

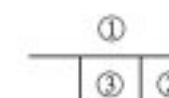
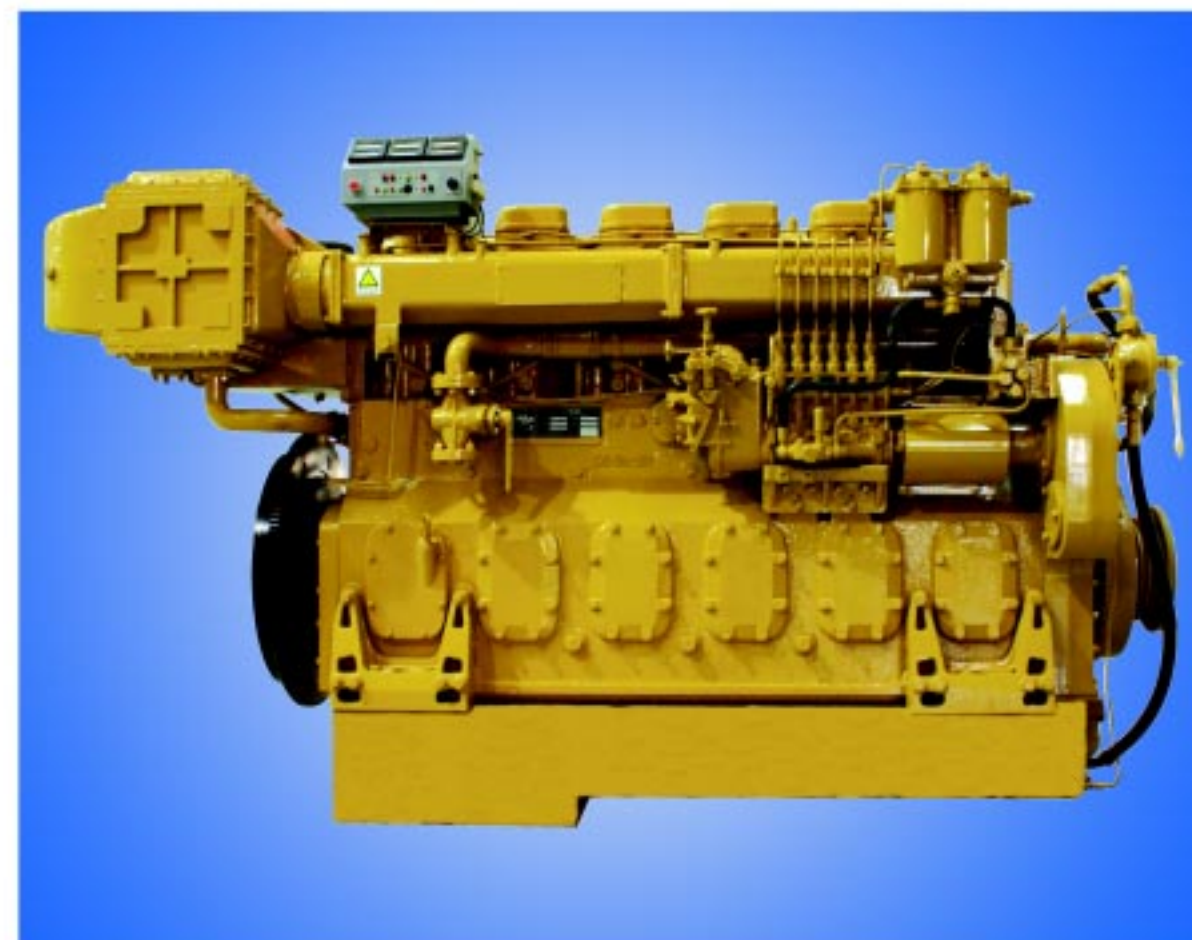
直列型柴油机 In-line diesel engines

直列型柴油机是我公司主要针对船用柴油机市场而开发的一种新型柴油机。设计中吸收了国内外先进的设计思想，采用了先进的技术，其主要特点是经济性能指标先进，体积小，结构紧凑，功率大，操作维修简单，动力性及可靠性好，最大限度地保持了与190系列柴油机的系列化、通用化，在目前国内同类柴油机中居领先水平。

该机除用于渔业捕捞、船舶运输等行业外，可用于陆用发电及工程机械等领域。

In-line diesel engines is a new-typed diesel engine for the power supply of boat. It adopts advanced design idea and introduces advanced technology. Featured with good economic performance, small volumn, compact structure, great power, in-line diesel engine can operate reliably with good dynamic performance. It has maintained the serialization and generalization with series 190 diesel engine. Up to now, it has been on the leading positon at the same kind of diesel engine in China.

The in-line diesel engines is not only used in fishing boat, shipping transport, but also in generating and engineering machinery.



- ① 六缸直列柴油机
6 in-line diesel engines
- ② 八缸直列柴油机
8 in-line diesel engines
- ③ 四缸直列柴油机
4 in-line diesel engines

