



# Ready For More. Every™ Ton.

K Series Engines For Mining Applications.



# K Series.

## More Uptime.

In mining, the best way to get an advantage is continuous uptime – with Cummins engines. Over the past 40 years, Cummins K Series engines have 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 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
K2000E	2000 (1492) @ 1900	5800 (7865) @ 1500
K1800E	1800 (1343) @ 1900	5225 (7085) @ 1500
KTTA50	1800 (1343) @ 2100	5177 (7020) @ 1500
KTA50	1600 (1194) @ 2100	4400 (5966) @ 1500
KTA50	1600 (1194) @ 2050	4400 (5966) @ 1500
KTA50	1600 (1194) @ 1900	4640 (6292) @ 1500
K1500E	1450 (1081) @ 1900	4127 (5595) @ 1400
K1500E	1350 (1007) @ 1900	4127 (5595) @ 1400
KTTA38	1350 (1007) @ 2100	3882 (5264) @ 1500
KTTA38	1350 (1007) @ 1900	3766 (5106) @ 1500
K1500E	1260 (940) @ 1800	3767 (5107) @ 1400
KTA38	1200 (895) @ 2100	3450 (4678) @ 1300
KTA38	1200 (895) @ 1900	3485 (4726) @ 1300
KTA38	1050 (783) @ 2100	3415 (4631) @ 1300
KTA38	1050 (783) @ 1900	3415 (4631) @ 1300
KT38	925 (690) @ 2100	3020 (4095) @ 1300
KT38	925 (690) @ 1900	3020 (4095) @ 1300
KTTA19	700 (522) @ 2100	2014 (2731) @ 1400
KTA19	600 (448) @ 2100	1650 (2237) @ 1500
KTA19	525 (392) @ 2100	1650 (2237) @ 1300
KT19	450 (336) @ 2100	1125 (1526) @ 1500

All K Series ratings are available for use in nonregulated regions where engines are not subject to certification. Additional ratings may be available.

## Specifications

		K2000E	K50	K1500E	K38	K19
Engine Type	(CYL) VEE 16	VEE 16	VEE 12	VEE 12	INLINE 6	
Displacement	(CU IN)	3,067	2,300	2,300	1,156	
	(LITERS)	50.3	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
	(MM)	1422	1422	1362	1387	805
Height	(IN)	74.1	74.1	69	64.2	54.0
	(MM)	1882	1882	1751	1631	1371
Wet Weight	(LB)	11,670	11,670	9,480	9,250	6,000
	(KG)	5,293	5,293	4,300	4,196	2,722

## More Robust Features.

- 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 percent 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)
- The Prelub system pressurizes the entire lube system before cranking, reducing friction and extending life-to-overhaul
- Gallery-cooled pistons reduce piston crown temperatures by as much as 100°F (38°C) for enhanced durability, reduced piston ring wear and 30 percent 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
- CENSE™ 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



## More Confidence.

K Series engines are backed by the best warranty in the industry, with full coverage for unlimited hours the first year, extending through 2 years or 2,000 hours, whichever comes first. Major-components coverage continues through the third year or 10,000 hours. Extended protection plans are available.

## More Support. Every Customer.

Cummins K Series engines are backed by the world's largest and most capable parts and service network, with over 600 authorized distributors around the globe. For more information, call 1-800-DIESELS™ (1-800-343-7357) or go to [cumminsengines.com](http://cumminsengines.com).





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