

HTC POWER

HTC DIESEL ENGINES PVT. LTD.

Off. Beaumon Chambers, 27/38, Nagindas Master Road, Mumbai - 400 025, INDIA.
Tel.: (91-22) 2265 3892 | 2265 2188 • Fax: (91-22) 2265 0548
E-mail: sales@htcgroupindia.com • Web-site: www.htcgroupindia.com

HTC POWER

HIGH POWER



Engines you can rely upon

HTC POWER

CUSTOMER DRIVEN

Always Were Always Will

HTC POWER

Established in 1941, HTC Group ventured into imports in 1946. A variety of engineering goods like machine tools, diesel engines, diesel fuel injection equipment, automobile spares, diesel engine spares, various types of machineries and other equipment were imported from well-known manufacturers in USA, UK, Germany, Denmark, Holland, Italy and Japan.

We specialised in the import of diesel engines from Japan (Fuji Precision Machinery Co. Ltd. and Yokohama Shipyard & Engine Co. Ltd, a Mitsubishi organisation) under our own trademark 'HTC'.

In 1960 we entered into a technical collaboration for manufacturing horizontal type diesel engines with the Fuji Group and since then HTC has evolved, marking its presence and rising to occupy an enviable position in the market. The diesel engine has continued as our core business ever since, our key tool in the rationalization and modernization of agriculture, construction, fishing and industry. We have brought the nation, ever more energy-efficient and economic engines. Our goal is to outperform the competition and offer more customer satisfaction by providing the machines that use energy with the utmost efficiency and value. Every engine is designed to be efficient and more durable than competition.

Whatever the sphere of operation we are committed to developing and manufacturing quality products and services with a sense of responsibility to the environment, needs of society and commitment to the local markets. Understanding customer needs, insight into local customs and culture and high levels of service have helped us gain a competitive edge.

For decades HTC has been going to extremes to ensure its engines are the very best for Water Pumps, Construction, Road equipments, Sprinklers, Sugarcane crushers and Coffee pulpers because we know that our product reliability will earn your trust.

57 years of built-in expertise dedication, passion and innovative engineering helps us turn out sturdy products which give great reliability, dependable performance and outstanding durability making an HTC worthwhile investing on.

We understand that it's not just significant but imperative to update and improvise technologically. That's precisely why we have constant product revisions and upgradations so that customer satisfaction moves on to customer delight which in turn has helped HTC emerge as a force to reckon with.

Big power
from a
small
package

Fuel Efficiency

Low Maintenance

Sturdy Construction

Portable

AGRICULTURE

HTC POWER



**HTC Vertical 4-Stroke
Cycle Water Cooled Diesel Engines**

Worry Free Performance on Command

In the agricultural sector the engines used for water pumps are exposed to continuous heat and extreme temperature conditions. H.T.C Pumpsets deliver an unmatched performance in terms of fuel efficiency, low maintenance costs and sturdy construction. The HTC Pumpsets comprise of a diesel engine as a prime mover, a centrifugal pump, a cast iron common base plate and flexible coupling. Besides the pumpsets in standard versions customised solutions can be provided based on the customer's requirements.

Special Features :

- Top quality, high-speed diesel engine coupled with efficient and reliable pump
- Low fuel consumption
- Offered on Trolley or Skid
- Compact, easy to start. Just a few strokes of the handle ensure the functioning of the pumpset.
- Most suitable for irrigation on a small scale and lift irrigation
- Economical in running and maintenance and known for smooth and reliable working
- Spares are readily available; thereby the pumpset need not remain idle
- Optimum performance at different loads and duty points as given in the output table
- Pumpset fitted on Trolley is portable



HTC
is your answer.

