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Farm machinery sourcing reference

12 items: from an equipment list to a defined configuration

A tractor, tillage and hay implements, water transport and backup power can sit on one sourcing list. This reference shows a farm buyer's 12-item selection so you can compare machine types, key specifications and compatibility requirements.

01 75 HP 4WD tractor

Reference tractor: 540 / 720 rpm rear PTO

02 800 L boom sprayer

8 m boom; three-point mounted

03 Rotavator with ridger

1.6 m working width; two ridges

04 20-disc trailed harrow

2.2 m width; 660 mm discs; 1,170 kg

05 2-disc plough

660 mm discs; 500 mm working width

06 3-disc plough

560 mm discs; 600 mm working width

07 5-disc hay mower

2.2 m working width; 10 blades

08 4-wheel mounted rake

Single-side mounted; 139 kg

09 Square hay baler

1,750 mm pick-up width

10 6,000 L tanker trailer

Vacuum pump included in this example

11 5 t tipping trailer

460 mm side extension in this example

12 30 kW enclosed generator

30 kW / 37.5 kVA at power factor 0.8

A real enquiry example, September 2026. Images and specifications are from suppliers; the project was at selection and quotation stage. Your configuration is confirmed for your work, tractor and destination.

Four choices that shape the package

This buyer started with an equipment list, then clarified the hitch types, farm roads and backup power. These four choices show how a list becomes a defined configuration.

Harrow: 20 discs is only part of the choice

The buyer needed a trailed harrow with transport wheels. The proposal specified the trailed layout, 2.2 m working width and 660 mm discs, avoiding selection by disc count alone.

State whether your list calls for a trailed or three-point-mounted harrow.

Rake: define the hitch and working layout

The buyer wanted a four-wheel, single-side mounted rake. The proposal used a 139 kg machine and specified its mounted layout. The same wheel count can come with a different hitch.

If you have a tractor, send a rear-linkage photo to help check dimensions and lift requirements.

Trailer: specify the farm roads

The buyer described rough farm roads. The proposal added 460 mm side extensions and requested off-road tread tyres. The image shows the extensions; tyre tread is confirmed when ordering.

Describe the roads, material and load so the sides and tyres can be selected together.

Backup power: confirm output and enclosure

The buyer added backup power and requested a canopy. The proposal used an enclosed generator rated at 30 kW / 37.5 kVA.

Send the electrical loads and starting method to check the required output. 30 kW and 30 kVA are different.

Send your equipment list

Include the tractor model, main jobs, road conditions and destination. We work through machine types, connections, spares and transport requirements, define the configuration and request quotes machine by machine.

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01 / 75 HP 4WD tractor

Reference tractor: 540 / 720 rpm rear PTO

Engine & Transmission	
Model	75HP (754)
Engine	Weifang 75 HP, turbocharged
Drive	Four-wheel drive
Gearbox	8+8 shuttle shift
Steering	Hydraulic power steering
Rear axle	Heavy-duty TE rear axle
Implement Interface	
Rear PTO	540 / 720 rpm
Hydraulic outlets	Rear triple distributor, two multi-way valves, pressure and float
Hitch	Rear linkage, rear drawbar
Machine	
Operator station	Open
Tyres	Front 750-16, rear 11.2-28
Ballast weights	4 front, 2 rear
Dimensions	3.2 × 1.5 × 2 m (L × W × H)

Compatibility notes

The pictured 754 uses a Weifang engine. If you specify YTO, the exact YTO model and quote must be confirmed separately. Tractor mass, linkage lift, PTO and permitted towing load also matter when selecting implements.

02 / 800 L boom sprayer

8 m boom; three-point mounted

Model	800L
Hitch	Three-point mounted
Tractor power	60–90 HP
Tank capacity	800 L
Boom length	8 m
Boom folding	Manual
Pump	3-cylinder pump

Compatibility notes

800 L tank, 8 m boom and three-point linkage. Confirm the tractor’s rear linkage and hydraulic connections. The boom folds manually for transport.

03 / Rotavator with ridger

1.6 m working width; two ridges

Hitch	Three-point mounted
Tractor power	70 HP
Working width (2 ridges)	1.6 m
Ridge top width	30 cm
Ridge height	20–25 cm

Compatibility notes

Two-ridge cultivation with a 1.6 m working width. Check ridge-top width and ridge height as well as the overall tilling width.

04 / 20-disc trailed harrow

2.2 m width; 660 mm discs; 1,170 kg

Hitch	Trailed
Number of discs	20
Disc diameter	660 mm
Working width	2200 mm
Main beam	120 × 120 mm
Tyres	2 × 750-16
Overall dimensions	5200 × 2300 × 1240 mm (L × W × H)
Weight	1170 kg

Compatibility notes

This is a trailed disc harrow with transport wheels. Besides tractor horsepower, confirm the drawbar connection and hydraulic requirements.

