

PRODUCT RANGE

**CHIETRA**

RELIABILITY. STRENGTH. BENEFIT.

# BULLDOZERS

Concern Tractor Plants, one of the largest Russian manufacturers of heavy duty machinery for mining and construction, offers a wide range of crawler-type bulldozers with engine power from 150 up to 590 HP and operating weight from 17 to 65 tons.

Whatever application you have in mind – construction, mining, pipe-laying, forestry operations or waste handling, CHETRA is your first choice.

Each CHETRA bulldozer is a fusion of the traditional Russian reliability in frame & undercarriage materials with the high efficiency of modern engines and hydraulic components from American and European suppliers.

Bulldozers' major units and systems

have modular design providing quick and easy maintenance and repairs in field conditions and minimizing the downtime thus maximizing your profit.

Hydromechanical or hydrostatic transmission of bulldozers no longer require from the operator to be a physically strong man – today a bulldozer can be controlled by fingertips!

The bulldozers' up-to-date design provides easy connection with equipment of other manufacturers, e.g. global positioning, levelling systems or additional safety systems.

A ROPS/FOPS cab is standardly equipped with an air-conditioner that provides comfortable, operator-friendly working conditions.



# BULLDOZERS

## CHETRA T6



This is a compact bulldozer which, due to its size, can be transported in a truck body without obtaining a special permit.

This bulldozer features hydrostatic transmission that provides for high maneuverability and performance.

Staright angled power blade provides for performance of complete range of planning and earth-moving operations.

 73,5 kW (100 HP)
  9 400 kg.
  0,41 kgf/cm<sup>2</sup>

## CHETRA T9



It is a cost-effective and maneuverable bulldozer for town development and road construction.

Its light weight and small size ensure mobility at transportation and capability to operate in confined space. It can be transported by a helicopter. A comfortable cab with electrohydraulic controls and microclimate control system ensures the highest level of comfort for the operator.

 110 kW (150 HP)
  17 365/  
16 485 kg.
  0,62 kgf/cm<sup>2</sup>

## CHETRA T11



Bulldozer used for industrial, oil-and-gas, hydro-technical and road construction.

Versions for forestry and reclamation operations are also available. This tractor is characterized with maneuverability, efficiency and flexibility.

T11 bulldozer has a special variant with hydrostatic transmission ensuring high performance of earthmoving operations within the whole speed range without traction cut off and loss of power.




 136 kW (185 HP)/  
137 kW (187 HP)
  20 680/  
19 850 kg.
  0,79 kgf/cm<sup>2</sup>

## CHETRA T15



This medium range machine is purposed for industrial, oil-and-gas, hydrotechnical construction and mining industry.

The threepoint semi-rigid suspension with displaced pivot shaft provides high traction characteristics, reduction of impact load to the undercarriage and better working conditions.


 174 kW (235 HP)/ 180 kW (245 HP)	 27 900/ 27 480 kg	 0,87 kgf/cm <sup>2</sup>
---	--	--

## CHETRA T20



The perfect balance of roadhold characteristics, engine power and design of the bulldozing and ripping aggregate provides for the highest efficiency of CHETRA T20 at low cost of operations.

This bulldozer can be used in mining industry, fuel and energy complex, geological exploration, forestry industry and construction sector.

 228 kW (310 HP)/ 232 kW (315 HP)	 33 060/ 33 300 kg.	 0,97 kgf/cm <sup>2</sup>
---	---	--

## CHETRA T25



This is a high capacity machine for industrial and oil-and-gas construction, gold and diamond mining industry.

Modular design of all assemblies and systems (especially transmission and undercarriage) ensures simple and easy technical maintenance.

Prestart heater provides for easy start and longer engine life.

 298 kW (405 HP)/ 308 kW (419 HP)	 48 620 48 380 kg.	 1,2 kgf/cm <sup>2</sup>
---	--	---



# BULLDOZERS

## CHETRA T35



This is a powerful bulldozer for heavy-duty earthmoving and stripping operations including excavation of frozen and rocky soils.

Systems of monitoring, automatic fire extinguishing, automatic lubrication can be installed at the bulldozer to ensure the highest safety level even at twenty four hours operation.

