KAMAZ Trucks

Extra Heavy Duty

65115 (6x4) | 6520 (6x4) | 65222 (6x6) | 65201 (8x4)

KAMAZ

FEELER®

Feeler & KAMAZ

Tough and reliable machinery distributed and supported by an organisation with an undeniable industry track record.

This is the solid undertaking that Feeler customers can expect with the Feeler and KAMAZ relationship across Southern Africa.

Established in 1969 - and with more than 2 million trucks having been built since - KAMAZ focuses on understanding applications, designing competitive products and exceeding quality benchmarks.

The company is a 15 time winner of the Dakar Rally, has products operating in more than 80 countries and accounts for half of the trucks sold in Russia. With this proven pedigree customers can rest assured that these vehicles have what it takes to operate when the going gets tough.

Feeler has been listening to, and serving customers in Southern Africa for just as long. With unmatched distribution and support coverage Feeler is ideally positioned to represent the KAMAZ range of tipper trucks that complements the existing construction, mining and agricultural product line of over 150 models.

Feeler and KAMAZ - Strong Reliable Machines, Strong Reliable Support.

- 15 time Dakar winner
- Supplier of choice for the Russian military
- Simple and robust trucks for harsh environments
- Air suspended cabs and seats for operator safety and comfort
- Production all year with proven operation in Africa's +50° C and the Arctic's -50° C
- 6x4, 6x6, 8x4 configurations to meet your site requirements
- ISO 9001-2000 International Standard compliant

Specifications	65115 (6x4)	6520 (6x4)	65222 (6x6)	65201 (8x4)
Rated Power	207 kW (280 hp)	294 kW (400 hp)	294 kW (400 hp)	294 kW (400 hp)
Maximum Torque	895 Nm	1 766 Nm	1 766 Nm	1 766 Nm
Gross Weight	25 200 kg	33 100 kg	34 000 kg	41 000 kg
Turning Circle	9.7 m	9 m	11.5 m	11 m
Chassis Capacity	17 850 kg	23 825 kg	23 145 kg	30 075 kg
Bin Volume	10 m^3	12 m^3	12 m^3	16 m^3
Bin Capacity	15 500 kg	20 400 kg	19 400 kg	25 940 kg
Tyre Size	12.00 R22.5	315/80 R22.5	16.00 R20	315/80 R22.5

Quality throughout

With an annual capacity of 60 000 units per year and their position as a globally respected extra heavy duty truck design and manufacturing company, KAMAZ relies on strong strategic partnerships with premium original component manufacturers to ensure quality, and the ongoing success of their vehicles.

The air-suspended seats and cabs create industry-leading comfort that drives productivity, safety and ensures driver satisfaction.

Well matched engines and drivetrains bolster performance and the ability to deliver results while stronger fabricated structures promote durability.

Industry leading components

Over 2 million engines built prove strength and reliability.

Inter-wheel and inter-axle differential lock for increased traction.

Durable ZF gearboxes deal with harsh environments.

Air-conditioned ergonomic cabs with air-suspended seats for operator comfort.

When the going gets really tough...

As a crossover between an ADT and a conventional tipper, the 65222 provides strength, clearance and all-wheel drive ability that is well suited to a number of diverse applications.

The 65222 gets going… thanks to a 400hp, turbocharged V8 common rail diesel engine, powering six 16.00 R20 off-road wheels.

The standard fitment of both inter-axle and centre differential locks keeps the 65222 moving regardless of the underfoot conditions.

This configuration is designed to maximise production for 12 months of the year, and not only when nature allows.

The 65222 - the latest strong, reliable machine addition to the Feeler stable.

KAMAZ versatility

KAMAZ trucks are acclaimed for their adaptability to meet our customers' application requirements. A KAMAZ cab chassis can be modified by way of a wheelbase or chassis extension providing a platform for a variety of application specific bodies.

Feeler has partnered with reputable body builders in South Africa. The knowledge gained from the expertise of KAMAZ and these body builders has equipped Feeler with the ability to tailor-make solutions according to customer requirements.

The versatility of the KAMAZ cab chassis has enabled Feeler to provide a one stop solution service ensuring that we are able to personalise our truck configurations to meet the needs of all industries and sectors.

Consider the options

Application - On/Offroad, short to medium haul											
Model	**Configuration**	**GVM (kg)**	**Power (hp)**	**Standard Description**	**Tipper**	**Mixer**	**Water tanker**	**Freight carrier**	**Truck tractor**	**Drill rig**	**Garbage compactor**
65115	6x4	25 200	285	Chassis	X	X	X	X	X		X
6520	6x4	33 100	400	Chassis	X	X	X	X	X		X
65222	6x6	34 000	400	Chassis	X	X	X	X	X	X	
65201	8x4	41 000	400	Chassis	X	X	X	X			

Application		**Industries**											
		Construction	**Mining & quarries**	**Liquid transport**	**Dry bulk**	**Building materials**	**Waste**	**Rigging**	**Agriculture**	**Forestry**	**Towing**	**Plant hire**	**Abnormal transport**	**Military**
65115 (6x4)	285 hp 25 200 kg	X	X	X	X	X	X		X		X	X		X
6520 (6x4)	400 hp 33 100 kg	X	X	X	X	X	X		X	X	X	X	X	X
65222 (6x6)	400 hp 34 000 kg	X	X	X	X	X		X	X	X	X	X	X	X
65201 (8x4)	400 hp 41 000 kg	X	X	X	X	X			X	X	X	X		X

Tipper

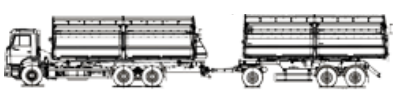
Fuel/Water tanker

Concrete mixer

Hooklift truck

Garbage truck

Crane log truck



Cane, grain & log truck

Refuelling truck

Drop-side truck with loader crane

KAMAZ Trucks, Extra Heavy Duty | 65115 (6x4)

FEELER®

Technical Data

ENGINE
Manufacturer
Cummins

Model
6iSBe285

Configuration
I6, turbocharged and intercooled

Gross Power
207 kW (280 hp) @ 2 600 rpm

Gross Torque
895 Nm (660 lbf.ft) @ 1 500 rpm

Displacement
6.7 litres (409 cu.in)

Fuel Injection System
Bosch common rail

Auxiliary Brake
Exhaust brake

Fuel Tank Capacity
350 litres (92.5 US gal)

Certification
6iSBe285 meets Euro 3 emissions regulations

TRANSMISSION
Manufacturer
ZF

Model
9S1310

Configuration
Synchromesh manual

Layout
Engine mounted

Gears
9 forward 1 reverse

Clutch Make
ZF & Sachs

Clutch Type
Single-plate dry clutch with diaphragm spring, exhaust type.