JDEC

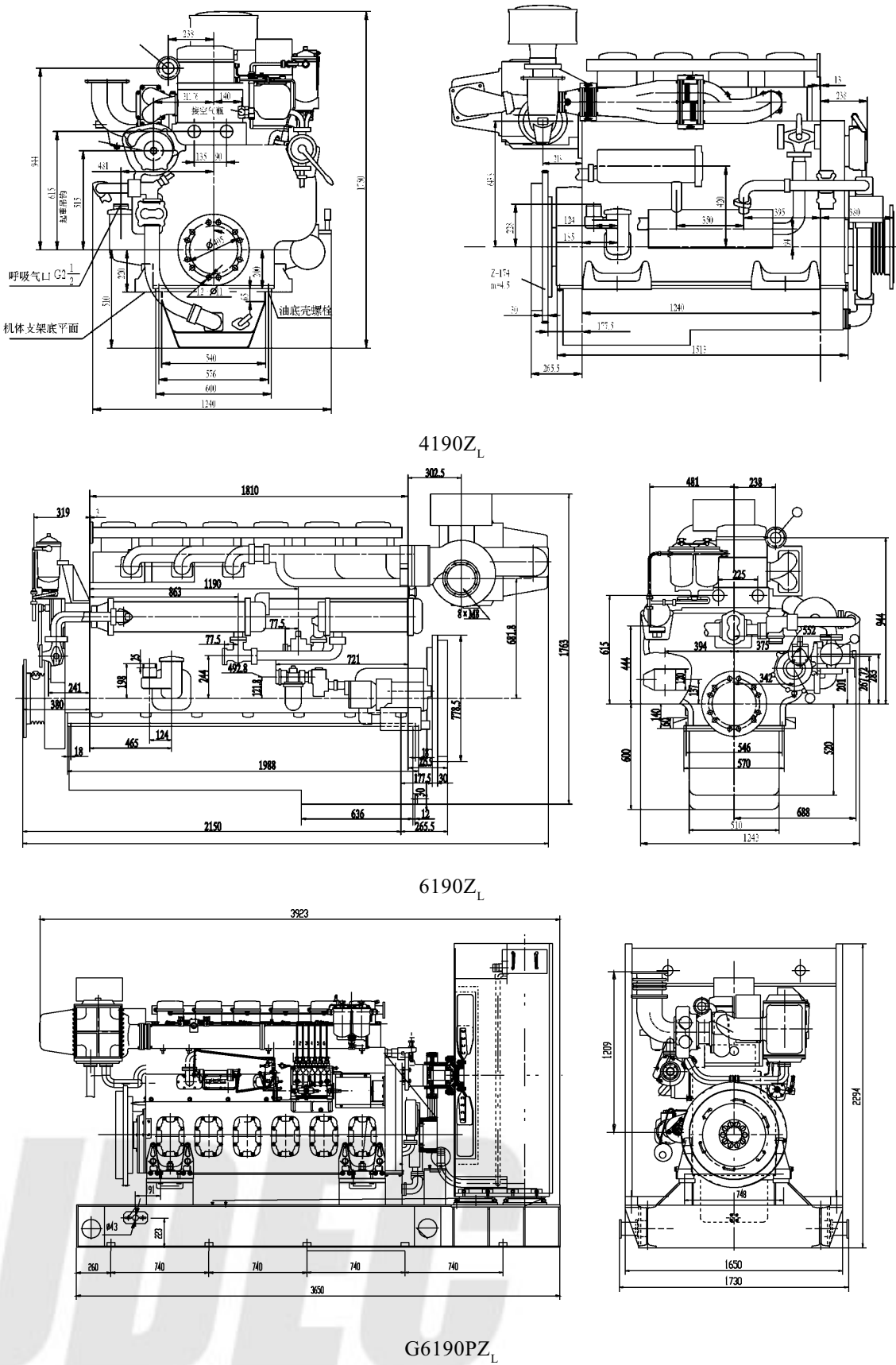
主要技术规格 Main specification

型号 Model	标定功率 Rated power (kW)	标定转速 Rated Speed (r/min)	燃油消耗率 Specific fuel con- sumption(g/kW·h)	机油消耗率 Specific oil con- sumption(g/kW·h)	外形尺寸 Overall dimension L × B × H(mm)	净质量 Net weigh (kg)
4190Z _L	330	1500	≤ 208	≤ 1.5	2290 × 1240 × 1750	3000
4190PZ _L	330	1500	≤ 208	≤ 1.5	3119 × 1370 × 1896	3600
4190PZ _L G-1	270	1200	≤ 208	≤ 1.5	3119 × 1370 × 1896	3600
4190PZ _L -2	220	1000	≤ 208	≤ 1.5	3119 × 1370 × 1896	3600
4190PZ _L G-3	300	1300	≤ 208	≤ 1.5	3119 × 1370 × 1896	3600
6190Z _L	450	1500	≤ 204	≤ 1.5	2990 × 1243 × 1763	3960
6190PZ _L	450	1500	≤ 204	≤ 1.5	3923 × 1730 × 2294	4600
6190Z _L -2	330	1000	≤ 204	≤ 1.5	2990 × 1243 × 1763	3960
6190PZ _L -2	330	1000	≤ 204	≤ 1.5	3923 × 1730 × 2294	4600
G6190Z _L	540	1500	≤ 204	≤ 1.5	2995 × 1295 × 1754	4500
G6190PZ _L	540	1500	≤ 204	≤ 1.5	3923 × 1730 × 2294	5100
8190Z _L	720	1500	≤ 205	≤ 1.2	3175 × 1208 × 2055	5200

主要技术参数 Main technical data

缸数及排列: 4/6/8缸直列	No. and layout of cylinders:4/6/8-cylinder,in-line
型 式: 四冲程、水冷、增压中冷、直喷燃烧室	Type:Four stroke,water cooled,turbocharged and aftercooled, direct injection
气 缸 直 径: 190mm	Bore:190mm
活 塞 行 程: 210mm	Stroke:210mm
活塞总排量: 23.82/35.73/47.63L	Total displacement:23.82/35.73/47.63L
压 缩 比: 14:1/14.5:1	Compression ratio:14:1/14.5:1
转 向: 逆时针 (面向输出端)	Direction of rotation:Counter-clockwise(facing to flywheel)
启 动 方 式: 气马达、电马达	Starting method:Air motor,electric motor
润 滑 方 式: 压力和飞溅润滑	Lubricating method:Pressure and splash lubrication

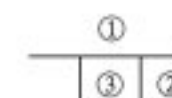
外形尺寸 Overall dimension



Z12V190B 型柴油机 Model Z12V190B diesel engines

Z12V190B 型柴油机是一种用途广泛、性能优良的高速大功率柴油机，该机一九八六年获“国优金质奖”，一九九四年获“全国用户满意产品称号”。该机经过不断改进，吸取现代内燃机领域中卓有成效的科技成果，具备了技术经济指标先进、结构紧凑、起动迅速、易于操作、维修方便、能适应各种恶劣环境条件下作业等特点。

Model Z12V190B diesel engine is a kind of high power, high speed engines, with excellent properties and wide application. In 1986, it was rewarded with the National Gold Prize Medal, and in 1994 it was honoured with National Customer Satisfactory Title. Years of development and constantly adopting latest technology and effective achievements in the internal combustion engine field, all these bring an engine of advanced technical and economic data, compact in structure, easy to start, easy for operation and convenient for maintenance and also widely applicable even under severe.



- ① Z12V190B 型柴油机
Model Z12V190B diesel engines
- ② Z8V190 型柴油机
Model Z8V190 diesel engines
- ③ Z12V190B 型柴油发电机组
Model Z12V190B diesel generating sets