 382 kW (520 HP)/ 360 kW (490 HP)	 57 770 60 750 kg.	 1,29 kgf/cm <sup>2</sup>
---	--	--

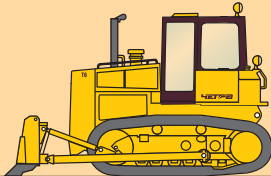
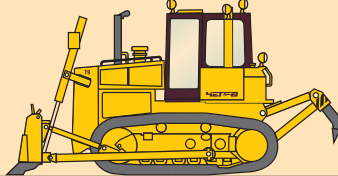
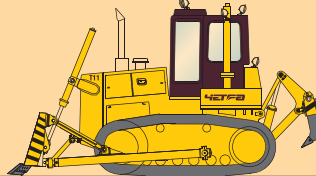
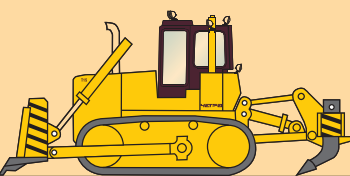
## CHETRA T40



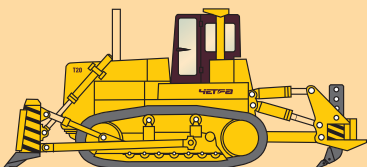
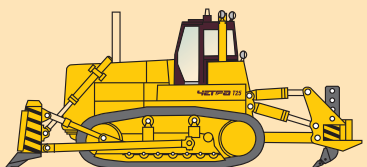
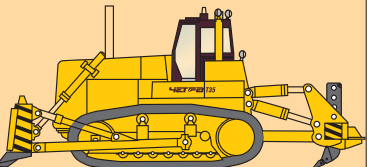
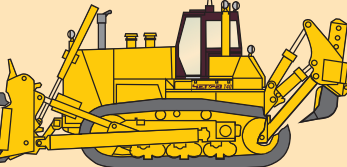
CHETRA T40 is the most powerful serial Russian bulldozer made for gold and coal mining industry.

Bogie-type undercarriage was specially developed to ensure the best traction characteristics of T40. In combination with powerful engine and supersize blade capacity those technical solutions provided for the utmost efficiency, in the meantime preserving the operator's comfortable working conditions and easiness operation.

 435 kW (590 HP)	 64 600 kg	 1,17 kgf/cm <sup>2</sup>
---	---	--

	<b>T6</b>	<b>T9</b>	<b>T11</b>	<b>T15</b>
				
Engine type	4-stroke water-cooled turbocharged and air-to-air aftercooled			
Engine model	AMZ A-41SI-03	YaMZ-236NB-2/ CUMMINS QSB6,7-C165	YaMZ-236ND-2/ CUMMINS QSB6,7-C204	YaMZ-238ND7-1/ CUMMINS QSC8,3-C245
Engine operating power, kW (HP)	73,5 (100)	110 (150)	136 (185)/ 137 (187)	174 (235)/ 180 (245)
Fuel tank, l.	230	285	285	400
Operating weight with blade & ripper, kg (with YaMZ/CUMMINS engine)	9 700	17 265 (16 485)	20 680 (19 850)	27 900 (27 480)
Specific ground pressure of tractor with attachments (standard/LGP shoe), kgf/cm <sup>2</sup>	0,45	0,62 (0,38)	0,79 (0,42)	0,87 (0,55)
Width of standard/ LGP tractor shoe, mm	460	560/860	510/760	560/910
Road clearance, mm	290	460/467	509	503
<b>Blades &amp; Rippers</b>				
Semi-universal (SU) blade dimensions (W x H)/volume, mm/m <sup>3</sup>	–	3154x1273/ 4,28	4060x1475/ 4,33	3 794x1 544/ 6,8 4 100x1 542/ 9,2 (LGP)
Angle (A) blade dimensions (W x H)/ volume, mm/m <sup>3</sup>	–	3977x1110/ 3,7	3650x1168/ 4,0	-
Straight (S) blade dimensions (W x H)/ volume, mm/m <sup>3</sup>	–	4185x1002/ 3,26	4188x1150/ 4,3	3 880x1 530/ 5,8
Variable power angle & tilt (VPAT) blade dimensions (W x H)/ volume, mm/m <sup>3</sup>	2992x1000/ 2,46	4032x1100/ 3,7	4036x1315/ 4,48	-
Universal (U) blade dimensions (W x H)/volume,mm/ m <sup>3</sup>	–	–	–	4 058x1 555/ 8,5
Coal blade dimensions (W x H)/ volume, mm/m <sup>3</sup>	–	–	–	-
Rake blade dimensions (W x H)/ volume, mm/m <sup>3</sup>	–	–	–	-
Number of ripper shanks	3-shank ripper	1-, 3-shank ripper	1-, 3-, 7-shank ripper	1-, 3-shank ripper
Winch availability (traction force, t.)	–	Yes (15 t.)	Yes (15 t.)	Yes (30 t.)
<b>Tractor overall dimensions without attachments</b>				
Length (standard/ LGP), mm	4 753 (with blade)	4 260	4 470/ 4 545	4 500/ 4 900
Width (standard/ LGP), mm	2 190 (with blade)	2 340/ 3 030	2 390/ 3 060	2 560/ 3 010
Height (standard/ LGP), mm	2 630	3 300	3 412	3 709