Clutch Diameter
430 mm

Clutch Control
Hydraulic air assisted

PTO
ZF NH/1C or OMFB

Output Speed
0.91/1,09

Rotation
Anti-clockwise (same as engine)

Maximum Power Take Off
137 kW

Output Torque
1 000 Nm

Pump Connection
Direct pump connection

AXLES
Manufacturer
KAMAZ

Model
6.2 t front; 2 x 9.5 t rear

Differential
Central input with locking differential

Axle Ratio
5,94

BRAKING SYSTEM
Service Brakes
Full air dual circuit brake system, air dryer.

Front
Drum brakes Ø 400 mm, automatic gap control between brake pad and drum.

Rear
Drum brakes Ø 400 mm, automatic gap control between brake pad and drum.

Brake Linings
Asbestos-free brake linings

Standard
Anti-lock braking system (ABS)

Park & Emergency
“Spring-brake cylinder acting on both rear axles”.

Auxiliary Brake
Engine exhaust brake

WHEELS
Type
Radial

Tyre
12 R22.5 or 11 R22.5

FRONT SUSPENSION
Half elliptic spring

REAR SUSPENSION
Centerpoint, multileaf half-elliptic spring.

STEERING SYSTEM
ZF 8098.965.217, gear ratio 22,2-26,2:1, screw - ball nut - rack - sector.

Operation
Power steering - pneumatic adjustable steering wheel column - height and tilt angle.

Lock to lock turns
5.5-6 (depends on adjustment)

Turning Circle
9.7 m

DUMPING SYSTEM
Pump Type
Meiller or Hyva

Flow
80 lt/min

Pressure
190 bar working 400 max

Filter
Yes

Cylinder
Palfinger or Hyva 4 stage telescopic

Raise Time
13 s

Lowering Time
26 s

PNEUMATIC SYSTEM
System Pressure
650 kPa - 800 kPa

ELECTRICAL SYSTEM
Voltage
24 V

Battery Type
Lead acid

Battery Capacity
2 x 12 V / 190 Ah

Alternator Rating
28 V / 80 A

MAX. VEHICLE SPEED

Crawler	9 km/h	5.6 mph
1st	12 km/h	7.5 mph
2nd	17 km/h	10.6 mph
3rd	23 km/h	14.4 mph
4th	31 km/h	19.4 mph
5th	42 km/h	26.2 mph
6th	59 km/h	36.8 mph
7th	81 km/h	50.6 mph
8th	100 km/h	62.4 mph
R	10 km/h	6.2 mph

CAB
Front, above engine day cab, without sleeping birth, rear windows 65° pneumatic tiltable cab with 79.2 dba internal sound level measured according to ISO 10844.

KAMAZ FACTORY TIPPER BIN
General purpose, backward tipping, halfpipe design.

Volume
10 m^3

Tipping Angle
60°

Structure
S355 structural steel equivalent

Bottom:	6 mm
Side board:	5 mm
Head board:	5 mm
Tailgate:	4 mm

Load Capacity *Refer to full product brochure for available options.*

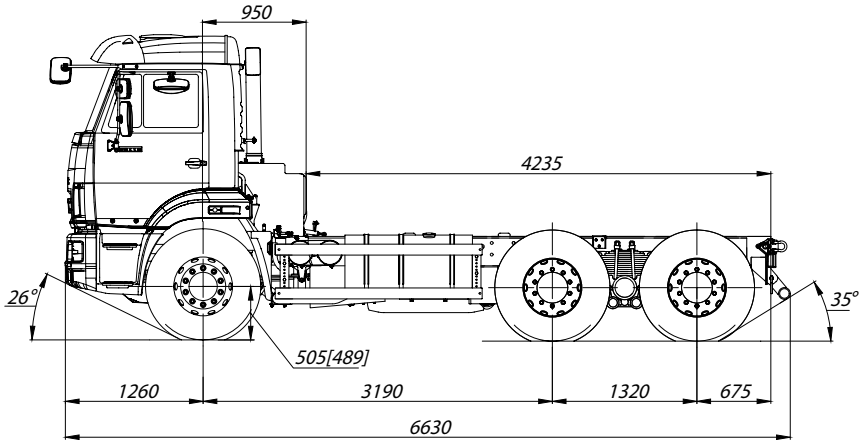
MANUFACTURERS VEHICLE MASS	
GVM manufacturers gross vehicle mass	25 200 kg
GCM manufacturers gross combination mass	38 800 kg
GA manufacturers front axle mass	6 200 kg
GA/GAU manufacturers rear axle bogie mass	19 000 kg

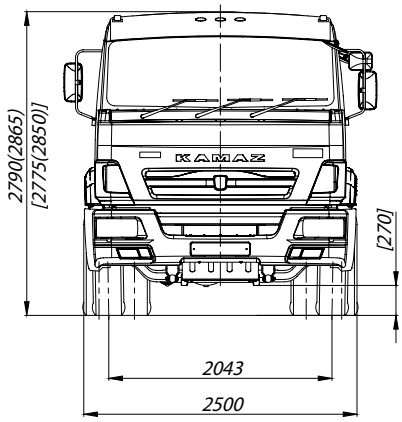
ROAD LEGAL MASS (Permissible)	
V permissible maximum vehicle mass	24 200 kg
D/T permissible max drawing vehicle mass	37 800 kg
AF permissible maximum front axle mass	6 200 kg
AR permissible maximum rear axle bogie mass	18 000 kg

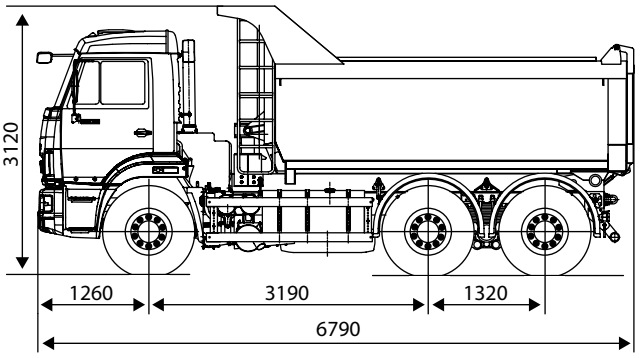
KAMAZ FACTORY CHASSIS MASS	
UF unladen front axle mass	3 375 kg
UR unladen rear axle bogie mass	3 900 kg
UT total tare unladen mass	7 275 kg
Manufacturers chassis mass carrying capacity	17 925 kg
Road legal chassis mass carrying capacity	16 925 kg

KAMAZ FACTORY 10m³ TIPPER MASS	
UF unladen front axle mass	3 975 kg
UR unladen rear axle bogie mass	5 725 kg
UT total tare unladen mass	9 700 kg
Manufacturers tipper payload mass carrying capacity	15 500 kg
Road legal tipper payload mass carrying capacity	14 500 kg

Dimensions *The dimensions and exterior picture of the truck can differ depending on specification.*



