KAMAZ

Catalogue of export products

KAMAZ

TABLE OF CONTENTS

FOUR TOUCHES TO SKETCH OUT A PORTRAIT OF KAMAZ

If one sets out to compile a verbal profile of the KAMA River Automotive Works, one does not have to go through a mental debate of how to do it. The short cut is to take a walk through the production shops where manipulators smartly go about their daily jobs, where VDUs cheerfully blink their screens at each other, or just stop by the factory laboratory or get a glimpse of a facility which produces electronics for KAMAZ truck. And that will give you a pretty good idea that **KAMAZ means technological progress.** This powerful conglomerate has 16 plants. By the sheer scale and rate of construction KAMAZ was an unprecedented project both in Soviet and world industry.

The automotive complex in Naberezhnye Chelny had been conceived of and brought to fruition as a new concept plant with maximum production rate and superior labour organisation. Nowadays the cumulative load carrying capacity of the trucks produced annually exceeds that of any other Soviet auto factory.

Thousands upon thousands of units of production equipment, hundreds of automatic lines are installed in the factory buildings. The average automation and mechanization level in manufacturing processes throughout the company amounts to more than 80 per cent while in some areas it is over 90 per cent.

The production capacity of KAMAZ Foundry Division is in excess of half a million tons of various castings in gray, malleable iron, steel or non-ferrous metals yearly. The Soviet Union has never before had such a huge Foundry. Sophisticated technology ensures high dimensional accuracy which in turn reduces the casting weight and cuts back upon the losses in subsequent machining operations. For the first time in world manufacturing practices KAMAZ Forge has completely abandoned the use of hammers and the heating-up of workpieces in furnaces.

In-process control incorporated in machine tools, automatic tool set-up devices as well as a system of test stands make sure that each component, sub-assembly or assembly are manufactured to pre-set dimensions and parameters. Virtually all areas of the day-to-day running of the company are supervised by the multi-purpose automated management system: project development and engineering, preparation and progress of production, personnel management, status of housing scheme etc.

KAMAZ has set up its own powerful computer center. The so-called unmanned technology is becoming a permanent feature of KAMAZ with every passing day: CNC machine tools and machining centers, flexible manufacturing cells.

KAMAZ means daring engineering thought

There is every reason to say that KAMAZ - made trucks have earned the reputation of a modern cost-efficient type of vehicle in trucking operations. Experience in a wide use of KAMAZ trucks in national economy has shown that they measure up to the most stringent requirements.

Many anticipated parameters — cost-effectiveness, production rate, average commercial speed have been fully achieved and some of them have been considerably surpassed. More intensive operation is proof of structural strength and reliability.

State-of-the-art designs, high technological level in manufacture make it possible to develop models and modifications which conform to various countries' national standards and take into account climatic and operational restrictions.

But KAMAZ trademark does not stand only for highly automated manufacturing processes, its computer center, Research & Engineering Center, its own heat generating utility or personal computer manufacture. It does not only suggest hundreds of thousands of trucks running the roads of 50 foreign countries.

KAMAZ means professionalism and expertise
More than 10 thousand workers employed by KAMAZ have had special secondary training or have a college degree, every second worker holds a high qualification grade. Vocational schools affiliated to KAMAZ, a technical school of automotive mechanics and a polytechnic train personnel for KAMAZ. Two thousand managerial staff and technicians undergo specially targetted course of training at a branch of refresher training institute run by the Ministry.
KAMAZ also epitomizes youthfulness. Average age in Naberezhnye Chelny still remains 27 years. A city with white facaded buildings, straight-as-an-arrow avenues, spouting fountains and green public gardens is a suitable home for its half a million young population. 60 different nationalities of the U.S.S.R. live, work, study here side by side in a friendly family. This is especially important because at the present day stage of technology, in a world of robots and computers, it is hard to find a more sure guarantee of success than **youthful dynamism complemented by experience and friendship.**
And this is what makes KAMAZ tick.

KAMAZ

I. Trucks:

I. Any cargoes at all latitudes are handled by various models and modifications of KAMAZ trucks

Hundreds of thousands of vehicles made by KAMAZ are operated in the areas of the Far North and in the tropics, in deserts and high mountainous terrain. The trucks have many applications. They are reliable in operation at ambient temperatures ranging from +45 to −40 degrees Celsius, relative humidity — up to 98 per cent at +35 degrees C, dust contamination — up to 1.0 g/cm^3 and wind speed — up to 20 meters per second. With approriately modified traction and dynamics KAMAZ trucks are capable of negotiating ascents 4000 meters high above sea level.

Adequate combination of power rating, speed and load lifting capacity ensures proper vehicle operation from the point of view of economy. Easy-to-maneuver and durable trucks have earned drivers' acclaim. KAMAZ trucks are responsive to driver's control, easy to maintain and to repair.

Tractive units KAMAZ-53212, KAMAZ-54112 with increased load lifting capacity are especially useful in carrying lengthy cargoes, they are economical on high speed long hauls.

Dump trucks KAMAZ 55111 are widely used on construction sites and in quarries.

Availability of dumping body heating system facilitates truck unloading in winter. For agricultural applications dump truck tractive unit KAMAZ-55102 with two side unloading is available, so is vehicle chassis KAMAZ-55113 with swap bodies which increase operation efficiency 1.5 times.

All-wheel-drive off road vehicles KAMAZ-4310, KAMAZ-43105 are used for personnel transportation and cargo transportation in cross country conditions. Especially efficient when combined with a trailer to form a road train. The units feature uphill gradient of up to 30 degrees and fordable depth of up to 1.5 m.

Two-axle trucks KAMAZ-5325, KAMAZ-5425, KAMAZ-5315, KAMAZ-5415 are new models of KAMAZ trucks. Their efficiency is achieved owing to lower fuel consumption, reduced use of materials, reduced vehicle proper weight and higher load lifting capacity.

A range of **gas diesel trucks** has been developed. They operate on a mixture of diesel fuel and compressed gas. Their technical performance data are not inferior to the previous models, but they are more economical due to low cost of compressed gas.

КАМАЗ

5320

ENGINE

- Diesel, KAMAZ-740
- Cylinder arrangement, number of cylinders . . . . . V 8
- Diameter/Piston stroke, mm 120/120
- Displacement, cubic cm . 10850
- Horsepower at 2600 rpm . . . . . 220 HP
- Maximum torque, kgm . . . 68

GEARBOX

- Mechanical, ten speed

CLUTCH

- Friction type, dry, two-plate

MAXIMUM SPEED, km per hour

- At gear ratio of final drive 6.53 90

WHEELS

- Diskless, rim . . . . . 7.0—20
- Tyres . . . . . 9.00—20 R

ELECTRICS

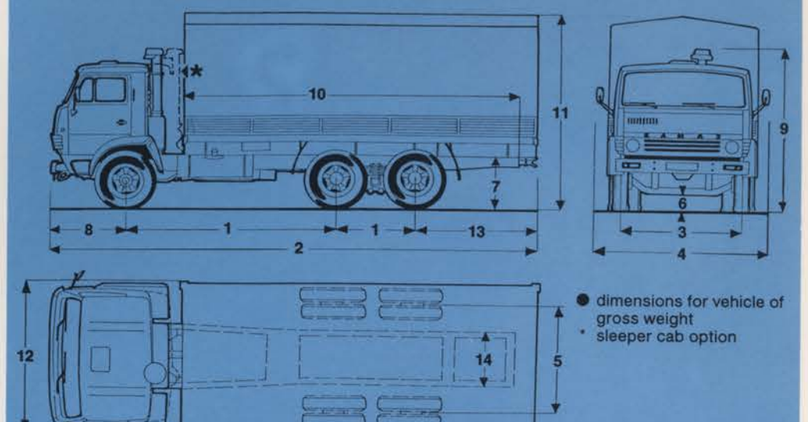
- Rated voltage, V 24
- Storage batteries, Ahr/V . . . . . 2 × 190/12
- Generator, V/wt 28/800

PLATFORM

- With metal dropsides and tailgate, wooden flooring.
- Optionally can be fitted out with canopy frame and canopy proper
- Inside dimensions, mm . . . . . 5200 × 320 × 500
- Area, sq. m. 12.06
- Volume including canopy, cubic m 21.72

KAMAZ

5320



● dimensions for vehicle of gross weight
* sleeper cab option

DIMENSIONS, mm

1	—	3190/1320	4	—	2900	7	—	990	11	—	3350*
2	—	7435	5	—	1856	8	—	1275	12	—	2500
3	—	2026	6	—	280	9	—	2830*	13	—	1482
						10	—	5135	14	—	865

* — for curb weight vehicle

WEIGHTS, kg

- Vehicle load carrying capacity 8000
- Vehicle curb weight 7275
- Front Axle Weight 4375
- Rear Axle Weight 10930
- Gross Vehicle Weight 15275
- Gross Road Train Weight 27000

KAMAZ

53212

ENGINE

- Diesel, two options
  KAMAZ-740
  KAMAZ-7403
  (TURBO-CHARGED)
- Cylinder arrangement, number of cylinders . . . . . V 8
- Diameter/Piston stroke, mm 120/120
- Displacement, cubic cm . 10850
- Horsepower at 2600 rpm
  KAMAZ-740 220
  KAMAZ-7403 260
- Maximum torque, kgm
  KAMAZ-740 68
  KAMAZ-7403 80

GEARBOX

- Mechanical, ten speed
- Power take off through two hatches (when parked) from each hatch no more than 30 HP

CLUTCH

- Friction type, dry, two-plate

MAXIMUM SPEED, km per hour

- At gear ratio of final drive
  7.22 80
  6.53 90

WHEELS

- Diskless, rim . . . . . 7.0—20
- Tyres . . . . . 9.00—20 R

ELECTRICS

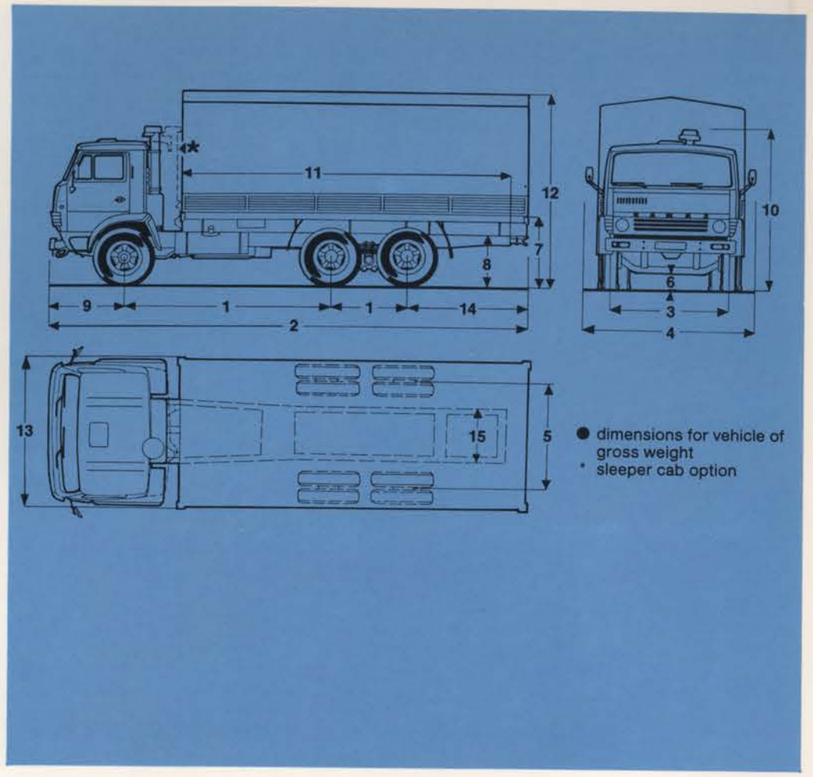
- Rated voltage, V 24
- Storage battery, Ahr/V . . . . . 2 × 190/12
- Generator, V/wt 28/800

PLATFORM

- With metal dropsides and tailgate, wooden flooring
- Optionally can be fitted out with canopy frame and canopy proper.
- Inside dimensions, mm . . . . . 6100 × 2320 × 500
- Floor Area, sq. m. 14.15
- Volume including canopy, cubic m 32.55

КАМАЗ

53212



● dimensions for vehicle of gross weight
* sleeper cab option

DIMENSIONS, mm												
1	—	3690/1320	4	—	2900	8	—	990	12	—	3650*
2	—	8530	5	—	1856	9	—	1275	13	—	2500
3	—	2026	6	—	280	10	—	2830*	14	—	1920
			7	—	1350*	11	—	5920	15	—	865

* — for curb weight vehicle

WEIGHTS, kg	
● Vehicle Load Carrying Capacity	11000
● Vehicle Curb Weight	8000
● Front Axle Weight	4500
● Rear Axle Weight	14500
● Gross Vehicle Weight	19000
● Gross Road Train Weight	34000

КАМАЗ

4310

ENGINE

- Diesel, KAMAZ-740
- Arrangement and number of cylinders . . . . . V 8
- Diameter/Piston stroke, mm 120/120
- Displacement, cubic cm . 10850
- Horsepower at 2600 rpm . . 210
- Maximum torque, kgm . . . 65

GEARBOX

- Mechanical, ten speed

DISTRIBUTOR BOX

- Mechanical, two speed with lockable interaxle differential

PLATFORM

- with tipping metal boards, wooden flooring, fitted out with tip-up and removable benches for transporting 30 passengers (at customer's request framework and canopy can be provided)

CLUTCH

- friction, dry, two-plate

MAXIMUM SPEED

- km/h. 85

WHEELS

- Disk, rim . . . . . 12.2—21
- Wide cross section tyres, increased cross country capacity tread pattern . . . . . 15.7—20.9

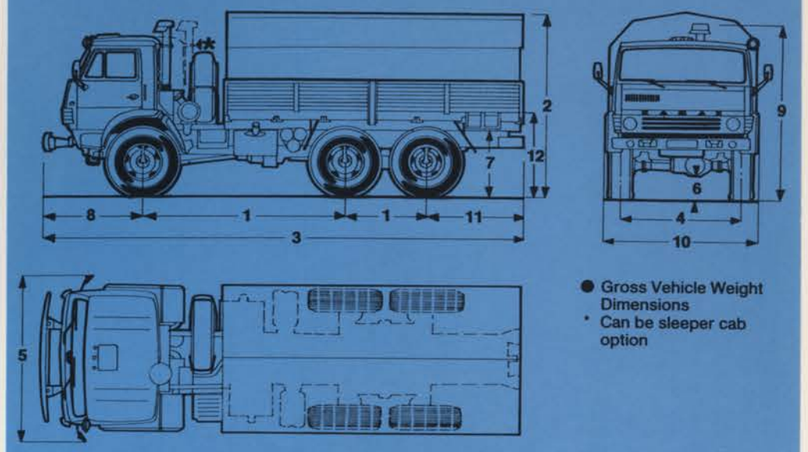
ELECTRICS

- Rated voltage, V 24
- Storage batteries, Ahr/V . . . . . 2 × 190/12
- Generator, V/wt 28/1000

OPTIONAL EQUIPMENT

- Tyre Pressure Adjustment System
- Self Recovery Winch
- Maximum pulling force, kg forward . . . . . 10800 back 15400

4310



● Gross Vehicle Weight Dimensions
* Can be sleeper cab option

DIMENSIONS, mm

1	3340/1320	4	2010	7	1140	10	2500
2	3200	5	2900	8	1620	11	1615
3	7895	6	365	9	3090*	12	1535*

● Fordable Depth — 1500
* — for curb weight vehicle

WEIGHTS, kg

● Vehicle Load Carrying Capacity	6000
● Vehicle Curb Weight	9000
● Front Axle Weight	4900
● Rear Axle Weight	10100
● Gross Vehicle Weight	15000
● Gross Road Train Weight	25000

43105

ENGINE

- Diesel, KAMAZ-740
- Cylinder arrangement, number of cylinders . . . . . V 8
- Diameter/Piston stroke, mm 120/120
- Displacement, cubic cm . 10850
- Horsepower at 2600 rpm . . 210
- Maximum torque, kgm . . . 65

GEARBOX

- Mechanical, ten speed

DISTRIBUTING BOX

- Mechanical, two speed with lockable interaxle differential

CLUTCH

- Friction type, dry, two-plate

MAXIMUM SPEED

- km per hour 85

WHEELS

- Disk wheels, rim . . . . 12.2—21
- Tyres — wide cross-section tyres with tread pattern designed for better cross country capacity . . . . . 15.7—20.9

