACING THE PMR 60

GMZ

TRACKED MINE LAYER
7. PER ENGINEER BATTALION IN THE TASK DIVISION
VI - N.B.C.

A - NBC RECONNAISSANCE VEHICLES

BRDM RKh

Equipped with two articulated rails that permit the vertical implantation of flags to indicate contaminated areas or routes through these areas.

4 per N.B.C. section of the MRR and TR
6 per reconnaissance battalion of the MRR and TD

BRDM-2 RKh

Employed with the BRDM RKh.
In the photo the rails are in the travel position.
B - DECONTAMINATION VEHICLES

ARS-12
DECONTAMINATION TANKER
ASSIGNED TO THE N.B.C. COMPANY OF
THE MRR AND TR AND THE N.B.C.
BATTALION OF THE MRD AND TD

ARS-14
GRADUALLY REPLACING THE ARS-12
TMS-65
DECONTAMINATION VEHICLE
EMPLOYS A JET OF HOT AIR AND
A LIQUID DECONTAMINATION
SPRAY
1 TMS-65 CAN DECONTAMINATE FROM
35 to 60 VEHICLES AN HOUR
ASSIGNED TO THE N.B.C. BATTALION
OF THE MRD AND TD

GAZ-66 : DECONTAMINATION
DECONTAMINATION VEHICLE
ASSIGNED TO THE N.B.C. BATTALION OF
THE MRD AND TD
DDA-66
DECONTAMINATION VEHICLE
ASSIGNED TO THE N.B.G. COMPANY
OF THE MRR AND TR AND TO THE
ENGINEER BATTALION OF THE MRD
AND TD
VII - TACTICAL TRUCKS

A - GENERAL PURPOSE

M-72

TWO VERSIONS: WITH SIDECAR
WITHOUT SIDECAR
ASSIGNED TO RECONNAISSANCE UNITS AT
BOTH REGIMENT AND DIVISION LEVEL

UAZ 469

CARRYING CAPACITY 500 KG
REPLACING THE CAZ-69
B - 'GAZ' SERIES

**GAZ-69**

4 x 4  
CARRYING CAPACITY 500 KG  
FOUND IN ALL UNITS

**GAZ-63**

4 x 4  
CARRYING CAPACITY 2 TONS

**GAZ-66**

4 x 4  
CARRYING CAPACITY 2 TONS  
REPLACING THE GAZ-63
C - 'URAL' SERIES

URAL-375
6 x 6
CARRYING CAPACITY 4.5 TONS

URAL-377
6 x 4
CARRYING CAPACITY 7.5 TONS
D - 'ZIL' SERIES

ZIL-130
4 x 2
CARRYING CAPACITY 5 TONS

ZIL-131
6 x 6
CARRYING CAPACITY 5 TONS

ZIL-135
8 x 8
CARRYING CAPACITY 10 TONS
ZIL-157
6 x 6
CARRYING CAPACITY 4.5 TONS

ZIL-164
6 x 6
CARRYING CAPACITY 4 TONS
E - 'KRAZ' SERIES

KRAZ-214
6 x 6
CARRYING CAPACITY 7 TONS

KRAZ-255 B
6 x 6
CARRYING CAPACITY 7.5 TONS
F - HEAVY TRANSPORTS

MAZ-537 with semitrailer TchSAP-524.7-6
EMPLOYED AT FRONT
CARRYING CAPACITY 60 TONS

MAZ-537
TRACTOR
525 HP
VIII  -  SPECIAL PURPOSE VEHICLES
A  -  PRIME MOVERS

BTR-152
ENTERED SERVICE IN 1948
WEIGHT 9 TONS
HAS BEEN REPLACED IN THE
G.S.F.G. AS A TROOP
TRANSPORT VEHICLE
PRIMARILY USED AS AN AMMO
TRANSPORT OR TO TOW
MINELAYERS, ETC.