JDEC



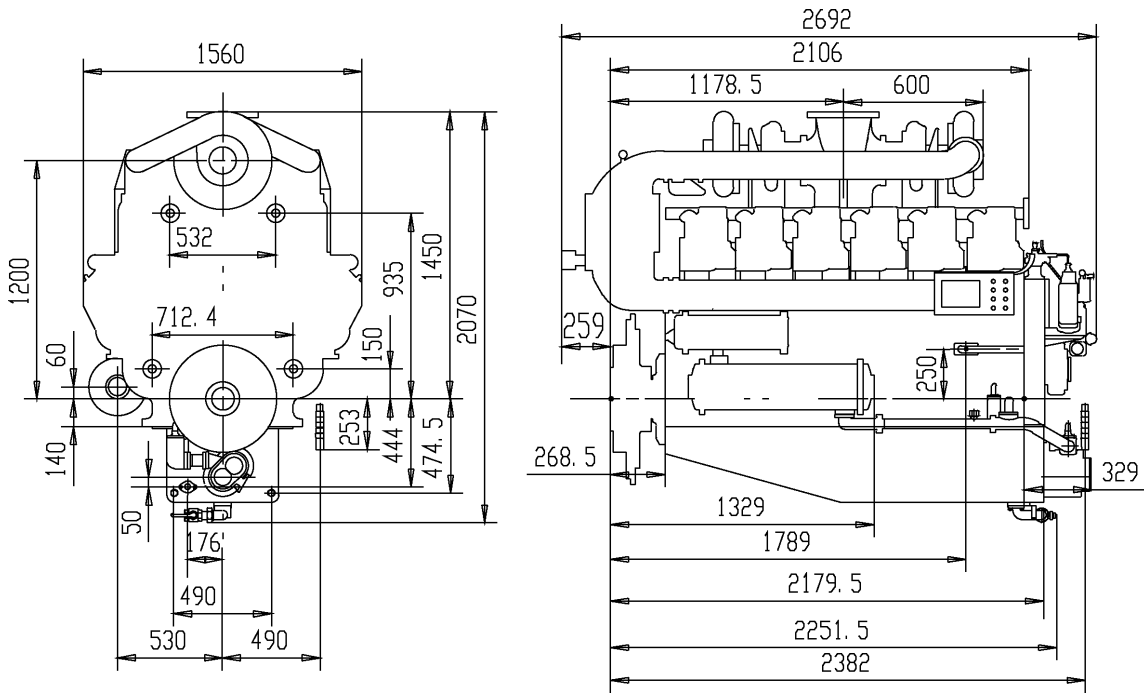
主要技术规格 Main specification

型号 Model	12 小时功率 / 转速 12 hour power(kW)/ Speed(r/min)	持续功率 / 转速 Continuous power (kW)/Speed(r/min)	燃油消耗率 Specific fuel con- sumption(g/kW·h)	机油消耗率 Specific oil con- sumption(g/kW·h)	外形尺寸 Overall dimension L × B × H(mm)	净质量 Net weigh (kg)
Z12V190B	882/1500	794/1500	≤ 209.4	≤ 1.6	2692 × 1560 × 2070	5300
PZ12V190B	882/1500	794/1500	≤ 209.4	≤ 1.6	4301 × 1980 × 2678	7500
Z12V190B-3	820/1300	738/1300	≤ 209.4	≤ 1.6	2692 × 1560 × 2070	5300
PZ12V190B-3	820/1300	738/1300	≤ 209.4	≤ 1.6	4301 × 1980 × 2678	7500
Z12V190B-1	735/1200	662/1200	≤ 209.4	≤ 1.6	2692 × 1560 × 2070	5300
PZ12V190B-1	735/1200	662/1200	≤ 209.4	≤ 1.6	4301 × 1980 × 2678	7500
Z12V190B-2	588/1000	529/1000	≤ 209.4	≤ 1.6	2692 × 1560 × 2070	5300
PZ12V190B-2	588/1000	529/1000	≤ 209.4	≤ 1.6	4301 × 1980 × 2678	7500
Z8V190	588/1500	529/1500	≤ 213.5	≤ 2.7	2112 × 1560 × 2080	4300
PZ8V190	588/1500	529/1500	≤ 213.5	≤ 2.7	3950 × 1980 × 2678	6750
Z8V190-1	471/1200	425/1200	≤ 213.5	≤ 2.7	2112 × 1560 × 2080	4300
PZ8V190-1	471/1200	425/1200	≤ 213.5	≤ 2.7	3950 × 1980 × 2678	6750
Z8V190-2	390/1000	350/1000	≤ 213.5	≤ 2.7	2112 × 1560 × 2080	4300
PZ8V190-2	390/1000	350/1000	≤ 213.5	≤ 2.7	3950 × 1980 × 2678	6750

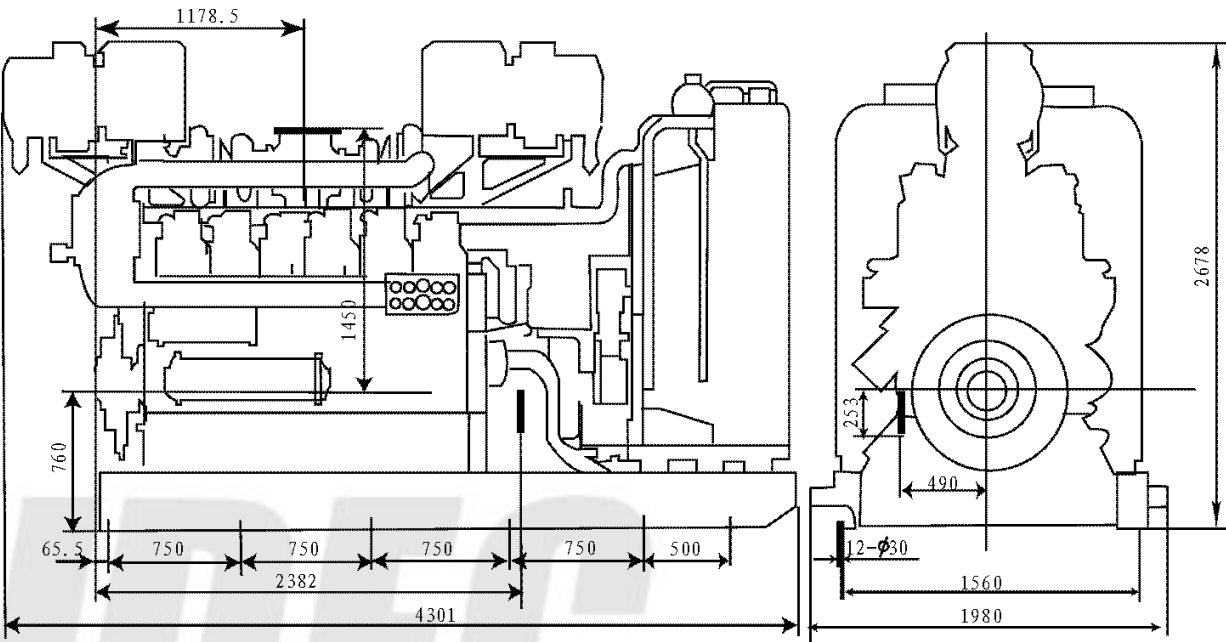
主要技术参数 Main technical data

缸数及排列: 12(8)缸, 60° V 型	No. and layout of cylinders:12(8),60°Vee
型 式: 四冲程、水冷、增压中冷、直喷燃烧室	Type:Four stroke,water cooled,turbocharged and aftercooled, direct injection
气 缸 直 径: 190mm	Bore:190mm
活 塞 行 程: 210mm	Stroke:210mm
活塞总排量: 71.45(47.6)L	Total displacement:71.45(47.6)L
压 缩 比: 14:1	Compression ratio:14:1
转 向: 逆时针 (面向输出端)	Direction of rotation:Counter-clockwise(facing to flywheel)
启 动 方 式: 气马达、电马达	Starting method:Air motor,electric motor
润 滑 方 式: 压力和飞溅润滑	Lubricating method:Pressure and splash lubrication

外形尺寸 Overall dimension



Z12V190B



PZ12V190B

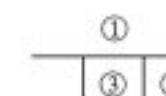
2000 系列柴油机 Series 2000 diesel engines

2000 系列柴油机是在 Z12V190B 型柴油机的基础上，围绕提高柴油机可靠性、经济性和动力性，解决三漏和外观质量，方便维修等方面，进行了较大改进，更好地满足各种石油钻机、发电机组、工程机械对动力的要求。

2000 系列柴油机可配套为变矩器机组、耦合器机组及柴油发电机组，用于驱动钻机或泥浆泵，也可用于配套消防泵、防洪泵等。

On the basis of Z12V190B diesel engine, series 2000 diesel engines has made great improvement in the aspect of reliability, economy, performance, appearance, three leakage as well as maintenance in order to meet the power requirements of generating sets, petroleum drilling rig and engineering machinery.

Series 2000 diesel engines can be equipped as the torque converter sets, coupling sets as well as diesel generating set for drill rig driving or dredging. We can also package it with fire-fighting pump, flood control pump etc.