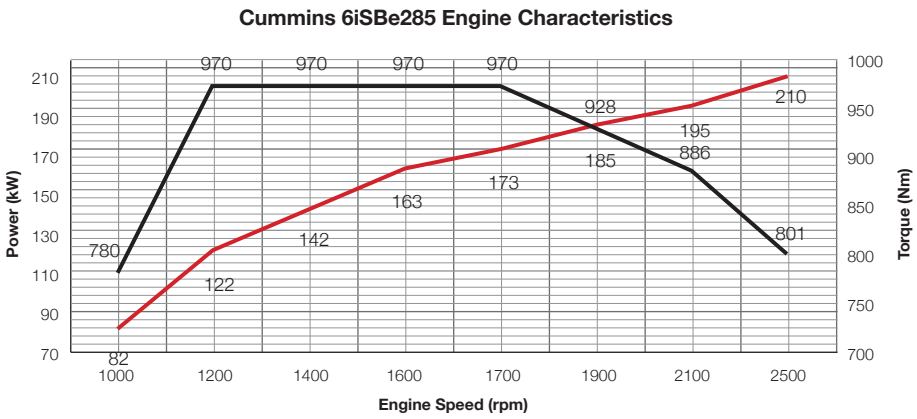




Engine Characteristics

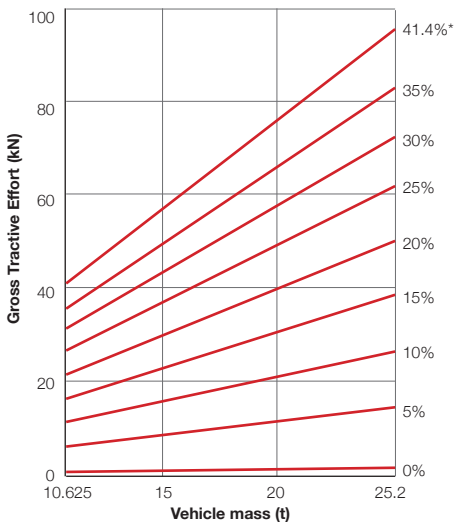
Power (kW)

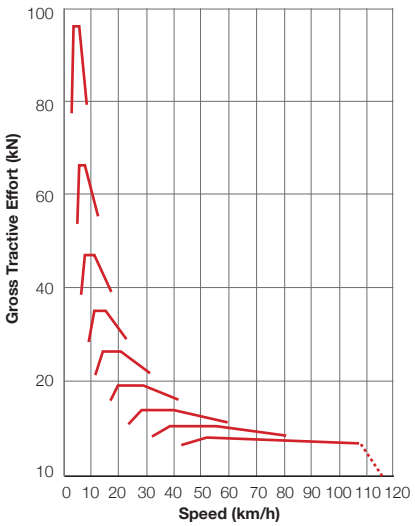
Torque (Nm)



Gradeability/Rimpull

1. Determine tractive resistance by finding intersection of vehicle mass line and grade line. NOTE: 2% typical rolling resistance is already assumed in chart and grade line.
2. From this intersection, move straight right across charts until line intersects rimpull curve.
3. Read down from this point to determine maximum speed attained at that tractive resistance.





* The maximum gradeability is limited by the coupling weight.

KAMAZ Trucks, Extra Heavy Duty | 6520 (6x4)

FEELER®

Technical Data

ENGINE

Manufacturer
KAMAZ

Model
740.63-400

Configuration
V8, turbocharged and intercooled

Gross Power
294 kW (400 hp) @ 1 900 rpm

Gross Torque
1 766 Nm (1,303 lbf.ft) @ 1 300 rpm

Displacement
11,76 litres (718 cu.in)

Fuel Injection System
Bosch common rail

Auxiliary Brake
Exhaust brake

Fuel Tank Capacity
350 litres (92.5 US gal)

Certification
740.63-400 meets Euro 3 emissions regulations

TRANSMISSION

Manufacturer
ZF

Model
16S1820

Configuration
Synchromesh manual

Layout
Engine mounted

Gears
16 forward 2 reverse

Clutch Make
ZF & Sachs

Clutch Type
Single-plate dry clutch with diaphragm spring, exhaust type.

Clutch Diameter
430 mm

Clutch Control
Hydraulic air assisted

PTO

ZF NH/1C or OMFB

Output Speed
0.91/1,09

Rotation
Anti-clockwise (same as engine)

Maximum Power Take Off
137 kW

Output Torque
1 000 Nm

Pump Connection
Direct pump connection

AXLES

Manufacturer
KAMAZ

Model
7.5 t front; 2 x 13 t rear

Differential
Central input with locking differential

Final Drive
Outboard planetary on all drive axles.

Axle Ratio
5,11

BRAKING SYSTEM

Service Brakes
Full air dual circuit brake system, air dryer.

Front
Drum brakes Ø 420 mm, automatic gap control between brake pad and drum.

Rear
Drum brakes Ø 420 mm, automatic gap control between brake pad and drum.

Brake Linings
Asbestos-free brake linings

Standard
Anti-lock braking system (ABS)

Park & Emergency
“Spring-brake cylinder acting on both rear axles”.

Auxiliary Brake
Engine exhaust brake

WHEELS

Type
Radial

Tyre
315/80R22.5

FRONT SUSPENSION

Half elliptic spring

REAR SUSPENSION

Centerpoint, multileaf half-elliptic spring.

STEERING SYSTEM

ZF 8098.965.212, gear ratio 22,2-26,2:1, screw - ball nut - rack - sector.

Operation
Power steering - pneumatic adjustable steering wheel column - height and tilt angle.

Lock to lock turns
5-6 (depends on adjustment)

Turning Circle
9.0 m

DUMPING SYSTEM

Pump Type
OMFB NPH-61

Flow
80 lt/min

Pressure
190 bar working 250 max

Filter
Yes

Cylinder
Palfinger or Hyva 4 stage telescopic

Raise Time
19 s

Lowering Time
26 s

PNEUMATIC SYSTEM

System Pressure
650 kPa - 800 kPa

ELECTRICAL SYSTEM

Voltage
24 V

Battery Type
Lead acid

Battery Capacity
2 x 12 V / 190 Ah

Alternator Rating
28 V / 80 A

MAX. VEHICLE SPEED

1st	6 km/h	3.8 mph
2nd	7 km/h	4.4 mph
3rd	8 km/h	5.0 mph
4th	10 km/h	6.2 mph
5th	12 km/h	7.5 mph
6th	14 km/h	8.7 mph
7th	17 km/h	10.6 mph
8th	20 km/h	12.5 mph
9th	25 km/h	15.6 mph
10th	30 km/h	18.7 mph
11th	36 km/h	22.5 mph
12th	44 km/h	27.4 mph
13th	53 km/h	33.1 mph
14th	64 km/h	40.0 mph
15th	76 km/h	47.4 mph
16th	90 km/h	56.2 mph
R1	6 km/h	3.8 mph
R2	8 km/h	5.0 mph

CAB

Front, above engine day cab, without sleeping birth, rear windows, 65° pneumatic tiltable cab with 81.2 Dba internal sound level measured according to ISO 10844

KAMAZ FACTORY TIPPER BIN

General purpose, backward tipping, rectangular design.