BTR-50 PK
ENTERED SERVICE IN 1957
WEIGHT 14.5 TONS
HAS BEEN REPLACED IN THE
G.S.F.G. AS A TROOP
TRANSPORT VEHICLE
PRIMARILY USED TO TOW
RADARS, ETC.
MT-LB 1970

ENTERED SERVICE IN 1970
WEIGHT 11 TONS
AMPHIBIOUS USING ITS TRACKS FOR PROPULSION
MAXIMUM ROAD SPEED 50 KM/HR
MAXIMUM WATER SPEED 6 KM/HR
ARMAMENT: ONE 7.62mm MG
PRIME MOVER FOR 100mm T-12 AT GUN

NOTE: THE MT-LB, EMPLOYED AS AN ARMORED PERSONNEL CARRIER, HAS BEEN STATIONED WITH SOME MRR'S IN THE U.S.S.R.
B - COMMAND/SIGNAL VEHICLES

BTR-152 U

ENTERED SERVICE IN 1950
EMPLOYED AS EITHER A COMMAND VEHICLE OR AS A COMMUNICATIONS VEHICLE
STILL WIDELY DEPLOYED THROUGHOUT THE UNITS OF THE G.S.F.G.

BTR-50 PU

ENTERED SERVICE IN 1957
EMPLOYED AS EITHER A COMMAND VEHICLE OR AS A COMMUNICATIONS VEHICLE
STILL WIDELY DEPLOYED THROUGHOUT THE G.S.F.G.
BRDM-2 COMMAND
ENTERED SERVICE IN 1966
EMPLOYED AS EITHER A COMMAND
OR A COMMUNICATIONS VEHICLE
OFTEN EMPLOYED WITH THE COMMAND
VERSION OF THE BRDM-1

BTR-60 PU
ENTERED SERVICE IN 1964
EMPLOYED AS EITHER A COMMAND
OR A COMMUNICATIONS VEHICLE.
THE EQUIPMENT IN
THE
CZECHOSLOVAKIAN ARMY
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1 - ARMORED PERSONNEL CARRIERS

**OT-64 MODEL 1**

ENTERED SERVICE IN 1967 - AMPHIBIOUS
CREW OF 3 + 8 PASSENGERS
TURRETED VERSION OF OT-64 MOD 1
PRESSURIZED FOR OPERATION IN CONTAMINATED AREAS
1 14.5mm MG
1 7.62mm MG
ASSIGNED TO THE MRR OF THE MRD

**OT-64 MODEL 3**

ENTERED SERVICE IN 1962 - AMPHIBIOUS
CREW OF 2 + 12 PASSENGERS
MAXIMUM SPEED: ON ROAD - 95 km/hr
               IN WATER - 9 km/hr
PROBABLY ARMED WITH 2 'SAGGER' MISSILES
ASSIGNED TO THE MRR OF THE MRD
OT-62 MODEL 1

ENTERED SERVICE IN 1964 - AMPHIBIOUS
CREW OF 5 + 15 PASSENGERS
MAXIMUM SPEED: ON ROAD - 60 km/hr
IN WATER - 11 km/hr
PRESSURIZED WITH AIR FILTRATION SYSTEM
ASSIGNED TO THE MRR OF THE TD

OT-62 MODEL 2

ENTERED SERVICE IN 1964
CARRIES AN 82mm RECOILLESS RIFLE
1 .50 MG IN THE TURRET
ASSIGNED TO THE MRR OF THE TD
MAY ALSO SERVE AS THE PLATFORM FOR THE M-59A RECOILLESS
ANTITANK RIFLE
2 - RECONNAISSANCE VEHICLES

OT-65 MODEL A

ENTERED SERVICE IN 1964 - AMPHIBIOUS
ASSIGNED TO RECONNAISSANCE:
   RECON COMPANY OF MRR AND TR
   RECON BATTALION OF MRD AND TD
UTILIZED AS A COMMAND AND/OR COMMUNICATIONS VEHICLE
A RECONNAISSANCE NBC VERSION EXISTS