# BULLDOZERS

	T20	T25	T35	T40
				
Engine type	4-stroke water-cooled turbocharged and air-to-air aftercooled			
Engine model	YaMZ-238DE2-28/ CUMMINS QSM11-C330	YaMZ-8501.10/ CUMMINS QSX15-C440	YaMZ850.10/ CUMMINS QSK19-C525	CUMMINS QSK19-C650
Engine operating power, kW (HP)	228 (310)/ 232 (315)	298 (405)/ 308 (419)	382 (520)/ 360 (490)	435 (590)
Fuel tank, l.	400	700	830	1 200
Operating weight with blade & ripper, kg (with YaMZ/CUMMINS engine)	33 060/ 33 300	48 680/ 48 380	57 770/ 60 750	64 600
Specific ground pressure of tractor with attachments (standard/LGP shoe), kgf/cm <sup>2</sup>	0,97 (0,71)	1,22 (0,85)	1,29	1,17
Width of standard/ LGP tractor shoe, mm	560/ 710	560/ 810	650	710
Road clearance, mm	540	600	649	723
<b>Blades &amp; Rippers</b>				
Semi-universal (SU) blade dimensions (W x H)/volume, mm/m <sup>3</sup>	3 976x1 875/ 10,0	4 280x2 160/ 11,9 5 262x1 910/ 15,8 (LGP)	4 670x2 465/ 18,5	4 730x2 650/ 21
Angle (A) blade dimensions (W x H)/ volume, mm/m <sup>3</sup>	–	–	–	–
Straight (S) blade dimensions (W x H)/ volume, mm/m <sup>3</sup>	4 378x1 673/ 8,5 (LGP)	–	3 680x2 210/ 14,2	–
Variable power angle & tilt (VPAT) blade dimensions (W x H)/ volume, mm/m <sup>3</sup>	–	–	–	–
Universal (U) blade dimensions (W x H)/volume,mm/m <sup>3</sup>	4 270x1 920/ 11,7	4 518x1 958/ 13,1 4 722x1 978/ 13,3 (LGP)	5 064x2 096/ 20,3	–
Coal blade dimensions (W x H)/ volume, mm/m <sup>3</sup>	4 270x2 122/ 15,0	–	–	–
Rake blade dimensions (W x H)/ volume, mm/m <sup>3</sup>	–	4070x2011	–	–
Number of ripper shanks	1-, 3-shank ripper	1-, 3-shank ripper	1-, 3-shank ripper	1-, 3-shank ripper
Winch availability (traction force, t.)	Yes (30 t.)	–	Yes (50 t.)	–
<b>Tractor overall dimensions without attachments</b>				
Length (standard/ LGP), mm	4 605	5 100	5 900	6 050
Width (standard/ LGP), mm	2 696	3 076	3 260	3 296
Height (standard/ LGP), mm	3 885	4 135	4 315	4 250

# PIPELAYER

Concern Tractor Plants offers a wide range of pipelayers with lifting capacity from 26 ton up to 104 ton for handling operations in civil and petroleum construction. The pipelayers are designed for laying steel pipes with diameter from 8" to 56".

The distinctive features of CHETRA pipelayers are reliability, long life and low maintenance costs. Minimum number of controls and up-to-date automatic systems of load control ensure compliance with the most recent safety standards. The most recent models feature electrohydraulic control of lifting equipment that ensure extreme precision and synchrony of machines working in one string. Sufficient track width and length of the crawler bearing surface as combined with easily

adjusted counter weights provide better stability of machines.

Similar to CHETRA bulldozers, the pipelayers feature modular design of all assemblies and systems, hydromechanical transmission, and can be equipped with various engines based on the customer's request.

The cab is mounted on hydraulic supports; it features glass panels, microclimate systems (air-conditioner and heater), windscreen wipers, window washers, sun blinds and an audio system.

CHETRA pipelayers are reliable machines with good reputation being operated both in Russia and abroad.

Customers trust CHETRA pipelayers.








# PIPELAYERS

## CHETRA TG122



A most popular CHETRA pipelayer for laying pipes into trenches, escorting pipe-swabbing & isolation machines and handling of unit loads.