Volume
12 m^3

Tipping Angle
50°

Structure
S355 structural steel equivalent

Bottom:	8 mm
Side board:	5 mm
Head board:	5 mm
Tailgate:	4 mm

Load Capacity *Refer to full product brochure for available options.*

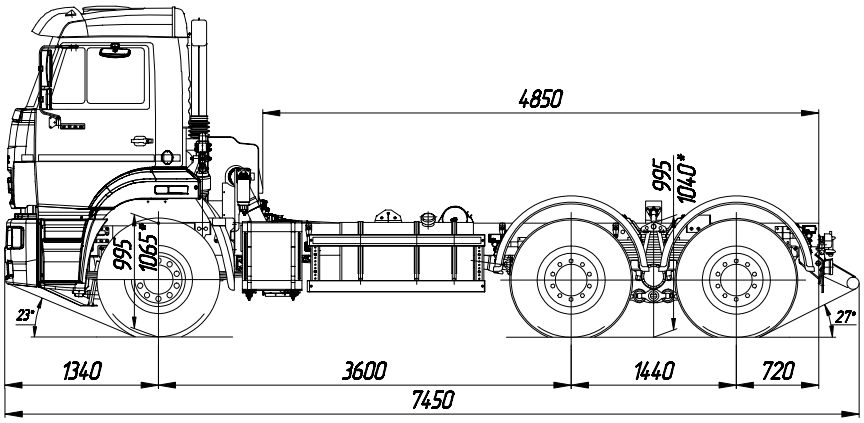
MANUFACTURERS VEHICLE MASS	
GVM manufacturers gross vehicle mass	33 100 kg
GCM manufacturers gross combination mass	53 100 kg
GA manufacturers front axle mass	7 500 kg
GA/GAU manufacturers rear axle bogie mass	25 600 kg

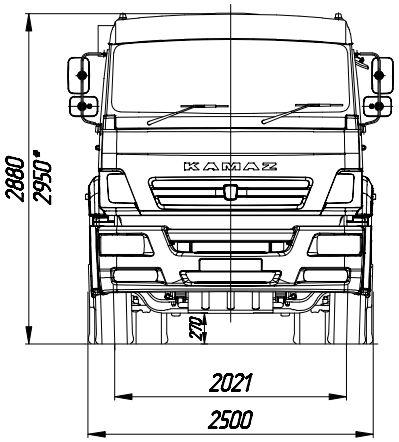
ROAD LEGAL MASS (Permissible)	
V permissible maximum vehicle mass	25 500 kg
D/T permissible max drawing vehicle mass	45 500 kg
AF permissible maximum front axle mass	7 500 kg
AR permissible maximum rear axle bogie mass	18 000 kg

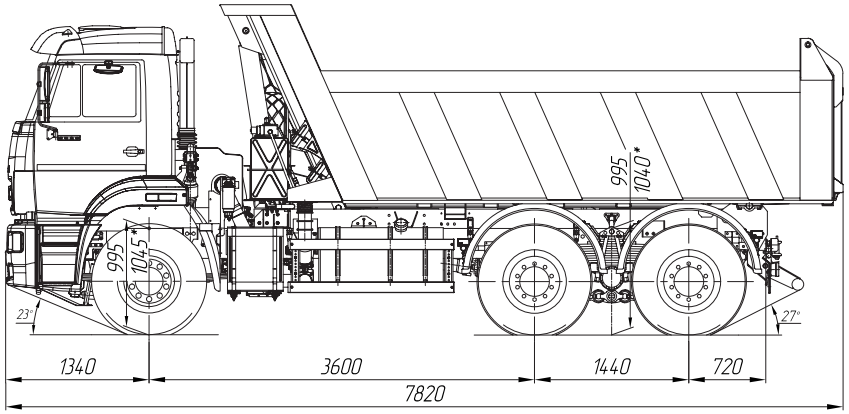
KAMAZ FACTORY CHASSIS MASS	
UF unladen front axle mass	4 375 kg
UR unladen rear axle bogie mass	4 900 kg
UT total tare unladen mass	9 275 kg
Manufacturers chassis mass carrying capacity	23 825 kg
Road legal chassis mass carrying capacity	16 225 kg

KAMAZ FACTORY 12m³ TIPPER MASS	
UF unladen front axle mass	5 070 kg
UR unladen rear axle bogie mass	7 630 kg
UT total tare unladen mass	12 700 kg
Manufacturers tipper payload mass carrying capacity	20 400 kg
Road legal tipper payload mass carrying capacity	12 800 kg

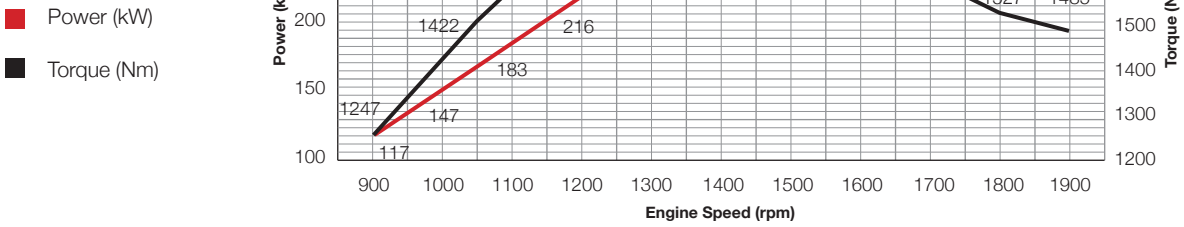
Dimensions *The dimensions and exterior picture of the truck can differ depending on specification.*







Engine Characteristics



Gradeability/Rimpull

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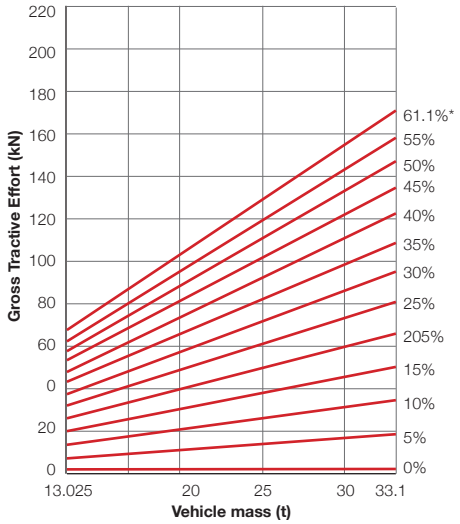
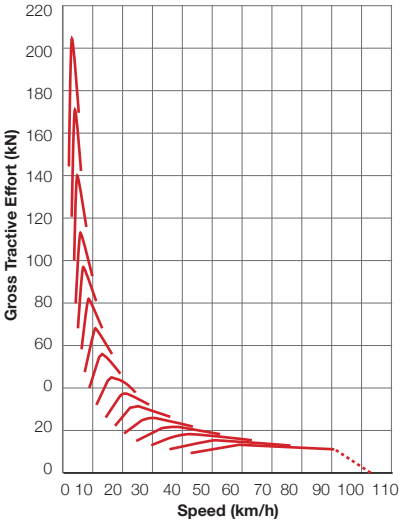




* The maximum gradeability is limited by the coupling weight.