ELECTRICS

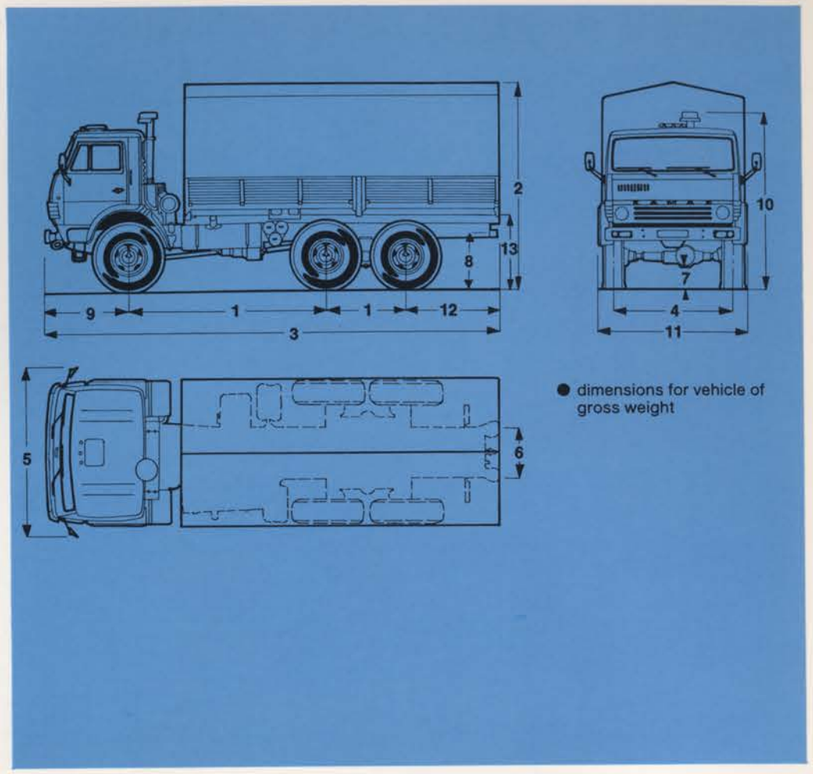
- Rated voltage, V 24
- Storage batteries, Ahr/V . . . . . 2 × 190/12
- Generator, V/wt 28/800

PLATFORM

- With metal dropsides and tailgate, wooden flooring.
- Optionally can be fitted out with canopy framework and canopy proper.
- Inside dimensions, mm . . . . . 5200 × 2320 × 500
- Volume including canopy, cubic m 21.72

КАМАЗ

43105



● dimensions for vehicle of gross weight

DIMENSIONS, mm

1 —	3340/1320	4 —	2010	7 —	365	10 —	3090*
2 —	3530	5 —	2900	8 —	960	11 —	2500
3 —	7730	6 —	865	9 —	1375	12 —	1695
						13 —	1535*

● Fordable depth — 800
* — for curb weight vehicle

WEIGHTS, kg

● Vehicle load carrying capacity	7000
● Vehicle curb weight	8500
● Front Axle Weight	5100
● Rear Axle Weight	10400
● Gross Vehicle Weight	15500
● Gross Road Train Weight	26500

КАМАЗ

5315

ENGINE

● Diesel, two options: KAMAZ-740 KAMAZ-7403 (TURBO-CHARGED)	
● Cylinder arrangement, number of cylinders	V 8
● Diameter/Piston stroke, mm	120/120
● Displacement, cubic cm	10850
● Horsepower at 2600 rpm	
KAMAZ-740	220
KAMAZ-7403	260
● Maximum torque, kgm	
KAMAZ-740	68
KAMAZ-7403	80

GEARBOX

● Mechanical, ten speed

CLUTCH

● Friction type, dry, two-plate

MAXIMUM SPEED

● km per hour . . no less than 90

WHEELS

● Disk wheels, rim	8.5—20
● Tyres	11.8—20 R

ELECTRICS

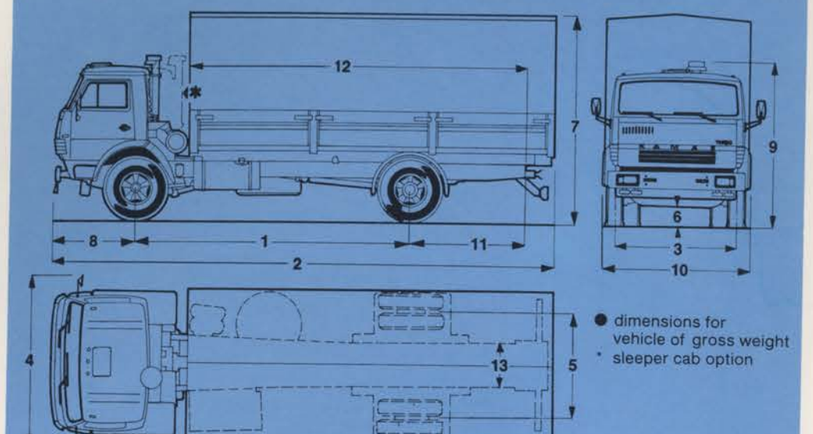
● Rated voltage, V	24
● Storage batteries, Ahr/V	2×190/12
● Generator, V/wt	28/1000

DRAWBAR

● Semi-automatic, "kingpin-loop" type.

KAMAZ

5315



● dimensions for vehicle of gross weight
* sleeper cab option

DIMENSIONS, mm

1	—	4650	4	—	2900	7	—	3660	10	—	2500
2	—	8515	5	—	1800	8	—	1425	11	—	2120
3	—	2129	6	—	290	9	—	2870*	12	—	6000
									13	—	774

* — for curb weight vehicle

WEIGHTS, kg

● Vehicle load carrying capacity	8000
● Vehicle curb weight	8000
● Front Axle Weight	6000
● Rear Axle Weight	10000
● Gross Vehicle Weight	16000
● Gross Road Train Weight	34000

KAMAZ

5325

ENGINE

- Diesel, two options
  KAMAZ-740
  KAMAZ-7403
  (TURBO-CHARGED)
- Cylinder arrangement, number of cylinders . . . . . V 8
- Diameter/Piston stroke mm 120/120
- Displacement, cubic cm . 10850
- Horsepower at 2600 rpm
  KAMAZ-740 220
  KAMAZ-7403 260
- Maximum torque, kgm
  KAMAZ-740 68
  KAMAZ-7403 80

GEARBOX

- Mechanical, ten speed
- Power take off through two hatches (when parked) from each hatch no more than . . . 30 HP

CLUTCH

- Friction type, dry, two-plate

MAXIMUM SPEED, km per hour

- no less than 90

WHEELS

- Disk wheels, rim . . . . 8.5—20
- Tyres . . . . . 12.6—20 R

ELECTRICS

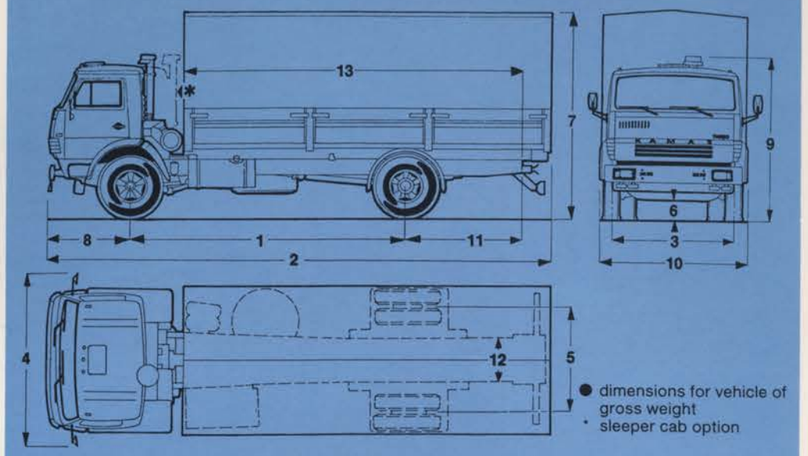
- Rated voltage, V 24
- Storage batteries, Ahr/V . . . . . 2 × 190/12
- Generator, V/wt 28/1000

DRAWBAR

- Semi-automatic, "kingpin-loop" type

KAMAZ

5325



● dimensions for vehicle of gross weight
* sleeper cab option

DIMENSIONS, mm

1	—	4650	4	—	2900	7	—	3680	10	—	2500
2	—	8515	5	—	1800	8	—	1425	11	—	2120
3	—	2012	6	—	310	9	—	3000*	12	—	774
									13	—	6000

* — for curb weight vehicle

WEIGHTS, kg

● Vehicle load carrying capacity	11000
● Vehicle curb weight	8000
● Front Axle Weight	6000
● Rear Axle Weight	13000
● Gross Vehicle Weight	19000
● Gross Road Train Weight	34000

KAMAZ

53208

ENGINE

- C.N.G. diesel, KAMAZ-7409
- Cylinder arrangement, number of cylinders . . . . . V 8
- Diameter/Piston stroke, mm 120/120
- Displacement, cubic cm . 10850
- Horsepower diesel mode at 2600 rpm 210
  C.N.G. diesel mode at 2550 rpm 210
- Maximum torque, kgm . . . 65
- Fuel in CNG mode — natural gas

GEARBOX

- Mechanical, ten speed

CLUTCH

- Friction type, dry, two-plate

MAXIMUM SPEED, km per hour

- At gear ratio of final drive 6.53 90

WHEELS

- Diskless, rim . . . . . 7.0—20
- Tyres . . . . . 9.00—20 R

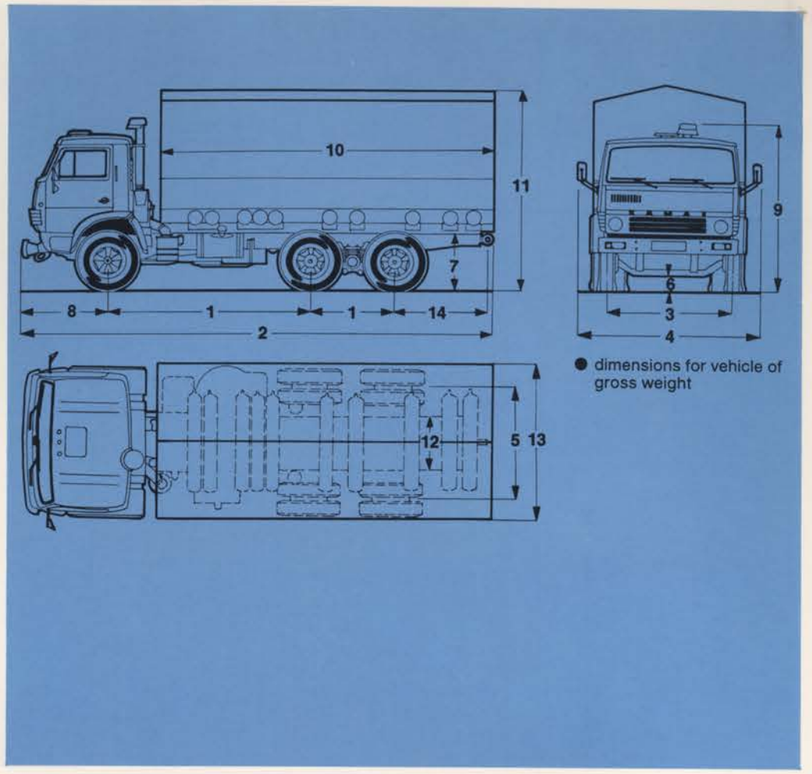
ELECTRICS

- Rated voltage, V 24
- Storage batteries, Ahr/V . . . . . 2 × 190/12
- Generator, V/wt 28/800

PLATFORM

- With metal dropsides and tailgate, wooden flooring.
- Optionally can be fitted out with canopy frame and canopy proper.
- Inside dimensions, mm . . . . . 5200 × 320 × 500
- Area, sq. m. 12.06
- Volume including canopy, cubic m 21.72

53208



● dimensions for vehicle of gross weight

DIMENSIONS, mm

1	—	3190/1320	5	—	1856	9	—	2830*
2	—	7435	6	—	280	10	—	5135
3	—	2026	7	—	990	11	—	3350*
4	—	2900	8	—	1275	12	—	865
13	—	2320						
14	—	1482						

* — for curb weight vehicle

WEIGHTS, kg

- Load carrying capacity 7500
- Vehicle curb weight 8000
- Front Axle Weight 4500
- Rear Axle Weight 11000
- Gross Vehicle Weight 15550
- Gross Road Train Weight 27000

53218

ENGINE

- CNG diesel, KAMAZ-7409
- Cylinder arrangement, number of cylinders ..... V 8
- Diameter/Piston stroke, mm 120/120
- Displacement, cubic cm . 10850
- Horsepower diesel mode at 2600 rpm 210
  CNG diesel mode at 2550 rpm 210
- Maximum torque, kgm ... 65

GEARBOX

- Mechanical, ten speed

CLUTCH

- Friction type, dry, two-plate

MAXIMUM SPEED, km per hour

- At gear ratio of final drive 6.53 90

WHEELS

- Diskless, rim ..... 7.0—20
- Tyres ..... 9.00—20 R

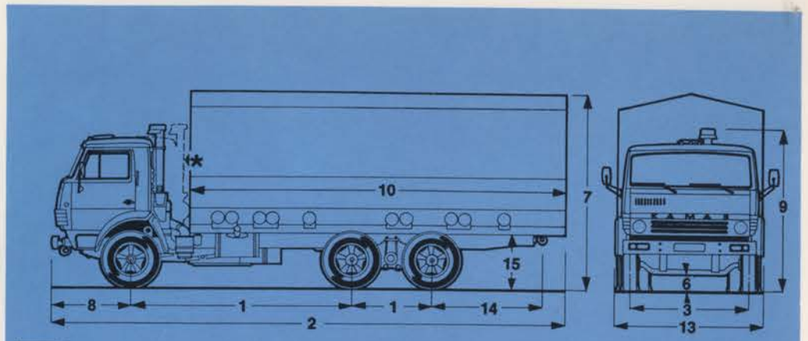
ELECTRICS

- Rated voltage, V 24
- Storage batteries, Ahr/V ..... 2 × 190/12
- Generator, V/wt 28/800

PLATFORM

- Metal dropsides and tailgate, wooden flooring.
- Optionally fitted out with canopy frame and canopy proper.
- Inside dimensions, mm ..... 6100 × 2320 × 500
- Area, sq. m. 14.15
- Volume including canopy, cubic m 32.55

53218



● dimensions for gross weight vehicle
* sleeper cab option

DIMENSIONS, mm

1	—	3690/1320	5	—	1856	9	—	2830*	13	—	2500
2	—	8530	6	—	280	10	—	5920	14	—	1920
3	—	2026	7	—	3650*	11	—	865	15	—	990
4	—	2900	8	—	1275	12	—	2320			

* — for curb weight vehicle

WEIGHTS, kg

● Load carrying capacity	10000
● Curb weight	9000
● Front Axle Weight	4500
● Rear Axle Weight	14500
● Gross Vehicle Weight	19000
● Gross Road Train Weight	34000

5410

ENGINE

- Diesel, model KAMAZ-740
- Arrangement, number of cylinders . . . . . V 8
- Diameter/Piston stroke, mm 120/120
- Displacement, cubic cm . 10850
- Horsepower at 2600 rpm . . 220
- Maximum torque, kgm . . . 68

GEARBOX

- Mechanical, ten speed

CLUTCH

- Friction type, dry, two-plate

MAXIMUM SPEED, km per hour

- At gear ratio of final drive
  7.22 80
  6.53 90

WHEELS

- Diskless, rim . . . . . 7.0—20
- Tyre . . . . . 9.00—20 R

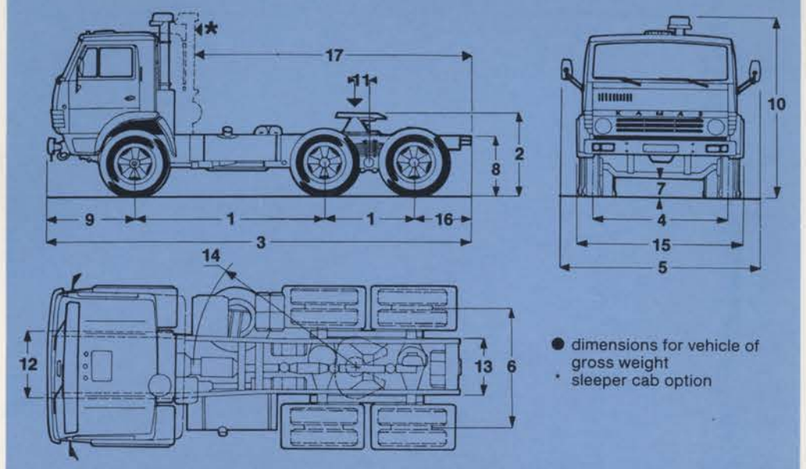
ELECTRICS

- Rated voltage, V 24
- Storage batteries, Ahr/V . . . . . 2 × 190/12
- Generator, V/wt 28/800

FIFTH WHEEL ARRANGEMENT

- Two degrees of freedom
- Lock hole diameter, mm 50.8
- incline angle of support plate lengthwise . . . ± 15 dgrs

5410



● dimensions for vehicle of gross weight
* sleeper cab option

DIMENSIONS, mm

1	—	2840/1320	5	—	2900	9	—	1275	13	—	865
2	—	1280*	6	—	1856	10	—	2830*	14	—	2310
3	—	6180	7	—	280	11	—	190	15	—	2500
4	—	2026	8	—	980	12	—	955	16	—	680
									17	—	3830

* — for curb weight vehicle

WEIGHTS, kg

● Fifth Wheel Load	8000
● Vehicle curb Weight	6500
● Front axle weight	3900
● Rear axle weight	10600
● Gross vehicle weight	14500
● Gross road train weight	26000

54112

ENGINE

- Diesel, two options
  KAMAZ-740
  KAMAZ-7403
  (TURBO-CHARGED)
- Cylinder arrangement, number of cylinders . . . . . V 8
- Diameter/Piston stroke, mm 120/120
- Displacement, cubic cm . 10850
- Horsepower at 2600 rpm
  KAMAZ-740 220
  KAMAZ-7403 260
- Maximum torque, kgm
  KAMAZ-740 68
  KAMAZ-7403 80

