



EVERY™ TON. K SERIES



**NON-CERTIFIED ENGINES
FOR MINING APPLICATIONS**

FOR MINING APPLICATIONS.

K SERIES

Performance.

In mining, the best way to get an advantage is continuous uptime – with Cummins engines. Over the past forty years Cummins K Series engines achieved legendary status for reliability and durability in the toughest mining applications. Today there are Cummins K Series engines in every type of mining equipment from electric-drive and mechanical-drive haul trucks and loaders to excavators and shovels. All backed by a service and support network with a hard-earned reputation for responding to every need, at every hour of every day.

Continuous improvements have kept Cummins K Series engines ahead of the rest in fuel economy, reduced maintenance and life cycle value for the lowest possible operating costs, reduced maintenance and maximum productivity.

Cummins combines decades of proven performance with advanced technology and the superior support network you need to achieve the lowest cost per ton. Every ton.



Ratings

ENGINE MODEL	ADVERTISED HP (KW) @ RPM	PEAK TORQUE LB-FT (N•M) @ RPM	RATING TYPE
K2000E	2000 (1492) @ 1900	5800 (7865) @ 1500	INTERMITTENT
K1800E	1800 (1343) @ 1900	5225 (7085) @ 1500	INTERMITTENT
KTTA50	1800 (1343) @ 2100	5177 (7020) @ 1500	INTERMITTENT
KTA50	1600 (1194) @ 2100	4400 (5966) @ 1500	INTERMITTENT
KTA50	1600 (1194) @ 1900	4640 (6292) @ 1500	INTERMITTENT
K1500E	1450 (1082) @ 1900	4127 (5595) @ 1400	INTERMITTENT
K1500E	1350 (1007) @ 1900	4127 (5595) @ 1400	INTERMITTENT
KTTA38	1350 (1007) @ 2100	3882 (5264) @ 1500	INTERMITTENT
KTTA38	1350 (1007) @ 1900	3766 (5106) @ 1500	INTERMITTENT
K1500E	1260 (940) @ 1800	3767 (5107) @ 1400	CONTINUOUS
KTA38	1200 (895) @ 2100	3450 (4678) @ 1300	INTERMITTENT
KTA38	1200 (895) @ 1900	3485 (4726) @ 1300	INTERMITTENT
KTA38	1050 (783) @ 2100	3415 (4631) @ 1300	INTERMITTENT
KTA38	1050 (783) @ 1900	3415 (4631) @ 1300	INTERMITTENT
KT38	925 (690) @ 2100	3020 (4095) @ 1300	INTERMITTENT
KT38	925 (690) @ 1900	3020 (4095) @ 1300	INTERMITTENT
KTTA19	700 (522) @ 2100	2014 (2731) @ 1400	INTERMITTENT
KTA19	600 (448) @ 2100	1650 (2237) @ 1500	INTERMITTENT
KTA19	525 (392) @ 2100	1650 (2237) @ 1300	INTERMITTENT
KT19	450 (336) @ 2100	1125 (1526) @ 1500	INTERMITTENT

Additional ratings may be available. Check with your Cummins distributor.

Specifications

		K2000E	K50	K1500E	K38	K19
Engine Type	(CYL) VEE 16	VEE 16	VEE 12	VEE 12	INLINE 6	
Displacement	(CU IN)	3,067	3,060	2,300	2,300	1,156
	(LITERS)	50.25	50	38	38	19
ADVERTISED HORSEPOWER	(HP)	2000	1600-1800	1260-1450	925-1350	450-700
	(KW)	1492	1194-1343	940-1082	690-1007	336-522
PEAK TORQUE	(LB-FT)	5800	4640-5225	3767-4360	3020-3485	1125-2014
	(N•M)	7864	6291-7084	5107-5911	4095-4725	1526-2731
BORE AND STROKE		6.25 IN X 6.25 IN (159 MM X 159 MM)				
ASPIRATION		TURBOCHARGED AND CHARGE AIR COOLED				
OIL SYSTEM CAPACITY	(U.S. QT)	236	236	142.4	142.4	80
	(LITERS)	223	223	135	135	76
COOLANT CAPACITY	(U.S. QT)	170	170	125	116	44
	(LITERS)	161	161	118	110	42
LENGTH	(IN)	110	110	90	86.2	62.0
	(MM)	2794	2794	2281	2189	1574
WIDTH	(IN)	56	56	54	54.6	31.7-38.4
	(MM)	1422	1422	1362	1387	805-975
HEIGHT	(IN)	74.1	74.1	69	64.2	54.0-64.5
	(MM)	1882	1882	1751	1631	1371-1638
WET WEIGHT	(LB)	11,670	11,670	9,480	9,250	6,000-6,170
	(KG)	5,293	5,293	4,300	4,196	2,722-2,799

Features And Benefits.

- Fillet-hardened crankshaft has a smaller bolt circle and rolled threads for strength and durability.
- Mechanical fuel system uses the time-tested and proven PT fuel system for high performance and ease of maintenance.
- Available CENTRY™ electronic engine management delivers 30% better engine response and programmable features to optimize engine performance in response to job requirements and environmental conditions.
- Turbochargers from Cummins Turbo Technologies are custom-built for K Series engines and are available in single-stage or two-stage configurations to meet any application's requirement.
- High-performance mechanical PT injectors are built to handle high pressures for optimum combustion.
- Available jacket-water or dual-loop aftercooling ensures that users get full power output at altitudes up to 12,000 feet (3,658 meters).
- Prelub system distributes and pressurizes oil in the engine before cranking can occur, and is proven to greatly extend life-to-rebuild.
- Gallery-cooled pistons reduce piston crown temperatures by as much as 100°F (38°C) for enhanced durability, reduced piston ring wear and 30% longer cylinder life.
- Longer service intervals are achieved with optional Centriguard™ centrifuge filters, the CENTINEL™ continuous oil replacement system and the self-cleaning ELIMINATOR™ full-flow/bypass filtration system on select K Series engines.
- Advanced engine monitoring is an optional feature that allows you to view performance on any electronically controlled engine through mine dispatch systems, cylinder by cylinder, while your equipment is working.



A Name You Can Trust. Every Time. Everywhere.

Cummins possesses a vast amount of knowledge in mine operations. We are ready to assist you with experienced and dedicated local mining business leaders and high-horsepower-engine technical support – fully backed by the strength of Cummins industry-leading technology and total support of top management. When you buy a piece of equipment with a Cummins K Series engine, you get more than just an engine. You get:

- Full life cycle support, with proven engineering expertise from engine commissioning through final overhaul.
- Immediate parts and service availability.
- An established worldwide network with over 500 distributor facilities in nearly 190 countries, dedicated and empowered to service your needs. Every hour, every day.
- The best warranty in the business, which includes full coverage for unlimited hours during the first year, extending through two years or 2,000 hours (whichever comes first). The base warranty also includes 3-year/10,000-hour standard protection on major components. Extended warranties are available as well.

With the strength of Cummins at your side, your mine can process more material with increased uptime and greater productivity at a low cost per ton. Most important, our worldwide presence and comprehensive support make Cummins a proven, committed mining partner you can always depend on.

For more about the proven advantages of Cummins K Series engines and all our advanced technology for mining applications, see your local Cummins distributor.



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