OT-65 MODEL B

ENTERED SERVICE IN 1964
ARMAMENT: TURRET EQUIPPED WITH A 7.62mm MG
A 82mm RECOILLESS RIFLE MAY ALSO BE MOUNTED
3 - ARTILLERY

A - TOWED ARTILLERY

85mm MODEL 55

ENTERED SERVICE IN 1955
MAXIMUM RANGE 16,000m
RATE OF FIRE: 15 rds/min
MODIFIED VERSION OF THE 85mm M 52
CAN BE USED IN A DIRECT FIRE OR AN
INDIRECT FIRE MODE
ASSIGNED TO BOTH ANTITANK AND
DIVISIONAL ARTILLERY UNITS

100mm MODEL 53

ENTERED SERVICE IN 1953
MAXIMUM RANGE 21,000m
RATE OF FIRE: 8 rds/min
CAN BE USED IN A DIRECT FIRE OR AN
INDIRECT FIRE MODE
ASSIGNED TO BOTH ANTITANK AND
DIVISIONAL ARTILLERY UNITS
B - AREA WEAPONS

BM-21 on TATRA 813

ENTERED SERVICE IN 1972
UTILIZES A TATRA 813 CHASSIS
MAXIMUM RANGE: SHORT ROCKET - 14,000m
                  LONG ROCKET - 21,000m
CARRIES 40 122mm ROCKETS (WITH AN ADDITIONAL
                  10 ROCKETS IN AN ONBOARD RELOADER)
RELOADER OPERATES HYDRAULICALLY
TIME TO RELOAD: 2 to 3 min
ASSIGNED TO THE MRL BN OF THE MRD AND TD
130mm MRL MODEL 51

ENTERED SERVICE IN 1951
MOUNTED ON A 6 x 6 PRAGA-V3S CHASSIS
MAXIMUM RANGE 8200m
CARRIES 32 130mm ROCKETS
A SECOND UNIT OF FIRE IS CARRIED
A SECOND UNIT OF FIRE IS CARRIED ON A
CAISSON TOWED BEHIND THE LAUNCHER
TIME TO RELOAD: 10 min
ASSIGNED TO THE MRL BY OF THE MRL AND TD
TWIN BARREL 30mm MODEL 53

ENTERED SERVICE IN 1953
TWIN BARREL 30mm
EFFECTIVE RANGE: 1500m
MAXIMUM RANGE: 10,000m
RATE OF FIRE: 900 rds/min

TWIN BARREL 30mm MODEL 53/59
ON PRAGA-V3S
IDENTICAL TO BT 30 MLE 53

TWIN BARREL 30mm MODEL 53/59
ON PTS
IDENTICAL TO THE BT 30 MLE 53
57mm MODEL 56

ENTERED SERVICE IN 1956
CZECK COPY OF S-60 57mm
MAXIMUM RATE OF FIRE: 160 rds/min
UTILIZES THE SAME TYPE OF AMMUNITION AS THE S-60

85mm MODEL 53

ENTERED SERVICE IN 1953
CZECH VERSION OF 85-m KS-18 CANNON
RATE OF FIRE: 12 rds/min
MAXIMUM RANGE 16,000m
EFFECTIVE RANGE (WITH RADAR): 8,000m
ASSIGNED TO THE ADA REGIMENT OF THE MRD AND TD
MT-55

Tank launched bridge
Utilizes a modified T 54 chassis
Length of span: 20m
Class: 60
Time to employ: 3 min
Same echelon of employment as the G.S.F.G. units (page 40)

CZECH VERSION
OF PMP BRIDGE
On Tatra 813 chassis

CZECH VERSION OF TMM BRIDGE
AM-50
On Tatra 813 chassis
B - SPECIALIZED EQUIPMENT

TATRA 813 BZ-D

DOZER BLADE ADAPTED TO THE TATRA 813 MODIFIED
CAN MOVE 50 CUBIC METERS IN AN HOUR

DOK PLOW

UTILIZES A TATRA 255 HP DIESEL ENGINE
DIESEL-ELECTRIC PROPULSION
CAN MOVE 70 to 100 CUBIC METERS IN AN HOUR
5 - TACTICAL TRUCKS

PRAGA S5T

4 x 2
CARRYING CAPACITY 5 TONS

SKODA 706 RT

4 x 2
CARRYING CAPACITY 8.6 TONS

PRAGA V3S

6 x 6
CARRYING CAPACITY 3.3 TONS (T.T.)
TATRA 805

4 x 4
CARRYING CAPACITY 1.5 TONS (T.T.)