GEARBOX

- Mechanical, ten speed
- Power takeoff through two hatches (when parked) from each hatch no more than . . . 30 HP

CLUTCH

- Friction type, dry, two-plate

MAXIMUM SPEED, km per hour

- At gear ratio of final drive
  7.22 80
  6.53 90

WHEELS

- Diskless, rim . . . . . 7.0—20
- Tyres . . . . . 9.00—20 R

ELECTRICS

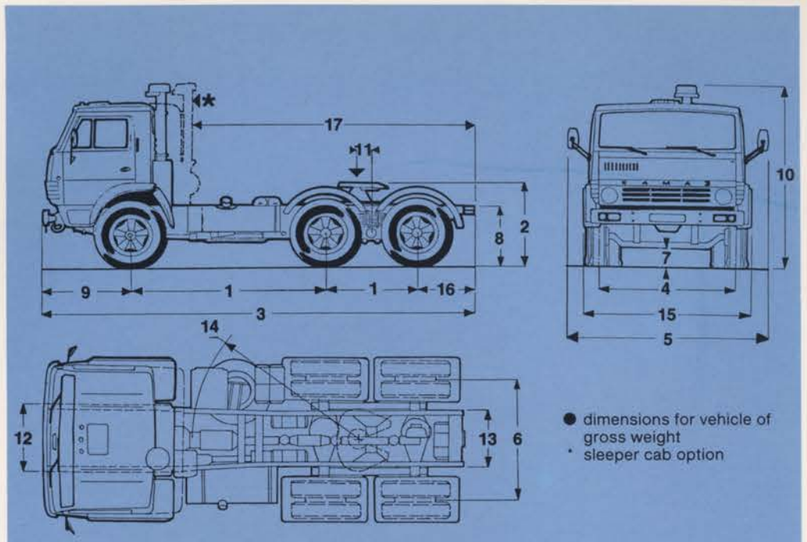
- Rated voltage, V 24
- Storage batteries, Ahr/V . . . . . 2 × 190/12
- Generator, V/wt 28/800

FIFTH WHEEL ARRANGEMENT

- two degrees of freedom
- Lock hole diameter, mm . 50.8
- incline angle of the support plate lengthwise . . . ±15 dgrs

КАМАЗ

54112



● dimensions for vehicle of gross weight
* sleeper cab option

DIMENSIONS, mm

1	—	2840/1320	5	—	2900	9	—	1275	13	—	865
2	—	1280*	6	—	1856	10	—	2830*	14	—	2310
3	—	6180	7	—	280	11	—	190	15	—	2500
4	—	2026	8	—	980	12′	—	955	16	—	680
									17	—	3830

* — for curb weight vehicle

WEIGHTS, kg

● Fifth Wheel Load	12000
● Vehicle Curb Weight	7000
● Front Axle Weight	4500
● Rear Axle Weight	14500
● Gross Vehicle Weight	19000
● Gross Road Train Weight	34000

КАМАЗ

5415

ENGINE

- Diesel, two options
  KAMAZ-740
  KAMAZ-7403
  (TURBO-CHARGED)
- Cylinder arrangement, number of cylinders . . . . . V 8
- Diameter/Piston stroke, mm 120/120
- Displacement, cubic cm . 10850
- Horsepower at 2600 rpm
  KAMAZ-740 220
  KAMAZ-7403 260
- Maximum torque, kgm
  KAMAZ-740 68
  KAMAZ-7403 80

GEARBOX

- Mechanical, ten speed

CLUTCH

- Friction type, dry, two-plate

MAXIMUM SPEED

- km per hour no less than . . 90

WHEELS

- Disk wheels, rim . . . . 8.5—20
- Tyres . . . . . 11.8—20 R

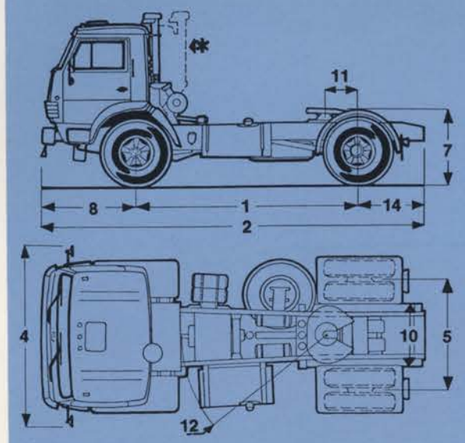
ELECTRICS

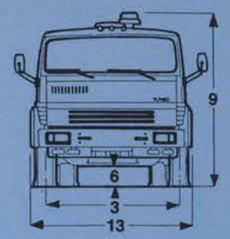
- Rated voltage, V 24
- Storage batteries, Ahr/V . . . . . 2 × 190/12
- Generator, V/wt 28/1000

FIFTH WHEEL ARRANGEMENT

- two degrees of freedom
- Lock hole diameter, mm 50.8
- incline angle of the support plate lengthwise . . . . . 8 dgrs

5415





● dimensions for vehicle of gross weight
* sleeper cab option

DIMENSIONS, mm												
1	—	3500	4	—	2900	7	—	1280	11	—	720
2	—	5955	5	—	1800	8	—	1425	12	—	1980
3	—	2129	6	—	290	9	—	2870*	13	—	2500
						10	—	774	14	—	1030

* — for curb weight vehicle

WEIGHTS, kg	
● Fifth Wheel Load	9500
● Vehicle Curb Weight	6500
● Front Axle Weight	6000
● Rear Axle Weight	10000
● Gross Vehicle Weight	16000
● Gross Road Train Weight	34000

5425

ENGINE	
● Diesel, two options KAMAZ-740 KAMAZ-7403 (TURBO-CHARGED)	
● Cylinder arrangement, number of cylinders	V 8
● Diameter/Piston stroke, mm	120/120
● Displacement, cubic cm	10850
● Horsepower at 2600 rpm KAMAZ-740	220
KAMAZ-7403	260
● Maximum torque, kgm KAMAZ-740	68
KAMAZ-7403	80

GEARBOX
● Mechanical, ten speed

CLUTCH
● Friction type, dry, two-plate

MAXIMUM SPEED	
● km per hour no less than	90

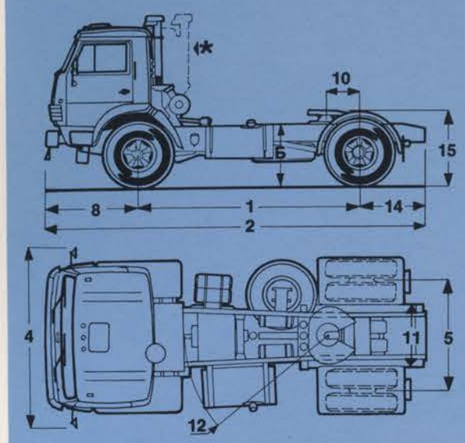
WHEELS	
● Disk wheels	8.5—20
● Tyres	12.6—20 R

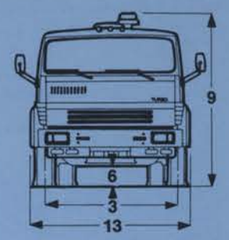
ELECTRICS	
● Rated voltage, V	24
● Storage batteries, Ahr/V	2 × 190/12
● Generator, V/wt	28/1000

FIFTH WHEEL ARRANGEMENT	
● Two degrees of freedom	
● Lock hole diameter, mm	50.8
● incline angle of the support plate lengthwise	8 dgr

KAMAZ

5425





● dimensions for vehicle of gross weight
* sleeper cab option

DIMENSIONS, mm

1 — 3500	4 — 2900	8 — 1425	12 — 2150
2 — 5955	5 — 1800	9 — 2890*	13 — 2500
3 — 2012	6 — 310	10 — 555	14 — 1030
	7 — 1075	11 — 774	15 — 1295*

* — for curb weight vehicle

WEIGHTS, kg

● Fifth wheel load	12500
● Vehicle curb weight	6500
● Front Axle Weight	6000
● Rear Axle Weight	13000
● Gross Vehicle Weight	19000
● Gross Road Train Weight	34000

KAMAZ

54118

ENGINE

- CNG diesel, KAMAZ-7409
- Cylinder arrangement, number of cylinders . . . . . V 8
- Diameter/Piston stroke, mm 120/120
- Displacement, cubic cm . 10850
- Horsepower diesel mode at 2600 rpm 210
  CNG diesel at 2550 rpm . . . 210
- Maximum torque, kgm . . . 65
- Fuel in CNG mode — natural gas

GEARBOX

- Mechanical, ten speed

CLUTCH

- Friction type, dry, two-plate

MAXIMUM SPEED, km per hour

- At gear ratio of final drive 6.53 90

WHEELS

- Diskless, rim . . . . . 7.0—20
- Tyres . . . . . 9.00—20 R

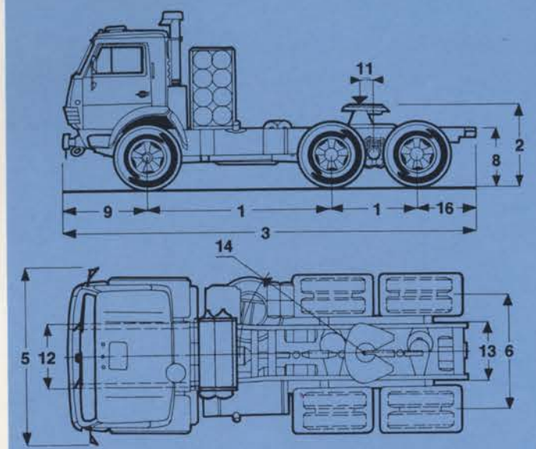
ELECTRICS

- Rated voltage, V 24
- Storage batteries, Ahr/V . . . . . 2 × 190/12
- Generator, V/wt 28/800

FIFTH WHEEL ARRANGEMENT

- two degrees of freedom
- lock hole diameter, mm . . 50.8
- incline angle of the support plate lengthwise . . . ±15 dgrs

54118



● dimensions for vehicle of gross weight

DIMENSIONS, mm

1	—	2840/1320	5	—	2900	9	—	1275	13	—	865
2	—	1280*	6	—	1856	10	—	2830*	14	—	2120
3	—	6180	7	—	280	11	—	60	15	—	2500
4	—	2026	8	—	990	12	—	955	16	—	680

* — for curb weight vehicle

WEIGHTS, kg

- Fifth Wheel Load 11000
- Vehicle Curb Weight 8000
- Front Axle Weight 4500
- Rear Axle Weight 14500
- Gross Vehicle Weight 19000
- Gross Road Train Weight 34000

55111

ENGINE

- Diesel, KAMAZ-740
- Cylinder arrangement, number of cylinders ..... V 8
- Diameter/Piston stroke, mm 120/120
- Displacement, cubic cm . 10850
- Horsepower at 2600 rpm ..... 220 HP
- Maximum torque, kgm ... 68

GEARBOX

- Mechanical, two options:
  ten speed
  five speed

CLUTCH

- Friction type, dry, two-plate

MAXIMUM SPEED, km per hour

- At gear ratio of final drive
  7.22 80
  6.53 90

WHEELS

- Diskless, rim ..... 7.5 —20
- Tyres ..... 10.00 R—20

ELECTRICS

- Rated voltage, V 24
- Storage batteries, Ahr/V ..... 2 × 190/12
- Generator, V/wt 28/800

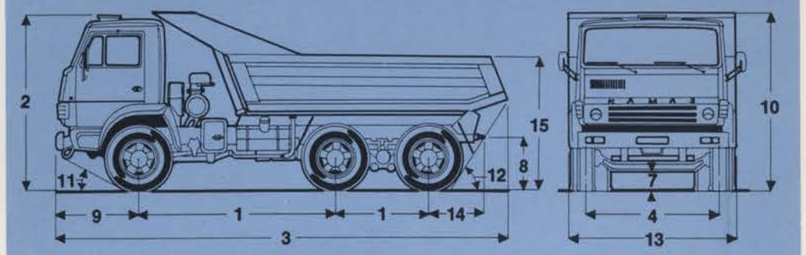
CARGO BODY

- All-metal, welded, with tailgate heated up by exhaust fumes
- Cargo body capacity, cubic m 6.6

CARGO BODY TILT MECHANISM

- Hydraulic with remote electrical pneumatic control

55111



● dimensions for vehicle of gross weight

DIMENSIONS, mm

1	—	2840/1320	5	—	2900	9	—	1275	13	—	2500
2	—	2640	6	—	1870	10	—	2710	14	—	820
3	—	6680	7	—	290	11	—	27 dgr	15	—	2110
4	—	2019	8	—	900	12	—	57 dgr			

- Overall height with the carge body raised — 5810
- Cargo Body Tilt Angle — 60 dgr

WEIGHTS, kg

- Load carrying capacity 13000
- Vehicle Curb Weight 9000
- Front Axle Weight 5500
- Rear Axle Weight 16500
- Gross Vehicle Weight 22000

55102

ENGINE

- Diesel, KAMAZ-740
- Cylinder arrangement, number of cylinders ..... V 8
- Diameter/Piston stroke, mm 120/120
- Displacement, cubic cm . 10850
- Horsepower at 2600 rpm .. 220
- Maximum torque, kgm ... 68

GEARBOX

- Mechanical, ten speed

CLUTCH

- Friction type, dry, two-plate

MAXIMUM SPEED, km per hour

- At gear ratio of final drive 6.53 90

WHEELS

- Diskless, rim ..... 7.0—20
- Tyres ..... 9.00—20 R

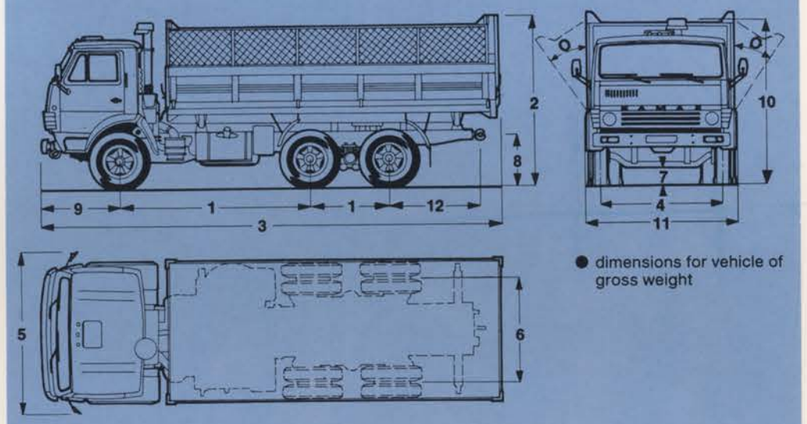
ELECTRICS

- Rated voltage, V 24
- Storage batteries, Ahr/V ..... 2 × 190/12
- Generator, V/wt 28/800

PLATFORM

- Metal, welded, rectangular shape, with dropsides, two way tipping, extension boards can be added
- Inside dimensions of the floor, mm ..... 5335 × 2320
- Platform Volume, cubic m with standard side boards . 7.90 with extension side boards 15.80

55102



● dimensions for vehicle of gross weight

DIMENSIONS, mm

1	—	3190/1320	4	—	2026	7	—	280	10	—	2830*
2	—	2900*	5	—	2900	8	—	900	11	—	2500
3	—	7570	6	—	1856	9	—	1275	12	—	1482

- Overall height with the platform raised — 4000
- Platform Tilt Angle — 50 dgrs

* — for curb weight vehicle

WEIGHTS, kg

- Load carrying capacity 7000
- Vehicle Curb Weight 8500
- Front Axle Weight 4500
- Rear Axle Weight 11000
- Gross Vehicle Weight 15500
- Gross Road Train Weight 27000

55118

ENGINE

- CNG diesel, KAMAZ-7409
- Cylinder arrangement, number of cylinders ..... V 8
- Diameter/Piston stroke, mm 120/120
- Displacement, cubic cm . 10850
- Horsepower diesel mode at 2600 rpm 210
  CNG diesel mode at 2550 rpm 210
- Maximum torque, kgm ... 65
- Fuel for CNG diesel mode — natural gas

GEARBOX

- Mechanical five speed

CLUTCH

- Friction type, dry, two-plate

MAXIMUM SPEED, km per hour

- At gear ratio of final drive 6.53 no less than 90

WHEELS

- Diskless, rim ..... 7.0—20
- Tyres ..... 9.00—20 R

ELECTRICS

- Rated voltage, V 24
- Storage batteries, Ahr/V ..... 2 × 190/12
- Generator, V/wt 28/800

CARGO BODY

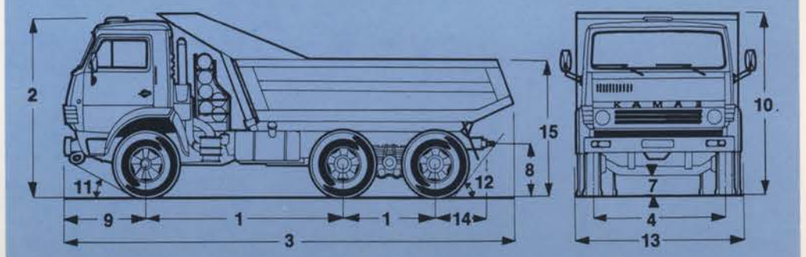
- All-metal, welded, bucket-type, heated up by exhaust fumes
- Cargo body capacity, cubic m 7.2