Designed for
easy operation
and simple
maintenance

Easy start

Reliable

Strong and sturdy

Outstanding Service



AGRO INDUSTRIES

HTC POWER



**HTC Vertical 4-Stroke
Cycle Air Cooled Diesel Engine**

Performance You Can Count On

The strong and sturdy construction of HTC AGRO ENGINES used for threshers as well as farm engines guarantees it's long life and ensures matchless performance. We test our engines relentlessly for output, fuel consumption and endurance at every stage of manufacturing to make them reliable and outstanding in service. Besides what makes them unbeatable is the prompt, careful and efficient after-sales-service.

HTC Agro series of engines outperforms other engines in it's class. It is one of the strongest, reliable and durable engines built.



Peace Of Mind
Zero Headache

High Performance

Durable & Reliable

Less Vibration

Sturdy Construction

CONSTRUCTION

HTC POWER



**HTC Vertical 4-Stroke
Cycle Air Cooled Diesel Engines**

**Superior Power, Superior Efficiency,
User Friendly**

The world of construction requires labour diminution and time saving techniques, HTC designs engines to meet precisely these challenges as well as different demands from the construction equipment manufacturer and their customers. Engines required in the construction sector have to withstand the dust and heat and require non-stop performance as well. Strong and sturdily constructed H.T.C engines guarantee long life and ensure matchless performance. The rigorous tests they undergo for output, fuel consumption and endurance at every stage of manufacturing make them consistently reliable and outstanding in performance. HTC engines have surpassed customer expectations in terms of Service, Fuel economy, Performance and Durability. Success has not happened by chance. It is because of the passion and commitment to solid quality that HTC continues to dominate competition.



Productive
work out of
every drop
of fuel

Unmatched Performance

After Sales Service

Durability

Reliable

ROAD EQUIPMENTS

HTC POWER



**HTC Vertical 4-Stroke
Cycle Air Cooled Diesel Engines**



Value for Money, Solid

HTC engines created out of passion to deliver performance without compromising is synonymous with manufacturers of construction dumpers, asphalt mixers, bitumen sprayers etc. The durability, reliability, versatility, innovation, user friendly and greater cost-effective operation which come from these engines is highly recognized.

We continue that tradition in the Road Equipment Series by designing engines to get the maximum amount of productive work out of every drop of fuel used. In this age when all other companies are trying to re-create and re-market themselves as quality conscious, we at HTC are already comfortable with our attitude towards quality and innovation. Always have and Always will.



Face the
rough
weather with
ease



More Pulling Power

Affordable Fuel Economy

Tremendous Stability

Fault Free Performance

MARINE INDUSTRIES

HTC POWER



**HTC Vertical 4-Stroke Cycle
Water Cooled Marine Diesel Engines**

Tougher, Great Efficiency, No Compromises

Marine applications demand engines that are built to survive any unpredictable circumstances. The weather conditions demand engines that can give water vehicles the much-needed stability, tremendous load bearing capacity and a fault-free performance, be it the local ferries, trawlers, fishing boats or emergency fire fighting on sophisticated navigation systems. With our extensive nation-wide setup one can face the rough weather with ease.

MARINE ENGINES are available with or without Reduction Gear Box with forward, reverse and neutral operations. A standard Marine Engine is provided with variable speed control (Ratchet or cable type), Heavy Duty Flywheel, driving pulley for cooling water pump, Lub oil Pressure gauge, oil bath air cleaner, triangular flange on flywheel for direct coupling of Propeller Shaft and 8" long Extension Shaft for Camshaft for easy starting.

Complete Stern Gear Assembly, M.S. Channel Fabricated base plate, cooling water pump with Pulley, V Belt and Bilge Pump with necessary hoses can be supplied specific demand.



