

KENWORTH K100E

With the exciting new-generation Kenworth K100E, a whole new era of heavy duty cab-over excellence begins. The all-Australian K100E is a giant leap forward in COE trucking, offering new levels of aerodynamic efficiency and therefore hitherto undreamed of potential for fuel savings. The longer, wider, more spacious cab is packed with features to add to driver comfort and efficiency and there is a range of options for comfort and improved driving. The new Kenworth K100E is one of the most efficient and highly evolved trucks ever to roll off a production line.



STANDARD EQUIPMENT

ENGINE



Engine

Cummins F300 140-litre 224 kW at 1900 rpm 1356 Nm at 1300 rpm
Six-cylinder in-line, turbocharged, aftercooled.
Spin-on oil filters and fuel filter

Electrical Equipment

12-volt lighting system, 24-volt starting system
Automatic circuit breakers
75-Amp Delco-Remy brushless alternator
4 x Kenworth 12-volt batteries

Cooling System

0.87m² frontal area radiator
Removable top and bottom tanks
Kenworth spin-on water filter

Air Cleaner

Single Donaldson Cyclopac 406mm dry type air cleaner,
frame mounted on right side
Moulded rubber sleeves and stainless steel clamps at all connections

Exhaust System

Single vertical exhaust system with 254mm muffler, stainless steel flex
section for vibration isolation, and wide band seal clamps.

TRANSMISSION



Main Transmission

Fuller RT 1160SA, 9-speed direct, twin counter-shaft

Clutch

Spicer angle spring, 390mm organic, coaxial, dampened
hub clutch assembly
Manual adjusting clutch cover with greasable throwout bearing

Driveline

Spicer T1710 series dampened driveline with needle-bearing
universal joints
Glidecote splined slip-joint

SUSPENSION/STEERING



Front Axle

Rockwell FP941 TW, 54 tonne rated capacity
6-spoke cast hubs

Front Suspension

60 tonne nominal capacity, rolled eye, constant rate leaf springs
Threaded steel pins and bushings

Steering system

Ross HFB70 integral gear, hydraulic power steering

Rear Axle

Rockwell SP40G single reduction, single-speed tandem axle with
pressure lube inter-axle differential
18.1 tonne rated capacity
6-spoke cast hubs
inter-axle differential lockout

Service Brakes

Front: Rockwell TW-cam air brakes, 380mm x 102mm
Rear: Rockwell S-cam air brakes, 420mm x 180mm
Cast brake drums

Parking Brake

Dual axle, spring applied/air released

Rear Axle Suspension

Kenworth TBB, 115 suspension, Tandem rear axle suspension
using two torsion bar springs
200 tonne rated capacity

Tyres & Rims

Bridgestone R290E, 11R22.5, 16 ply rated radial (10 supplied)
Mackay 8.25" x 22.5" demountable tubeless rims (11 supplied)

MAJOR OPTIONS

ENGINES

Engines

Cummins in-line 6 - (224 to 372 kW)
Detroit V6 and V8 - (231 to 354 kW)
Caterpillar in-line 6 - (231 to 316 kW)
All engines are turbocharged and available
in performance or economy ratings.

Engine Equipment

Jacobs engine brake
Cummins "C" Brake
Brakesaver
Horton fan clutch
Air start
Fuel Haul kits
Cruise control

Air Cleaners

Donaldson Donadone two-stage air cleaners

Exhaust System

Dual exhaust system
Independent air intake and exhaust systems

Transmission

Fuller Roadranger, 9- to 15-speed
Spicer Spolet, 7- to 20-speed
Direct or overdrive
Allison Automatic, 5-speed
Auxiliary Transmission

Driveline

Spicer 1810 series
Centre bearing

Front Axle

Rockwell FL941 P 8.2 tonne capacity
Rockwell FG941 P 66 tonne capacity

Front Suspension

54 tonne Constant rate multi-leaf
Twin steer - 11 tonne nominal capacity,
load-sharing. Threaded steel pins and
bushings in springs and load-sharing rocker
beam. Dual Ross HFB70 integral hydraulic
power steering.

Rear Axles

Single or dual drive
Rockwell or Eaton
104 tonne single axle capacity
173 to 29.5 tonne dual axle capacity
Wide range of ratios

Rear Axle Suspension

Kenworth, Hendrickson or Ryleco
11,000 kg single axle capacity
17,300 to 29,500 kg dual axle capacity

Tyres

Premium brands to customer requirements
including low profile steel belted radials

Owners Manual Kenworth

Lingsheng Yao



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House,1980 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1972 **Annual Index**
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a four quadrant or multiple quadrant operation is required in industrial as well as commercial applications these applications require both driving and braking i e motoring and generating capability some of these applications include electric traction systems cranes and lifts cable laying winders and engine test loading systems

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paper proposes a way to govern the rate and route control of a dc motor with the help of a 4 quadrant dc dc chopper the

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the four quadrant chopper block represents a four quadrant controlled chopper for converting a fixed dc input to a variable dc output the block contains two bridge arms each bridge arm each has two switching devices options for the type of

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3 four quadrant operation of dc motor four quadrant operation or mode of any dc motor means that machine operate in four quadrants they are forward braking mode forward motoring mode reverse braking or stop mode and reverse motoring mode a motor operates in two modes motoring and braking a motor drive capable of

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this paper gives a control for three phase brushless dc bldc motor in all four quadrant operation the control system in this paper is capable to detect and identify the rotor position by sensor signal 1 in this paper behaviour of bldc motor is studied in all four quadrant operations through simulation model

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aug 8 2020 1 answer sorted by 1 you can think of the first quadrant operation as being a buck converter down from the supply to the motor you can think of the second quadrant as being a boost converter from the motor s generated low voltage up to the supply voltage

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put simply the four quadrants that the controller can work in are 1 motor going clockwise controller applying clockwise drive 2 motor going anti clockwise controller applying anti clockwise drive 3 motor going clockwise controller applying anti clockwise drive 4 motor going anti clockwise controller applying clockwise drive

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four quadrant operation of dc motor means that the machine operates in four quadrants they are forward braking forward motoring reverse motoring and reverse braking a motor operates in two modes motoring and braking

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1 to observe the four quadrant operation of a dc motor 2 to control a motor under torque control 3 to couple the speed control motor and torque controlled motor and observe the effect of a stepped torque 6 2 four quadrant operation of a dc motor the four quadrant operation is performed by giving an alternating reference speed command to

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the control of bldc motor in four quadrants is very crucial in this paper bldc motor is controlled in all the four quadrants without any wastage of power during regenerative braking period power generated is being stored in the chargeable battery

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jan 1 2018 doi org 10 1016 j matpr 2017 11 261 get rights and content this paper proposes a method that designs a simulation model of four quadrant operation of bldc motor drive and to reduce the torque ripples in the developed model the characteristics of speed torque back emf are effectively monitored and analyzed

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four quadrant operation of a pm dc motor 5 1 objective the objective of this activity is to analyze the four quadrant operation of a permanent magnet dc pm dc motor this activity was derived from those developed and distributed by the university of minnesota umn 5 2 review of four quadrant operation