BODY TILT MECHANISM

- Hydraulic with remote electrical pneumatic control

KAMAZ

55118



● dimensions for vehicle of gross weight

DIMENSIONS, mm

1	—	2840/1320	5	—	2900	9	—	1275	13	—	2500
2	—	2630	6	—	1856	10	—	2700	14	—	820
3	—	6580	7	—	280	11	—	26 dgrs	15	—	2100
4	—	2026	8	—	890	12	—	60 dgrs			

- Overall height with body raised — 5800
- Body Tilt Angle — 60 dgrs

WEIGHTS, kg

- Load carrying capacity 10000
- Vehicle Curb Weight 9750
- Front Axle Weight 4500
- Rear Axle Weight 15250
- Gross Vehicle Weight 19750

KAMAZ

53213

ENGINE

- Diesel, two options
  KAMAZ-740
  KAMAZ-7403
  (TURBO-CHARGED)
- Cylinder arrangement, number of cylinders . . . . . V 8
- Diameter/Piston stroke, mm 120/120
- Displacement, cubic cm . 10850
- Horsepower at 2600 rpm
  KAMAZ-740 220
  KAMAZ-7403 260
- Maximum torque, kgm
  KAMAZ-740 68
  KAMAZ-7403 80

GEARBOX

- Mechanical, two options
  ten speed
  five speed

CLUTCH

- Friction type, dry, two-plate

MAXIMUM SPEED, km per hour

- At gear ratio of final drive
  7.22 80
  6.53 90

WHEELS

- Diskless, rim . . . . . 7.0—20
- Tyres . . . . . 9.00—20 R

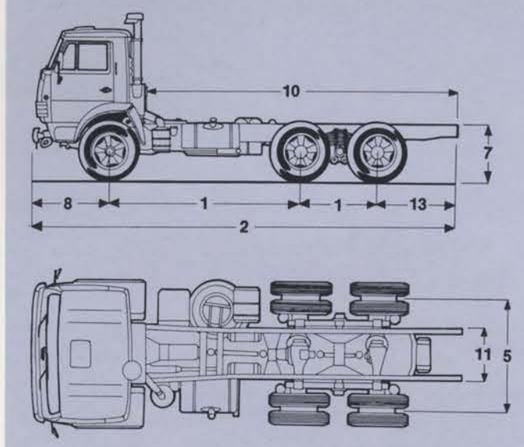
ELECTRICS

- Rated voltage, V 24
- Storage batteries, Ahr/V . . . . . 2 × 190/12
- Generator, V/wt 28/800

POWER TAKEOFF

- From gearbox (when parked), both sides up to . . . . . 30 HP
- From engine (when moving and when parked) up to . . . 60 HP

53213



● dimensions for curb weight vehicle

DIMENSIONS, mm												
1	—	3690/1320	4	—	2900	7	—	990	10	—	5920
2	—	8000	5	—	1856	8	—	1275	11	—	865
3	—	2026	6	—	280	9	—	2830	12	—	2500
									13	—	1715

● Center of gravity height for curb weight chassis — 750

WEIGHTS, kg	
● Chassis load carrying capacity	12000
● Chassis curb weight	7000
● Front axle weight	4500
● Rear axle weight	14500
● Gross vehicle weight	19000

53211

ENGINE	
● Diesel, two options	
KAMAZ-740	
KAMAZ-7403	
(TURBO-CHARGED)	
● Cylinder arrangement, number of cylinders	V 8
● Diameter/Piston stroke, mm	120/120
● Displacement, cubic cm	10850
● Horsepower at 2600 rpm	
KAMAZ-740	220
KAMAZ-7403	260
● Maximum torque, kgm	
KAMAZ-740	68
KAMAZ-7403	80

GEARBOX
● Mechanical, two options
ten speed
five speed

CLUTCH
● Friction type, dry, two-plate

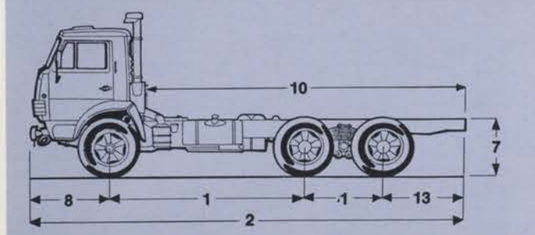
MAXIMUM SPEED, km per hour	
● At gear ratio of final drive	
7.22	80
6.53	90

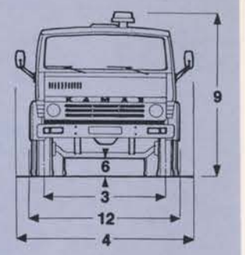
WHEELS	
● Diskless, rim	7.0—20
● Tyres	9.00—20 R

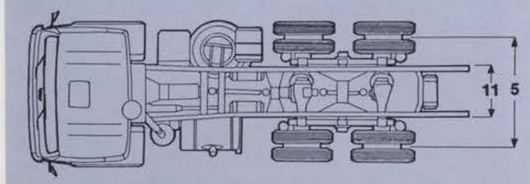
ELECTRICS	
● Rated voltage, V	24
● Storage batteries, Ahr/V	2 × 190/12
● Generator, V/wt	28/800

POWER TAKEOFF
● From gearbox (when parked), both sides up to — 30 HP
● From engine (when moving and when parked), up to — 60 HP

53211







● dimensions for curb weight vehicle

DIMENSIONS, mm

1	—	3190/1320	4	—	2900	7	—	990	10	—	5135
2	—	7135	5	—	1856	8	—	1275	11	—	865
3	—	2026	6	—	280	9	—	2830*	12	—	2500
									13	—	1350

● Center of gravity height for curb weight chassis — 750
* — for curb weight vehicle

WEIGHTS, kg

● Chassis load carrying capacity	12200
● Chassis curb weight	6800
● Front axle weight	4500
● Rear axle weight	14500
● Gross vehicle weight	19000

55111

ENGINE

- Diesel, model KAMAZ-740
- Cylinder arrangement, number of cylinders . . . . . V 8
- Diameter/Piston stroke, mm 120/120
- Displacement, cubic cm . 10850
- Horsepower at 2600 rpm . . 220
- Maximum torque, kgm . . . 68

GEARBOX

- Mechanical, two options
  ten speed
  five speed

CLUTCH

- Friction type, dry, two-plate

MAXIMUM SPEED, km per hour

- At gear ratio of final drive
  7.22 80
  6.53 90

WHEELS

- Diskless, rim . . . . . 7.5 —20
- Tyres . . . . . 10.00 R—20

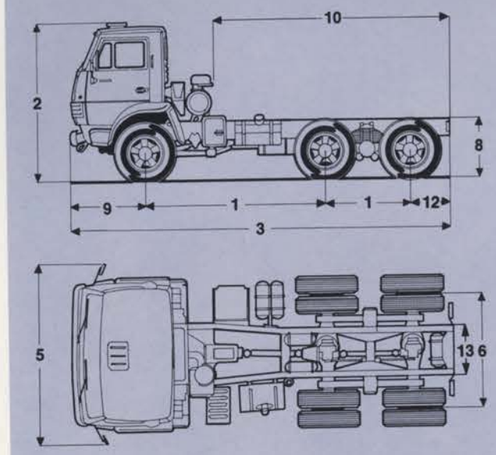
ELECTRICS

- Rated Voltage, V 24
- Storage batteries, Ahr/V . . . . . 2 × 190/12
- Generator, V/wt 28/800

POWER TAKEOFF

- From gearbox via two hatches (when parked) up to . . . 30 HP
- From engine (when moving and when parked) up to . . . 60 HP

55111



● dimensions for curb weight vehicle

DIMENSIONS, mm

1	—	2840/1320	4	—	2019	7	—	290	10	—	3830
2	—	2640	5	—	2900	8	—	1000	11	—	2500
3	—	6125	6	—	1870	9	—	1275	12	—	680
									13	—	865

● Center of gravity height for curb weight vehicle — 750

WEIGHTS, kg

● Chassis load carrying capacity	15500
● Chassis curb weight	6500
● Front Axle Weight	5500
● Rear Axle Weight	16500
● Gross Vehicle Weight	22000

5315

ENGINE

- Diesel, two options:
  KAMAZ-740
  KAMAZ-7403
  (TURBO-CHARGED)
- Cylinder arrangement, number of cylinders . . . . . V 8
- Diameter/Piston stroke, mm 120/120
- Displacement, cubic cm . 10850
- Horsepower at 2600 rpm
  KAMAZ-740 220
  KAMAZ-7403 260
- Maximum torque, kgm
  KAMAZ-740 68
  KAMAZ-7403 80

GEARBOX

- Mechanical, two options:
  ten speed
  five speed

POWER TAKEOFF

- From gearbox (when parked) no more than . . . . . 30 HP
- From engine (when moving and when parked) no more than . . . . . 60 HP

CLUTCH

- Friction type, dry, two-plate

MAXIMUM SPEED

- km per hour no less than . . 90

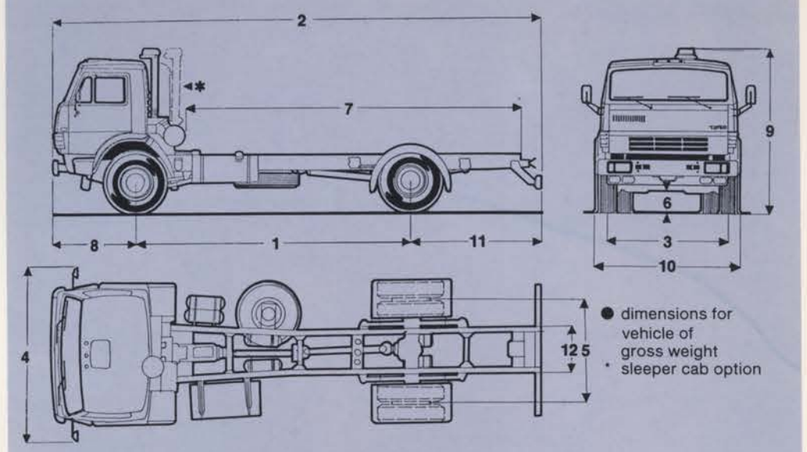
WHEELS

- Disk wheels, rim . . . . 8.5—20
- Tyres . . . . . 11.8—20 R

ELECTRICS

- Rated voltage, V 24
- Storage batteries, Ahr/V . . . . . 2 × 190/12
- Generator, V/wt 28/1000

5315



● dimensions for vehicle of gross weight

DIMENSIONS, mm												
1	—	4650	4	—	2900	7	—	6000	10	—	2500
2	—	8515	5	—	1800	8	—	1425	11	—	2120
3	—	2129	6	—	290	9	—	2870*	12	—	774

* — for curb weight vehicle

WEIGHTS, kg	
● Chassis load carrying capacity	9600
● Vehicle Chassis curb weight	6400
● Front Axle Weight	6000
● Rear Axle Weight	10000
● Gross Vehicle Weight	16000

5325

ENGINE	
● Diesel, two options KAMAZ-740 KAMAZ-7403 (TURBO-CHARGED)	
● Cylinder arrangement, number of cylinders	V 8
● Diameter/Piston stroke, mm	120/120
● Displacement, cubic cm	10850
● Horsepower at 2600 rpm	
KAMAZ-740	220
KAMAZ-7403	260
● Maximum torque, kgm	
KAMAZ-740	68
KAMAZ-7403	80

GEARBOX
● Mechanical, two options: ten speed five speed

POWER TAKEOFF	
● From gearbox (when parked) up to	30 HP
● From engine (when moving and when parked) up to	60 HP

CLUTCH
● Friction type, dry, two-plate

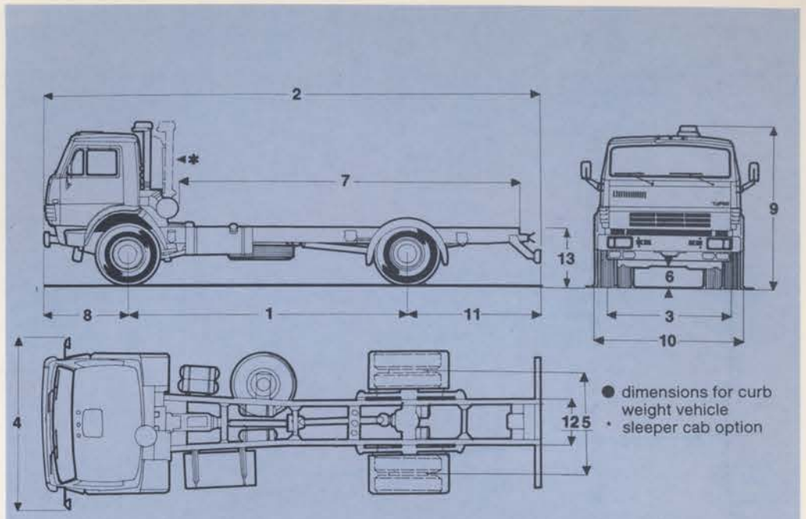
MAXIMUM SPEED	
● km per hour no less than	90

WHEELS	
● Disk wheels, rim	8.5—20
● Tyres	12.6—20 R

ELECTRICS	
● Rated Voltage, V	24
● Storage batteries, Ahr/V	2 × 190/12
● Generator, V/wt	28/1000

KAMAZ

5325



● dimensions for curb weight vehicle
· sleeper cab option

DIMENSIONS, mm

1	—	4650	4	—	2870	7	—	6000	10	—	2500
2	—	8515	5	—	1800	8	—	1425	11	—	2120
3	—	2012	6	—	310	9	—	3000	12	—	774
									13	—	1160

WEIGHTS, kg

● Chassis load carrying capacity	12000
● Chassis curb weight	7000
● Front Axle Weight	6000
● Rear Axle Weight	13000
● Gross Vehicle Weight	19000

KAMAZ

II. Specialized Vehicles

Special Purpose Vehicles

Tanker Semi-trailers

Trailers

II. A range of trailers and semi-trailers produced by KAMAZ will help you save fuel and time, as well as handle any cargo.

Serial production of automotive trailers and semi-trailers features prominently in the production schedules of plants owned by KAMAZ, namely: dump truck plant in Neftekamsk and trailer plant in Stavropol.

The choice of accessories for motor vehicles is constantly widening, including new and special options customized to suit the specific conditions of the importer country.

High technological level, durability and endurance of the products will be the best promotion of our goods.

Today we are offering:

— trailers for farming applications and for carrying bulk cargoes and cargoes for construction purposes: SZAP-8352-01, SZAP-8355, SZAP-8527-01;
— tanker trailer for transporting fuel NZAS-8652;
— fuel filling tanker semi-trailer NZAS-9676;
— tanker semi-trailer for transporting fuel NZAS-9674;
— tank NZAS-5607-01 for transporting petroleum products fitted on chassis KAMAZ-5320.

КАМАЗ

4960

ENGINE

- Diesel, KAMAZ-740
- Horsepower at 2600 rpm . . 210

DISTRIBUTING BOX

- Mechanical, two speed with lockable interaxle differential

GEARBOX

- Mechanical, five speed, KAMAZ-14

MAXIMUM SPEED

- km per hour 85

WHEELS

- Disk wheels, rim . . . . 12.2—21
- Tyres — wide cross section tyres with tread pattern designed for better cross country capacity . . . . . 15.7—20.9

OPTIONAL EQUIPMENT

- Tyre pressure adjustment system

ELECTRICS

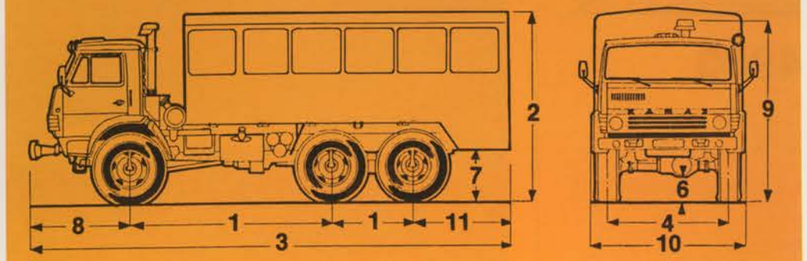
- Rated voltage, V 24
- Storage batteries, Ahr/V . . . . . 2 × 190/12
- Generator, V/wt 28/1000

CLUTCH

- Friction type, dry, two-plate

KAMAZ

4960



DIMENSIONS, mm

1	—	3340/1320	4	—	2010	7	—	740	10	—	2500
2	—	3200	5	—	2900	8	—	1620	11	—	2115
3	—	8395	6	—	365	9	—	3090			

- Fordable depth — 1500

WEIGHTS, kg

● Number of seats in the passenger compartment	30
● Vehicle curb weight	9000
● Front Axle Weight	5000
● Rear Axle Weight	10000
● Allowable gross vehicle weight	15000
● Allowable gross weight of the towed trailer:	
on roads with axle load of 6 tons	10000
on all types of roads and terrain	7000

KAMAZ

NZAS 5607-01

Tank for transporting white petroleum products, installed on KAMAZ-5320 chassis.

ENGINE

- Diesel, KAMAZ-740
- Cylinder arrangement, number of cylinders . . . . . V 8
- Displacement, cubic cm . 10850
- Horsepower at 2600 rpm . . 220
- Maximum torque, kgm . . . 68

GEARBOX

- Mechanical, ten speed
- Power takeoff through two hatches (when parked)

MAXIMUM SPEED km/h.

