

Catalog

PUMPING
UNIT AND
PETROLEUM
SPECIAL
VEHICLES



PUMPING UNIT AND PETROLEUM SPECIAL VEHICLES

1. PUMPING UNIT

Main features:

The working beam is driven by the motor and the gear-box reducer to carry out oil pumping operations. This is safe and reliable unit with a straightforward configuration.

The gear transmission brake mainly uses a band- brake, and the working beam support is four tilting stands, which makes it easy for installation.

There are a complete set of pumping units for your choice. Maximum and minimum suspension point loadings are 35968 lbf and 6744 lbf respectively. Max/min strokes are 19.68ft and 4.59ft. Max/min stroke times are 12 s/min and 2 s/min respectively, which can fully meet all oil field working conditions both at home and abroad.



Specification

MODEL	CYJT8-3-37HB	CYJ10-3-53HB	CYJ12-4.8-73HB	CYJ14-4.8-89HB	CX830	Q1460
Rated suspension point load (lbs)	17984	22480	26976	31472	17984	22480
Rated torque of gear-box reducer (in-lbs)	327464	469088	646102	787714	424834	469088
Stroke (times/min)	6/9/12	6/9/12	6/8/10 (or 4/6/8)	6/8/10	6/8/10	2/4/6
Stroke length (in)	118	118	189	189	118	236
	98	106	149	165	98	197
	82	94	110	141	79	-----
	-----	82	-----	118	-----	-----
	-----	71	-----	-----	-----	-----
Mass (lb)	34171	44363	55115	63933	41006	59414

2. SEMI-TRAILER TRUCK

The universal technical standard is GB/T 23336-2009.

This truck is made of a straight beam and flat plate type structure, which has a low center of gravity and high safety performance. It can be used in door-to-door combined transportation of road, rail, inland water and ocean transportation, and it is more safe and reliable than other similar trucks.

The low-bed semi-trailer truck can be widely utilized for the transportation of both special equipment and bulk cargo.



Specification

Name	Model	Axle number	Truck-self mass (lb)	Rated loading mass (lb)	Total mass (lb)	Overall dimension (ft)(L×W×H)
Low-bed semi-trailer	ES9370DP	3	35274	55200	90400	56×8.2×12

3. OIL TANK TRUCK

Execution standard: QC/T653 — 2000

The tank truck has separate compartments to load different oils or chemicals. Whatever is pumped in or out can be monitored through metering gauges. The tanks are made of carbon steel, stainless steel, inserted plasticized material and glass fiber reinforced plastic, and there are square, elliptical and round tanks. The oil pumps use self-sucking pumps and gear pumps. The oil meters use single-counting meters, double-counting meters or oil-add machines for tax control.

This truck is jointly controlled by a liquid system, electrical system and air system with high automation and simple and safe operation. It looks great and is also well laid-out with fast unloading performance and less residue. It is environment-friendly and highly efficient.



The Dongfeng EQ1290WJ 8×4 chassis has been selected. This chassis has a double turning front axle, double drive rear axle, good tyre wear, good traffic ability and a high carrying capacity.

Specification

Name	Model	Chassis model	Truck-self mass (lb)	Rated loading mass (lb)	Total mass (lb)	Overall dimension(ft) (L×W×H)
Oil Tank Truck	ES5290GJYE	EQ1290WJ	32000	32000	64000	56×8.2×12

4. POWDER-MATERIAL MOVING TRUCK

It can be used in the transportation of material in bulk such as cement, flour, aluminum ore powder, foodstuffs and so on. The execution standard is QC/T560-1999.

This truck is jointly controlled by liquid, electricity and air with high automatization, simple operation and safety. It looks great, and is also well laid-out, with fast unloading performance, and residue being less than 0.1 % . It is environment-friendly and highly efficient. The DongFeng EQ1290WJ 8×4 chassis has been chosen because of its double turning front axle, good tyre wear and, accomplished movement in traffic. The four-axle truck has a high carrying capacity, and the compressor uses a lifting-type structure with high air output, low vibration, and low noise.



Specification

Name	Model	Chassis model	Truck-self mass (lb)	Rated loading mass (lb)	Total mass (lb)	Overall dimension (ft) (L×W×H)
Powder-material moving truck	ES5290GFL	EQ1290WJ	30900	36700	68000	39×8.2×13

5. AERIAL DEVICE TRUCK

It is widely used in aerial operation in many fields such as street lamp repair, municipal works, airports, telecommunications, television stations, and petroleum drilling rigs. Its operational height is from 26ft to 118ft.