Sufficient track gauge and length of the track bearing surface with easily adjusted counterweights ensure better stability and safety of the machine.




 110 kW (150 HP)	 24 350/ 23 710 kg	 26,5/ 12,5 t
---	--	--

## CHETRA TG222



This is a light pipelayer for laying oil pipelines and water pipelines. It can be used for operations with pipes of diameter from 400 to 600 mm.

This pipelayer is used for operations on standard soils and soils with low bearing capacity.




 174 kW (235 HP)/ 180 kW (245 HP)	 33 290/ 32 750 kg	 44,2/21 т
---	--	---

## CHETRA TG302



This is a medium range pipelayer used for construction of pipelines of diameter from 600 to 1000 mm.

Sufficient track gauge and large weight of the machine ensure stable operation at maximum boom outreach.

 228 kW (310 HP)/ 232 kW (315 HP)	 42 900/ 40 820 kg	 65,7/ 31 t
---	--	--

## CHETRA TG503



A simple and reliable machine for heavy duty pipelaying operations. It can be used for construction of main gas pipelines with pipe diameter from 900 to 1 420 mm.

The pipelayer is equipped with boom lift limiter for winch automatic shut off and permanently closed disk brakes.

 353 kW (480 HP)/ 382 kW (520 HP)	 65 000 kg	 104,5/50 t
---	---	--

## CHETRA TG511

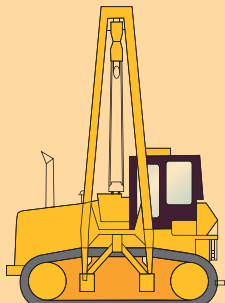
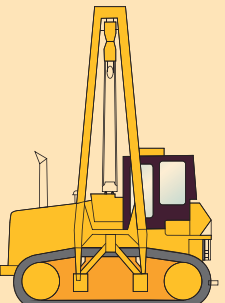
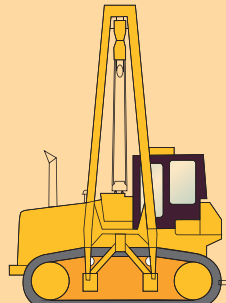
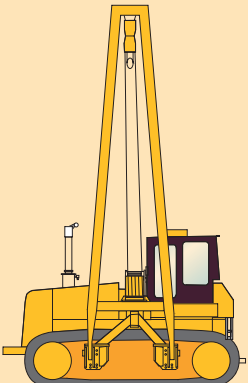
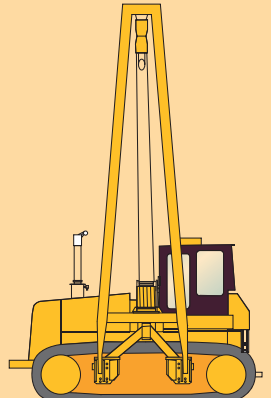


This pipelayer is the best choice for those who need an advance machine with maximum lifting capacity. It can be used for laying pipes of diameter from 900 to 1 420 mm.

This machine features fully electronic controls.

 350 kW (476 HP)	 64 000 kg	 104,5/51 t
---	---	--

# PIPELAYERS

	TG122	TG222	TG302	TG503	TG511
					
Engine type	6-cylinder, V-type, 4-stroke aftercharged and water-cooled diesel				
Engine model	YaMZ-236NB-2/ CUMMINS QSB6,7-C165	YaMZ-238ND7-1/ CUMMINS QSC8,3-C245	YaMZ 238DE2-28/ CUMMINS QSM11-C330	YaMZ-850.10/ CUMMINS KTTA19-C520	CUMMINS QSX15-C500
Operating power, kW (h.p.)	110 (150)	174 (235)/ 180 (245)	228 (310)/ 232 (315)	382 (520)/ 353 (480)	350 (476)
Operating weight with YaMZ/ CUMMINS engine, kg	24 350/ 23 710	33 290/ 32 750	42 900/ 40 820	65 000	64 000
Lifting capacity with counterweight extended (at boom reach 1.22m/2.5m)	26,5/ 12,5	44,2/ 21	65,7/ 31	104,5/ 50	104,5/ 51
Lifting/lowering speed, m/min	8-21	8-24,5	5,86-18,1	4,1-12,5	4,5-16
Boom length standard (long), m	7 (9)	6,5 (9)	7,6 (9)	8,9	8,9
Track shoe width, mm	560	610	710	800	800 и 1000
Forward/backward speed, km/h	10,7/ 13,5	11,1/ 14,2	11,3/ 14,1	12,6/ 15,1	12,7/ 15,1
<b>Overall Dimensions</b>					
Length, mm	4 720	4 880	5 025	6 280	6 150
Width, mm	6 150	4250 (4 380)	5 170 (5 245)	5 840	5 470
Height with standard (long) boom up, mm	7 560 (9 850)	7 370 (9 870)	8 570 (9 970)	10 100	10 160

# EXCAVATORS

CHETRA crawler-type full-turn excavators are advanced highcapacity machines for various earthmoving and loading/unloading operations.