- ① 2000 系列柴油机•12V
Series 2000 diesel engines•12V
- ② 2000 系列柴油机•8V
Series 2000 diesel engines•8V
- ③ 2000 系列耦合器机组
Series 2000 diesel coupling sets

JDEC

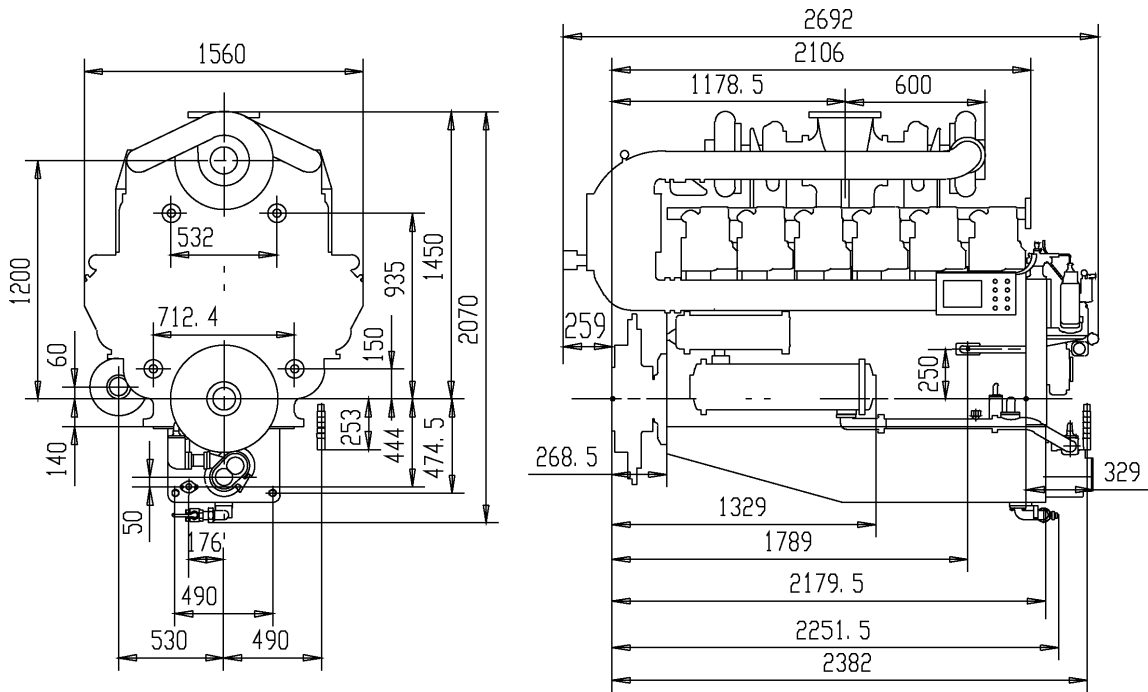
主要技术规格 Main specification

型号 Model	12 小时功率 / 转速 12 hour power(kW)/ Speed(r/min)	持续功率 / 转速 Continuous power (kW)/Speed(r/min)	燃油消耗率 Specific fuel con- sumption(g/kW·h)	机油消耗率 Specific oil con- sumption(g/kW·h)	外形尺寸 Overall dimension L × B × H(mm)	净质量 Net weigh (kg)
G12V190Z _L	900/1500	800/1500	≤ 209.4	≤ 1.6	2692 × 1560 × 2070	5300
G12V190PZ _L	900/1500	800/1500	≤ 209.4	≤ 1.6	3860 × 2040 × 2678	8100
G12V190Z _L -3	810/1300	730/1300	≤ 209.4	≤ 1.6	2692 × 1560 × 2070	5300
G12V190PZ _L -3	810/1300	730/1300	≤ 209.4	≤ 1.6	3860 × 2040 × 2678	8100
G12V190Z _L -1	740/1200	660/1200	≤ 209.4	≤ 1.6	2692 × 1560 × 2070	5300
G12V190PZ _L -1	740/1200	660/1200	≤ 209.4	≤ 1.6	3860 × 2040 × 2678	8100
G12V190Z _L -2	600/1000	540/1000	≤ 209.4	≤ 1.6	2692 × 1560 × 2070	5300
G12V190PZ _L -2	600/1000	540/1000	≤ 209.4	≤ 1.6	3860 × 2040 × 2678	8100
G8V190Z _L	600/1500	540/1500	≤ 213.5	≤ 2.7	1802 × 1560 × 2070	4300
G8V190PZ _L	600/1500	540/1500	≤ 213.5	≤ 2.7	3280 × 2040 × 2678	6750
G8V190Z _L -3	510/1300	460/1300	≤ 213.5	≤ 2.7	1802 × 1560 × 2070	4300
G8V190PZ _L -3	510/1300	460/1300	≤ 213.5	≤ 2.7	3280 × 2040 × 2678	6750
G8V190Z _L -1	470/1200	425/1200	≤ 213.5	≤ 2.7	1802 × 1560 × 2070	4300
G8V190PZ _L -1	470/1200	425/1200	≤ 213.5	≤ 2.7	3280 × 2040 × 2678	6750
G8V190Z _L -2	390/1000	350/1000	≤ 213.5	≤ 2.7	1802 × 1560 × 2070	4300
G8V190PZ _L -2	390/1000	350/1000	≤ 213.5	≤ 2.7	3280 × 2040 × 2678	6750

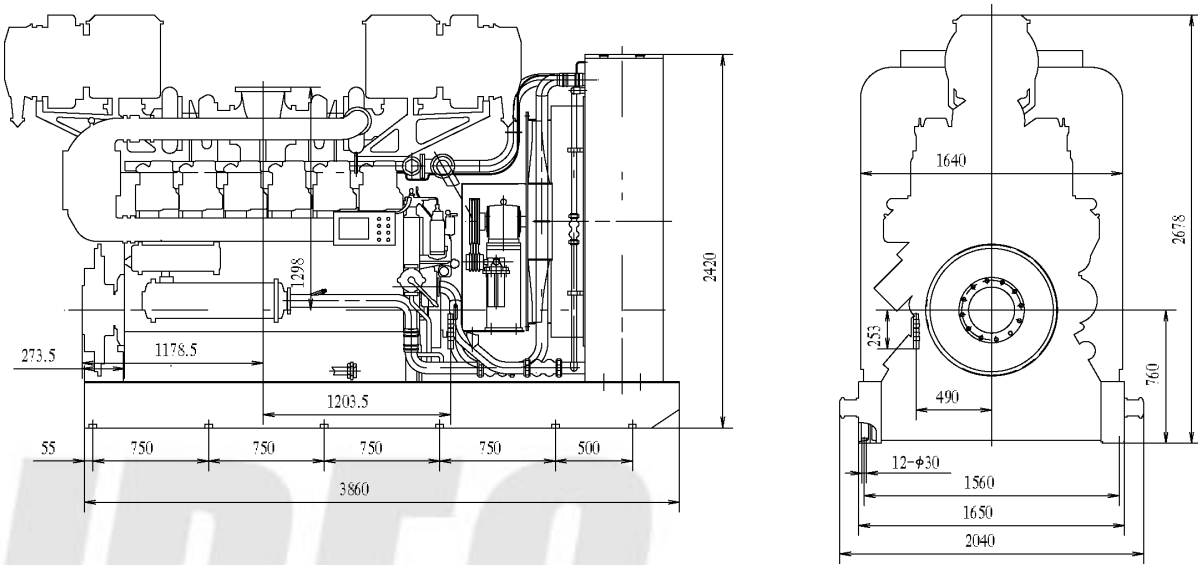
主要技术参数 Main technical data

缸数及排列: 12(8)缸, 60° V 型	No. and layout of cylinders:12(8),60°Vee
型 式: 四冲程、水冷、增压中冷、直喷燃烧室	Type:Four stroke,water cooled,turbocharged and aftercooled, direct injection
气 缸 直 径: 190mm	Bore:190mm
活 塞 行 程: 210mm	Stroke:210mm
活塞总排量: 71.45(47.6)L	Total displacement:71.45(47.6)L
压 缩 比: 14:1	Compression ratio:14:1
转 向: 逆时针 (面向输出端)	Direction of rotation:Counter-clockwise(facing to flywheel)
启 动 方 式: 气马达、电马达	Starting method:Air motor,electric motor
润 滑 方 式: 压力和飞溅润滑	Lubricating method:Pressure and splash lubrication