TATRA 111

6 x 6
CARRYING CAPACITY 10 TONS (ON ROADS)

TATRA 138

6 x 6
CARRYING CAPACITY 8 TONS (T.T.)
NUMEROUS VERSIONS

TATRA 813

6 x 6
CARRYING CAPACITY 8.5 TONS (T.T.)
NUMEROUS VERSIONS
CHASSIS IS BASIS FOR OT-64
6 - MISCELLANEOUS APC'S

OT-810

Based on a German vehicle of the Second World War.
The only half-track currently in any of the Warsaw Pact armies.
Weight 8.5 tons.
Has been replaced as an APC primarily used as a field ambulance,
or prime mover for towed artillery.
THE EQUIPMENT IN
THE
EAST GERMAN ARMY (N.V.A.)
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1 - ARMORED RECOVERY VEHICLE

T-54-T MODEL D

WEIGHT 35 TONS
UTILIZES A MODIFIED T 54 CHASSIS
CRANE CAPACITY 20 TONS
WINCH CAPACITY 30 TONS
2 - ARTILLERY

A - TOWED ARTILLERY

122mm M-30

ENTERED SERVICE IN 1938
EAST GERMAN VERSION OF SOVIET 122mm M 30
MAXIMUM RANGE 11,800m
MAXIMUM RATE OF FIRE: 5 to 6 rds/min
2 BATTALIONS (36) in ARTILLERY REGIMENT
OF THE MRD AND TD
1 BATTERY (6) IN THE MRR

B - AIR DEFENSE ARTILLERY

100mm KS-19

ENTERED SERVICE IN 1949
EAST GERMAN VERSION OF
SOVIET 100mm KS19
MAXIMUM RANGE WITH RADAR
IS 13,000m
MAXIMUM RATE OF FIRE:
12 rds/min
1 REGIMENT (36) per ARMY
3 - ENGINEERS

ADK III/3 'PUMA'
DIESEL-ELECTRIC CRANE
LIFT CAPACITY 6.3 TONS
ASSIGNED TO THE ENGINEER BATTALION
OF THE TD’S MRR AND THE ENGINEER
REGIMENT AT ARMY

BLG-60 TANK LAUNCHED BRIDGE
EAST GERMAN VERSION OF MT 55
LENGTH OF SPAN 20m
MODIFIED T 54 CHASSIS
CLASS 50
CAN BE SUBMERGED IN WATER
4 - TACTICAL TRUCKS

A - LIGHT VEHICLES

TRABANT 601/A

4 x 2
4 PASSENGERS
100 km/hr
EMPLOYED BY BORDER GUARD UNITS

P 3

4 x 4
CARRYING CAPACITY 0.7 TONS
95 km/hr
EMPLOYED BY ALL UNITS
B - HEAVY TRANSPORTS

ROBUR LO 1800 A

4 x 4
CARRYING CAPACITY 1.8 TONS (T.T.)
80 km/hr
NUMEROUS VERSIONS

W 50 LA/A

4 x 4
CARRYING CAPACITY 3 TONS (T.T.)
HEAVY VERSION OF THE W 50 L/A

W 50 LA/A

6 x 6
CARRYING CAPACITY 5.3 TONS
**W 50 LA/A**

4 x 2  
CARRYING CAPACITY 4.7 TONS  
80 km/hr

NUMEROUS VERSIONS

---

**G5**

6 x 6  
CARRYING CAPACITY 3.5 TONS (T.T.)  
60 km/hr

NUMEROUS VERSIONS
END

FILMED

4-85

DTIC