05 / 2-disc plough

660 mm discs; 500 mm working width

Model	1LYT-225
Hitch	Three-point mounted
Number of discs	2
Disc diameter	660 mm
Working width	500 mm
Ploughing depth	20–25 cm
Tractor power	75 HP

Compatibility notes

This two-disc plough has a 500 mm working width. Check disc diameter, working depth and tractor linkage against your cultivation requirements.

06 / 3-disc plough

560 mm discs; 600 mm working width

Model	1LYQ-320
Hitch	Three-point mounted
Number of discs	3
Disc diameter	560 mm
Working width	600 mm
Ploughing depth	20 cm
Tractor power	75 HP

Compatibility notes

This three-disc plough has a 600 mm working width. Its disc diameter differs from the two-disc model, so compare both when selecting.

07 / 5-disc hay mower

2.2 m working width; 10 blades

Model	9GX-2.2
Hitch	Three-point mounted
Number of discs	5
Number of blades	10
Working width	2200 mm
Tractor power	50–80 HP

Compatibility notes

Five discs, ten blades and a 2.2 m working width. Check the operating conditions and tractor PTO for the intended combination.

08 / 4-wheel mounted rake

Single-side mounted; 139 kg

Model	9LZ-3.0
Type	4 wheels, single-side mounted
Finger wheels	4
Wheel diameter	137 cm
Hitch width	74 cm
Dimensions	3770 × 1650 × 1370 mm
Weight	139 kg

Compatibility notes

Single-side mounted, weighing 139 kg. Provide the rear-linkage dimensions and lift rating to check connection and lifting requirements.

09 / Square hay baler

1,750 mm pick-up width

Model	9YF-1750
Hitch	Trailed
Pick-up width	1750 mm
Bale length (adjustable)	30–120 cm
Output	Approx. 120 bales / hour
Tractor power	75 HP

Compatibility notes

1,750 mm pick-up width and adjustable bale length. Around 120 bales/hour is a supplier reference; actual output depends on crop material and operating conditions.

10 / 6,000 L tanker trailer

Vacuum pump included in this example

Model	2FYP-6
Type	Liquid spreader tanker
Tank size	Length 3850 mm, diameter 1620 mm
Overall size	6100 × 2000 × 2700 mm
Weight	2100 kg
Filling	Vacuum self-suction (pump included)
Tyres	400/55-22.5
Track width	1.6 m
Drawbar length	2.35 m
Ground clearance (under axle)	Approx. 450 mm
Spray width	10–15 m
PTO input	540 rpm
Discharge rate	≥ 1 m^3/min
Tractor power	4WD tractor, 70 HP and above

Compatibility notes

This proposal uses 6,000 L; the buyer originally requested 5,000 L. The capacity must be explicitly selected. Loaded towing also depends on the tractor's permitted towing load, brakes and road conditions.

11 / 5 t tipping trailer

460 mm side extension in this example

Model	7CX-5
Rated load	5000 kg
Body size	3.4 × 1.9 × 0.5 m
Side extension	One extra board, 460 mm high
Tyres	Single axle, 2 × 11.5/80-15.3 off-road tread
Tipping	Hydraulic, rear tipping
Brakes	Air brakes
Hitch	40 mm drawbar ring, hand-crank jack
Tractor power	60–90 HP
Max. speed	50 km/h
Spare tyre	Optional

Compatibility notes

The image shows side extensions. Confirm the proposed off-road tyre tread when ordering. The listed maximum speed is a supplier figure, not a safe-speed recommendation for farm roads.

12 / 30 kW enclosed generator

30 kW / 37.5 kVA at power factor 0.8

Generator Set	
Prime power	30 kW / 37.5 kVA
Voltage	400/230 V, 3-phase 4-wire
Rated current	54 A
Speed	1500 rpm
Fuel consumption	≤ 198 g/kWh at 100% load
Enclosure	Soundproof canopy
Engine	
Brand & model	Yuchai YC4V45Z-20
Rated power	33 kW
Type	Vertical in-line 4-cylinder, water-cooled, 4-stroke
Aspiration	Turbocharged, intercooled
Displacement	2.5 L
Start / governor	24 V electric start, electronic governor
Altitude	Up to 2500 m
Alternator	
Brand & model	Shanghai Stanford STF30-1-4
Excitation	Self-excited, AVR
Insulation / protection	Class H, IP22
Voltage regulation	≤ ±0.5% steady state

Compatibility notes

30 kW corresponds to 37.5 kVA at power factor 0.8. The original request was 30 kVA, a different specification. Select for the load and starting requirements rather than comparing the number 30 alone.