CHETRA excavators are equipped with Cummins engines and high quality components from leading manufacturers: Bosch Rexroth, Fleetguard, AKG, Airtronic, Simrit.

The maximum performance of our machines was achieved through

combination of the advance technologies available in the market and the customers' demands.

CHETRA excavator is a well-balanced machine with proven power reserve allowing combination of all technological operations and providing high efficiency due to DIMS system.

Distribution Information Management System (DIMS) increases productivity of the machine by 15% and fuel economy by 10% through optimal settings of interaction of the engine and the hydraulic system.

DIMS provides control over operation of the engine and the hydraulic system by forwarding information to the operator in order to prevent overloads and errors and transmitting the information via satellite connection to the manufacturing plant in order to ensure timely service support.




# EXCAVATORS

## CHETRA EGP200



This is a multi-purpose excavator developed mainly for in town applications. Low noise level, environment-friendly engine provide for operations even in restrained urban conditions. The excavator is equipped with a comfortable cab with automatic system of climate control.

For specific operations it can be completed with a narrow and slope bucket.

 123 kW (167 HP)
  20 000 kg
  0,8...1 m<sup>3</sup>

## CHETRAEGP230



This excavator is purposed for all types of industrial and road construction. It has perfect performance at a level of the best international manufacturers.

In order to expand its functionality additional hydraulic lines are provided for various attachments such as hydraulic hammer or hydraulic shear. It can be optionally equipped with wider tracks for soils with lower bearing capacity for agricultural and soil reclamation applications.

 135 kW (184 HP)
  23 600 kg
  0,8...1,25 m<sup>3</sup>

## CHETRA EGP270



This shovel excavator is a multi-purpose earth-moving machine, designed for excavation of pits, trenches, open mines in soils of the 1-4 categories, loading and unloading of bulk materials, broken hard rock and frozen soils with maximum lump size 400 mm, as well as for other industrial, municipal, agricultural, transport and land reclamation applications.

 138 kW (188 HP)
  27 300 kg
  1,1...1,62 m<sup>3</sup>

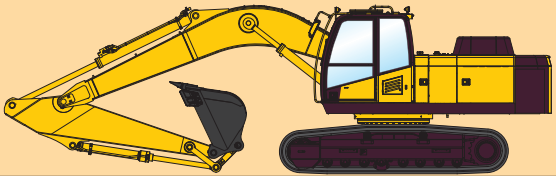
## CHETRA EGP450



This is the most powerful CHETRA excavator designed for industrial and road construction applications, as well as for subsidiary works in open mines.

The operator's cab is made with due regard of the latest ergonomics requirements that provide for optimal working environment during the whole operating time.

 268 kW (384 HP)
  45 700 kg
  2,3 m<sup>3</sup>

	EGP200	EGP230	EGP270	EGP450
				
Engine model	CUMMINS QSB6.7			CUMMINS QSM11
Engine type	6-cylinder water-cooled diesel engine			
Engine operating power, kW (HP)	123 (167)	135 (184)	138 (188)	268 (364)
Operating weight, kg	20 000	23 600	27 300	45 700
Standard bucket capacity, m <sup>3</sup> (for soils with density 2 000 kg/m <sup>3</sup> )	0,8	1,0	1,1	2,3
<b>Optional Buckets</b>				
– for soils with density 1 800 kg/m <sup>3</sup>	0,8	1,1	1,25	2,5
– for soils with density 1 600 kg/m <sup>3</sup>	0,9	1,25	1,4	2,65
Crawler track width, mm	600			
Ground specific pressure, kgf/cm <sup>2</sup>	0,5	0,53	0,56	0,87
Maximum digging depth, mm	6 675	6 990	7 230	7 770
Maximum digging radius, mm	9 695	10 100	10 520	12 060
Dump height, mm	7 190	7 200	7 310	7 650
<b>Overall Dimensions</b>				
Overall width, mm	2 800	2 990	3 190	3 490
Cab roof height, mm	3 010	3 025	3 100	3 330
Height in transport condition, mm	3 000	3 150	3 200	3 550
Length in transport condition, mm	9 495	10 210	10 340	12 000

# ALL TERRAIN VEHICLES

Crawler floating all-terrain vehicle CHETRA TM is a multi-purpose vehicle for transportation of people and cargos. This all-terrain vehicle can be used in cross-country conditions with slopes up to 30° with such perspirations as rain, snow and hail, in iced-up conditions and when crossing waterbarriers in dead water. This machine is purposed for operation in boreal climate at ambient air temperature from -40°C up to +40°C. Combination of long fuel distance (up to 800 km) and low ground specific pressure makes this CHETRA all-terrain vehicle a perfect means of transport in the northern regions.