AGRICULTURE

PUMP TYPE	HEAD RANGE (Meter)	DISCHARGE (Lit per Min)	Pump Size (MM)	Rated Speed (RPM)	Engine Model	Rated BHP as per IS 11170	S.F.C. (gms per kw hr)	Lubricating oil Sump capacity (Lit)	Net Wt. of pump set (kg.)	Gross Wt. of pump set (kg.)	Overall Packing Dimensions (cms)
NDCV - 3+A	7 to 10.5	1170 - 810	80 X 65	1500	HTCWP - 3.5(TRB)	3.5	251	1.25	120	190	90 x 48 x 79
NDCV - 2+B	13.5 to 17	930 - 720	65 X 50	2050	HTCWP - 4.5(TRB)	4.5	275	1.25	120	190	90 x 48 x 79
NDCV - 3+C	13 to 16	1140 - 900	80 X 65	2200	HTCWP - 5(TRB)	5	245	1.25	120	190	90 x 48 x 79
TDCV 3+	12 to 18	600 - 1320	80 X 65	1500	VRS - 5(TRB)	5	251	2.85	190	290	107 x 62 x 100
TDCV 3	11 to 22	540 - 1680	80 X 80	1500	VRS - 5(TRB)	5	251	2.85	190	290	107 x 62 x 100
TDCS 3+	12 to 18	600 - 1380	80 X 65	1500	VRS - 5(TRB)	5	251	2.85	190	290	107 x 62 x 100
TDCV 3+	12 to 18	600 - 1380	80 X 65	1500	CMS - 6.5(TRB)	6.5	251	2.85	190	290	107 x 62 x 100
TDCV 3	11 to 22	540 - 1680	80 X 80	1500	CMS - 6.5(TRB)	6.5	251	2.85	190	290	107 x 62 x 100
TDCV 4	6 to 14	480 - 1800	100 X 100	1500	CMS - 6.5(TRB)	6.5	251	2.85	190	290	107 x 62 x 100
TDCV 4	6 to 14	480 - 1800	100 X 100	1800	SFS - 8(TRB)	8	251	2.85	190	290	107 x 62 x 100
TDCS 3+	12 to 18	600 - 1380	80 X 65	1800	SFS - 8(TRB)	8	251	2.85	190	290	107 x 62 x 100
TDCS 4	6 to 14	1020 - 2280	100 X 100	1800	SFS - 8(TRB)	8	251	2.85	190	290	107 x 62 x 100

GENERAL / AGRO INDUSTRIES (AIR COOLED)

MODELS	HTCAP-3.5	AVC-6/7	AVF-8/9	AMS-10/11	AVC-12/14	AVF-16/18	AMS-20/22
No. of Cylinders	1	1	1	1	1	2	2
BHP	3.5	6 / 7	8 / 9	10 / 11	12 / 14	16 / 18	20 / 22
KW	2.6	4.4 / 5.2	5.9 / 6.6	7.4 / 8.1	8.8 / 10.3	11.8 / 13.2	14.7 / 16.2
RPM Crankshaft	1500	1500/1800	1500/1800	1500/1800	1500/1800	1500/1800	1500/1800
RPM Camshaft	750	750/900	750/900	750/900	750/900	750/900	750/900
BORE - mm	85	87.5	95	102	87.5	95	102
STROKE - mm	80	110	110	116	110	110	116
Torque at Crankshaft -Kgm	1.67	2.86/2.78	3.82/3.58	4.77/4.38	5.72/5.57	7.63/7.16	9.54/8.76
Torque at Camshaft -Kgm	3.34	5.72/5.57	7.63/7.16	9.54/8.76	11.45/11.14	15.26/14.33	19.08/17.51
Compression Ratio	16.5:1	17:1	17:1	17:1	17:1	17:1	17:1
Injection Timing - BTDC	27° - 29°	27° - 29°	27° - 29°	27° - 29°	27° - 29°	27° - 29°	27° - 29°
Injection Pressure Kg/cm2	200	200	200	200	200	200	200
Spec. fuel consumption g/bhph	185	185	200	200	200	200	200
Lub. Oil consumption g/bhph	1.75	1.75	1.75	1.75	1.75	1.75	1.75
Lub. Oil sump capacity -Ltrs.	1.9	2.85/3.4	3.4	3.4	6.8	6.8	6.8
Fuel Tank Capacity Ltrs.	3.5	6.5/11	11	11	11	11	11
Weight Nett (Dry) -Kg.	80	155/170	190	190	255	290	290
Weight Gross -Kg.	120	225/240	260	260	325	360	365
Packing case size -mm	510x457x610	686x660x965	686x660x965	686x660x965	840x660x965	840x660x965	990x810x965
Volume M3	0.14	0.44	0.44	0.44	0.535	0.535	0.77