KAMAZ Trucks, Extra Heavy Duty | 65222 (6x6)

FEELER®

Technical Data

ENGINE

Manufacturer
KAMAZ

Model
740.63-400

Configuration
V8, turbocharged and intercooled

Gross Power
294 kW (400 hp) @ 1 900 rpm

Gross Torque
1 766 Nm (1,303 lbf.ft) @ 1 300 rpm

Displacement
11,76 litres (718 cu.in)

Fuel Injection System
Bosch common rail

Auxiliary Brake
Exhaust brake

Fuel Tank Capacity
350 litres (92.5 US gal)

Certification
740.63-400 meets Euro 3 emissions regulations

TRANSMISSION

Manufacturer
ZF

Model
16S1825

Configuration
Synchromesh manual

Layout
Engine mounted

Gears
16 forward 2 reverse

Clutch Make
ZF & Sachs

Clutch Type
Single-plate dry clutch with diaphragm spring, exhaust type.

Clutch Diameter
430 mm

Clutch Control
Hydraulic air assisted

TRANSFER CASE

Manufacturer
ZF

Model
VG 2000/300

Output Differential
Lockable, with high ratio 0.89 and low ratio 1.536.

PTO

ZF NH/1C or OMFB

Output Speed
0.91/1,09

Rotation
Anti-clockwise (same as engine)

Maximum Power Take Off
137 kW

Output Torque
1 000 Nm

Pump Connection
Direct pump connection

AXLES

Manufacturer
KAMAZ

Model
8 t front; 2 x 13 t rear

Differential
Central input with locking differential

Final Drive
Outboard planetary on all drive axles.

Axle Ratio
6,33

BRAKING SYSTEM

Service Brakes
Full air dual circuit brake system, air dryer.

Front
Drum brakes Ø 420 mm, automatic gap control between brake pad and drum.

Rear
Drum brakes Ø 420 mm, automatic gap control between brake pad and drum.

Brake Linings
Asbestos-free brake linings

Standard
Anti-lock braking system (ABS)

Park & Emergency
“Spring-brake cylinder acting on both rear axles”.

Auxiliary Brake
Engine exhaust brake

WHEELS

Type
Radial

Tyre
16R20

FRONT SUSPENSION

Half elliptic spring

REAR SUSPENSION

Centerpoint, multileaf half-elliptic spring.

STEERING SYSTEM

ZF 8098.956.148, gear ratio 22,2-26,2:1, screw - ball nut - rack - sector.

Operation
Power steering - pneumatic adjustable steering wheel column - height and tilt angle.

Lock to lock turns
5-6 (depends on adjustment)

Turning Circle
11.5 m

DUMPING SYSTEM

Pump Type
OMFB NPH-61

Flow
80 lt/min

Pressure
190 bar Working 250 max

Filter
Yes

Cylinder
Palfinger or Hyva 4 stage telescopic

Raise Time
19 s

Lowering Time
25 s

PNEUMATIC SYSTEM

System Pressure
650 kPa - 800 kPa

ELECTRICAL SYSTEM

Voltage
24 V

Battery Type
Lead acid

Battery Capacity
2 x 12 V / 190 Ah

Alternator Rating
28 V / 80 A

MAX. VEHICLE SPEED

LOW RANGE	1st	3 km/h	1.9 mph
	2nd	4 km/h	2.5 mph
	3rd	5 km/h	3.1 mph
	4th	6 km/h	3.8 mph
	5th	7 km/h	4.4 mph
	6th	9 km/h	5.6 mph
	7th	10 km/h	6.2 mph
	8th	12 km/h	7.5 mph
	9th	16 km/h	9.9 mph
	10th	19 km/h	11.8 mph
	11th	23 km/h	14.3 mph
	12th	27 km/h	16.8 mph
	13th	33 km/h	20.5 mph
	14th	39 km/h	24.2 mph
	15th	47 km/h	29.2 mph
	16th	56 km/h	34.8 mph
	R1	4 km/h	2.5 mph
	R2	4 km/h	2.50 mph
HIGH RANGE	1st	6 km/h	3.8 mph
	2nd	7 km/h	4.4 mph
	3rd	9 km/h	5.6 mph
	4th	10 km/h	6.2 mph
	5th	12 km/h	7.5 mph
	6th	15 km/h	9.3mph
	7th	18 km/h	11.2 mph
	8th	21 km/h	13.0 mph
	9th	27 km/h	16.8 mph
	10th	32 km/h	19.9 mph
	11th	39 km/h	24.2 mph
	12th	47 km/h	29.2 mph
	13th	57 km/h	35.4 mph
	14th	68 km/h	42.3 mph
	15th	81 km/h	50.3 mph
	16th	97 km/h	60.3 mph
	R1	6 km/h	3.8 mph
	R2	8 km/h	5.0 mph

CAB

Front, above engine day cab, without sleeping birth, rear windows, 65° pneumatic tiltable cab with 85 dba internal sound level measured according to ISO 10844.

KAMAZ FACTORY TIPPER BIN

General purpose, backward tipping, rectangular design

Volume
12 m^3

Tipping Angle
50°

Structure
S355 structural steel equivalent

Bottom:	8 mm
Side board:	5 mm
Head board:	5 mm
Tailgate:	4 mm

Load Capacity

Refer to full product brochure for available options.

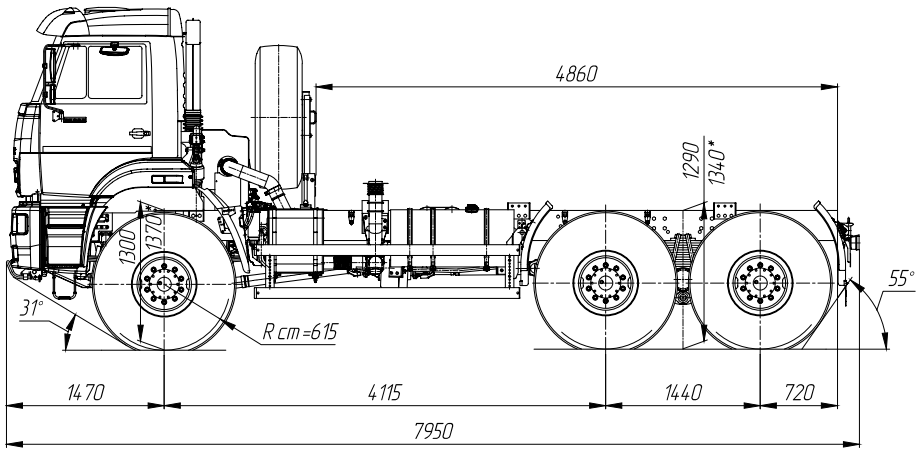
MANUFACTURERS VEHICLE MASS	
GVM manufacturers gross vehicle mass	34 000 kg
GCM manufacturers gross combination mass	54 000 kg
GA manufacturers front axle mass	8 000 kg
GA/GAU manufacturers rear axle bogie mass	26 000 kg