外形尺寸 Overall dimension



G12V190Z_L



G12V190PZ_L

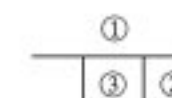
3000 系列柴油机 Series 3000 diesel engines

3000 系列柴油机是我公司为满足日益发展的石油工业的需求，提高我国钻井装备的先进性、可靠性而研制开发的新一代柴油机。该型柴油机是在我公司 6000 系列柴油机的基础上，吸收借鉴国外柴油机先进结构与技术而开发的。其动力性、经济性指标均有大幅提高，主要性能指标已达到或接近当今国际先进水平。

3000 系列柴油机可满足 4000 至 7000 米机械钻机、电动钻机对动力的需求。可与变矩器、偶合器安装在同一底盘组成机组，用于驱动钻机或泥浆泵。也可用于匹配单、双支承发电机组成电站以及用于消防泵、防洪泵的动力等。

In order to meet the demand of increasingly developing petroleum industry, improve the reliability of oil drilling equipment and make them reach the advanced level, our company has developed the series 3000 diesel engines by using up-to-date engine structure and technology for reference, on the basis of the series 6000 diesel engines. the power and economic targets of the engines have been greatly improved and main performance targets reached the level of the world advanced drill rig engines.

The series 3000 diesel engines could satisfy the power requirements of the mechanical and electric drill rig engines at 4000~7000km. We can install the torque converter and coupling on the same bedplate to form a set, thus we can use the set as the driving drill rig engine and slush pump. We can also match the generating set with single or double supporting to form a power plant or supply as the power of fire-fighting pump and flood control pump



- ① 3000 系列柴油配套机
Series 3000 diesel engines with fan and radiator
- ② 3000 系列柴油单机
Series 3000 diesel engines without fan and radiator
- ③ 3000 系列柴油偶合器机组
Series 3000 diesel coupling sets

JDEC

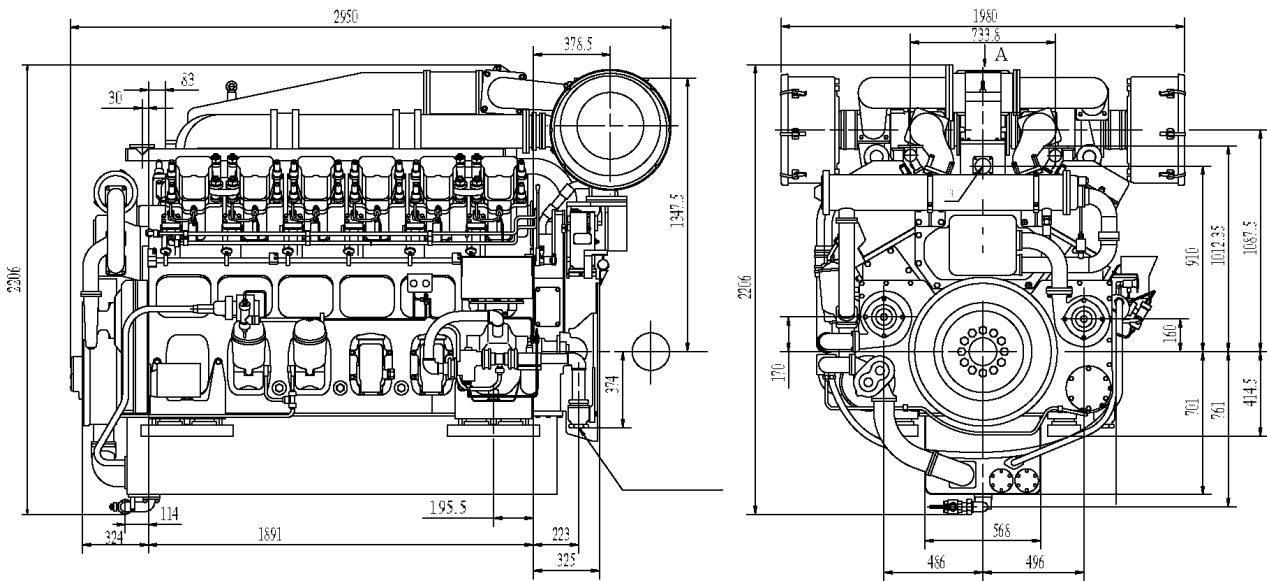
主要技术规格 Main specification

型号 Model	12 小时功率 / 转速 12 hour power(kW)/ Speed(r/min)	持续功率 / 转速 Continuous power (kW)/Speed(r/min)	燃油消耗率 Specific fuel con- sumption(g/kW·h)	机油消耗率 Specific oil con- sumption(g/kW·h)	外形尺寸 Overall dimension L × B × H(mm)	净质量 Net weigh (kg)
A12V190Z _L	1200/1500	1080/1500	≤ 205	≤ 1.0	2950 × 1980 × 2206	9300
A12V190PZ _L	1200/1500	1080/1500	≤ 205	≤ 1.0	3980 × 2250 × 2739	11000
A12V190Z _L -3	1100/1300	990/1300	≤ 205	≤ 1.0	2950 × 1980 × 2206	9300
A12V190PZ _L -3	1100/1300	990/1300	≤ 205	≤ 1.0	3980 × 2250 × 2739	11000
A12V190Z _L -1	1000/1200	900/1200	≤ 205	≤ 1.0	2950 × 1980 × 2206	9300
A12V190PZ _L -1	1000/1200	900/1200	≤ 205	≤ 1.0	3980 × 2250 × 2739	11000
A12V190Z _L -2	900/1000	810/1000	≤ 205	≤ 1.0	2950 × 1980 × 2206	9300
A12V190PZ _L -2	900/1000	810/1000	≤ 205	≤ 1.0	3980 × 2250 × 2739	11000
A8V190Z _L	900/1500	810/1500	≤ 205	≤ 1.4	2300 × 1774 × 2173	7200
A8V190PZ _L	900/1500	810/1500	≤ 205	≤ 1.4	3380 × 2250 × 2738	9100
A8V190Z _L -3	760/1300	684/1300	≤ 205	≤ 1.4	2300 × 1774 × 2173	7200
A8V190PZ _L -3	760/1300	684/1300	≤ 205	≤ 1.4	3380 × 2250 × 2738	9100
A8V190Z _L -1	700/1200	630/1200	≤ 205	≤ 1.4	2300 × 1774 × 2173	7200
A8V190PZ _L -1	700/1200	630/1200	≤ 205	≤ 1.4	3380 × 2250 × 2738	9100
A8V190Z _L -2	600/1000	540/1000	≤ 205	≤ 1.4	2300 × 1774 × 2173	7200
A8V190PZ _L -2	600/1000	540/1000	≤ 205	≤ 1.4	3380 × 2250 × 2738	9100