The vehicle's design successfully combines excellent off-road capabilities and comfort for the driver and passengers. This machine has modular design with three principal compartments: cab, engine compartment and, depending on the configuration, cargo module, accommodation module or workshop module. A seven-seated cab with excellent noise insulation is equipped with comfortable seats which can be transformed into sleeping berths. The accommodation module has all necessary equipment for autonomous accommodation of 4 persons in various climatic conditions.



# ALL TERRAIN VEHICLES

## CHETRA TM140 with cargo platform



It is purposed for delivery of rotational shifts of workers, geological survey groups, trouble crews and for other transportation needs in off-road conditions at ambient air temperature from -40°C up to +40°C.


 184 kW/ 250 HP
  11 200 kg
  0,26 kgf/cm<sup>2</sup>

## CHETRA TM140 with workshop module



Workshop module is purposed for repair and recovery operations and equipped in accordance with a customer's specifications.

The standard version features portable diesel genset, electric/gas welding set and locksmith's tools.



 184 kW/ 250 HP
  13 000 kg
  0,26 kgf/cm<sup>2</sup>

## CHETRA TM140 with passenger module



It is purposed for accommodation and transportation of up to 8 people and cargo up to 2 200 kg.

Passenger module is equipped with everything required for comfortable transportation of people at long distances in various climatic conditions. The module is equipped with heating and ventilation systems, water tanks, full-size sleeping berths and baggage compartments.




 184kW/ 250 HP
  12 350 kg
  0,26 kgf/cm<sup>2</sup>

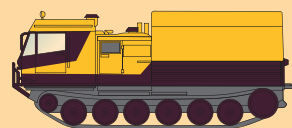



## CHETRA TM140 with Palfinger crane-manipulator



This machine with cargo platform is equipped with Palfinger PK12000 - a crane-manipulator with maximum boom reach 8 m and lifting height up to 10 m. It is purposed for construction and assembly, loading/unloading operations.

 184 kW/250 HP	 12 860 kg	 0,26 kgf/cm <sup>2</sup>
---	---	--

TM140 with workshop module	TM140 with passenger module	TM140 with cargo module	TM140 with Palfinger manipulator
			

Engine type	4-stroke turbocharged diesel			
Engine module	YaMZ-236B-2			
Engine operating power, kW (HP)	184 (250)			
Refill capacity of main fuel tanks, L	630			
Additional refill capacity of main fuel tanks, L	200			
Prestart heating system	Combined, with heating of coolant, engine oil			
Max. operating weight, t	13,0+2%	12,35+2%	11,2+2 %	12,86
Max. payload mass, incl. passengers (with floating capabilities preserved), t	1,65	2,2	4 (0,5 in cab, 3,5 in the body)	1,5
Max. mean ground specific pressure, MPa (kgf/cm <sup>2</sup> )	0,026 (0,26)			
Number of passengers in the cab (including driver), persons	7			
<b>Water drainage equipment</b>				
Type	Centrifugal pump with electric drive			
Quantity, pcs.	2			
Autonomous heating system	AIRTRONIC L-D5 24 V (option)			
Heater	Water-type, working on diesel fuel PZhD24G			
<b>Overall Dimensions</b>				
Length, mm	7470	7470	7800	7800
Width, mm	3100	3100	3100	3100
Height over heater intake, mm	3545	3550	3030	3670
Fuel distance, km	550			
Average travelling speed on dry traffic-compacted road, km/h	20-30			

# WHEELED MACHINERY

## CHETRA PK120



CHETRA PK120 front loader is the most powerful Russian wheeled loader developed with application of advanced technical solutions and customers' demands.

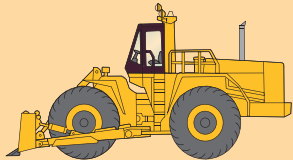
This machine is purposed for heavy-duty operations in comfortable environment. It supplements the range of CHETRA industrial machines and provides an opportunity to purchase all necessary machines for various technological cycles from one manufacturer.

