
Mahindra
THE PERFECT FUSION OF
POWER AND FUEL EFFICIENCY.
MAHINDRA ENGINES.

MADE BY A PROCESS THAT WON THE DEMING PRIZE.

At the heart of each Mahindra engine is technology you can count on. In fact everything that goes into making a Mahindra engine is world class. But it's not just us telling you. The Japanese Union of Scientists and Engineers will tell you the same.

Our entire process, from manufacturing facilities and technology to sales and service received the highest rating for Total Quality Management and won the Deming Prize - one of the most coveted awards in the world. So when you buy a Mahindra engine you know you have world class technology working for you.

J BAR ASSEMBLY - THE PROCESS BEHIND THE PERFORMANCE.

One of the most important stages in the manufacture of a Mahindra engine is the J Bar assembly. It's a state-of-the-art process that increases the speed of assembly while allowing the personnel to keep a tight check on component quality. This process plays a critical role in turning out engines that rate very highly on performance and dependability.

Our entire manufacturing process is guided by the Poka Yoke concept; to achieve zero defects in the production line. A robust design of the manufacturing systems and processes coupled with education and awareness about possible errors helps us achieve a high build standard in our engines.

- 100 % traceability by automatic data logging and retrieval for each engine
- Advance cold testing facility to check engine performance without firing each engine
- Audio visual display at each work station
- Climate controlled & dust free assembly facility
- Flexibility to produce model mix

COMPONENT MACHINING – BECAUSE CRITICAL COMPONENTS ARE BEST MADE IN-HOUSE.

We have our very own facility for the machining of all critical components. This helps us achieve and maintain very high standards in the fit and finish of all critical components.

SO WHAT DO YOU WANT AN ENGINE FOR?

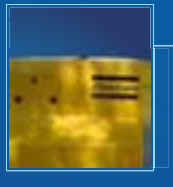
Whether it's a DI engine or the state-of-the-art common rail diesel engine (CRDe), our product development division can adapt and create to meet specific requirements. The following are just a few examples to show what makes a Mahindra engine ideal for these applications.

CONSTRUCTION & MINING: The rugged build of a Mahindra engine allows it to withstand long and tough working hours effortlessly. It can perform in the most demanding ambient conditions - from deserts and high altitude locations to sub-zero temperature zones. Every Mahindra engine meets stringent emission norms, has low specific fuel consumption and its compact design allows you to tuck it away into a corner.

GENERATORS: Low on noise and vibrations, our engines are most preferred for roof top installations. They are low on maintenance and deliver superior power in all load conditions.

INDUSTRIAL & MATERIAL HANDLING: Preferred by companies across the globe for their compact design and superior performance. Our engines are a clear choice when it comes to working round the clock and delivering high quality output year after year.

AGRICULTURE: Low maintenance cost, excellent fuel savings combined with world class performance makes our engines the choice of the agriculture community, across the globe.



DIRECT INJECTION –
THE NO COMPROMISE ENGINE TECHNOLOGY.

There are many reasons for Mahindra being no.1 both in the UV and the tractor markets of India. Probably the most significant is Mahindra's Direct Injection engine technology. Which satisfies customers who are as conscious about fuel economy as they are about power.

DI engines by design are much more fuel efficient than IDI engines. The best thing is that they deliver as much on the power front too. We have spent over two decades refining these engines and now have a patented engine technology that is generations ahead in DI technology.

THE MAHINDRA ENGINE ADVANTAGE:

- Wet replaceable liners for extended engine life
- Easily serviceable and low on maintenance cost
- Structural cylinder block design to easily withstand heavy duty operations
- No oil top up required between two services
- Meets US EPA Tier II emission norms; soon to be Tier III & IV compliant

PERFORMANCE THAT'S TRUSTED ACROSS THE WORLD.

We're part of the US$ 3 bn Mahindra group, which has a presence across the Indian subcontinent and the continents of the world. In tractors, utility vehicles, telecom software, holidays, steel, infrastructure development and more.

However, to call it a presence is an understatement.

Since the beginning, 60 years ago, Mahindra has been a leader. Back then it was the first in the country to make utility vehicles, today it is the country's no.1 UV maker and is fast becoming a brand to reckon with across the world. With brands like Scorpio, Bolero and Pik-Up.