- With final drive gear ratio 6.53 90

WHEELS

- Diskless, rim . . . . . 7.0—20
- Tyres . . . . . 9.00—20 R

TANK

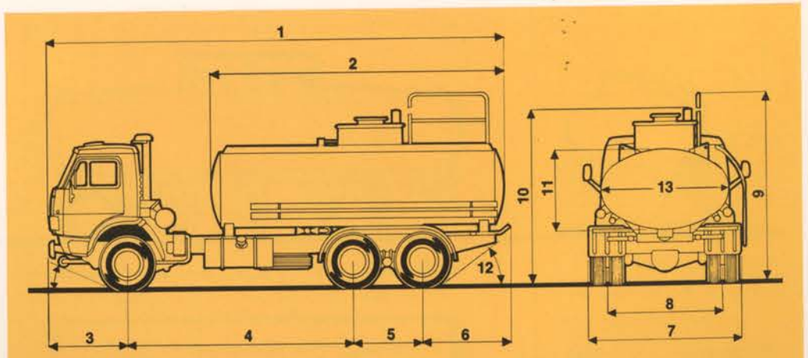
- Welded from steel sheets, partitioned by wave suppressors into three sections
- Rated Holding Capacity, liters 8800

CHARGING AND DISCHARGING UNIT

- Self priming, peripheral, single stage pump
- Pump drive is hydraulic
- Self priming height, m no less than 6.5
- Tank Filling Time (using the pump), minutes — no more than 18
- Tank Draining Time, minutes, no more than
  using pump 18
  self draining 25

WEIGHTS, kg

● Rated Cargo Weight	7355
● Filled Tank Weight	7950
● Gross Tank Truck Weight	15305
● Front Axle Weight	4375
● Rear Axle Weight	10930



1	—	7072	8	—	1850
2	—	4340	9	—	3464*
3	—	1610	10	—	2910*
4	—	3190	11	—	1318
5	—	1320	12	—	30 dgrs
6	—	1555	13	—	2076
7	—	2500			

Dimensions specified for gross weight tank truck

* Dimensions for curb weight tank truck

NZAS 9674

TANK

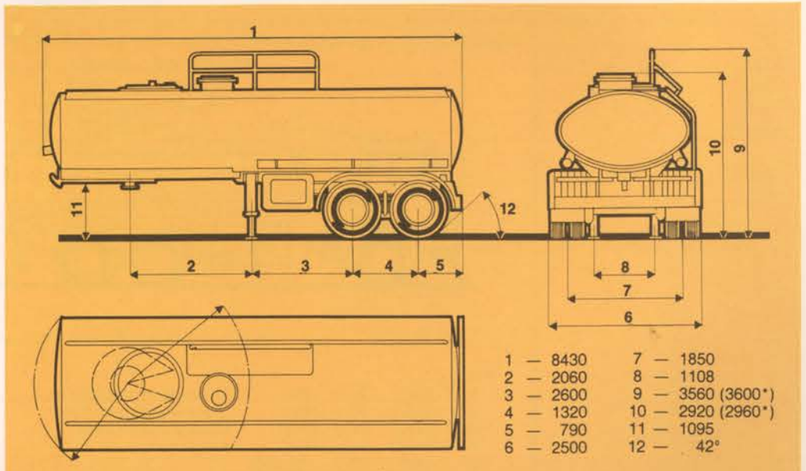
- Welded together from steel sheets, partitioned by wave suppressors into intercommunicating sections.
- Rated Holding Capacity, liters 16300
- Fuel Draining Time (self-draining from the tank), minutes no more than 35

CHASSIS

- Fully Articulated Suspension on 2 semi-elliptic springs
- Bogie — 2 axle, KAMAZ truck components
- Wheels — diskless, rim . . . . . 7.0—20
- Tyres . . . . . 9.00—20 R combination type which allows the use of both single line and double line brake pneumatic drive.
- Parking brake system is of pulley and cable type with a manual screw drive.
- Electrics — single wire DC system, Voltage 24 V.

WEIGHTS, kg

Rated Cargo Weight	13500
Tank Semi-trailer Curb Weight	5300
Tank Semi-trailer Gross Weight	18800
Fifth Wheel Load	7970
Load on Road Surface via Bogie	10830



1 — 8430
2 — 2060
3 — 2600
4 — 1320
5 — 790
6 — 2500
7 — 1850
8 — 1108
9 — 3560 (3600*)
10 — 2920 (2960*)
11 — 1095
12 — 42°

● Dimensions specified for gross weight

* Dimensions for semitrailer curb weight

NZAS 9676

TANK

- welded from steel sheets, partitioned by wave suppressors into intercommunicating sections
- rated holding capacity, liters 16300

CHARGING AND DISCHARGING UNIT

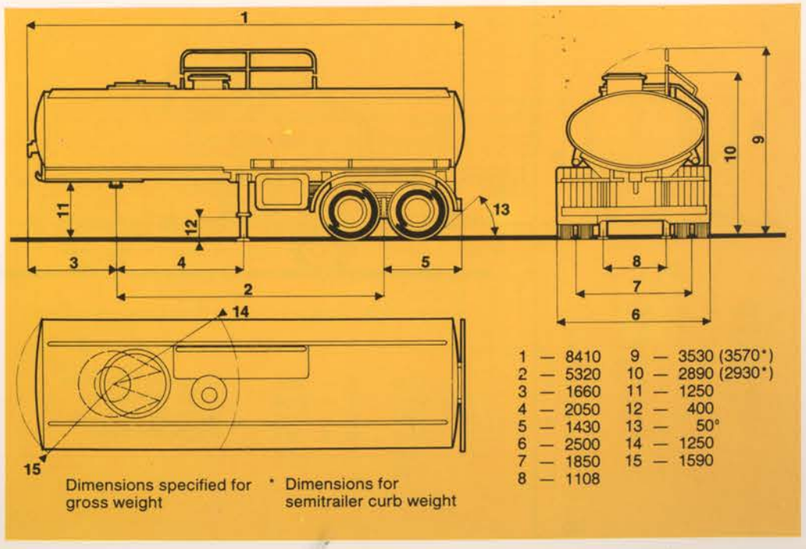
- self priming, peripheral pump
- rated capacity, liters/min. 500
- maximum self priming height, m 5.5
- tank filling time (using the pump), minutes 33
- tank draining time, minutes using the pump . . . . . 33 self draining 35

CHASSIS

- Fully articulated suspension on two semi-elliptic springs
- 2 axle bogie, KAMAZ truck components
- Diskless wheels, rim, ... 7.0—20 Tyres . . . . . 9.00—20 R
- Service Brake System is of combination type which allows the use of both single and double line brake pneumatic drive.
- Parking brake system is of pulley and cable type with a hand screw drive.
- Electrics — single wire DC system, Voltage 24 V.

WEIGHTS, kg

Rated Cargo Weight	13500
Tank Semi-trailer Curb Weight	5600
Gross Weight	19100
Fifth Wheel Load	8100
Load on Road Surface via bogie	11000



1 — 8410
2 — 5320
3 — 1660
4 — 2050
5 — 1430
6 — 2500
7 — 1850
8 — 1108
9 — 3530 (3570*)
10 — 2890 (2930*)
11 — 1250
12 — 400
13 — 50°
14 — 1250
15 — 1590

Dimensions specified for gross weight

* Dimensions for semitrailer curb weight

NZAS 8652

TANK

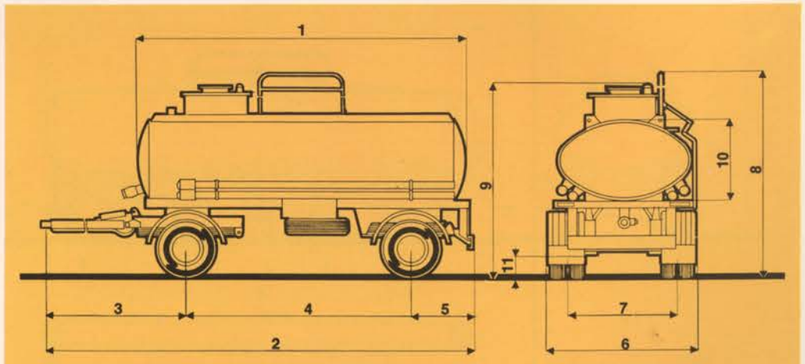
- The tank is welded together from steel sheets and partitioned by wave suppressors into three intercommunicating sections.
- Rated Holding Capacity, liters 9100
- Geometric Holding Capacity, liters . . . . . 9260—9490
- Tank Draining Time, minutes — no more than:
  using tractive unit pump . . . 20
  self-draining 25
- Brake drive is pneumatic, 2 line.
- Parking brake system is of pulley and cable type with manual drive to rear axle service brakes.
- Electrics, Voltage 24 V

CHASSIS

- The frame is of welded type and consists of 2 side members and a system of cross members. Front and Rear Suspensions — two main and two additional semi-elliptic springs. The wheels are diskless,
  rim . . . . . 7.0—20
- Tyres . . . . . 9.00—20 R

WEIGHTS, kg

- Rated Cargo Weight 7550
- Tank Trailer Curb Weight 3950
- Tank Trailer Gross Weight 11500
- Front Axle Weight 5750
- Rear Axle Weight 5750



1 — 4560
2 — 6810
3 — 2862
4 — 3010
5 — 902
6 — 2500
7 — 1850
8 — 3505**
9 — 3030
10 — 1318**
11 — 390*

* Dimensions for gross weight tank trailer
** Dimensions for curb weight tank trailer

SZAP 8527-01

CHASSIS

- The frame is of welded type and consists of side members and a system of cross members.
- Front and Rear Suspensions — two main and two additional semi-elliptic springs per each axle.
- The front ends of the main springs are fastened by pins, the rear ones are of sliding type.
- Wheels are diskless, rim 7.0—20. Service brake is of drum type with locking and unclamping shoe and with fixed unclamp knuckle.
- Pneumatically operated, 2-circuit, 2 line type.
- Parking brake — with manual screw drive to rear axle service brakes.
- Electrics — single wire DC system, Voltage 24 V.

PLATFORM

- Metallic, welded, with removable front and rear boards and tipping side boards.
- At the customer's request the platform can be provided with framework and canopy.
- Platform Area, m^2 . . . . . 12.30
- Platform Volume, m^3 . . . . 9.8

DUMPING GEAR

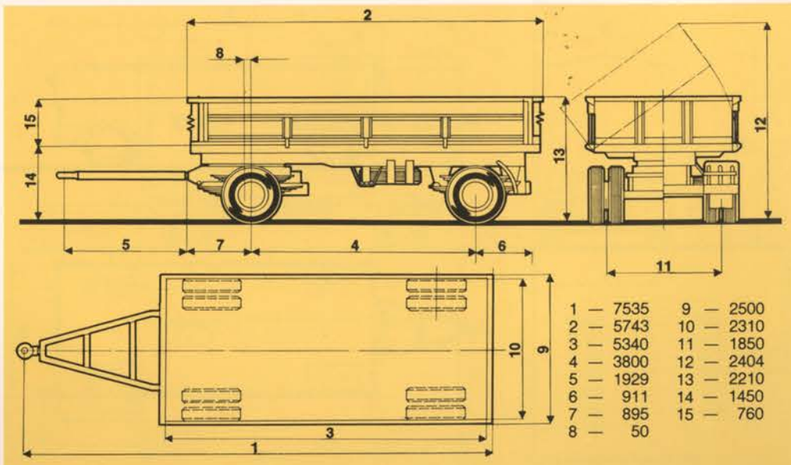
- Dump mechanism, hydraulically operated, actuated by hydraulic system of the tractive unit.
- Working Pressure in hydraulic system 140 kgf/cm^2

DUMP MECHANISM CYLINDER

- Telescopic, 3-stage.
- Laden Platform Lift Time, sec. no more than 15

WEIGHTS, kg

- Cargo Weight 7500
- Trailer Curb Weight 4100
- Trailer Gross Weight 11600
- Front Axle Weight 5800
- Rear Axle Weight 5800



1 — 7535
2 — 5743
3 — 5340
4 — 3800
5 — 1929
6 — 911
7 — 895
8 — 50
9 — 2500
10 — 2310
11 — 1850
12 — 2404
13 — 2210
14 — 1450
15 — 760

KAMAZ

SZAP 8352-01

CHASSIS

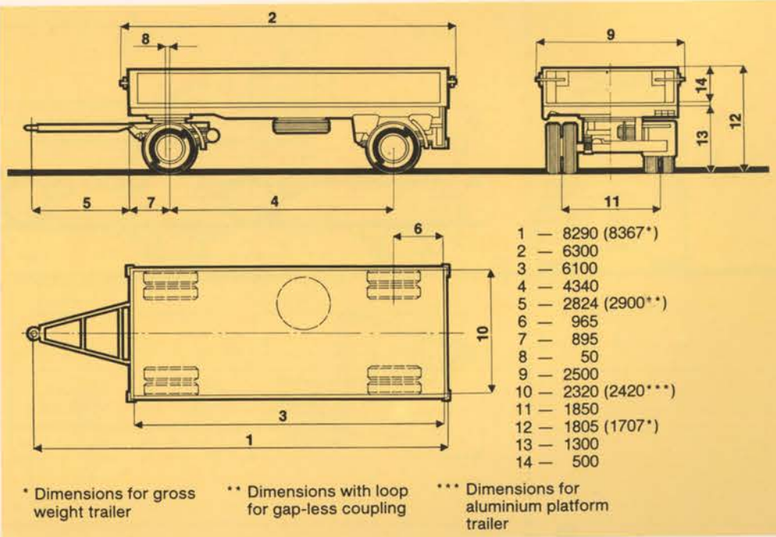
- Trailer Frame is of welded type and consists of 2 side members of channel shape and a system of cross members.
- Front and Rear Suspensions — two main and two additional semi-elliptic springs, the front ends of the main spring are fastened by rings, the rear ones are of sliding type.
- Front and Rear Axles are beams made from round pipe with pulled back trunnions having welded-on flanges.
- Wheels are diskless, rim . . . . . 7.0—20
- Tyres . . . . . 9.00—20 R
- Service brake is of drum type with a locking and unclamping shoe and with a fixed unclamp knuckle.
- The drive is pneumatic, 2 circuit, 2-line one.
- Parking brake is of pulley and cable type with manual screw drive to rear axle service brakes.
- Electrics — one wire DC system, Voltage 24 V.

PLATFORM

- With metal tailgate and dropsides, wooden flooring. At customer's request the platform can be provided with framework and canopy.
- Platform Area, sq. m. . . 14.152
- Platform Volume with Canopy, cubic m 31.955

WEIGHTS, kg

Cargo Weight	10200
Trailer Curb Weight	3500
Trailer Gross Weight	13700
Front Axle Weight	6850
Rear Axle Weight	6850



* Dimensions for gross weight trailer

** Dimensions with loop for gap-less coupling

*** Dimensions for aluminium platform trailer

KAMAZ

SZAP 8355

CHASSIS

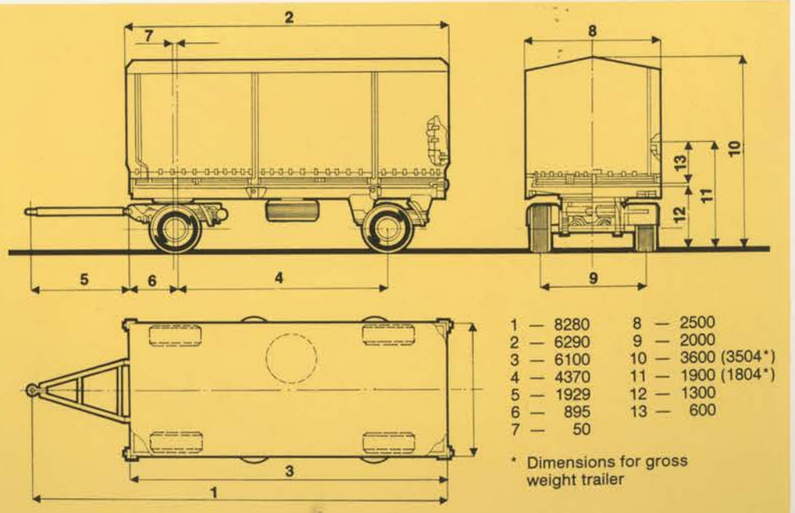
- trailer frame is welded type and consists of channel shaped side members and a system of cross members
- front and rear suspension — two main and two additional semi-elliptic springs, front ends of the main springs are secured by pins, rear ends are sliding type.
- front and rear axles — beam made from round pipe with upset ends or from square section pipe.
- wheels — disk type with rim . . . . . 8.5—20
- tyres — low profile . . . . . 310/80-508 R
- service brake system — with separate drive for front and rear axle, with service brakes on all the wheels.
- parking brake system — pulley and cable type with a manual screw drive for rear axle service brakes;

PLATFORM

- with metal dropsides and tailgate and wooden flooring
- By customer's request can be provided with a canopy framework and canopy.
- Platform area, sq. m. . . . 14.6

WEIGHTS, kg

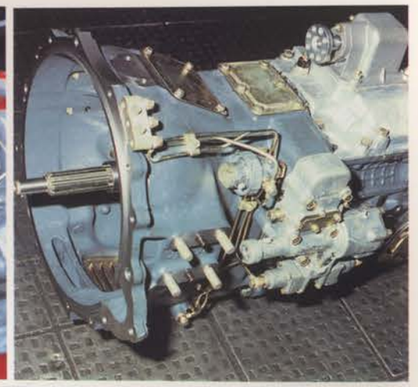
payload	8500
trailer curb weight	3200
gross trailer weight	11700
Front axle weight	5825
Rear axle weight	5825

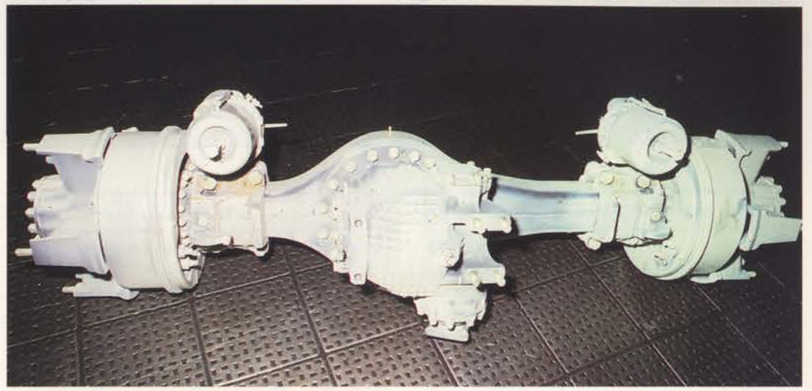


* Dimensions for gross weight trailer

KAMAZ

III. Assemblies and Units





III. Uniform Plus Reliable

— these are outstanding features of KAMAZ truck components.