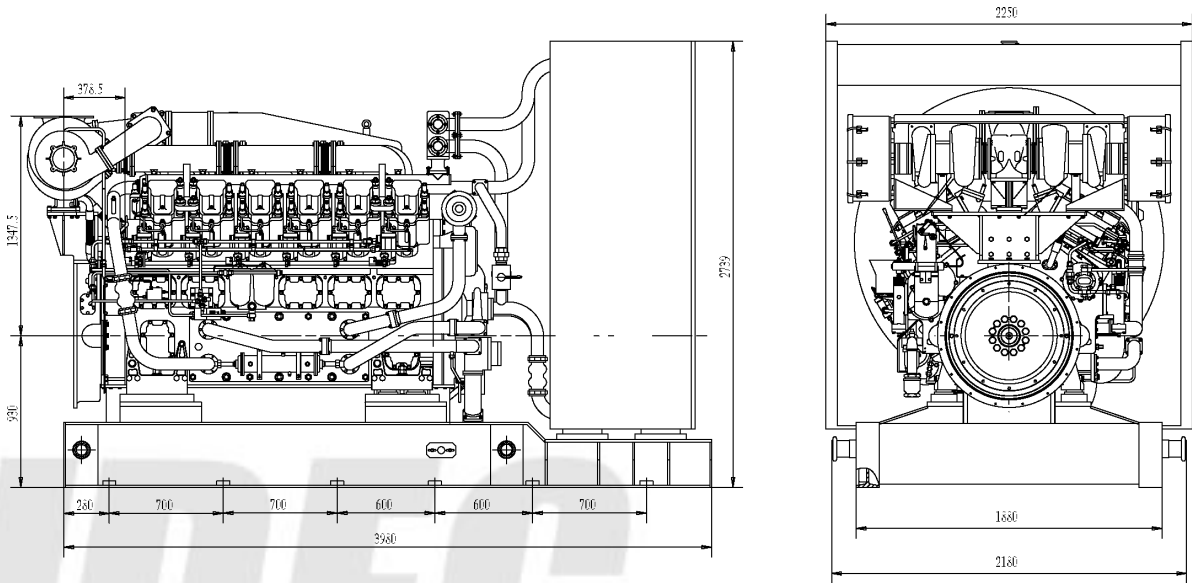
主要技术参数 Main technical data

缸数及排列: 12(8)缸, 60° V 型	No. and layout of cylinders:12(8),60° Vee
型 式: 四冲程、水冷、增压中冷、直喷燃烧室	Type:Four stroke,water cooled,turbocharged and aftercooled, direct injection
气 缸 直 径: 190mm	Bore:190mm
活 塞 行 程: 215mm	Stroke:215mm
活塞总排量: 73.15(48.77)L	Total displacement:73.15(48.77)L
压 缩 比: 14.5:1	Compression ratio:14.5:1
转 向: 逆时针 (面向输出端)	Direction of rotation:Counter-clockwise(facing to flywheel)
启 动 方 式: 气马达、电马达	Starting method:Air motor,electric motor
润 滑 方 式: 压力和飞溅润滑	Lubricating method:Pressure and splash lubrication

外形尺寸 Overall dimension



A12V190Z_L



A12V190PZ_L

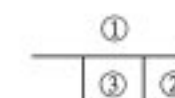
3000 系列长冲程柴油机 Series 3000 long stroke diesel engines

3000系列长冲程柴油机是根据目前国内外内燃机行业发展的现状, 针对挖泥船机械钻机工业水泵等动力的需求而设计开发的。动力性能、经济性能和使用可靠性能等指标均达到国际水平, 同时可以匹配50Hz和60Hz工频发电机及满足各种电力需要。

该柴油机的开发集自身多年产品研发经验, 并与国内院校及研究机构合作, 结合奥地利李斯特AVL模拟分析软件, 使该产品满足外形紧凑、操作维护简单、动力指标高等特点。

Considering the development status of domestic and abroad ICE industry, aiming at meeting the power demands of dredgers, mechanic drilling rigs and industrial water pump etc., Series 3000 long stroke diesel engine is designed with the targets of dynamic performance, economy and operation reliability having achieved international leading position, and can match generator of 50Hz and 60Hz power frequency and satisfy various kinds of power demands.

Combining years of experience, cooperating with domestic universities and research institutes, the engine is developed with AVL's simulation software to be compact, easy to operate and highly dynamic.



- ① 3000 系列长冲程柴油机
Series 3000 long stroke diesel engines
- ② 3000 系列长冲程柴油偶合器机组
Series 3000 long stroke diesel coupling sets
- ③ 3000 系列长冲程柴油发电机组
Series 3000 long stroke diesel generating sets

JDEC



主要技术规格 Main specification

型号 Model	12小时功率 / 转速 12 hour power(kW)/ Speed(r/min)	持续功率 / 转速 Continuous power (kW)/Speed(r/min)	燃油消耗率 Specific fuel con- sumption(g/kW·h)	机油消耗率 Specific oil con- sumption(g/kW·h)	外形尺寸 Overall dimension L × B × H(mm)	净质量 Net weigh (kg)
L12V190Z _L -1	1200/1200	1080/1200	≤ 202	≤ 1.0	2950 × 1980 × 2312	9300
L12V190PZ _L -1	1200/1200	1080/1200	≤ 202	≤ 1.0	3980 × 2250 × 2850	11000
L12V190Z _L -2	1000/1000	900/1000	≤ 202	≤ 1.0	2950 × 1980 × 2312	9300
L12V190PZ _L -2	1000/1000	900/1000	≤ 202	≤ 1.0	3980 × 2250 × 2850	11000
L12V190Z _L -3	1300/1300	1170/1300	≤ 202	≤ 1.0	2950 × 1980 × 2312	9300
L12V190PZ _L -3	1300/1300	1170/1300	≤ 202	≤ 1.0	3980 × 2250 × 2850	11000

