Aurobay

Mobility
as a service.

Looking for mobility-as-a-service?

With emissions and safety regulations requiring significant capital and engineering investment, it can be hard to make the sums add up.

Outsource your hybrid and ICE powertrain operations to cut costs and free up resources to focus on differentiating investments.

Keep the quality the same – or even better – by choosing a specialist powertrain company, known for innovation and sustainability like Aurobay.

Aurobay solutions and services

Next generation powertrain solutions

1

R&D and Manufacturing Engineering services

2

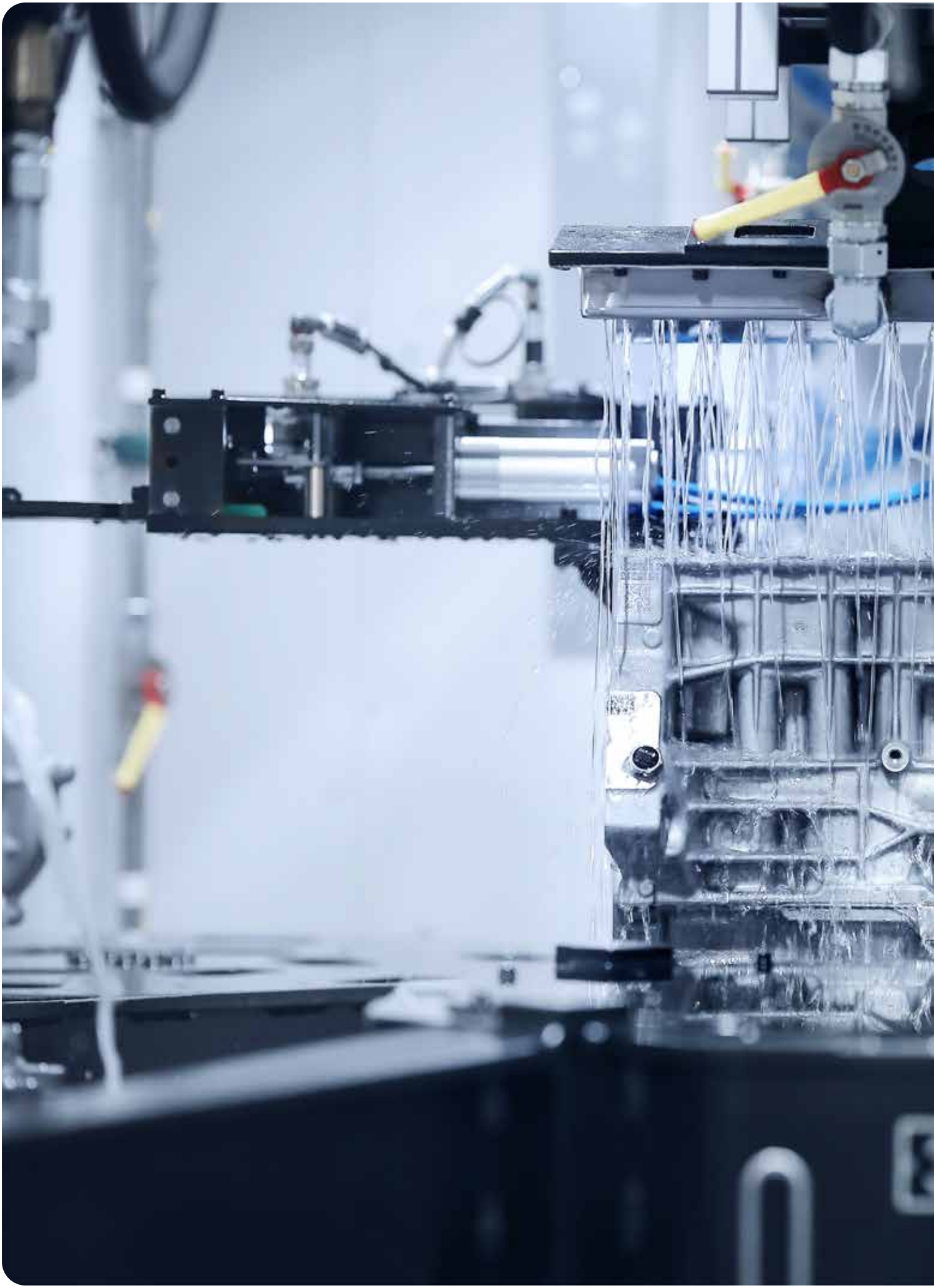
Contract manufacturing

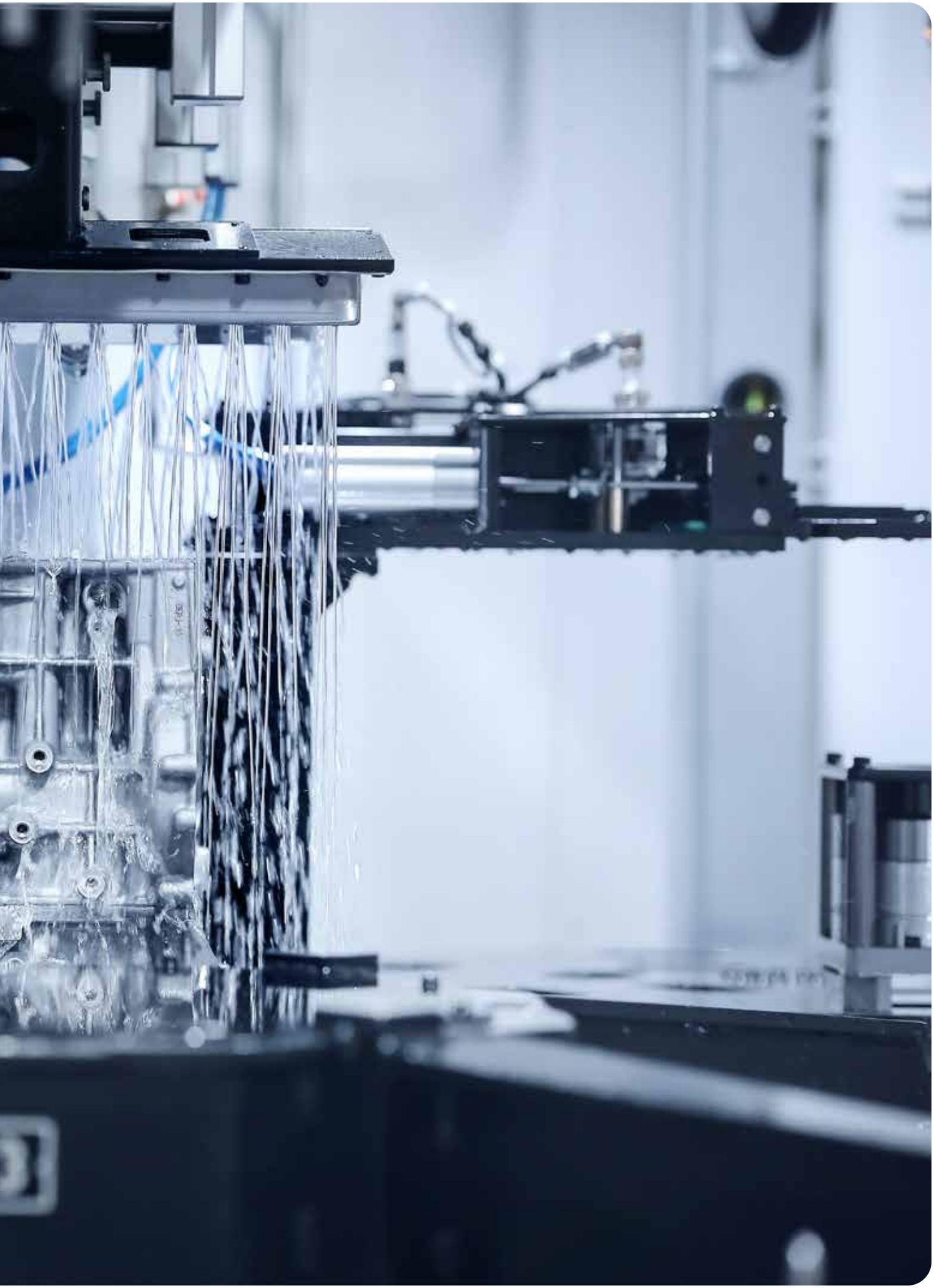
3

- Cost-effective 3- and 4-cyclinder engines, including software, control and calibration
- Best-in-class specific emissions, with products meeting global regulations
- Award-winning modular architecture
- Systems supporting powertrain electrification

- Experienced teams and advanced research and engineering facilities
- Verification, proof of concept and development services supporting electric and conventional powertrains
- Flow analysis and process planning to maximize efficiency

- State-of-the-art factories with highly flexible production lines
- Lean processes, sustainable production
- Manufacturing, machining and assembly





Award-winning engine architecture

Aurobay aims to be the supplier of choice for world-class powertrain solutions. We're focused on developing next generation combustion engines and hybrid solutions – creating a portfolio of sustainable powertrains that will suit the needs of every market and every infrastructure.