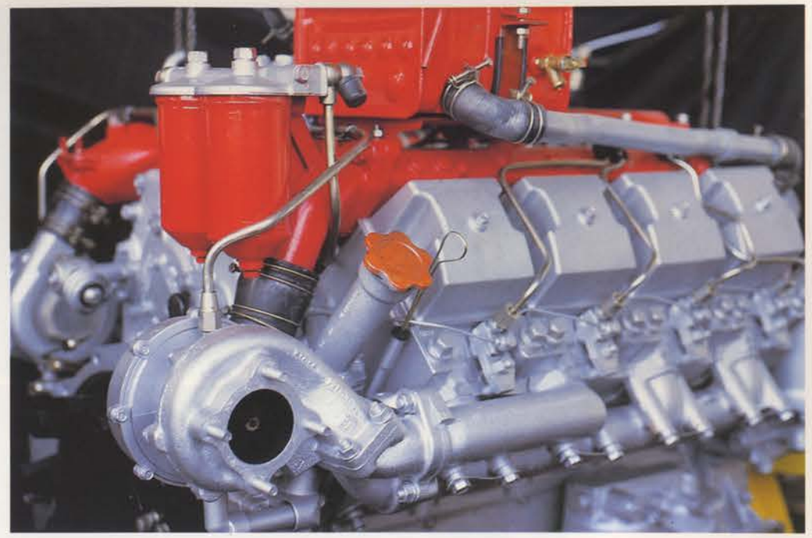
Basic units and assemblies of KAMAZ trucks are uniform which improves their reliability and makes maintenance of a fleet of trucks inexpensive. Besides, these units and assemblies can be used to repair vehicles of other makes.

Any driver will bear us out: KAMAZ diesel engine is economical, reliable, compact in size. Aside from that, owing to the use of up-to-date aluminum alloys it has a relatively low proper weight. Available in three modifications:
basic model KAMAZ-740, turbocharged KAMAZ-7403, gas & diesel KAMAZ-7409.

Design features of cylinder head individual for each cylinder simplify maintenance.

Ten speed synchronized gearbox ensures high cruising speed. Cab-over-engine set-up helps maximize the useful chassis space for cargo location and improves range of vision.

KAMAZ line of export items also includes:
— front axle
— drive axle tandem
— clutch

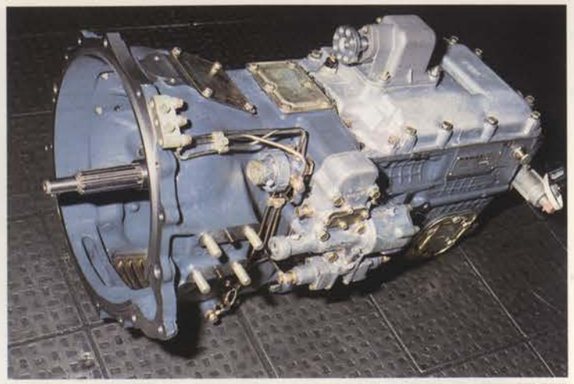


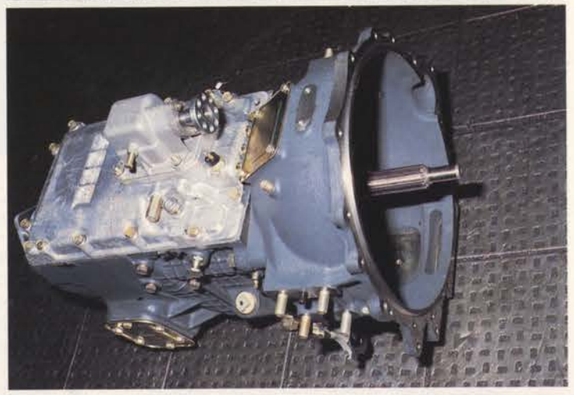
TURBOCHARGED ENGINE

ENGINE (power plant) KAMAZ-7403-10 is intended for motor vehicles, self-propelled vehicles and special purpose units.
Diesel engine, 4 stroke, V-type cylinder arrangement, at angle of 90°. Has a turbocharger which enchances engine power rating.

ESSENTIAL TECHNICAL DATA

- Displacement, cm^3 10850
- Rated Horsepower, kwt (HP) at crankshaft rpm 2600 min^{-1} 191 (260)
- Maximum torque at 1600 min^{-1}, kgfm 80
- Minimum specific fuel consumption g/kwt.h (g/HP.h) . . . 220 (162)





KAMAZ GEARBOXES

Gearbox KAMAZ-14, KAMAZ-15 are mechanical, three way. Two hatches are available for installing power take-offs of up to 22 kwt (30 HP) on both sides at the same time. Provision has been made for fitting on an electrical mechanical sender for the speedometer.
Gearbox KAMAZ-14 is a five speed gearbox with the 1-st reverse gear, and with synchronizers at the 2nd, 3rd, 4th and 5th gears.

Gearbox KAMAZ-15 is a five speed gearbox with synchronizers at 2nd, 3rd, 4th, 5th gears; equipped with a front divider which has a synchronizer.
Total number of gears with a divider — 10 forward, 2 reverse. Divider control is pre-selected, pneumatic mechanical, by means of a switch.
KAMAZ gearbox is intended for installation on the trucks together with an engine with power rating of up to 191 kwt (260 HP) and with the torque of 785 NM (80 kgfm).

TECHNICAL SPECIFICATIONS

Model	KAMAZ-14		KAMAZ-15	
Gear ratio	1—7.82	4—1.53	1L—7.82	4L—1.53
	2—4.03	5—1.00	1H—6.38	4H—1.25
	3—2.50	Reverse—7.38	2L—4.03	5L—1.00
			2H—3.29	5H—0.815
			3L—2.5	Reverse L—7.38
			3H—2.04	Reverse H—6.02
Synchronizers	inertia type, finger type, with brass rings			
Lubrication system	combination type — by spraying and by means of oil pumping unit			
Filling capacity, liters			8.5	12
Mass, kg			250	320

CAB

The cab is provided with two windshield wipers, a windshield washer for washing the outside of the winshield, two anti-sun visors, external rear view mirrors on the right hand and left hand sides, side fairings and also has heat and noise insulation.
The cab is equipped with a heater plus radiator built into the engine cooling system, with two fans for feeding hot air into the cab and for blowing off the winshield and the doors.
WINDSHIELD — composite, consists of two halves with flat three layer polished glass panes; two rear windows, rolling-down door glass panes and small windows are glazed with hardened polished glass.
DRIVER'S SEAT is fitted out with a cushioning mechanism of torsion type which has hydraulic telescopic shock absorbers. Torsion bar resilience is adjusted depending on the driver's weight.
Lengthwise position of the seat and seat back incline are adjustable.
PASSENGER'S SEAT — with folding arm rests, with adjustable lengthwise position and adjustable seat back incline.

By customer's request, if it is specified in the order, the cab can be provided with the second non-adjustable passenger seat having an reclining back.
In the front the cab is attached to the frame pivotally, in the back it is attached by two longitudinal quarter springs provided with hydraulic telescopic shock absorbers.
For cushioning vibrations transmitted by the frame front pivotal supports are provided with rubber pads.
STEERING WHEEL is left hand.
Steering wheel and steering column location provides good overview of instruments and maximum driving ease.

TECHNICAL SPECIFICATION

- Cab Mass, kg,
  sleeper option 600
  day option 578
- Inner width at shoulder level, mm 2040
- Cab tilt angles:
  permitted by the limiter . . . . 42°
  maximum angle when removing engine (with preliminary buffer removal and raising of facing panel) . . . . . 60°

CLUTCH

KAMAZ clutch is a dry friction type, two plate clutch with pressure springs located peripherally, with automatic spring adjustment, with automatically adjusted position of the intermediate drive plate.

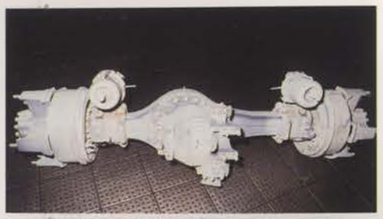
KAMAZ-14 clutch is designed for installation with the engines rated for 162 kwt (220 HP) at 2600 rpm, torque 657 Nm (67 kgf.m)
KAMAZ-142 clutch is designed for installation with the engine rated for 191 kwt (260 HP) per DIN at 2600 rpm, torque 785 Nm (80 kgf.m)

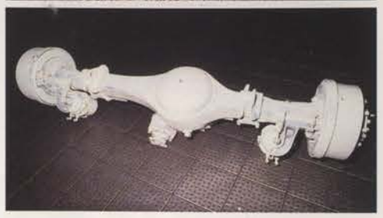
TECHNICAL SPECIFICATION

	KAMAZ-14	KAMAZ-142
Number of driven plates	2	2
Friction facing dimensions, mm		
outside diameter	350	350
inside diameter	200	200
thickness	4.5	4.5
Friction Facing Area, cm^2	612	612
Cumulative Force of Pressure Springs, kg	1080	1450
Number of Pressure Springs	12	24
Transmission ratio of pullback levers	4.85	4.85
Working stroke of the clutch release coupling, mm	12	12
Mass, kg	48.4	48.77

DRIVE AXLE TANDEM

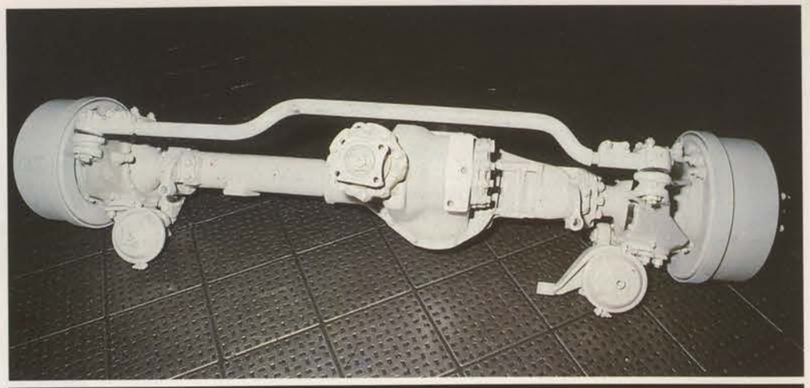
KAMAZ-made Drive Axle Tandem is meant for installation on trucks. Drive Axles have welded stamped beams. Middle Axle is of through type with interaxle differential that can be locked by means of a pneumatic drive.
By customer's request, if it is stipulated in the contract, the Drive Axle Tandem can be supplied complete with a propeller shaft.

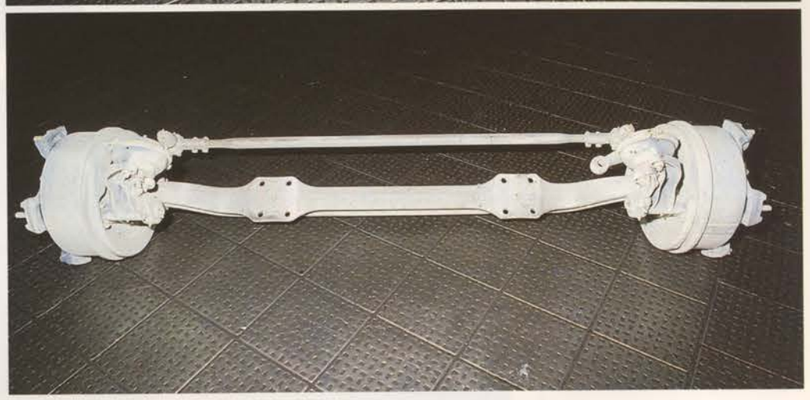




TECHNICAL SPECIFICATION

	Tandem Modifications		
	KAMAZ-5320	KAMAZ 55111	KAMAZ-4310
Final Drive	Two speed		
Gear Ratios (optional)	5.94, 6.53, 7.22		7.22
Interwheel Differential	Conical, symmetrical		
Axle Shafts	Fully Unloaded		
Interaxle Differential	Conical, symmetrical, lockable		
Locking Mechanism	Diaphragm type		
Interwheel Differential	Conical, with 4 satellites		
Allowable Load on Road Surface via			
2 Axles, kg	11000	16500	10400
Track, mm	1856	1856	1856
Spring Track, mm	1102	1102	1102
Road Clearance with Tyres			
260-508 R, mm	295	295	
15.7—20.9			390
Wheel Rim Size, mm (inch)	508(20)	508(20)	533
Tandem Mass, kg	1146	1147	1096
Brake Type	Drum type with two internal shoes		
Brake Drum Diameter, mm	400	400	400
Brake Lining Width, mm	140	140	140
Cumulative Area of Brake Linings, sq. cm	6300	6300	6300
Brake Chamber Type	20/20	20/20	24/24





FRONT AXLE

KAMAZ-made Front Axle is an I beam with steering knuckles, levers and steering geometry link.
Front Axle is designed for trucks and buses.

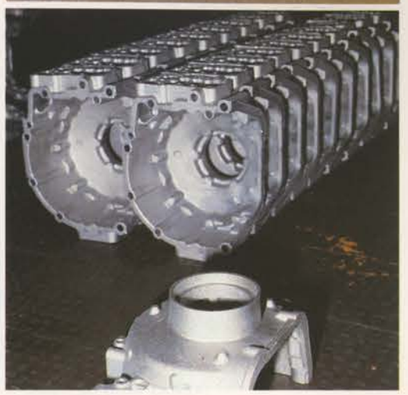
TECHNICAL SPECIFICATION

- Maximum inner wheel turn angle — no less than . . . . . 43°
- Toe-in . . . . . 6′∓2′
- Permissible Load on Road Surface, kg 4500 (5500)
- Wheel Rim Size, mm (inch) 508 (20)
- Road Clearance with tyres 260—508 R, mm 280
- Brake Type — Drum type, with two inner shoes
- Brake Drum Diameter, mm . . 400
- Brake Lining Width, mm . . . 140
- Cumulative Area of Brake Linings, sq. cm 6300
- Brake Chamber Type 24
- Track, mm 2026
- Spring Track, mm 826
- Mass, kg 316

KAMAZ

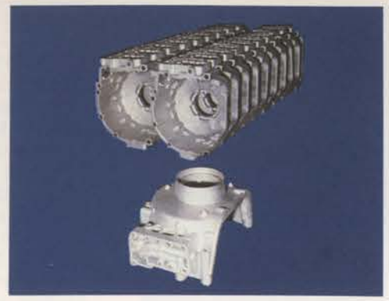
IV. Castings, Forgings, Pressings



IV. Foundry, Forge, Presswork Facilities: new manufacturing capability

Absolutely up-to-date metal working machinery is concentrated in KAMAZ Material Preparation Divisions. Newest metal working methods and manufacturing processes are being used here. Experience and expertise of the personnel combined with computer technology help to set up volume production of particularly complex parts within a short time scale. Meanwhile not only high precision and accuracy are obtained on the parts produced, but also required machining is minimized.