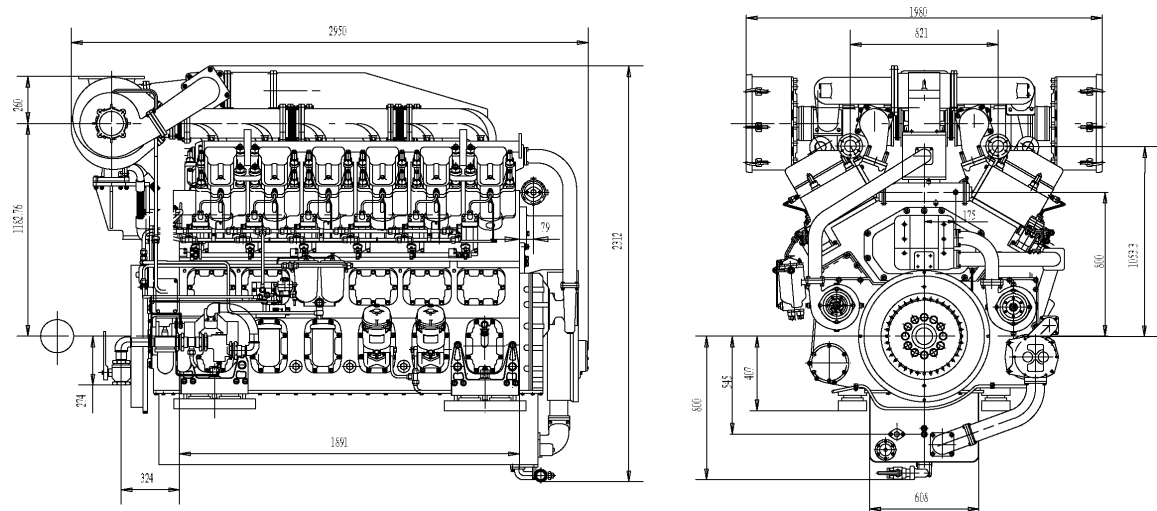
主要技术参数 Main technical data

缸数及排列: 12缸, 60° V型	No. and layout of cylinders:12,60°Vee
型 式: 四冲程、水冷、增压中冷、直喷燃烧室	Type:Four stroke,water cooled,turbocharged and aftercooled, direct injection
气 缸 直 径: 190mm	Bore:190mm
活 塞 行 程: 255mm	Stroke:255mm
活塞总排量: 86.72L	Total displacement:86.72L
压 缩 比: 14.5:1	Compression ratio:14.5:1
转 向: 逆时针 (面向输出端)	Direction of rotation:Counter-clockwise(facing to flywheel)
启 动 方 式: 气马达、电马达	Starting method:Air motor,electric motor
润 滑 方 式: 压力和飞溅润滑	Lubricating method:Pressure and splash lubrication

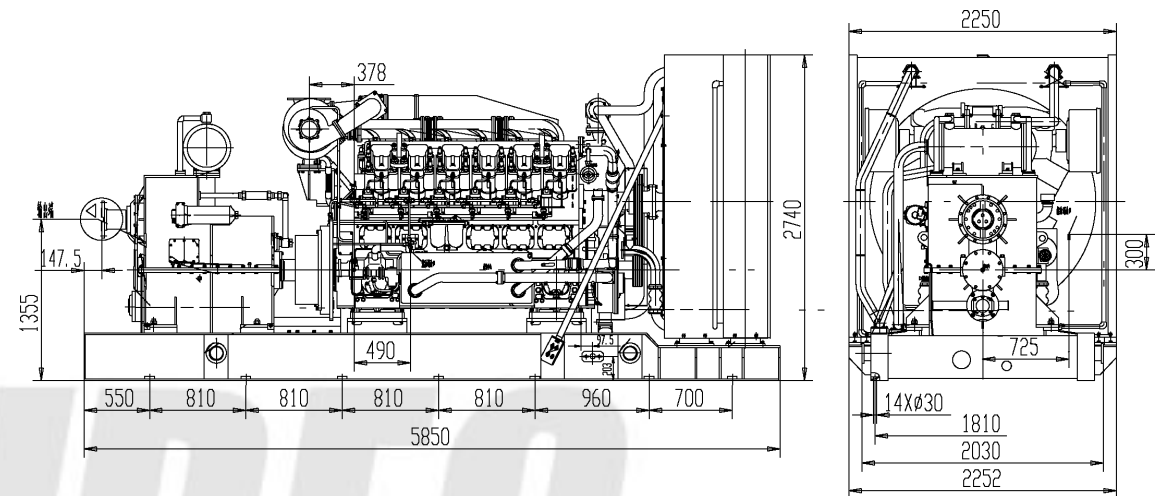
柴油耦合器机组主要技术规格 Main specification of diesel coupling sets

机组型号 Model of coupling sets	功率 / 转速 Power(kW)/Speed (r/min)	柴油机型号 Model of diesel engine	耦合器型号 Model of coupling	传动比 Reduction ratio	外形尺寸 Overall dimension L × B × H(mm)	中心高 Centre height (mm)
CO1300F-3/25	1300/1300	L12V190PZ _L -3	YOTFJ875-25FLsh	2.5	6410 × 2335 × 2740	1355

外形尺寸 Overall dimension



L12V190Z_L-1



CO1300F-3/25

B3000 系列柴油机 Series B3000 diesel engines

B3000 系列柴油机是我公司在原有 3000 系列柴油机的基础上，围绕提高柴油机的可靠性、经济性和自动化控制水平、解决三漏和外观质量、方便维修等方面进行了较大改进、精制而成，以满足油田钻井，特别是出国打井和无人值守要求。

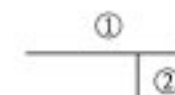
济柴 B3000 高可靠性无人值守型钻井用柴油机可与进口钻井动力媲美，为做大、做强以济柴为龙头的石油动力机械板块，确立 190 系列产品在中国中大功率内燃机行业的优势地位，为我国石油动力走向世界，奠定了坚实的基础。

该机型除用于石油钻井外，还可广泛应用于工矿调度机车配套、中小型自备电站、船舶主机和大型船舶辅机等。

On the basis of the original series 3000 diesel engines ,JDEC has improved the design of series B3000 ,aiming at increasing reliability,economy and monitoring and automatic control quality,eliminating water, oil and gas leaks,achieving good appearance quality and convenienc of maintenance,for the purpose of meeting the demands of oilfield drilling,especially the increasing demands of going drilling abroad without and on-duty staff.

JDEC B3000 drilling rig engine,which is of high reliability and no on-duty staff is needed,making the series be able to compete with the imported drilling power products,laying firm foundation for enlarging and enhancing the industry plate of petroleum power equipment headed by JDEC,establishing the leading position of 190series in China's middle and large power internal combustion engine field and making JDEC's engine products acquire international recognition.

In addition to drilling rigs,the engine type is also widely applicable to locomotives of factories and mines,middle and small power plants for customer oneself,prime engine for ships and auxiliary engine for large vessels.



- ① B3000 系列柴油机
Series B3000 diesel engines
- ② B3000 系列柴油发电机组
Series B3000 diesel generating sets