PK120	
Engine type	4-stroke, water-cooled, turbo-charged and aftercooled
Engine model	CUMMINS QSK19-C525
Engine operating power, kW (HP)	349 (474)
Operating weight, kg	54 150
Max. travelling speed forward/ backward, km/h	25,8/31,6
Lifting capacity, t	12
<b>Overall Dimensions</b>	
Length, mm	11 380
Width, mm	4 060
Height, mm	4 761
<b>Buckets</b>	
Multipurpose (heaped), m <sup>3</sup>	6,3 (7,5)
Rock (heaped), m <sup>3</sup>	5,5 (6,5)
Coal (heaped), m <sup>3</sup>	9 (10,7)

## CHETRA TK25.02



It is purposed for road-construction operations, work on coal storage facilities, levelling of tailings surfaces, areas for excavators and drill rigs and as a hauler when transporting heavy cargos or a pusher for railroad cars. It features high maneuverability and productivity. It is ideal for minor auxiliary work in dispersed areas.

TK25.02	
	
Engine type	4-stroke, water-cooled, turbo-charged and aftercooled
Engine model	YaMZ-85.10-01/ CUMMINS KTA 19-C510
Engine operating power, kW (HP)	376(512)/ 338(460)
Operating weight, kg	45 600
Blade	SU blade, 11,13 m <sup>3</sup>
Tractor base, mm	4 150
Road clearance, mm	500
Forward/reverse travelling speed, km/h	27,3/38
Overall Dimensions	
Length, mm	9 070
Width, mm	5 150
Height, mm	4 800

# MUNICIPAL MACHINERY

Multipurpose municipal & construction machines CHETRA MKSM are advanced high-performance machines with lifting capacity from 800 up to 1 200 kg., which can be equipped with any existing attachment and used both in industrial, civil, road construction and in municipal, storage and agricultural facilities.

CHETRA MKSM is a combination of longstanding success of mini-loaders in the Russian market with simplicity and usability of a “workhorse”. Compact size, optimal carrying capacity, maneuverability and simplicity of controls

have gained sympathy of thousands of customers.

Mini-loaders have chain drives driven from a hydraulic motor built in the frame structure. The loader’s frame is designed to ensure excellent visibility providing the view of the whole work area, while the rear view mirrors provide visibility of the area behind the machine and prevent from running on obstacles when moving backward.

The loaders are equipped with unified full-metal cab complying with safety requirements. There are two optional control systems: electrohydraulic – with a joystick through controller, or mechanical – with a joystick through cable linkage.






# MUNICIPAL MACHINERY

## CHETRA MKSM800H



**MKSM800H** mini-loader with carrying capacity 800 kg has showed itself to good advantage in such applications where, due to narrowness or due to economic reasons, it is impossible or ineffective to use standard large scale machines.




**MKSM800H** is equipped with diesel engine by Hatz (Germany) with air cooling system and autonomous cab heating. This loader made a good showing in operation in cold climate environment.

 38,9 kW (53 HP)	 3 700 kg	 800 kg
--	--	--

## CHETRA MKSM800C



**MKSM 800C** mini-loader with carrying capacity 800 kg is equipped with diesel engines by Cummins (South Korea) with liquid cooling system. This loader features lower noise level.




 32,8 kW (44,6 HP)	 3 700 kg	 800 kg
--	--	--

## CHETRA MKSM1000H



**MKSM1000H** mini-loader with carrying capacity 1 000 kg is purposed for operations in road construction and industrial construction, municipal operations.

**MKSM1000H** is equipped with diesel engine by Hatz (Germany) with air cooling system and autonomous cab heating.

 38,9 kW (53 HP)	 4 100 kg	 1 000 kg
--	--	--

## CHETRA MKSM800A



**MKSM 800A** mini-loader with carrying capacity 800 kg is developed with application of state-of-the-art technologies, innovative solutions and original cab design.

**MKSM 800A** is equipped with diesel engine by Kubota (Japan) or Cummins (South Korea) with liquid cooling system. This loader is purposed for road construction and industrial construction, municipal operations.

 35 kW (47 HP) 38 kW (52 HP)	 3 820 kg	 800 kg
--	--	--

## CHETRA MKSM1000A



**MKSM1000A** mini-loader with carrying capacity 1 000 kg is developed with application of state-of-the-art technologies, innovative solutions and original cab design. This loader is purposed for road construction and industrial construction, municipal operations.