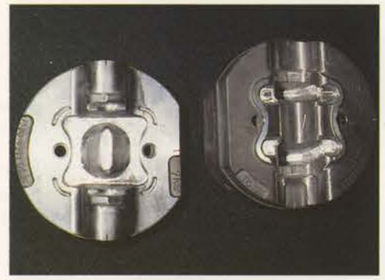


FOUNDRY

KAMAZ truck parts cast from:

- gray iron:
gear divider housing;
clutch housing;
gearbox casing;
cylinder block;
gearshift lever bracket;
brake drum;
dimensions, mm: from 120.5 to 682.5
weight, kg: from 7.7 to 222

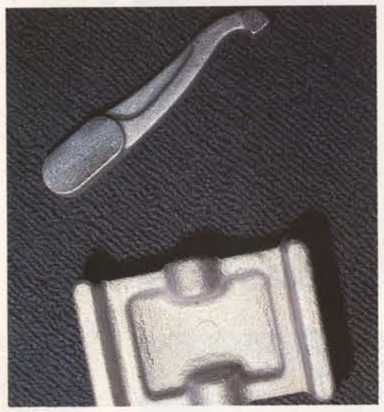
- ductile iron:
wheel hub;
bracket of the brake chamber and front brake unclamp knuckle;
piston ring: compression ring and oil control ring; primary shaft rear bearing cover;
bevel gear bearing body;
dimensions, mm: from 6.0 to 496.0
weight, kg: from 0.115 to 48



- aluminium alloy:
inlet manifold;
water pipe;
cylinder cover;
fine fuel filter cover;
pneumatic hydraulic booster casing;
gear divider actuator valve casing;
dimensions, mm: from 9 to 622
weight, kg: from 0.1 to 4.1

- steel:
rear suspension bracket;
drawbar unit housing;
lever and hinge of the platform dropside lock;
dimensions, mm: from 8 to 610
weight, kg: from 0.45 to 35.

In assemblies where high accuracy, dimensional consistency, complex shapes and designs are required, a wide use is made of investment castings with overall dimensions from 9 to 120 mm, weight from 0.015 to 0.45 kg.



FORGE

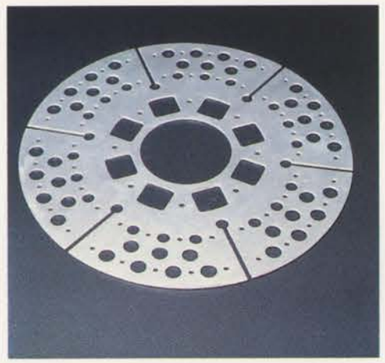
FORK TYPE forgings with considerable difference in cross section areas. For their manufacture forging rolls are used. In forming local extrusion is used in initial roughing impressions.
Forgings are made from structural and alloy grades of steel with enhanced and normal accuracy, complexity groups from 1 to 4. Mass — from 0.2 to 7 kg.
SHAFT TYPE forgings of elongated shape with small difference in cross section areas. The items are forged in rolls and the core parts are extruded. They are made from structural and alloy grades of steel with enhanced and normal accuracy, complexity groups from 2 to 4. Mass — from 0.4 to 13 kg.

Forgings which have a ROUND SHAPE in PLAN VIEW — symmetrical forgings made by upsetting ends. The forgings are formed in one and two passes using upsetting anvil.
They are produced from structural and alloy grades of steel with enhanced and normal accuracy, complexity groups from 1 to 3. Mass from 0.7 to 19 kg.

LEVER TYPE forgings with curved axis and tags. The items are forged in forging rolls, bending impressions, dies with locks, using local extrusion. They are produced from structural and alloy grades of steel, enhanced and normal accuracy, complexity groups from 2 to 4. Mass from 0.2 to 25 kg.
All types of forgings are heat-treated to customer's specification. Forgings are shot-peened to clean them from scale. Apart from that, KAMAZ Forge Division manufactures forging inserts for presses with tonnages 1000, 1600, 2500, 4000 and 6300 from high alloy tool steels. It also casts forging inserts in zirconium based molds. Shape forming die impresions, after hardening, are processed on electrochemical and electrical discharge machines. Forging inserts are nitrided for better strength.

PRESSWORK FACILITY

Automotive parts of various configurations are produced by stamping 0.9—8 mm thick steel sheet.
CLUTCH DRIVEN PLATE intended for transmitting engine crankshaft torque to the vehicle transmission for a slow start of the vehicle from parked position and acceleration, also to disconnect the engine from transmission for a short period when changing gears.
Material — Steel 65. Thickness — 2 mm. Mass — 1.19 kg.
Overall dimensions in plan view, mm 2 × 360 × 360



CYLINDER BLOCK SUMP

This is the main reservoir in the engine lubrication system. It is bolted to the cylinder block. A rubber cork gasket seals the joint. Oil is poured in through a filler neck in the rear of the cylinder block. Oil level is checked with a rod type indicator.
Material — Steel 08. Al deoxidized. Thickness — 1.5 mm. Mass — 8.4 kg.
Overall Dimensions in plan view, mm 1.5 × 1200 × 725.

HOUSING

Meant to accomodate interaxle differential which transmits torque to driving axle final drives. A housing cover is welded onto the axle housing.
Material — Steel 17. Si Mn Thickness — 1.3 mm. Mass — 37.2 kg
Overall dimensions, mm — 13 × 360 × 1650

HOUSING COVER

Material — Steel 20. Thickness — 8 mm. Mass — 12.8 kg

CAB FACING COMPONENTS

Side Door (left hand, right hand), made from steel 08. Al deoxidized Thickness 0.9 mm. Front Facing Panel. All parts are made from 0.9—1.2 mm thick steel sheet.

KAMAZ

V. Electronic Instruments

V. Electronics from KAMAZ: Stability, Consistency, Multi-purpose Application

KAMA River Automotive Works has its own Electronic Instrumentation Manufacturing Facility.
One of the latest items featured in its export range is a Personal Computer manufactured by "Dialogue", a USSR-USA joint venture company. Non-standard devices for computers, "Blik-I" Hydraulic System Tester are also in the product line.

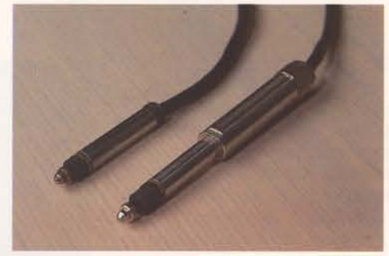
Undoubtedly, foreign customer's interest will be focused on the range of instrumentation for monitoring linear dimensions, specifically: "Micron-002", "Micron-003", Induction Sensors of differential-transformational type, Proximity Limit Switches, etc.

КАМАЗ

ID-001 is designed to convert linear movements into an electrical signal. In combination with an electronic measuring device it can measure component linear dimensions.
It can be built into complex measuring heads or it can operate as part of automatic control units.

TECHNICAL SPECIFICATION

- Measuring Range, μm . . ±1000
- Error in linearity of conversion characteristic, % 0.5
- Sensitivity, mV/μm 0.8
- Power, V 3.5
- Frequency, kHz 7.5
- Connection Dimension, mm . D 8
- Overall Dimensions, mm . 8×110



INDUCTION MEASURING HEAD ID-003 is designed for in-process and post-operational control of linear dimensions in a component. With the help of ID-003 and an appropriate electronic module, the machining of round, smooth components on machinetools can be automated.

TECHNICAL SPECIFICATION

- Measuring Range, μm . . ±500
- Error in linearity of conversion characteristic, % 0.5
- Sensitivity, mV/μm 0.8
- Power, V 3.5
- Frequency, kHz 7.5
- Connection Dimension, mm . D 8
- Overall Dimensions, mm . . . . . D 8×48

Hole Checker "MICRON-002" is meant for acceptance and operational control of holes. It can check diameters within 40—120 mm range. The measured parts can be sorted out into three groups "reject", "good", "reworkable".

TECHNICAL SPECIFICATION

- Measuring Range, μm . . . . . 50 (±25)
  . . . . . 500 (±250)
- Reading Discreetness, μm . . 0.1
  . . . . . 1.0
- Measuring Error, μm . . . . . No more than 1.0
- Electronic Module Power Requirement Voltage, V 220
- Frequency, Hz 50
- Power Consumption, VA . . . 10
- Overall Dimensions, mm
  Electronic Module . 260×200×70
  Measuring Sensor . 40 (120)×180
- Mass, kg . . . . No more than 3.0

"MICRON-003" is meant for post-operational control of linear dimension variations in a component.

Unlike equivalent foreign-made products it can be used as part of manual control devices or within automatic control units, as well as for in-process control as part of machinetools.
Thanks to its modular design it can be put together into various configurations with different number of sensors and adapted to a specific application depending on the requirement without any considerable modification.

KAMAZ

TECHNICAL SPECIFICATION

- Measuring Range, μm . . . . . ±25—500
- Measuring Error, μm 1
- Resolution, μm 0.5
- Maximum number of sensors two types 16 (32)
- Maximum Number of Parameters under control 8 (16)
- Number of classification groups 5
- Power Consumption, VA . . . 80
- Electronic Module Overall Dimensions, mm . . . . . 455 × 350 × 290
- Mass, kg 8

PROXIMITY LIMIT SWITCHES are used as operator position sensor in machinetools and automatic lines in engineering industry, in wood working machines, textile equipment.

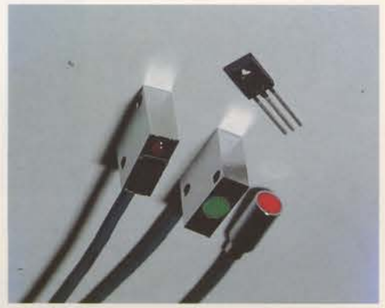
TECHNICAL SPECIFICATION

a) DC switches
Power . . . . . 12—27 V
Switching Current . . 100—500 mA
Sensitivity . . . . . 1.0—10 mm
Mass . . . . . 100—300 grams
Execution . . . metal threaded body

b) AC switches
Power . . . . . 90—150 V
Switching Current . . . . . 140 mA
Sensitivity . . . . . 5—15 mm
Mass . . . . . 150—300 grams
Execution . . . metal threaded body

MODERN 16-BIT PERSONAL COMPUTERS, IBM PC/XT TYPE
Basic Set for publishing and editing, for handling databases, for instruction and teaching programmes, etc. features:

- CPU Intel 8088 4.77/8 MHz
  Memory 640 Kbytes
  4 Expansion Slots
  Space for Hooking up a co-processor
  Keyboard, Cyrillics — Latin (101 keys)
  220 V Power Supply 130 Watts
- Enhanced Graphic Adaptor (EGA)
- 14″ Color Graphic Monitor, Resolution 640 × 350
- One Parallel Port for Matrix Printer
- One Serial Port (RS 232 C)
- Hard Disk Drive, capacity 20 Mbytes with controller
- Floppy Disk Drive, double sided, double density 6.25, capacity 360 Kbytes with controller
- Matrix Printer 80/132 characters per line (compatible with EPSON FX-800)
- Operating System DOS V.3.3, Description
- Set of Technical Documentation



KAMAZ

"BLIK I" HYDRAULIC TESTER is designed for checking technical condition of hydraulic systems. It can be used in machine building, chemical, petrochemical and other industries where production process involves the use of non-aggressive liquids.

Simple and Original Circuitry Design
Digital processing of signals
Direct Reading of Measured Values on the Digital Indicator
High Operating Reliability
Continuous Monitoring of Power Supply Discharge

Flow Measurement:
Subrange I — 5—15 liters/min. ±3 %
Subrange II — 10—125 liters/min. ±2 %

Pressure Measurement:
0—16.0 mPa (0—160 kgf/cm²) ±4 %

Temperature Measurement:
10—90° C ± 1 %

RPM Measurement:
200—4000 rpm ± 2 %

RS 232 INTERFACE — TO — CURRENT LOOP CONVERTER FOR PC-16

Intended for simulating modem operation mode and for converting junction signals RS 232 to marking pulses 20 mA.

TECHNICAL SPECIFICATION

● Level of input signals	+12 V/ — 12 V
● Level of output signals	current loop 20 mA
● Transmission Mode	duplex
● Communication Line	dedicated, four wire
● Range	up to 1.5 km
● Operating mode:	
for transmitter	active or passive
for receiver	active or passive

SERIAL ASYNCHRONOUS SINGLE LINE ADAPTOR
Intended for hooking up remote devices (including computer) having start-stop mode of operation.

TECHNICAL SPECIFICATION

1. Number of Channels	1
2. Used Interfaces	
for hooking up with computer	UNI-BUS
for hooking up with terminal	V 24 or current loop 20 mA
3. Method of transmission	serial, start-stop
4. Method of operation	asynchronous
5. Data Transmission Mode	duplex — half-duplex
6. Data Transmission Speed in line	300—9600 bauds
7. Code Length (bit)	5, 6, 7, 8
8. Type of control	even, odd, lack of control
9. Secondary Power Supplies:	
Voltage (V)	−12, +5, +12
Current consumption (A)	0.15, 2, 0.1
10. Overall Dimensions, mm	233.4, 220, 15
11. Mass (kg)	0.3

KAMAZ

VI. Tools:

Pneumatic Tools

Cutting Tools

VI. Original and simple design, accuracy and wear resistance make cutting and pneumatic tooling offered by KAMAZ indispensable in mass and volume production.

Cutting tools (disk type gear cutters, disk type shavers, built up hob cutters, drill bits), are made from high speed steels with NiTi coating.

The export range features a wide choice of pneumatic tools:

- five types of nut runners. Typical of all of them are vibration safety, reliability, small weight.
- pneumatic drives used in multi-spindle thread tightening units.

As well as:

- spring loaded equalizers intended for hanging various tools at a workplace.
- threaded and smooth plug gauges

KAMAZ

ANGULAR NUT RUNNERS

These are intended for assembling and disassembling threaded joints in inaccessible areas.
Reversing feature, location of nut runner body in a plane square to the centerline of the item to be tightened, availability of a shackle for hanging — all these make the tool more convenient in use.
Automatic shut-off feature in nut runners model K-R50AC047I, K-R60AC049I upon reaching a pre-set torque ensures torquing accuracy and makes the tool more economical.

	torque on soft connection Nm		RPM	Weight kg
K-MGS320CR/K-16H2K 3/8	30	24	850	2.4
K-R50AC047I	87	39	280	5.1
K-R60AC049I	126	57	240	6.5

GUN TYPE NUT RUNNERS

These are intended for assembling and disassembling small threaded joints. Small weight, reversing feature, a convenient handle — all these make the tool very useful in many applications in mass and volume production.

	torque on soft connection Nm		RPM	Weight kg
K-P1516R/K-16AX	4.1	1.0	1600	1.2
K-AP312CR/K-16VY	14.0	7.0	1200	2.4

STRAIGHT TYPE NUT RUNNERS

These are intended for assembling and disassembling small threaded joints. Reversing feature, small weight make the tool convenient in use. Availability of screw vacuum grip on nut runner model K-MG110R/K-12E1ACC makes finger-tightening unnecessary.

	torque, Nm				RPM	Weight kg
	rigid		flexible			
K-MG110R/K-12E1ACC	4.0	0.8	2.5	0.2	900	0.6
K-G159R/K-16AY	6.5	1.8	6.2	1.2	900	0.95

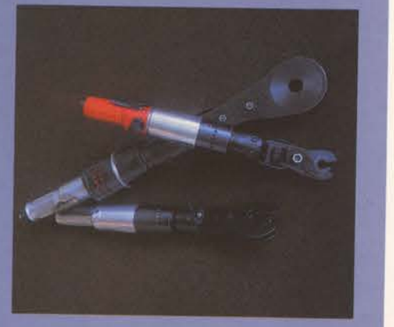
IMPACT NUT RUNNERS

These are intended for assembling and disassembling threaded joints. Absence of reactive torque, rapid torquing, small weight and overall dimensions, reversing feature and adjustable torque — all these contribute to the wide use of impact Nut Runners.

Description	K-18C2	K-18C2M	K-18C4	K-18C4M	K-18C6	K-18B7T	K-18B9T
Max. thread diameter to be tightened	M 10		M 12		M 16	M 22	M 30
Initial Tightening Force on rigid joint, N	27000—29700		74700—83000		117000—128700	146700—161370	293400—322740
Tightening Torque on rigid joint Nm	11—50		40—145		140—340	190—760	650—1450
Torquing Time sec.	5		5		5	5	5
Spindle rpm when idling, 1/sec.	96.0—106.6		61—68		55—60.5	50—55	40—49.5
Compressed air pressure at nut runner input, mPa	0.6		0.6		0.6	0.6	0.6
Air consumption when idling m^3/sec.	0.012		0.015		0.020	0.024	0.029

RATCHET TYPE NUT RUNNERS

These are intended for assembling and disassembling pipework as well as threaded joints in areas which are difficult to get at. The possibility of turning the nut runner around the longitudinal axis 180 degrees allows one to reverse the ratchet wheel rotation. The nut runners have two design options: with closed and open ratchet.



	torque on rigid joint Nm	rpm	weight kg
K-GO212M/K-17-17994-43	17	150	1.6
K-MGS312C/K-17-17994-43	25	150	2.5
K-MGS312C/K-RA0003B66	56	100	2.9
K-MGS17-515M/K-17-26680-52	220	125	4.4
K-MGS17-515M/K-17-26680-89	320	60	5.0

PNEUMATIC DRIVES

A wide choice of sizes, reversing feature, right hand and left hand rotation, use of spring loaded tips enable the user to perform many different jobs, for example, simultaneous tightening (loosening) of several threaded joints. Special drive set-ups incorporating special reducers allow one to tighten simultaneously closely located threaded joints.