CONSTRUCTION

TECHNICAL DATA	NAVC - 6/7	NAVF - 8/9	NAMS - 10/11	NAVC - 12/14	NAVF - 16/18	NAMS - 20/22/25
No. of Cylinders	1	1	1	2	2	2
BHP	6 / 7	8 / 9	10 / 11	12 / 14	16 / 18	20 / 22 / 25
KW	4.4 / 5.2	5.9 / 6.6	7.4 / 8.1	8.8 / 10.3	11.8 / 13.2	14.7 / 16.2 / 18.4
RPM Crankshaft	1500/1800	1500/1800	1500/1800	1500/1800	1500/1800	1500/1800/2000
RPM Camshaft	750/900	750/900	750/900	750/900	750/900	750/900/1000
BORE - mm	87.5	95	102	87.5	95	102
STROKE - mm	110	110	116	110	110	116
Torque at Crankshaft -Kgm	2.86/2.78	3.82/3.58	4.77/4.38	5.72/5.57	7.63/7.16	9.54/8.76/8.95
Torque at Camshaft -Kgm	5.72/5.57	7.63/7.16	9.54/8.76	11.45/11.14	15.26/14.33	19.08/17.51/17.90
Compression Ratio	17:1	17:1	17:1	17:1	17:1	17:1
Injection Timing - BTDC	27° - 29°	27° - 29°	27° - 29°	27° - 29°	27° - 29°	27° - 29°
Injection Pressure Kg/cm2	200	200	200	200	200	200
Spec. fuel consumption g/bhph	185	200	200	200	200	200
Lub. Oil consumption g/bhph	1.75	1.75	1.75	1.75	1.75	1.75
Lub. Oil sump capacity -Ltrs.	2.85/3.4	3.4	3.4	6.8	6.8	6.8
Fuel Tank Capacity Ltrs.	6.5/11	11	11	11	11	11
Weight Nett (Dry) -Kg.	155/170	190	190	255	290	290
Weight Gross -Kg.	225/240	260	260	325	360	365
Packing case size -mm	840x660x965	840x660x965	840x660x965	990x690x965	990x690x965	990x810x965
Volume M3	0.535	0.535	0.535	0.66	0.66	0.77

MARINE INDUSTRIES

TECHNICAL DATA	SFS - 8 CM	VF-10 CM	MS-12 CM	FISHER 114 CM	VC -16. CM	VF-20 CM	MS-24 CM	FISHER 228 CM
No. of Cylinders	1	1	1	1	2	2	2	2
HP / KW	8/5.9	10/7.4	12/8.8	14/10.3	16/11.8	20/14.7	24/17.6	28/20.6
RPM Crankshaft	1800	1800	1800	1800	1800	1800	1800	1800
RPM Camshaft	900	900	900	900	900	900	900	900
BORE mm	87.5	95	102	114	87.5	95	102	114
STROKE mm	110	110	116	116	110	110	116	116
Torque at Crankshaft -Kgm	3.182	3.97	4.772	5.568	6.36	7.95	9.54	11.136
Torque at Camshaft -Kgm	6.364	7.95	9.545	11.136	12.7	15.90	19.0	22.272
Compression Ratio	17:1	17:1	17:1	17:1	17:1	17:1	17:1	17:1
Injection Timing -BTDC	27°-30°	27°-30°	27°-30°	27°-30°	27°-30°	27°-30°	27°-30°	27°-30°
Injection Pressure Kg/cm2	200	200	200	200	200	200	200	200
Spec. fuel consu mption g/bhph	185	190	190	200	200	200	200	200
Lub. Oil consumption g/bhph	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
Lub. Oil sump capacity - Ltrs.	3.4	3.4	3.4	6.8	6.8	6.8	6.8	6.8
Fuel Tank Capacity Ltrs.	11	11	11	11	11	11	11	11
Weight Nett (Dry) - Kg.	180	180	190	190	270	270	290	290
Weight Gross - Kg.	250	250	260	260	345	345	365	365
Packing case size - mm	840x660 x965	840x660 x965	840x660 x965	840x660 x965	990x690 x965	990x690 x965	990x690 x965	990x690 x965
Volume M3	0.535	0.535	0.535	0.535	0.66	0.66	0.66	0.66