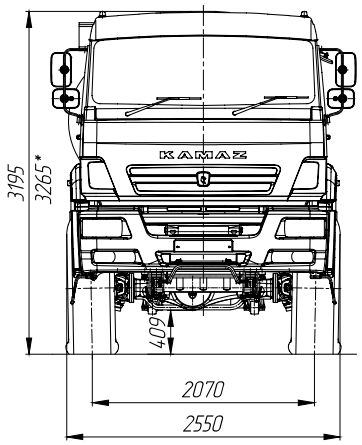
ROAD LEGAL MASS (Permissible)	
V permissible maximum vehicle mass	23 700 kg
D/T permissible max drawing vehicle mass	43 700 kg
AF permissible maximum front axle mass	7 700 kg
AR permissible maximum rear axle bogie mass	16 000 kg

KAMAZ FACTORY CHASSIS MASS	
UF unladen front axle mass	5 885 kg
UR unladen rear axle bogie mass	4 970 kg
UT total tare unladen mass	10 855 kg
Manufacturers chassis mass carrying capacity	23 145 kg
Road legal chassis mass carrying capacity	12 845 kg

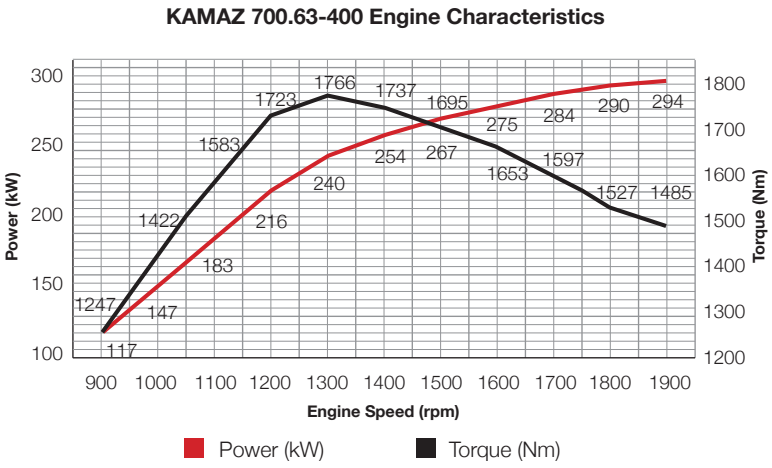
KAMAZ FACTORY 12m³ TIPPER MASS	
UF unladen front axle mass	6 290 kg
UR unladen rear axle bogie mass	8 310 kg
UT total tare unladen mass	14 600 kg
Manufacturers tipper payload mass carrying capacity	19 400 kg
Road legal tipper payload mass carrying capacity	9 100 kg

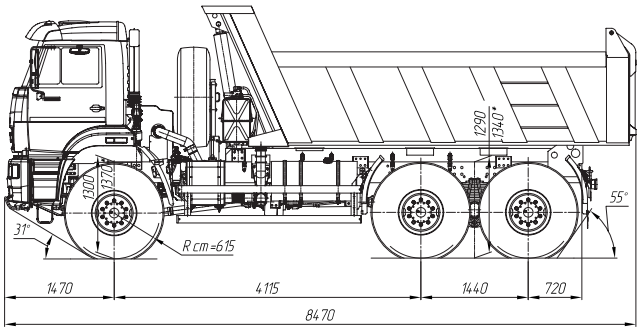
Dimensions *The dimensions and exterior picture of the truck can differ depending on specification.*





Engine Characteristics

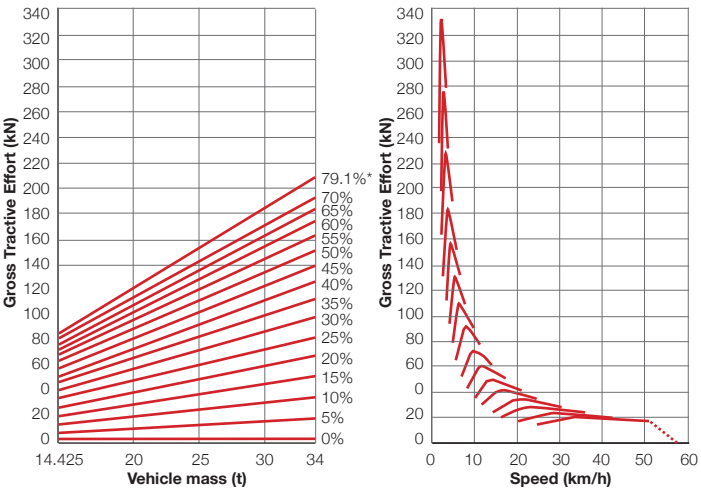




Gradeability/Rimpull

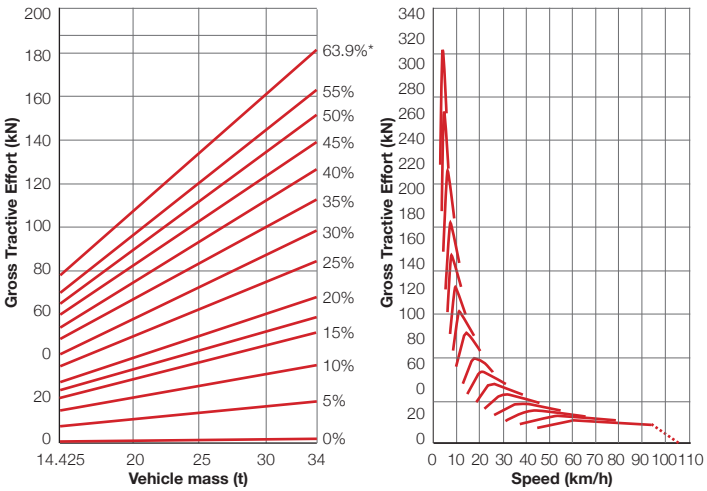
1. Determine tractive resistance by finding intersection of vehicle mass line and grade line.
   NOTE: 2% typical rolling resistance is already assumed in chart and grade line.
2. From this intersection, move straight right across charts until line intersects rimpull curve.
3. Read down from this point to determine maximum speed attained at that tractive resistance.

LOW GEAR RATIO OF DROP BOX



* The maximum gradeability is limited by the coupling weight.

HIGH GEAR RATIO OF DROP BOX



* The maximum gradeability is limited by the coupling weight.

KAMAZ Trucks, Extra Heavy Duty | 65201 (8x4)

FEELER®

Technical Data

ENGINE

Manufacturer
KAMAZ

Model
740.63-400

Configuration
V8, turbocharged and intercooled

Gross Power
294 kW (400 hp) @ 1 900 rpm

Gross Torque
1 766 Nm (1,303 lbf.ft) @ 1 300 rpm

Displacement
11,76 litres (718 cu.in)

Fuel Injection System
Bosch common rail

Auxiliary Brake
Exhaust brake

Fuel Tank Capacity
350 litres (92.5 US gal)

Certification
740.63-400 meets Euro 3 emissions regulations.