Our compact hybrid-ready engines are highly efficient, based on our award-winning modular architecture that adapts easily to a wide range of vehicles. They offer outstanding performance at optimal cost of ownership.

VEP4

Compact, modular high-performance 4-cylinder engine that's hybrid-ready with world-class fuel efficiency.

- Fuel: Petrol, E25 (HP, MP, LP) E30 (HP+), M15
- Hybridization: MHEV 48 V (HP, MP, LP), PHEV 400 V (HP+)
- Cylinders: 4

VED4

A high performance, clean and efficient 4-cylinder diesel that's hybrid-ready and suitable for biofuels.

- Fuel: Diesel, HVO 100
- Hybridization: MHEV 48 V
- Cylinders: 4

GEP3

Lightweight, modular 1.5L engine that's hybrid-ready with excellent low-end torque and drivability.

- Fuel: Petrol, E25, M15
- Hybridization: ICE 12 V, MHEV 48 V, FHEV 400 V, PHEV 400 V
- Cylinders: 3

Product portfolio technical specifications

	VEP4 HP+	VEP4 HP	VEP4 MP
Fuel type	Petrol	Petrol	Petrol
Alternative fuels	E25, M15	E30, M15	E30, M15
Emission standard	Brazil L7, China 6b, Euro 6b, Japan SULEV, TZEV	China 6b, Euro 6d, SULEV30	China 6b, Euro 6d, ULEV70
Hybridisation	PHEV 400 V	MHEV 48 V	MHEV 48 V
Cylinders (#)	4	4	4
Cylinder configuration	Inline	Inline	Inline
Displacement (L)	1.969	1.969	1.969
Bore (mm)	82.0	82.0	82.0
Stroke (mm)	93.2	93.2	93.2
Engine cylinder block material	Aluminium	Aluminium	Aluminium
Cylinder head material	Aluminium	Aluminium	Aluminium
Induction	Supercharged and turbocharged	E-charged and turbocharged	Turbocharged
Compression ratio	10.3:1	9.0:1	10.5:1
Valves (#/cylinder)	4	4	4
Valvetrain	Dual Overhead Cam (DOHC), Variable Valve Timing (VVT)	Dual Overhead Cam (DOHC), Variable Valve Timing (VVT)	Dual Overhead Cam (DOHC), Variable Valve Timing (VVT)
Fuel injection	Direct Injection (DI)	Direct Injection (DI)	Direct Injection (DI)
Ignition sequence	1-3-4-2	1-3-4-2	1-3-4-2
Maximum power (kW @ RPM)	246 @ 5800 – 6000	220 @ 5400 – 5700	184 @ 5400 – 5700
Maximum torque (Nm @ RPM)	430 Nm @ 4500	420 Nm @ 2100 – 4800	350 Nm @ 1800 – 4800
Engine idling speed (RPM)	875 ± 50	750 ± 50	750 ± 50
Maximum engine speed (RPM)	6000	6300	6200

	VEP4 LP	VED4	GEP3
	Petrol	Diesel	Petrol
	E30, M15	HVO 100	E25, M15
	China 6b, Euro 6d	Euro 6d	Brazil L7, China 6b, Euro 6d, Japan SULEV, TZEV
	MHEV 48 V	MHEV 48 V	ICE 12 V, MHEV 48 V, FHEV 400 V, PHEV 400 V
	4	4	3
	Inline	Inline	Inline
	1.969	1.969	1.477
	82.0	82.0	82.0
	93.2	93.2	93.2
	Aluminium	Aluminium	Aluminium
	Aluminium	Aluminium	Aluminium
	Turbocharged	Twin turbocharged	Turbocharged
	12.0:1	15.8:1	10.5:1
	4	4	4
	Dual Overhead Cam (DOHC), Variable Valve Timing (VVT)	Dual Overhead Cam (DOHC)	Dual Overhead Cam (DOHC), Variable Valve Timing (VVT)
	Direct Injection (DI)	i-ART common rail direct injection (CRDI)	Direct Injection (DI)
	1-3-4-2	1-3-4-2	1-3-2
	145 @ 4750 – 5250	173 @ 5000	132 @ 5500
	300 Nm @ 1500 – 4500	480 Nm @ 1750 – 2250	265 Nm @ 1500 – 3000
	750 ± 50	750 ± 50	900 ± 50
	6000	5000	6000

Aurobay at a glance

- World-class powertrain solutions, services and contract manufacturing
- Formed from the merger of Volvo Cars' powertrain business with Geely
- Manufacturing, R&D and sales capabilities
- Focused on developing and producing next-generation combustion engines and hybrid solutions

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