GENERAL / AGRO INDUSTRIES (WATER COOLED)

MODELS	HTCWP 3.5/5	VRS-5	CMS-6.5	SFS-7/8	VF-8/10	MS-10/12	FISHER 112/114	VC 114/16	VF 16/20	MS 20/24	FISHER 225/228
No. of Cylinders	1	1	1	1	1	1	1	2	2	2	2
BHP / KW	3.5 / 2.6 / 3.7	5 / 3.7	6.5 / 4.8	7 / 5.2 / 5.9	8 / 5.9 / 7.4	10 / 7.4 / 8.8	12.5 / 9.2 / 10.3	14 / 10.3 / 11.8	16 / 11.8 / 14.7	20 / 14.7 / 17.7	25 / 18.4 / 20.6
RPM Crankshaft	1500/2200	1500	1500	1500/1800	1500/1800	1500/1800	1500/1800	1500/1800	1500/1800	1500/1800	1500/1800
RPM Camshaft	750/1100	750	750	750/900	750/900	750/900	750/900	750/900	750/900	750/900	750/900
BORE mm	76	80	85	87.5	95	102	114	87.5	95	102	114
STROKE mm	76	110	110	110	110	116	116	110	110	116	116
Torque at Crankshaft -Kgm	1.67/1.63	2.385	3.10	3.34/3.18	3.82/3.98	4.77/4.78	5.96/5.57	6.68/6.37	7.63/7.96	9.54/9.55	11.93/11.14
Torque at Camshaft -Kgm	3.34/3.26	4.77	6.20	6.68/6.37	7.63/7.96	9.54/9.55	11.9/11.14	13.36/12.7	15.26/15.92	19.08/19.10	23.85/22.29
Compression Ratio	16.5:1	16.5:1	16.5:1	17:1	17:1	17:1	17:1	17:1	17:1	17:1	17:1
Injection Timing -BTDC	27°-29°	27°-29°	27°-29°	27°-29°	27°-29°	27°-29°	27°-29°	27°-29°	27°-29°	27°-29°	27°-29°
Injection Pressure Kg/cm2	200	200	200	200	200	200	200	200	200	200	200
Spec. fuel consu mption g/bhph	185	185	185	185	190	190	200	200	200	200	200
Lub. Oil consumption g/bhph	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
Lub. Oil sump capacity - Ltrs.	1.5	2.85	2.85	3.4	3.4	3.4	6.8	6.8	6.8	6.8	6.8
Fuel Tank Capacity Ltrs.	3.5	6.5	6.5	11	11	11	11	11	11	11	11
Weight Nett (Dry) -Kg.	80	155	155	165	165	180	180	265	265	285	285
Weight Gross - Kg.	120	225	225	235	235	235	250	335	335	365	365
Packing case size - mm	510X457 x610	686x660 x965	686x660 x965	686x660 x965	686x660 x965	686x660 x965	686x660 x965	840x660 x965	840x660 x965	840x660 x965	840x660 x965
Volume M ³	0.14	0.44	0.44	0.44	0.44	0.44	0.44	0.535	0.535	0.535	0.535