

 **MOTEURS Baudouin**
A **WICHA** COMPANY

BUILT TO
GROW

A CENTURY OF POWER,
NOW FOR AGRICULTURE.

STAGE V ENGINES





FROM FRANCE TO GLOBAL POWER

100 years of power. 1 millions engines worldwide. A future built greener.

Since 1918, Baudouin has been designing and manufacturing engines that endure. From our origins in Cassis, France, we have grown into a global brand recognized for performance, reliability, and innovation. Today, as part of Weichai Group, one of the largest power system manufacturers in the world, we are backed by the strength of a company with over millions engines in operation worlwide. This scale gives us a unique advantage: the ability to understand customer needs, deliver the best lead times, and provide worldwide service and support.



French Heritage since 1918



Global strength as part of Weichai Group



100+ years of engineering expertise



1M+ engines produced per year



Fastest lead times available on the market



Stage V solutions



Our production capacity reflects this global strength. Baudouin operates two state-of-the-art manufacturing sites:

CASSIS in France: our historic headquarters and engineering hub, with 35,000 m² dedicated to production, testing, and R&D.



WEIFANG in China: a world-class facility of over 765,000 m², enabling large-scale production & optimized logistics worldwide.

At the same time, we remain committed to building a greener future. Our Stage V engines integrate advanced aftertreatment technologies to reduce emissions and improve efficiency, helping agriculture move forward sustainably.

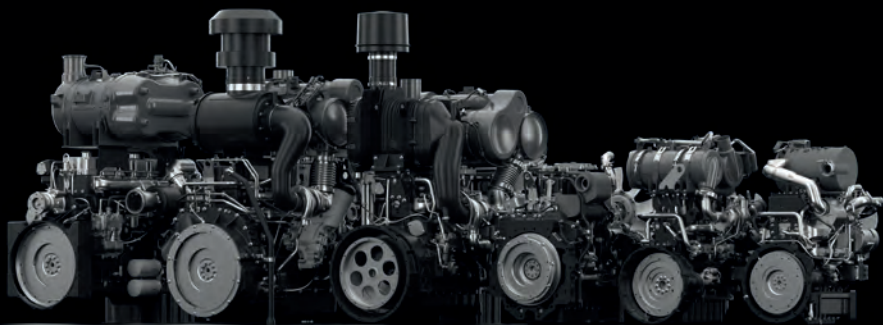
BUILT TO GROW, BAUDOUIN STAGE V ENGINES



Baudouin's Stage V line-up covers the full spectrum of agriculture – from compact tractors and sprayers to large harvesters and irrigation systems. With seven engine families from 4 to 6 cylinders, the range spans 33 kW to 566 kW (44 HP to 760 HP).

Available in both structural and non-structural versions, the range offers OEMs maximum design freedom. Farmers and equipment manufacturers alike can count on proven performance, simplified integration, and reliability tested in the harshest conditions.





4M06	2.5 L	33-56 kW	76 HP
4M09	3.6 L	60-105 kW	140 HP
4M12	4.6 L	102-147 kW	200 HP
6M13	7.8 L	156-257 kW	350 HP
6M16	9.5 L	249-294 kW	400 HP
6M21	12.5 L	293-405 kW	550 HP
6M28	16.6 L	409-566 kW	760 HP

STANDARDS ACROSS THE RANGE

- Service interval: 600 h
- Warranty: 3 years / 3,000 h
- Urea Tank included
- Cold start capability down to -40°C
- Continuous operation up to +50°C
- Reliable performance up to 4,700 m altitude
- Engine lifespan B10: 30,000 h

PLUS BENEFITS

- Integrated aftertreatment for Stage V compliance
- Optimized for agricultural duty cycles
- Global service & parts support network (100+ countries)

Configurations & Availability:

Bare engines available from Q4 2025

PowerPacks with integrated cooling available from Q2 2026

STAGE V TECHNOLOGY

Robust Strategy for Cleaner Air



Every Baudouin Stage V engine is engineered with farming in mind. Stronger pistons, optimized combustion, and compact systems make our engines efficient, reliable, and easy to integrate.