The complete set of the upper level loading facility is imported from Italy. Its material is highly strengthened and cold drawing structural steel with high mechanical strength and light weight.

With complete hydraulic proportional control, the operation is flexible, stable and reliable.

This truck has multiple safety designs: with an arm limit protection device, the outrigger cannot operate until the arm withdraws. With the outrigger safety supporting device, it ensures excellent support. It is also equipped with outrigger and upper level operation interlocks to avoid incorrect operation. The glass fiber reinforced plastic bucket has excellent insulation with forced automatic leveling. The start/stop operation can be executed at high positions. With auxiliary power system, the bucket can be withdrawn safely when the engine is tripped off. The automatic amplitude-limiting device can prevent tilting accidents due to overload.

It is convenient to use electrical tools when the AC electrical supply is connected.

Specification

MODEL	ES5101JGK
Max. operation height (ft)	52.5
Max. operation radius (ft)	32.8
Rated load of bucket (lb)	661.38
Turing angle	360°
Max. raise angle of small arm (°)	80
Max. raise angle of lower arm(°)	130
Outrigger type	H type

6. MOBILE GENERATOR TRUCK

The generator capacity ranges from 67HP to 536HP and its matched diesel engines can be foreign products from overseas or a joint venture, such as Cummins, Mannheim, Volvo, Caterpillar, Detroit or some Chinese products such as NanTong,

WuXi, or YuLin, etc. The generators are imported, such as Stanford, Siemens. It can move as a trailer or with its own power, depending on the different requirements of the end-users.

7. WELL DRIFTING TRUCK

This kind of truck uses Steyr or Cummins heavy-duty chassis, which includes a Cummins diesel engine, Allison hydraulic transmission, drive system, triplex single -action piston fracturing pump, control system, lubrication



system, and high and low pressure pipelines. All of this equipment is fixed on the metal-frame, which is connected to the chassis main beam firmly. The equipment has perfect mobility and working reliability.

This truck can work independently or in-series.

Specification

MODEL	ES5211TTJ
Nominal service depth (2 ⁷ / ₈ "EUE tubing) (ft)	11000
Nominal workover depth (2 ⁷ / ₈ "DP) (ft)	7500
Rated load (lbf)	90000
Max. hook load (lbf)	160000
Engine model	WP10.336N
Engine power (hp)	331
Hoisting wire line diameter (in)	7/8
Drive way	6×6
Approaching angle	33°
Departure angle	12°
Min. turning diameter (ft)	59
Overall dimension(ft) (L×W×H)	36×8.2×12

8. FRACTURING TRUCK

This kind of truck uses Steyr or Cummins heavy-duty chassis, which includes a Cummins diesel engine, Allison hydraulic transmission, drive system, triplex single -action piston fracturing pump, control



system, lubrication system, and high and low pressure pipelines. All of this equipment is fixed on the metal-frame, which is connected to the chassis main beam firmly. The equipment has perfect mobility and working reliability.

This truck can work independently or in-series.

Specification

MODEL	YLC105-1490
Max. working pressure (psi)	15000
Max. working displacement (gpm)	610
Plunger pump model	3ZB1490
Max. input power of plunger pump (hp)	2000
Optional chassis	Steyr or Cummins
Overall dimension (in)	404×99×150
Weight (lb)	79365

9. SAND MIXING TRUCK

The sand mixing truck is equipped with a complete hydraulic drive, stepless speed regulation, and centralized controls for the whole hydraulic and air system. This truck has a large installed capacity and excellent working and cruise performance.



Specification

MODEL	HS30B	HS50B	HS100
Sand pump displacement (ft ³ /min)	106	177	424
Sand pump pressure (psi)	14.3~74.3		
Rated sand transport rate (ft ³ /min)	17.66	26.48	60.03
Max. sand concentration (%)	40	40	50
Mixing sand tank volume (ft ³)	52.97	70.63	70.63
The whole unit mass (lb)	34000	38700	41200

10. OIL EXTRACTION TRUCK

With a simple structure, the oil extraction truck is suitable for swabbing operations of remote wells and low-production wells.