TRANSMISSION

Manufacturer
ZF

Model
16S1820

Configuration
Synchromesh Manual

Layout
Engine mounted

Gears
16 forward 2 reverse

Clutch Make
ZF & Sachs

Clutch Type
Single-plate dry clutch with diaphragm spring, exhaust type.

Clutch Diameter
430 mm

Clutch Control
Hydraulic air assisted

PTO

ZF NH/1C or OMFB

Output Speed
0.91/1,09

Rotation
Anti-clockwise (same as engine)

Maximum Power Take Off
137 kW

Output Torque
1 000 Nm

Pump Connection
Direct pump connection

AXLES

Manufacturer
KAMAZ

Model
2 x 7.5 t front; 2 x 13 t rear

Differential
Central input with locking differential

Final Drive
Outboard planetary on all drive axles.

Axle Ratio
5,11

BRAKING SYSTEM

Service Brakes
Full air dual circuit brake system, air dryer.

Front
Drum brakes Ø 420 mm, automatic gap control between brake pad and drum.

Rear
Drum brakes Ø 420 mm, automatic gap control between brake pad and drum.

Brake Linings
Asbestos-free brake linings

Standard
Anti-lock braking system (ABS)

Park & Emergency
Spring-brake cylinder acting on both rear axles".

Auxiliary Brake
Engine exhaust brake

WHEELS

Type
Radial

Tyre
315/80R22.5

FRONT SUSPENSION

Half elliptic spring

REAR SUSPENSION

Centerpoint, multileaf half-elliptic spring

STEERING SYSTEM

ZF 8099.965.409, gear ratio 22,2-26,2:1, screw - ball nut - rack - sector.

Operation
Power steering - pneumatic adjustable steering wheel column - height and tilt angle.

Lock to lock turns
5-6 (depends on adjustment)

Turning Circle
11.0 m

DUMPING SYSTEM

Pump Type
OMFB NPH-61

Flow
80 l/min

Pressure
190 bar working 250 max

Filter
Yes

Cylinder
Hyva 5 stage telescopic

Raise Time
30 s

Lowering Time
25 s

PNEUMATIC SYSTEM

System Pressure
650 kPa - 800 kPa

ELECTRICAL SYSTEM

Voltage
24 V

Battery Type
Lead acid

Battery Capacity
2 x 12 V / 190 Ah

Alternator Rating
28 V / 80 A

MAX. VEHICLE SPEED

1st	6 km/h	3.8 mph
2nd	7 km/h	4.4 mph
3rd	8 km/h	5.0 mph
4th	10 km/h	6.2 mph
5th	12 km/h	7.5 mph
6th	14 km/h	8.7 mph
7th	17 km/h	10.6 mph
8th	20 km/h	12.5 mph
9th	25 km/h	15.6 mph
10th	30 km/h	18.7 mph
11th	36 km/h	22.5 mph
12th	44 km/h	27.4 mph
13th	53 km/h	33.1 mph
14th	64 km/h	40.0 mph
15th	76 km/h	47.4 mph
16th	90 km/h	56.2 mph
R1	6 km/h	3.8 mph
R2	8 km/h	5.0 mph

CAB

Front, above engine day cab, without sleeping birth, rear windows, 65° pneumatic tiltable cab with 81.2 dba internal sound level measured according to ISO 10844.

KAMAZ FACTORY TIPPER BIN

General purpose, backward tipping, rectangular design.

Volume
16 m^3

Tipping Angle
50°

Structure
S355 Structural Steel Equivalent

Bottom:	8 mm
Side board:	5 mm
Head board:	5 mm
Tailgate:	4 mm

Load Capacity

Refer to full product brochure for available options.

MANUFACTURERS VEHICLE MASS	
GVM manufacturers gross vehicle mass	41 000 kg
GCM manufacturers gross combination mass	41 000 kg
GA manufacturers front axle mass	15 000 kg
GA/GAU manufacturers rear axle bogie mass	26 000 kg

ROAD LEGAL MASS (Permissible)	
V permissible maximum vehicle mass	33 000 kg
D/T permissible max drawing vehicle mass	33 000 kg
AF permissible maximum front axle mass	15 000 kg
AR permissible maximum rear axle bogie mass	18 000 kg

KAMAZ FACTORY CHASSIS MASS	
UF unladen front axle mass	6 325 kg
UR unladen rear axle bogie mass	4 600 kg
UT total tare unladen mass	10 925 kg
Manufacturers chassis mass carrying capacity	30 075 kg
Road legal chassis mass carrying capacity	22 075 kg

KAMAZ FACTORY 16m³ TIPPER MASS	
UF unladen front axle mass	7 260 kg
UR unladen rear axle bogie mass	7 800 kg
UT total tare unladen mass	15 060 kg
Manufacturers tipper payload mass carrying capacity	25 940 kg
Road legal tipper payload mass carrying capacity	17 940 kg

