



BAURAL

DP4000 Combine harvester

**HIGH-TECH MACHINES FOR AGRONOMIC
RESEARCH AND SEED PRODUCTION**



Harvesters



Comfort and functionnality

A double-pot combine designed to meet your needs

Completely suited and developed by BAURAL
 Efficient and robust design
 Powerful engine and transmission
 Fast row-edging
 Fast threshing and cleaning avoiding grain mixture
 All harvesting heads adaptable
 Isolated cabin from noises and vibrations
 Daily reduced maintenance
 Transport as normalized size



Powerful engine

JOHN DEERE type: 136 kW (185 ch DIN)
 In accordance with applicable standards
 Total access for maintenance
 Electronic control board inside the cabin
 Rotative filter for cooling engine down





Cabin and transmission

Panoramic view

Great visibility at 191° with an access on each side thanks to 2 lateral doors

Automatic heating and air conditioning

Very good acoustic and thermic isolation

Ventilation and filtered pressurization

Pneumatic seat and tilting steering

Foldable ladders

Sunroof to clean filters

Multi-function lever (forwarding command and header lifting)

Easy-to-reach control layout via a removable console

Large size rear-view mirrors and large windscreen wiper

Front lights



Transmission

POCLAIN hydraulic wheel engine installed on a solid frame

Fixation for transport

4 gears (4 wheel-drive in option)

SAUER hydrostatic pump

Large tyres which allow harvesting in all conditions

Hydraulic steering



Weighing and sampling equipment

Weighing and sampling equipment

Double weighing hopper and double waiting hopper

Access and control from driver's seat

Cycles management by PLC

Double weighing areas with 2 x 4 stainless-steel sensors

2 weighing indicators with quick stability

Pneumatic system for door opening

Pneumatic sampler with automatic selector inside the cabin (optional)

Data collector: weight, moisture, plot number and harvest plan (optional)

Industrial spectrometer NIRS (optional)

Printer and industrial computer (optional)





Transport and grain storage

Powerful pneumatic system

Double turbine

Maintenance-free Venturi

Double cyclone sheltered from bad weather

High resistance short pipes

Exclusive and independent row-edging (Electro-pneumatic command)



Large storage hopper

Hopper extension with hydraulic command

Cyclone decompression in the hopper

Long drain-screw with complete visibility during emptying

Lighting signal when full

Window with light





Threshing system and straw spreader

High performance threshing and separating system

- Axial threshing with separated double rotor (studied for multi-cereals culture)
- Adjustable counter-thresher
- Supply through separated conveyors
- Independent straw separator
- Self cleaning carrying strip easy to remove
- Adjustable upper sieve
- Lower sieve : holes diameter depending on culture variety
- Fan with variator (electrical command) and speed indicator
- Thresher variator with electro-hydraulic command (optional)
- Clutch with electrical command and security



Straw spreader

- Straw disperser with double rotating axis
- Chopper with movable blades
- Adjustable height
- Adjustable dispersion width
- Pivoting system for an access at the shacking sieves
- Hydraulic functioning (spreader)
- Quick dissaembly



Headers

For corn : CAPELLO 2 x 2 rows (70 – 75 – 77.5 – 80 cm)

Hydraulic folding to 2.50m for transportation
Elements driving with hydraulic system
Cutting system for stalks with disengaging lever (optional)
Lateral crop divider (optional)



For cereals and rapeseed : CAPELLO (2 x 1.40 m, 2 x 1.80 m or other on request)

Hydraulic functioning
Turbine for cutting head's blower (optional)
Rapeseed's saw (optional)



For sunflower : MORESIL 2 x 4 rows (60 cm, 65 cm, 70 cm)

Hydraulic folding for transportation
Hydraulic functioning
Chain on cover
Quick assembly
Blower on supply screw





Features

Engine and transmission

John Deere engine 185 ch 136 kW à 2200 r.p.m. 6 cylinders with turbo
 Fuel tank of 300 liters
 Hydraulic tank of 140 liters
 Hydraulic transmission with double volumetric size engine
 Speed on road 0 à 25 km/h
 Speed on field 0 à 13 km/h
 Front tyres 18.4 R 30
 Rear tyres 11.2 R 24

Threshing and cleaning

Double axial thresher
 Adjustable counter thresher - surface of 2 x 0,75 m²
 Carrying strip under counter thresher
 Fan with electrical commande 450 à 1000 r.p.m.
 Shaking surface of 3,10 m²

Hopper

Capacity : 4000 litres
 Emptying height : 3,80 m
 Emptying speed : 70 liters/sec

Electricity

Main circuit : 12 Volts
 Secondary circuit : 12 Volts
 Traffic and road lights
 Front working lights
 1 light on drain screw and 1 light in the hopper
 1 reverse light
 Revolving lights
 Cycle PLC
 Radio



Weighing equipments

2 turbines with venturi (air flow 2 x 1200 m³/h)
 Double waiting hopper 2 x 40 liters
 Double weighing hopper 2 x 40 liters
 8 stainless steel sensors IP65
 2 indicators with quick stability
 Solenoid valves and pneumatic command cylinders
 Compressor with 100 liters tank

Dimensions

Total length with the header : 8,40 m
 Width (transport) : 2,54 m
 Wheelbase : 3,30 m
 Distance between front wheels : 2,06 m
 Distance between rear wheels : 2,15 m
 Turning radius : 8,20 m
 Total weight with header and rear motor : 9900 kg (depending on equipments)
 Height from ground : 0,34 m

Options

Stalk thresher under the cutting head
 Rear hydraulic motor
 Air conditionning / Heating
 Printer
 Pneumatic sampleur
 Pneumatic winder
 Removable light with cable on winder
 Speed and rotation controller
 Industrial spectrometer - NIRS
 Data collector / Industrial computer
 Thresher variator
 Straw spreader
 Straw thresher





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