The hydraulic and air systems are centrally controlled with an automatic wire line traversed unit and weight/depth indicator.

This truck has a large carrying capacity, with excellent working and cruise performance.

Specification

MODEL	ES5230TCY
Oil extraction well depth (ft)	≤5906
Drum capacity (φ15.5 wire line) (ft)	5906
Max. hoisting load (lbf)	18000
Max. hoisting speed (ft/s)	26.2~29.5
Chassis model	SX1255UFT434
Engine power (hp)	300
Drive way	6×4
Approaching angle	18°
Departure angle	13°
Min. turning diameter (ft)	78.7
Overall dimension (L×W×H) (ft)	34.8×8.2×12.8

11. TANK -CARRYING TRUCK

With a simple structure, this truck can be used to install and move all of kinds of water tanks and its hydraulic and air systems are centrally controlled. The truck has a strong power and a good cruising capability.



Specification

Tank diameter (ft)	8.24
Tank height (ft)	19.76
Tank mass (lb)	6800
Rated hoisting load (lbf)	8500
Working pressure of hydraulic system (psi)	1800
Back rake angle of gantry frame (°)	95
Overall dimension of the tank (ft) (L×W×H)	34.45×8.86×11.15
Overall dimension without load (ft) (L×W×H)	39.37×8.07×8.69

12. MAST-CARRYING TRUCK

With a simple and reliable structure, this truck is suitable for the disassembly and transportation of masts. The holding poles and supporting legs are all operated

hydraulically and the whole unit's hydraulic and air system is centrally controlled.

This truck has enough carrying power and an excellent cruise capacity.



Specification

Model	ES5220TLF
Applicable mast (ft)	95
Hydraulic system pressure (psi)	2000
Air system pressure (psi)	116
Hydraulic oil tank capacity (gal)	66
Max. overturn angle for boom (°)	95
Overall dimension (L×W×H) (ft)	48×8.2×12.8
Mass (lb)	47817.77

13. OIL PUMP MOVING TRUCK

This kind of truck is equipped with an imported truck-crane, which is safe and reliable. The clamping device is hydraulic control. With advanced technical performance and a simple structure, it is easily installed and moved, meaning that working intensity can be greatly reduced. In addition, the truck also has excellent cruising capabilities.



Specification

MODEL	ES5120TYB
Chassis model	DFL1720B
Overall dimension (ft)	30×8.2×10.66
Pump-carrying diameter scope	1.57-4.33
Pump-carrying quantity (set)	10
Working pressure of hydraulic system (psi)	1571.4
Max. hoisting capacity of truck- crane (lbf)	7120.86
Max. working radius of truck- crane (ft)	24.64
Max. hoisting height of truck- crane (ft)	31.8
Rated pressure (psi)	1571.4

14. PIPE-CARRYING TRUCK

This truck is equipped with special hoisting tools and tubing clamping tools, and its hydraulic and air systems are centrally controlled.

This truck has enough power and a good cruise capacity.



Specification

MODEL	YGC-1
Allowable loading length (ft)	39
Hydraulic system pressure (psi)	2320
Overall dimension without load(ft) (L×W×H)	23.2×8.1×8.7
Overall dimension with full load (ft) (L×W×H)	39.4×8.1×8.7

15. BENCH-WORKER TRUCK

This kind of truck is equipped with a mobile power source, devices and tools for bench workers, electricians and welders, and it can drive to the drilling site directly for maintenance of the drilling equipment. With a strong engine power and good cruising capability, the truck is suitable for use in harsh driving conditions, such as deserts, hills and swamps as well as other sites.



Specification

Chassis	Model	SX2150KS (Cruise type)
	Drive way	6×6
	Max. loading mass (lb)	11000
Generator model		EF6600
Grinding machine model		TDS250
Bench pressure machine model		JC04-0.5
Portable arc welding machine model		BX6-180
Overall dimension of bench-worker room (ft) (L×W×H)		15×7.5 ×8.2
Overall dimension of bench-worker truck (ft)(L×W×H)		25.64×8.2×12.66
Mass of bench-worker truck (lb)		38580

16. WELLFLUSHING TRUCK

This truck is suitable for water injection and well flushing operation. It can perform

the combined tasks of a water treatment truck and a well flushing pump truck. It is highly integrated, automated, and easy to use. Models I, II, III are suitable for the flushing water wells with a depth of less than 8202ft; the model IV can be used for flushing wells with a depth of less than 13000ft.