Mahindra is ranked no.4 in the compact tractor segment in the US and continues to be no.1 in tractors in the world's largest tractor market – India. This is a position it has held not for one or two but for more than 23 years. In the holiday industry, Club Mahindra has a joint venture with RCI Resorts & Condominiums, and is the most preferred in India. Tech Mahindra (formerly Mahindra British Telecom) is one of the most respected names in the global telecom software industry. Even in its other businesses, you could read similar stories.

Now Mahindra has a joint venture with Renault to manufacture the Logan car in India. And a collaboration with the International Truck & Engine company for the HCV market. It's a move that has far-reaching implications for the entire auto industry. For Mahindra, however, it is another inspired step.

SPECIFICATIONS

Type of engines	Type	Engine model	No. of cylinders	NA / TC	Bore mm	Stroke mm	Capacity ltrs	Speed rpm	Max power hp	SFC gm/hp-hr	Max torque Nm
BS III engines	595DI	MDI 3000 TC	4	TC	88.9	101.6	2.523	2100	52.5	160	205
	575DI	MDI 2500	4	NA	88.9	101.6	2.523	2300	44.5	170	159
	475DI	MDI 2385	4	NA	88.9	101.6	2.523	2300	40.5	175	142
	275TU	MDI 1895B	3	NA	88.9	101.6	1.892	2600	39	180	125
	275DI	MDI 1895	3	NA	88.9	101.6	1.892	2300	35	166	115
	255 DI	MDI 1365	2	NA	88.9	110	1.285	2400	24	170	90
	265DI	MDI 1785	3	NA	88.9	101.6	1.892	2300	31	170	105
	605 Arjun	NE 457	4	NA	94	115	3.192	2100	57	168	213
	405 Arjun	NE 340	3	NA	94	115	2.394	2000	40	168	157
	445 Arjun	NE 342	3	NA	94	115	2.394	2100	42	168	157
	455 DI	NE 344	3	NA	94	115	2.394	2200	44	170	157
	555 Arjun	NE 452	4	NA	94	110	3.054	2100	52	165	195
	235 DI	MACE1735	1	NA	127	137	1.735	1650	23	165	108
Tier II	6000	NE 457R	4	NA	94	115	3.192	2100	56.5	170	210
	5500	NE 452R	4	NA	94	110	3.052	2100	52	170	196
	6500/6520	NE 462R	4	NA	96	122	3.532	2200	62	170	235
	7010 TYM	NE 472 R	4	TC	94	115	3.192	2500	72	165	245
	4500	NE 342 R	4	NA	94	115	3.192	2100	42	175	157
	C35	MDI 1895 E	3	NA	88.9	101.6	1.895	2300	35	175	115
	C27	MDI 1895 COM	3	NA	88.9	101.6	1.895	2100	27	165	110
Genset (constant speed) 1500rpm CPCB-India	7520	NE 457R	4	TC	94	115	3.192	2300	72	170	275
	2185GM	MDI 1365 G15	2	N A	88.9	110	1.366	1500	18	167	-
	3255GM	MDI 1895 G15	3	N A	88.9	101.6	1.892	1500	25	166	-
	3305GM	MDI 2045 G15	3	N A	88.9	110	2.049	1500	30	164	-
	4335GM	MDI 2500 G15	4	N A	88.9	101.6	2.523	1500	33	162	-
	4375GM	MDI 2700 G15	4	N A	88.9	110	2.732	1500	37	162	-
	4445GM	NE 457R G15	4	N A	94	115	3.192	1500	44	163	-
	4575GM	NE 457RT G15	4	TC	94	115	3.192	1500	57	155	-
Genset (constant speed) 1800rpm	2205 G-18	MDI 1365 G18	2	N A	88.9	110	1.366	1800	20	167	-
	3305 G-18	MDI 1895 G18	3	N A	88.9	101.6	1.892	1800	30	165	-
	3335 G-18	MDI 2045 G18	3	N A	88.9	110	2.049	1800	33	165	-
	4425 G-18	MDI 2700 G18	4	N A	88.9	110	2.730	1800	42	165	-
	4505G-18	NE 457R G18	4	N A	94	115	3.192	1800	50	160	-
	4665G-18	NE 457RT G18	4	TC	94	115	3.192	1800	66	158	-

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