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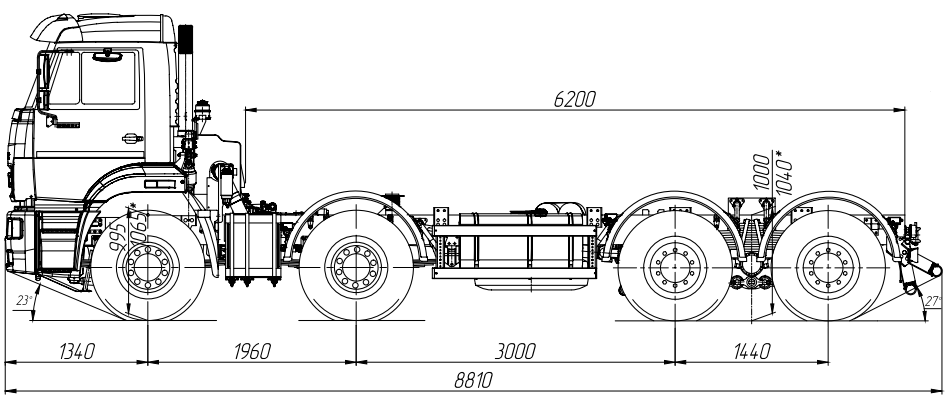
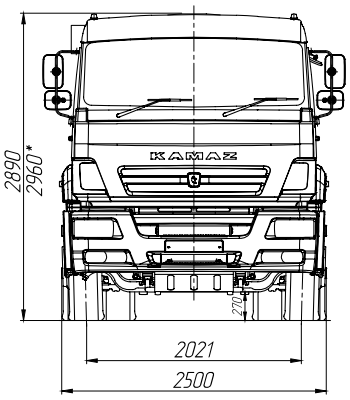
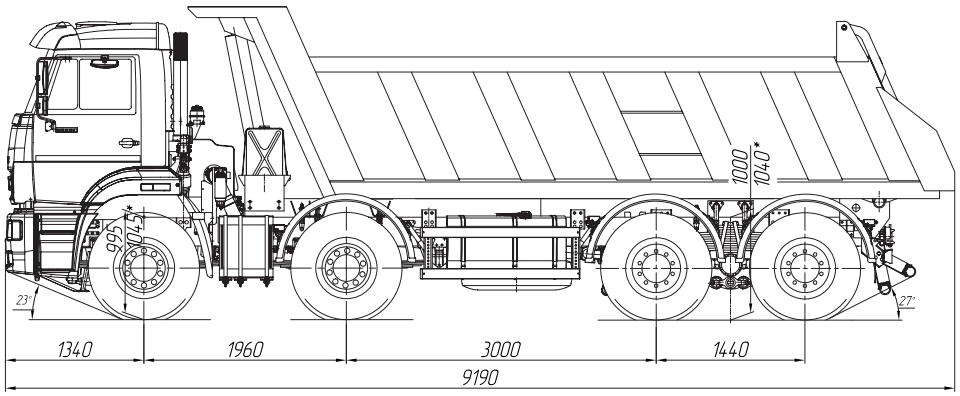
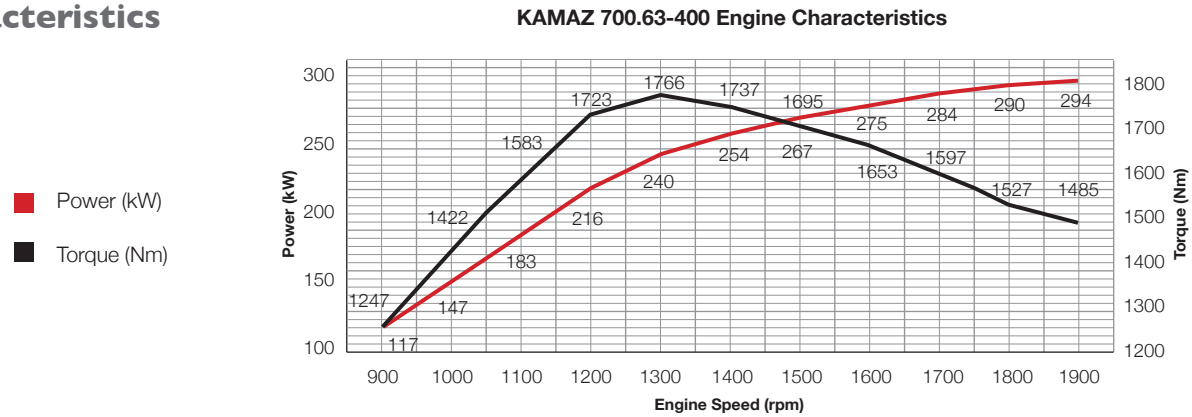






Engine Characteristics



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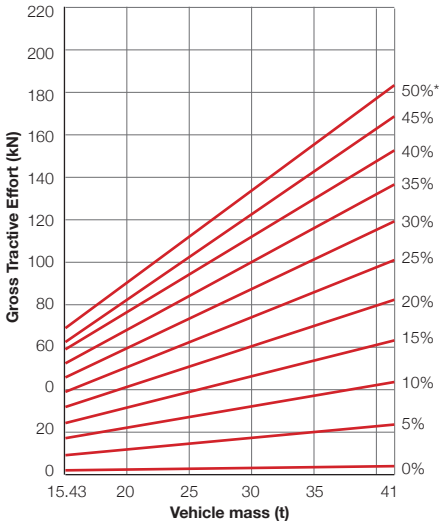

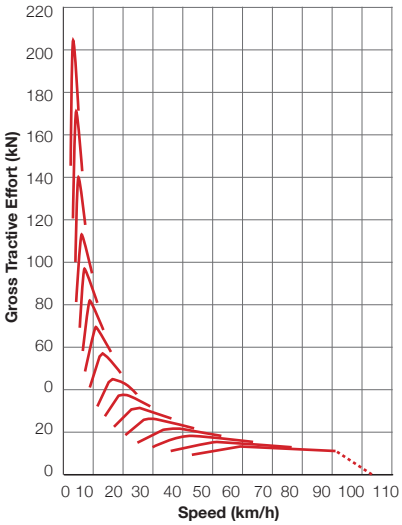

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Features and Options

● STANDARD ▲ OPTION

65115 (6x4)	6520 (6x4)	65222 (6x4)	65201 (8x4)	
				CAB
●	●	●	●	Modern steering wheel
●	●	●	●	Three interior sunvisors
●	●	●	●	Exterior sunvisor
●	●	●	●	Rubber floor mats
●	●	●	●	Full complement of instruments and warning lights
●	●	●	●	Digital truck operational information display, odometer, hour meter
●	●	●	●	Onboard diagnostics system - common rail injection engines
	●	●	●	Grammar air suspension seats, driver and passenger
●				Grammar air suspension seats, driver and passenger fixed seat
●	●	●	●	Seat covers made of flat-woven fabric
●	●	●	●	Pneumatic adjustable steering wheel column - height and tilt angle
●	●	●	●	Center console with cup holders and tray
●	●	●	●	Documents holder in door trim
●	●	●	●	Interior dim and bright lights
●	●	●	●	Entrance grab handles for driver and passenger
●	●	●	●	Stowage facility above windscreen, 2 compartments
●	●	●	●	Exterior rear view mirrors left and right - manually adjustable
●	●	●	●	Ramp mirrors (passenger horizontal mirror)
●	●	●	●	Front bumper view mirror
●	●	●	●	Steel roof lid (air vent), manually operated
●	●	●	●	Air conditioning
▲	▲	▲	▲	Heavy duty roof mounted recirculation air conditioning
	●	●	●	4-point cab air suspension
●	●	●	●	Safety standards to N/A
●	●	●	●	Transparent-glass headlights
	●	●	●	Foglamps front and rear
	●	●	●	Spot lights
●	●	●	●	Train lights on sides of truck
●	●	●	●	Manually operated windows (driver & co-driver)
●	●	●	●	Cruise control standard
●	●	●	●	ABS - braking systems standard
●	●	●	●	ASR - anti skid system standard
●	●	●	●	Composite bumper with steel steps
●	●	●	●	Interior battery isolation switch
				FACTORY OEM BIN
●	●	●	●	General purpose
●	●	●	●	Backward tipping
▲	●	●	●	Rectangular design
●	▲	▲	▲	Half Pipe design
●	●	●	●	Sloped front hoist tippers - general purpose
●	●	●	●	PTO operated hydraulic system
●	●	●	●	Mechanical auto locking top hinged tailgates
●	●	●	●	Stabilizer bar
●	●	●	●	Extended front
▲	▲	▲	▲	Bin heating
				ACCESSORIES
▲	▲	▲	▲	Reverse alarm
▲	▲	▲	▲	Rotating beacon/Strobe light

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- PROTECTING YOUR ASSETS
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All dimensions are shown in millimetres, unless otherwise stated between brackets.
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