The result? Longer working hours, lower operating costs, and more comfort in the field.

- High-strength pistons withstand heavy-duty cycles
- Optimized airflow and combustion improve fuel efficiency
- Compact after-treatment system saves space and simplifies installation
- Reduced noise and vibration for better operator comfort

Stage V compliance is more than meeting the standard.

Baudouin's advanced SCR systems, crystallization control, and intelligent thermal management guarantee uptime, extend system life, and protect both productivity and the environment.

Fully HVO-compatible, our engines offer an immediate pathway to lower CO₂ emissions and more sustainable operations — without any modification or performance loss.

- Cleaner exhaust: 96% NO_x reduction, 98% PM reduction, 94% CO reduction
- Full power across duty cycles with no compromise on output
- Crystallization control prevents failures and extends ATS life
- Thermal management ensures reliability in extreme climates
- Proven durability: thousands of bench and field hours

4M09

3.6 L VERSATILITY IN EVERY FIELD



With a compact 3.6L footprint, the 4M09 delivers the output of a 4L class engine. From tractors, telehandlers to irrigation pumps and compressors, it adapts to multiple applications with minimal maintenance.

Rated Power kW @ rpm	105 @ 2,300
Peak Torque Nm @ rpm	580 @ 1,500
Nb cyl	4L
Turbo	WG-TCA
Displ	l 3.6
Dry Weight Kg (w/o ATS)	330
Dimensions mm (w/o ATS)	857(L)×668(W)×765(H)
Aftertreatment	DOC - DPF - SCR - EGR

Ratings available: 60 / 75 / 90 / 105 kW

Compact 3.6L design, 4L performance

Maintenance-free ATS

600 h oil change interval

Max torque reserve: up to +40%

Flexible use: mobile & stationary applications



6M13

7.8 L ENGINEERED FOR THE TOUGHEST AGRICULTURAL DEMANDS



The 6M13 is designed for heavy-duty tractors and large harvesters. With wet cylinder liners, compact ATS integration, and low-noise operation, it combines strength, reliability, and comfort for demanding conditions.

Rated Power kW @ rpm	257 @ 2,100
Peak Torque Nm @ rpm	1,400 @ 1,600
Nb cyl	6L
Displ	l 7.8
Dry Weight Kg (w/o ATS)	760
Dimensions mm (w/o ATS)	1,333(L)x867(W)x960(H)
Aftertreatment	DOC - DPF - SCR - EGR free

High power density

Low noise & vibration with rear gear housing

Wet cylinder liners for cooling and durability

Compact ATS on cylinder head

Built for heavy-duty tractors & harvesters

Ratings available: 156 / 190 / 223 / 257 kW

Compact 7.8L design, 8L performance

Maintenance-free ATS

600 h oil change interval

Max torque reserve: up to +40%

Flexible use: mobile & stationary applications



PROVEN IN THE FIELD, BUILT TO LAST

The Right Power for Every Agricultural Application

Every Baudouin Stage V engine is subjected to extensive validation programs to ensure reliability in real agricultural duty cycles. From endurance bench tests to full field trials, our engines are proven to deliver performance and uptime where it matters most.

HIGHLIGHTS

- 10,000 hours of bench testing per engine family
- 3,000 hours of field testing under real farm duty cycles
- Validated in extreme climates and varying loads
- Rigorous durability testing for after-treatment systems (ATS)
- Proven compliance with Stage V across all applications





GLOBAL SERVICE, SPARE PARTS, & NETWORK SUPPORT

Baudouin Stage V engines are designed for agriculture, but our commitment goes far beyond the engine itself. We provide farmers and OEMs with the confidence of knowing they are backed by a strong, reliable service and support structure.