Motor			Spindle Tip	Reducer
Right Hand Rotation	Left Hand Rotation	Reversible		
K-AME220M	K-MME220ML	K-MMD220MR	—	K-16-2-21 K-16-2W21-25 K-16-2W21-50
K-AME212M	K-MME212ML	K-MMD212MR	K-16-2H K-16-2HW25 K-16-2H-W50	K-16-2-21 K-16-2W21-25 K-16-2W21-50
K-AME26M	K-MME26ML	K-MMD26MR		
K-AME24M	K-MME24ML	K-MMD24MR		—
K-AME36C	K-MME36CL	K-MMD36CR	K-16-3H K-16-3W25 K-16-3W50	K-16-3-43 K-16-3W43-25 K-16-3W43-50
K-AME34C	K-MME34CL	K-MMD34CR		
K-AME58	K-MME58L	K-MMD58R	K-16-5H K-16-5W25 K-16-5W50	K-16-5H43 K-16-5HW43-25 K-16-5HW43-50 K-16-5HW21-25 K-16-5H21 K-16-5HW21-50
K-AME56	K-MME56L	K-MMD56R		
K-AME54	K-MME54L	K-MMD54R		
K-AME53	K-MME53L	K-MMD53R		K-16-5H21 K-16-5HW21-25 K-16-5H-W21-50
K-AME63C	K-MME63CL	K-MMD63CR	K-16-6HW25 K-16-6HW50	K-16-6HW21-25 K-16-6HW21-50
K-AME62C	K-MME62CL	K-MMD62CR		

TECHNICAL SPECIFICATION

Type	RPM at air pressure mPa				Torque in Nm at air pressure mPa				Weight kg	Flow Rate m^3/min.
	0.6	0.5	0.4	0.3	0.6	0.5	0.4	0.3		
K-AME212M/K-16-2H	935	875	835	795	7.5	6.0	5.2	4.0		
K-AME26M/K-16-2H	470	440	420	400	15	12.7	10.5	8	1.5	0.47
K-AME24M/K-16-2H	300	280	270	255	23	19.5	16	12		
K-AME220M/K-16-2-21	990	925	850	825	8.1	7.0	6.0	4.0		
K-AME212M/K-16-2-21	460	435	415	395	14	11.2	9.7	7.5	2.5	0.47
K-AME26/K-16-2-21	230	220	210	200	26	21.5	17	13.5		
K-AME36C/K-16-3H	460	430	410	350	32	27	22	16		
K-AME34C/K-16-3H	325	300	290	250	44	37	30	22	2.2	1.14
K-AME36C/K-16-3-43	330	320	310	260	37	31	25	19	3.1	1.14
K-AME34C/K-16-3-43	230	225	220	185	51	43	35	26		
K-AME58/K-16-5H	660	615	530	445	53	44	35	26		
K-AME56/K-16-5H	470	435	375	315	74	62	49	37	4.1	1.2
K-AME54/K-16-5H	310	290	250	210	112	94	74	56		
K-AME53/K-16-5H	260	244	210	175	133	112	89	66		
K-AME58/K-16-5H43	480	445	385	320	66	55	44	33		
K-AME56/K-16-5H43	340	315	270	230	93	77	61	46	5.3	1.2
K-AME54/K-16-5H43	225	210	180	150	139	117	94	70		
K-AME54/K-16-5H21	155	145	125	105	197	165	132	99		
K-AME53/K-16-5H21	130	120	105	85	234	195	156	117	8.1	1.2
K-AME63C/K-16-6HW	260	240	220	195	170	141	110	85		
K-AME62C/K-16-6HW	190	175	160	120	235	193	153	119	6.5	1.45
K-AME63C/K-16-6HW21	135	125	110	100	300	249	195	150		
K-AME62C/K-16-6HW21	100	90	85	75	410	340	267	205	15.1	1.45

CUTTING TOOLS

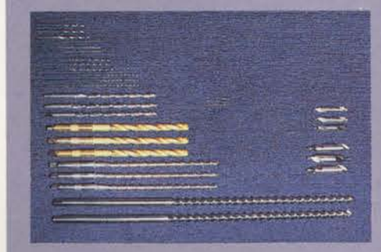
DISK TYPE GEAR CUTTERS, module 1.5—6 mm, number of teeth Z = 26—120.
DISK TYPE SHAVERS, module 1.5—6 mm, angle of thread $\alpha = 20°$, diameter $D \leqslant 300$ mm.
BUILT-UP HOB CUTTERS, module 1.5—6 mm, diameter $D \leqslant 160$ mm, number of teeth Z = 12—15, lift angle $\leqslant 5°$, angle of thread $\alpha = 14—30°$ class "A" — "AA".
Owing to the use of special technology (Klingelnberg) working profile backing-off is replaced with grinding which has helped to obtain profile surface quality 0.32.

DRILL BITS

KAMAZ Tooling Plant produces Drill Bits 1—17 mm in diameter. For drill bits with cylindrical shanks the length is not restricted. For drill bits with tapered shanks the maximum length is 250 mm.
The length of the chip breaking flute is 270 mm, angle of flute helix is 15—60°.
By bit flute profile the following types are being offered:

1. with radius profile and increased core thickness
2. screw type
3. twist type

Radius profile drill bits are used in drilling deep holes on high alloy, hard-to-machine materials.
Screw type is used for drilling deep holes in light alloys.



GAUGES

Threaded Plug Gauges are made in 0, 1—2 accuracy class per KAMAZ standard without coating in a set of GO and NOT GO.
Plugs of up to M 10 are made as one piece, and over M 10 — with exchangeable handles.

size	annual production rate
M 2—M 10	15000 SETS
M 10—M 18	12000 SETS
M 18—M 24	10000 SETS
M 24—M 28	5000 SETS

Smooth plug gauges are made in 1; 2 accuracy class per KAMAZ standard, without coating, in a set of GO and NOT GO.
Plugs of up to 10 mm are made as one piece, and over 10 mm — with exchangeable handles.
Plugs are made in diameters ranging from 1.5 to 14 with execution dimensions per customer's choice in the amount of 5000 sets.

SPRING LOADED EQUALIZERS

Since the cable length and spring tension are adjustable the equalizers can be used with any manufacturing equipment.
A built-in interlock system prevents the tool from falling down if the spiral spring should break.

	Load Lifting Capacity, kg	Cable Length, mm
K-65G2	1— 2	1500
K-65G5	2— 5	1750
K-65G10	6—10	1600
K-65G17	12—17	1650
K-65S20	15—20	2100
K-65S25	20—25	2100
K-65S30	25—30	2100
K-65S35	30—35	2100
K-65S40	35—40	2100
K-65S45	40—45	2100
K-65S50	45—50	2100
K-65S60	50—60	2100
K-65S70	60—70	2100
K-65S80	70—80	2100
K-65S90	80—90	2100

KAMAZ

VII. Goods for Your Home

KAMAZ

VII. Everything for your home

Today KAMAZ is turning out over one hundred items of consumer goods. These include VAZ 1111 OKA extra small car, load carrying trailers to be coupled with cars, a "Pioneer" class kart, a universal manual binding machine, a "Do-it-Yourself" Tool Kit "Lyubitel" ("Do-it-Yourself Enthusiast") and also different items for household use. Interesting designs, high quality of manufacture, simplicity and reliability in use are the hallmarks of KAMAZ made products.

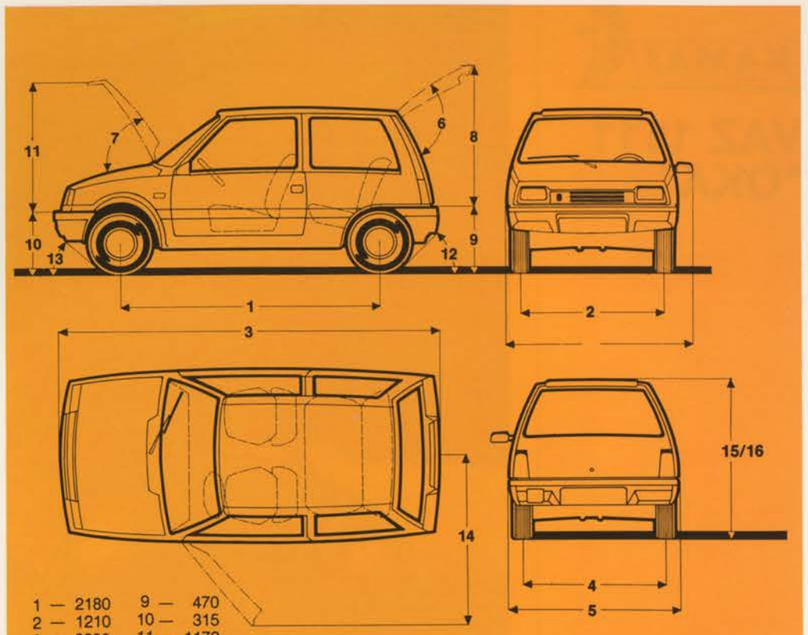
KAMAZ

VAZ 1111 "OKA"

VAZ-1111 OKA

DESCRIPTION: VAZ-1111 car has a wedge-like body with bent side glass windows and a large incline angle of the windshield and rear glass pane.
BODY: three door, two volume body.
The car has crosswise engine location with torque transmitted to the front wheels which renders the car stable against lateral skidding, makes it possible to take better advantage of its length, to reduce the vehicle mass and to make the car compartment more comfortable. The car transmission is simple, compact in size and reliable. It is arranged into a single unit which consists of clutch and gearbox with final drive and differential.

Front wheel suspension that is of "rocking candle" type is light, has large wheel travel and increased elasticity. Crosswise engine location and "rocking candle" suspension combine very well with rack-and-gear steering.
The brake system has effective front disk brakes and rear drum brakes. The car has a heating system and a ventilation system. It is designed for operating at ambient temperatures between −40 and +45° C, relative humidity — up to 90 % at +27° C.
The car can be used with a trailer of the following permissible weights:
trailer with brakes — 400 kg
trailer without brakes — 200 kg



1 — 2180 9 — 470
2 — 1210 10 — 315
3 — 3200 11 — 1172
4 — 1200 12 — 44°
5 — 1565 13 — 35°
6 — 110° 14 — 1715
7 — 70° 15 — 1400 — for curb weight vehicle
8 — 1420 * — 1312 — for gross weight vehicle

TECHNICAL SPECIFICATION

1. Number of Seats including Driver Seat 4
2. Gross Vehicle Weight . . . 975 kg
3. Unfilled Vehicle Weight . . 580 kg
4. Maximum Speed at Gross Vehicle Weight . . . . . 120 km/h.
5. Acceleration Time to Reach 100 km/h . . . . . 36 sec.
6. Fuel Consumption per 100 km when constantly driving at 90 km/h, liters 4.5
7. Displacement, liters 0.649
8. Rated Power, kwt (HP) 21.5 (29.3)

CAR TRAILER, DUMPING TYPE "KAMAZ-8125"

Mass of Cargo that can be carried	no more than 200 kg
Trailer Curb Weight	105 kg
Road Train Maximum Speed	80 km/h.
Overall Dimensions, mm	
length with drawbar	2300
width	1392
height	780
Road Clearance, mm	230
Wheel Track, mm	1235
Number of Wheels	3 (one spare wheel)
Tyres tubed, low pressure tyres	4.00—10 Grade
Tyre Air Pressure, kgf/cm^2	2.4
Platform Flooring Area, m^2	1.3
Body	all metal monocoque with tailgate
Trailer Accessories	flat canopy

CARGO TRAILER FOR CARS, MODEL 8122, "PCHYOLKA" (BEE)

The trailer has a tipping tailgate and front dropside. Provision is made for tilting the trailer body to unload cargo without uncoupling the trailer from the car.

Mass of cargo to be carried, kg	200
Trailer Mass, kg	
Curb Mass	125
Gross Mass	325
Overall Dimensions, mm	2680 × 1380 × 860
Body Flooring Area, m^2	1.86
Body Capacity, m^3	0.61

"PIONEER" KART

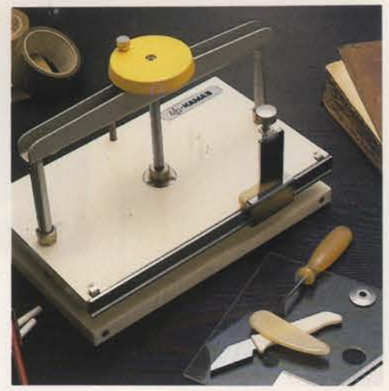
This one is intended for creative engineering classes, for driving instruction and karting races for children between 9 and 14 years of age.
The vehicle mass without fuel and driver is 52 kg. The Rear Wheel Track is adjustable within 760—900 mm range. The minimum distance from the road surface to the vehicle lower point is no less than 30 mm.
The engine is a volume produced engine B-501. At the customer's request there is a provision for installing a different engine.
The Fuel Tank Capacity is no more than 5 liters. Fuel is fed to the carburettor by a mechanical fuel pump.
Disk Brakes are hydraulic with drive to the rear wheels.
Bucket seat with a plastic base without shock absorber suspension.

ESSENTIAL TECHNICAL DATA

- Maximum Speed — no less than 40 km/h.
- Coasting Distance at a speed of 30 km/h. — 50 m
- Acceleration Time (to start from parked position and reach the speed of 30 km/h) — no more than 10 sec.
- Maximum Turning Radius per Outer Front Wheel Trace — no more than 3.5 meters.
- Noise Level at Full Speed — no more than 82 dB
- Braking Distance, Gross Weight Vehicle, at a speed of 30 km/h. — no more than 10 m.

The vehicle can be furnished with a multi-purpose transport accessory.

UNIVERSAL HAND-OPERATED BINDING MACHINE

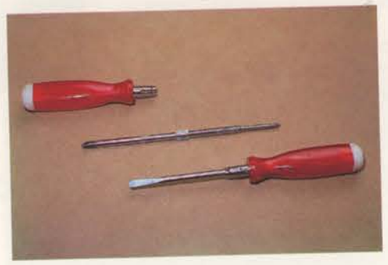


With the help of the machine you can tailor sheets, cut paper and cardboard, make inner book by gluing or by sewing with laces, tape, gauze; you can process the inner book after sewing, cut it, make binding covers, do the pressing, dry covers and books.
The machine is furnished with a knife plough which makes it very easy and safe to cut the edges of the bottom inner book which can be of any thickness.
Depending on the size of the inner book to be processed the binding machine is available in three options:

Description	Machine Overall Dim. mm			Thickness of inner book to be clamped	Inner book Dim.	Mass kg
	length	width	height			
"Shkolnik" (Schoolboy)	290	236	240	90	240 × 180	6.2
"Praktik" (Practician)	354	276	240	90	310 × 220	7.6
"Zhurnalist" (Journalist)	400	326	240	90	350 × 270	9.0

SHOPPING BAG ON CASTORS Convenient to carry foodstuffs in as well as vegetable garden crops, household tackle and small size personal effects. The product features a shopping bag proper with straps 340 × 200 × 450 cm and a cart with two castors. To fasten the bag to the cart a belt with two buttons is provided and on the back side there is an extra pocket with a flap. The cart handle folds down.
COMBINATION HAMMER AND PICK TOOL for chipping, hewing, brickwork and laying ceramic wall bricks.
Overall Dimensions 300 × 50 × 180 mm. Mass 550 grams.
BENCH HAMMERS for impact jobs when cutting metal with a chisel, for straightening and flattening operations.
Overall Dimensions 365 × 36 × 110 mm. Mass 400—600 grams.
COMBINATION SCREWDRIVER for fitting and assembly jobs. Features a handle with universal quick-to-change hole. Overall Dimensions: ∅27 mm × 200 mm. Mass 0.09 kg.
BAKING MOULD to be used in your home for baking in gas stoves and electric ovens fancy-shaped gingerbread: squirrel, hedgehog, mushroom, walnut shaped. Diameter — 194 mm; Handle Length — 190 mm; Mass — 1.75 kg.

CAST IRON MORTAR WITH PESTLE
This one is meant to be used when you have to crush something into powder while cooking in your kitchen.
Height — 130 mm; Diameter — 88—132 mm
Mortar Mass — 2.2 kg; Pestle Mass — 0.75 kg.
APARTMENT NUMBER PLATE is to be attached to the front door of your apartment with wood screws. Length — 116 mm, height — 71 mm.
GLASS JAR STEAM STERILIZER for home use.
Diameters mm, 95—195; height, mm 28
Mass, kg 0.3
DOOR KNOB
height mm, 258, width, mm 37. Mass, kg 0.34



A "DO-IT-YOURSELF" TOOL KIT, "LYUBITEL-M" ("DO-IT-YOURSELF ENTHUSIAST")

This one is intended for fitting, rigging and repair jobs in your home. The kit includes the following items:
Handle with Collet Clamp
Straight Blade Screwdriver Stems, blade thickness 0.5 mm, 0.8 mm, 1.2 mm
Philips Screwdriver Stems, screw slot No. 1, Screw slot No. 2
Bore Stem
Driftpin Stem
Awl Stem
Cold Chisel Stem
Firmer Chisel Stem
Wood Chisel Stem
Exchangeable Tools are made from carbon steels.
Hardness of working parts — $HRC_7$54—58. The tools have a double protective decorative coating CrNi.
The Plastic Handle is made from high strength propylene. The Tool Kit is stored in a leather hold-all. The Tool Kit is convenient to work with and to keep at hand in your home.

USSR
423810 TASSR NABEREZHNIYE CHELNY
4 AKADEMIKA RUBANJENKO ST.
FOREIGN TRADE COMPANY KAMAZ
TELEPHONE 531002, TELEX 412658 KAMAZ SU

KAMAZ

USSR
423810 TASSR NABEREZHNIYE CHELNY
4 ACADEMIK RUBANENKO STR.
FOREIGN TRADE COMPANY KAMAZ
TELEPHONE 531002 TELEX 412658 KAMAZ SU