**MKSM1000A** is equipped with diesel engine by Kubota (Japan) or VMTZ (Russia) with liquid cooling system.

 54,9 kW (75 HP)	 4 370 kg	 1 000 kg
---	--	--

## CHETRA MKSM1200A



**MKSM1200A** mini-loader with carrying capacity 1 200 kg is developed with application of state-of-the-art technologies, innovative solutions and original cab design. This loader is purposed for road construction and industrial construction, municipal operations.







**MKSM1200A** is equipped with diesel engine by Kubota (Japan). Due to increase of weight and dimensions this machine is more stable and its movement is smoother.

 54,9 kW (75 HP)	 4 830 kg	 1 200 kg
---	--	--






# MUNICIPAL MACHINERY

## Additional equipment

### LOADING OPERATIONS

					
General purpose bucket	Rock-type bucket	Forklift attachment	Forklift with upper clamp	Boom	Loading pin



### MUNICIPAL OPERATIONS


				
Broom	Angle blade	Snow plow	Deicing agent spreader (RPM-04)	Sweeper





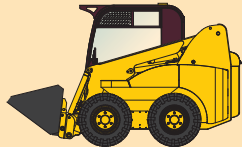
### EARTHMOVING OPERATIONS

			
Ripper	Trencher	Bucket excavator	Drilling equipment

### OTHERS

	
Track chains	Concrete mixer

MKSM800H	
	
Max height of lifted bucket, mm	3 700
Max height of the bucket lower joint when unloading, mm	3 060
Height over the cab, mm	2 065
Road clearance, mm	205
Length with bucket, mm	3 270
Length without bucket, mm	2 480
Standard bucket width, mm	1 730
Operating weight, kg	2 800
Rated carrying capacity, mm	800
Hydraulics	GST-33
Max travelling speed, km/h	10
Standard bucket, m <sup>3</sup>	0,46
Fuel tank, l	55
Period of operation without refueling, hours	9,2
Pneumatic tires	10,0/75-15,3 Mitas
Engine model	Hatz 3M41 (Germany)
Power, h.p. (kW)	52,9 (38,9)
Specific fuel consumption, g/kW*h (g/h.p.*h)	220 (161,8)
No. of cylinders/displacement, l	3/2,6

MKSM800C	MKSM1000H	MKSM800A	MKSM1000A	MKSM1200A
				
3 700	3 700	3 750	3 750	3 833
3 060	3 060	3 040	3 060	3 100
2 065	2 065	2 055	2 055	2 078
205	205	205	205	205
3 270	3 270	3 450	3 550	3 715
2 480	2 480	2 645	2 745	2 730
1 730	1 730	1 730	1 730	2 000
2 800	3 100	3 020	3 370	3 800
800	1 000	800	1 000	1 200
GST-33	GST-33	EATON	EATON	EATON
10	10	12	12	12
0,46	0,46	0,46	0,6	0,7
55	55	70	76	86
9,2	9,2	8,5	9	11
10,0/75-15,3 Mitas	10,0/75-15,3 Mitas	10,0/75-15,3 Mitas	10,0/75-15,3 Mitas	10,0/75-15,3 Mitas
Cummins A2300 (South Korea)	Hatz 3M41 (Germany)	Kubota V2403 (Japan)/ Cummins A2300N2 (South Korea)	Kubota V3300 (Japan)	Kubota V3300 (Japan)
44 (32,8)	52,9 (38,9)	52 (38)/47 (35)	74,6 (54,9)	74,6 (54,9)
253 (186)	220 (161,8)	245 (180)/253 (186)	231 (170)	231 (170)
4/2,3	3/2,6	4/2,4 / 4/2,3	4/3,3	4/3,3



The logo for CHETRA, featuring the word "CHETRA" in a bold, italicized, sans-serif font. The letters are black with a white outline, giving it a three-dimensional appearance.

**Concern «Tractor Plants»**

Address: 1, Mira Avenue, Cheboksary, Chuvash Republic, Russia, 428022

Tel.: +7 (8352) 63-24-63, Fax: +7 (8352) 63-53-64

E-mail: [exports@tplants.com](mailto:exports@tplants.com), Web-site: [tplants-export.com](http://tplants-export.com)

Detailed information on CHETRA model range is available on: [www.tplants-export.com](http://www.tplants-export.com). All technical characteristics are valid as of the moment of approval of this catalogue for publishing. Due to continuous development and improvement of CHETRA model range, the manufacturer reserves its right to introduce changes to design and complete set of equipment provided in this catalogue without prior notice.

All rights reserved. CHETRA trademark is a registered trademark of Machinery & Industrial Group N.V. Partial or complete reproduction of this information in any format is permitted only subject to written approval of the copyright holder. Approved for publishing in November 2015.