Our engines are supported by a global network of certified distributors and service partners, ensuring availability of spare parts, technical expertise, and fast assistance wherever it is needed.

Baudouin offers best-in-class lead times, efficient spare parts delivery, and professional service support to keep machines running when it matters most.



Global network coverage with certified service partners



Genuine spare parts always available for fast replacement



Factory-trained technicians providing expert service



Efficient logistics and supply chain for quick delivery



Warranty: 3 years/3,000 hours

An aerial photograph of a green combine harvester working in a golden-brown field. The harvester is moving from the bottom center towards the top of the frame, leaving a trail of harvested grain behind it. The field is densely packed with crops, and the lighting suggests a late afternoon or early morning setting.

BUILT TO POWER

ENGINEERED AS ONE

RELIABLE TURNKEY SOLUTIONS,
POWERED BY COMBINED EXPERTISE.



ENGINEERED AS ONE

Baudouin goes beyond engines. Together with Aradex, VDS, and LHY, we deliver fully integrated solutions for the agricultural industry. By combining power, electronics, drivetrains, and hydraulics into one system, OEMs benefit from faster integration, higher efficiency, and a single point of accountability.

HIGHLIGHTS



Hybrid and power electronics
for efficient energy management



VARIABLE
DRIVE
SYSTEMS

Drivetrain solutions tailored
to agricultural machinery



Hydraulics and transmissions
for precision control

DeV-Series Hybrid Powertrain

FROM 60HP TO 170 HP

Designed for seamless hybrid operation, this modular system delivers the perfect balance of mechanical and electric power, enhanced by a CVT transmission for smooth, efficient power transfer in all conditions.

Dh-Series Diesel Hydrostatic Powertrain

FROM 75 HP TO 450 HP

Built for precision and endurance, the DH-Series integrates advanced hydrostatic transmission technology for superior control and efficiency. Designed for telehandlers and harvesters, it delivers exceptional torque, smooth power delivery, and optimized fuel economy.

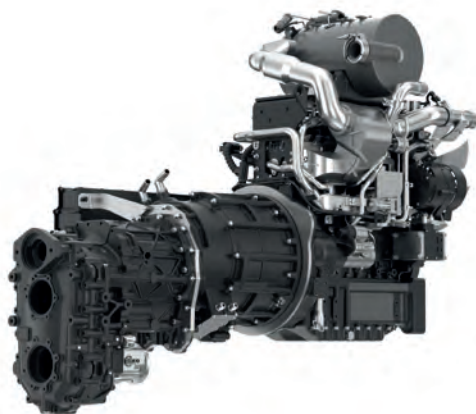
DhV-Series Diesel Powertrain

FROM 220 HP TO 340 HP

Engineered for maximum tractive force and efficiency, it delivers superior traction and intelligent speed control. With its CVT transmission, power flow remains seamless and fuel use optimized in every condition.

DeV-Series Hybrid Powertrain

FROM 60HP TO 170 HP



Combined Output: Up to 170 HP and 700 Nm peak torque

Instant Response: Full tractive force available from standstill

Electric Autonomy: Up to 4 hours of pure electric operation

Fast Charging: 30-minute DC recharge for maximum uptime

Clutchless Architecture: Smooth, stall-free performance in all conditions

Stop & Start Function: Reduced fuel consumption and CO₂ emissions during idle



BAUDOUIN ENGINE

ENGINE 4M06

4 cyl 2.5 L Stage V

56 kW @ 2,400 rpm

300 Nm @ 1,700 rpm

DOC/DPF/EGR – SCR Free

Structural configuration with provision for front loader

Flat power and 35% torque reserve

HVO compliant

ARADEX MOTOR, INVERTER & BATTERY

MOTOR VM6

PM-RSM with high efficiency

56 kW @ 2,400 rpm (up to cont. 69 kW @ 6,000 rpm)