The truck uses a self-made XD30/6×6 chassis or a heavy-duty class II automobile chassis, and the power system adopts hydraulic drive and mechanical drive for movement and operation.

A high pressure stream can be generated for kick-flushing.

A 7-grade filter is installed on the water-treated unit; the filtering media can be used repeatedly and selected in accordance with the pollution conditions of the well.



Specification

MODEL	I TYPE	II TYPE	III TYPE	ES5302TJC/ ES5303TJC
Rated pressure for well flushing (psi)	1740	1740	1740	2320
Rated intensity for well flushing (us gal/h)	7.9	7.9	7.9	7.9
Continuous time for well flushing (h)	6	6	6	8
Working pressure for the equipment on the truck (psi)	≤87	≤87	≤87	≤87
Applicable media temperature (°F)	≤140	≤140	≤140	≤149
Applicable media (lbs/in3)	Mechanical impurity≤72	Mechanical impurity ≤72	Mechanical impurity ≤72	Mechanical impurity ≤180
	Oil ≤36	Oil ≤36	Oil ≤36	Oil ≤180
After-treatment media (lbs/in3)	Mechanical impurity ≤0.18	Mechanical impurity ≤0.18	Mechanical impurity ≤0.18	Mechanical impurity ≤0.18
	Oil≤0.36	Oil≤0.36	Oil≤0.36	Oil≤0.29
Overall dimension (ft) (L×W×H)	32×8.2×10.5	32×8.2×10.5	35.2×8.2×12.5	39.4×9.4×12.8
Carrier	Class II chassis	Class II chassis	Class II chassis	XD30/6×6 self-made chassis

17. RIG MOVING TRUCK

This truck consists of a tractor, semi-trailer, hydraulic winch, wire line and hydraulic, air, and electrical systems. The semi-trailer has auto-load and unload functions, and therefore can transport drilling rig modules and peripheral equipment that are over-height, over-width and over-length, or with special requirements. It is suitable for moving components with an oil skid structure, and it is highly efficient, flexible and safe for operation.



Specification

PRODUCT CATEGORY	2 Axles	3 Axles		4 Axles
Model	ES9630	ES9640	ES9650	ES9660
Whole truck mass (lb)	33000	50000	57000	57000
Loading weight (lb)	66000	88000	110000	133000
Tractor model	2532S/6×4	2532S/6×4		2532S/6×4
Max. speed (mile/h)	40	40		40
Min. turning radius (ft)	39	52	59	59
Max. gradient ability	22%	22%		17%
Min. ground clearance (in)	13	13	13	13
Loading and unloading type	Winch+ rolling bar (or access board)	Winch+ rolling bar (or access board)	Winch+ floating frame	Winch+ rolling bar (or access board)
Max. pull of winch (lbf)	67440	67440		67440
Overall dimension of semi-trailer (ft)	51×10.17	55.77×10.17		60×10.17
Deck dimension ft (L×W)	24×10.17	39.4×10.17	39.4×10.17	39.4×10.17
Deck height (full load) (ft)	3.94	3.94	4.86	3.94
Semi-trailer wheelbase (ft)	4.46	4.46+4.46		4.46+4.46+4.46
Rear suspension (ft)	3.46	3.46		3.46
Semi-trailer departure angle	27°	27°	21°	27°

18. GROUND ANCHOR TRUCK

This truck can be used for quick anchoring operation of the guylines in oilfields. With a class II heavy-duty automobile chassis and 4-section rectangle telescoping and foldable arms, the truck is also equipped with H-type or frog-type hydraulic supporting legs and a rotary platform, which can perform 360-degree free rotation. The whole vehicle is hydraulically controlled and engaged/disengaged by air drive PTO, which can be operated comfortably, safely and reliably.



Specification

MODEL	ES5091TDM	ES5092TDM
Max. output torque (lb·ft)	4425	
The rotation speed of the ground anchor (r/min)	12~22	
Rotary speed of the cantilever (r/min)	0~2.5	
Rotary range of the cantilever	360°	
Working pressure of the hydraulic system (psi)	2000	
Working radius (ft)	30	
Outrigger type	H type	
Chassis	EQ1102T-D3GJ	DFL1160BXB
Seats	3	
Emission standard	GB III	GB IV



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