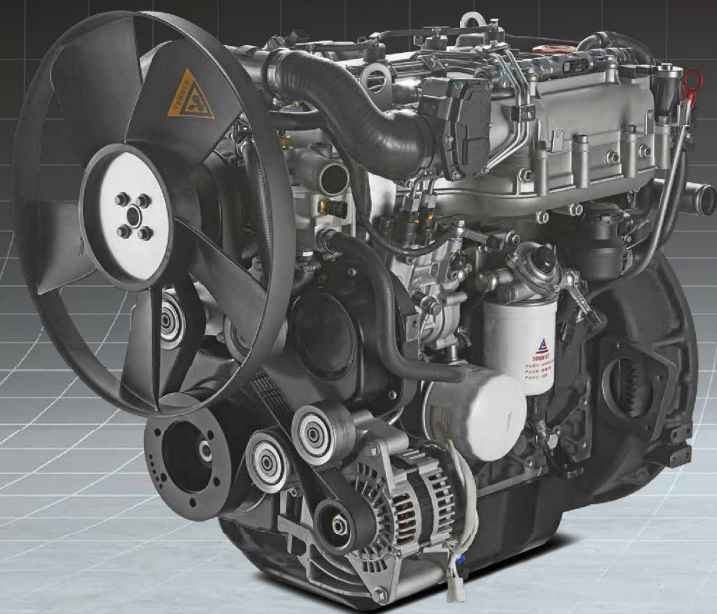


# E SERIES EU V ENGINES



**E SERIES**

## Excellent emission:

A complete set of Bosch off-road fuel system is adopted, and the international famous BASF coating technology is selected for ATS (After-Treatment System), which is fully verified by joint development with Bosch.

Excellent engine raw emission makes the ATS for this series of engines extremely compact. It is suitable for forklift packaging.

## Sufficient power:

The diesel engine family covers power ranges from 37kW to 95.7kW, the maximum torque can reach 430Nm, the torque backup can reach more than 25%, the engine has sufficient power for the application.

## Perfect economy:

BOSCH and XINCHAI carried out multi round engine performance optimization test, and the whole engine map has excellent fuel economy. The minimum specific fuel consumption is less than 215g/kwh. In the common working load, the specific fuel consumption is below 220g/kWh. Other working conditions are about 5 g/kWh less than competitive products.

## High reliability:

Fully validated reliability: the first-class international suppliers [Bosch, Hutchinson, Eaton and Cummins] are selected. The diesel engine and vehicle have passed the several round reliability validations.

**dilution  
ratio**  
**0.44%**

Very low dilution ratio of engine oil, the oil dilution ratio after single regeneration is only 0.44%, much lower than the value of 20% specified in the national standard, the oil change interval of E series diesel engine up to 500h.

**5,000h**

DPF has a long maintenance interval, Based on excellent engine raw emission level and regeneration strategy, the ash cleaning interval up to 5000h.

The engine has been tested for 10000h in total for reliability validation in several round, the reliability has been fully verified. It is worth mentioning that the diesel engine has been tested in Jinan testing center and Bosch Wuxi test bench for 3000h. The diesel engine has excellent reliability, and is rated as Bosch off-road project 'BES' award.

Two kinds of diesel engines are applied in forklifts and complete the summer tests, high altitude tests and winter tests. The diesel engine, the forklift and the after-treatment system have been validated in these extreme operating conditions, and the DPF soot load test is balanced within 90 hours without any regeneration.

	3E22Y651	4E30Y652
Number of Cylinders-Cylinder Diameter x Stroke	3-94*107	4-94*107
Displacement	2,227L	2,970L
Rated Power	44.8kW/2400rpm	55.8kW/2200rpm
Maximum Torque	210N.m/1600-1800rpm	320N.m/1200-1600rpm
Emission Level	EU Stage V	EU Stage V
Technical Route	TC+CR+EGR+DOC+DPF	TC+CR+EGR+DOC+DPF
Scope of Application	1-3.5t Forklift	4-5t Forklift
Transmission Equipped	OKAMURA	OKAMURA