Peak torque 420 Nm @ 1,700 rpm

INVERTER VP600

Single/Double Traction Inverter

Max. 860 VDC (Operation voltage from 200 to 850 VDC)

Cont. Power from 50 to 250 kW

Peak up to 960 A for 60 s

BATTERY 2xB30 LFP

Nom 76 kWh – 308 VDC

VDS TRANSMISSION

TRANSMISSION eVTP500

Rated power 170 HP

Output torque 2,600 Nm

4WD 50/50 differential

PTO as drive through

Ratio: REV –5.47 – ∞

FWD ∞ – 0.89

Dh-Series Diesel Hydrostatic Powertrain

FROM 75 HP TO 450 HP



Power Range: 75 – 450 HP for telehandlers and harvesters

High Torque Output: Up to 580 Nm @ 1,500 rpm with strong transient response

Hydrostatic Transmission: Delivers precise control and seamless power delivery

Heavy-Duty Performance: Built for demanding lifting, pulling, and loading operations

Fuel Efficiency: Optimized low-end torque enhances overall fuel economy

Hydraulic Precision: High-pressure system ensures accurate boom control and superior safety





BAUDOUIN ENGINE

ENGINE 4M09

4 cyl 3.6 L Stage V

140 HP @ 2,300 rpm

580 Nm @ 1,500 rpm

DOC/DPF/SCR/EGR

15% power reserve and 33% torque reserve

HVO compliant

LHY VD PUMP & VD MOTOR

VD PUMP CPV115

Swashplate pump

115 cc/rev (available from 65–175 cc/rev)

500 bar max pressure

With integrated gear pump

VD MOTOR CMV115

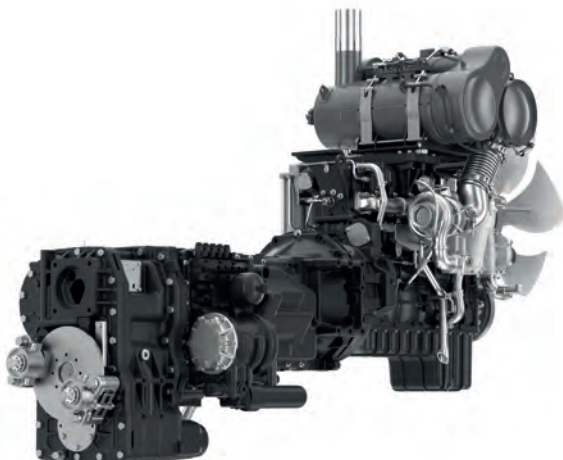
Axial piston motor in bent axis

115 cc/rev

787 Nm output torque

DhV-Series Diesel Powertrain

FROM 220 HP TO 340 HP



Power Range: 220 - 340 HP with up to 4,500 Nm output torque for heavy duty applications, agricultural and forestry machinery

Optimized Efficiency: Maintains ideal engine RPM while independently adjusting ground speed

Seamless CVT Operation: Stepless speed control for perfectly matched traction and load conditions

Superior Tractive Force: Integrated K-Series hydraulic unit delivers exceptional torque multiplication

Advanced Control: Ensures maximum yield, precision, and operator comfort without compromise



BAUDOUIN ENGINE

ENGINE 6M13

6 cyl 7.8 L Stage V

350 HP @ 2,100 rpm

1,400 Nm @ 1,200 rpm

DOC/DPF/SCR – EGR free

15% power reserve and 20% torque reserve

HVO compliant

LHY POWERTRAIN

COMPACT UNIT K-SERIES

Closed Circuit Pump + Motor

HPV-02 and HMF-02 back-to-back in common unit

55/55-105 cc/rev

500 bar max pressure

374-719 Nm torque

VDS TRANSMISSION

TRANSMISSION VTP1100/1400

Rated power 220–340 HP

Output torque up to 4,500 Nm

GVW 12 t – 18 t

Ratio: REV –0.75 – ∞

FWD ∞ – 0.842



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