JDEC

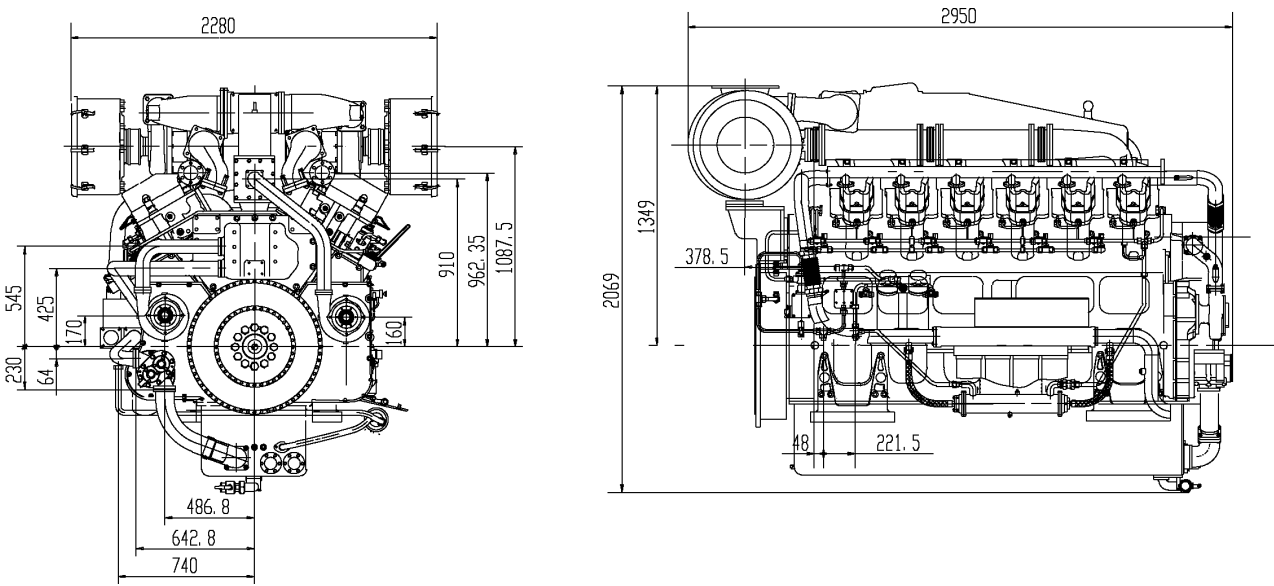
主要技术规格 Main specification

型号 Model	12 小时功率 / 转速 12 hour power(kW)/ Speed(r/min)	持续功率 / 转速 Continuous power (kW)/Speed(r/min)	燃油消耗率 Specific fuel con- sumption(g/kW·h)	机油消耗率 Specific oil con- sumption(g/kW·h)	外形尺寸 Overall dimension L × B × H(mm)	净质量 Net weigh (kg)
B12V190Z _L	1320/1500	1200/1500	≤ 202	≤ 1.0	2950 × 1980 × 2206	9300
B12V190PZ _L	1320/1500	1200/1500	≤ 202	≤ 1.0	3980 × 2250 × 2739	11000
B12V190Z _L -3	1180/1300	1080/1300	≤ 202	≤ 1.0	2950 × 1980 × 2206	9300
B12V190PZ _L -3	1180/1300	1080/1300	≤ 202	≤ 1.0	3980 × 2250 × 2739	11000
B12V190Z _L -1	1140/1200	1040/1200	≤ 202	≤ 1.0	2950 × 1980 × 2206	9300
B12V190PZ _L -1	1140/1200	1040/1200	≤ 202	≤ 1.0	3980 × 2250 × 2739	11000
B12V190Z _L -2	930/1000	840/1000	≤ 202	≤ 1.0	2950 × 1980 × 2206	9300
B12V190PZ _L -2	930/1000	840/1000	≤ 202	≤ 1.0	3980 × 2250 × 2739	11000
BH12V190Z _L	1360/1500	1235/1500	≤ 202	≤ 1.0	2950 × 2280 × 2069	9300
BH12V190PZ _L	1360/1500	1235/1500	≤ 202	≤ 1.0	4189 × 2345 × 2636	11000
BH12V190Z _L -3	1210/1300	1100/1300	≤ 202	≤ 1.0	2950 × 2280 × 2069	9300
BH12V190PZ _L -3	1210/1300	1100/1300	≤ 202	≤ 1.0	4189 × 2345 × 2636	11000
BH12V190Z _L -1	1160/1200	1060/1200	≤ 202	≤ 1.0	2950 × 2280 × 2069	9300
BH12V190PZ _L -1	1160/1200	1060/1200	≤ 202	≤ 1.0	4189 × 2345 × 2636	11000
BH12V190Z _L -2	960/1000	870/1000	≤ 202	≤ 1.0	2950 × 2280 × 2069	9300
BH12V190PZ _L -2	960/1000	870/1000	≤ 202	≤ 1.0	4189 × 2345 × 2636	11000

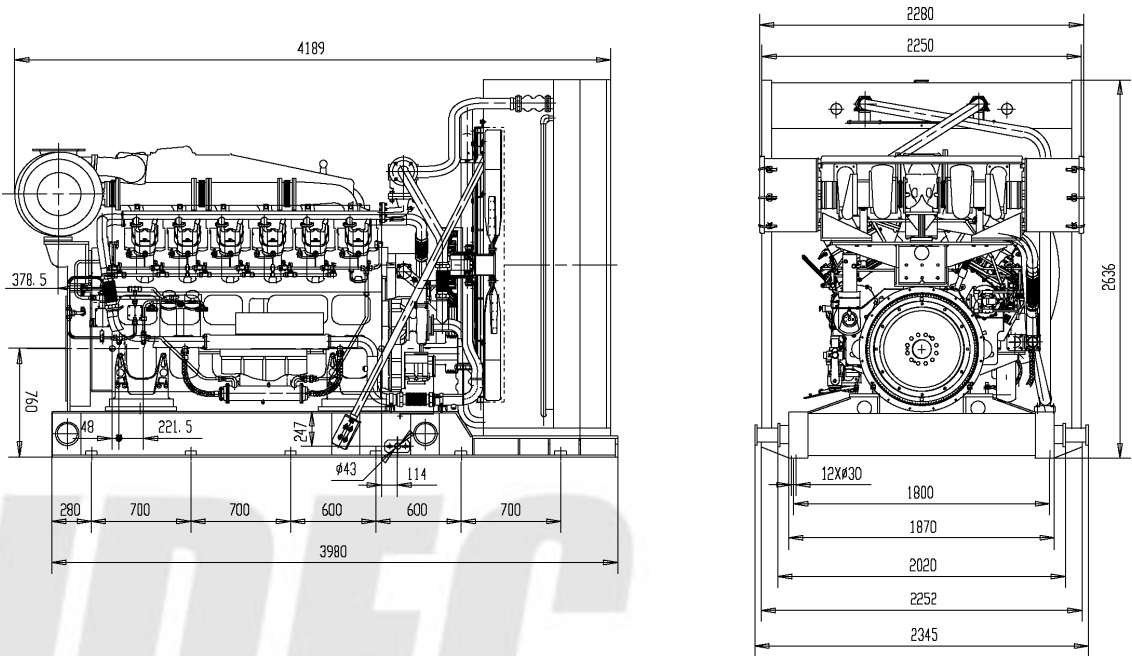
主要技术参数 Main technical data

缸数及排列: 12 缸, 60° V 型	No. and layout of cylinders:12,60°Vee
型 式: 四冲程、水冷、增压中冷、直喷燃烧室	Type:Four stroke,water cooled,turbocharged and aftercooled, direct injection
气 缸 直 径: 190mm	Bore:190mm
活 塞 行 程: 215mm	Stroke:215mm
活塞总排量: 73.15L	Total displacement:73.15L
压 缩 比: 14.5:1	Compression ratio:14.5:1
转 向: 逆时针 (面向输出端)	Direction of rotation:Counter-clockwise(facing to flywheel)
启 动 方 式: 气马达、电马达	Starting method:Air motor,electric motor
润 滑 方 式: 压力和飞溅润滑	Lubricating method:Pressure and splash lubrication

外形尺寸 Overall dimension



BH12V190Z_L



BH12V190PZ_L

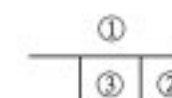
6000 系列柴油机 Series 6000 diesel engines

6000 系列柴油机是我公司同奥地利 AVL 公司以及国内知名院校、研究所合作，运用最新的内燃机开发手段，通过计算机辅助设计、模拟计算、有限元分析等对发动机的燃烧工作过程、曲轴扭振、增压器匹配、进排气系统等进行模拟计算、优化的基础上设计开发出来的。采用了当今国际大功率内燃机行业先进的技术、成熟的零部件产品，使该机在扩展原 190 系列柴油机功率的同时，在提高平均有效压力、降低油耗排放和提高使用可靠性、安全性方面有了较大的进步。

6000 系列柴油机广泛应用于石油钻采、柴油发电站、海洋钻井平台、机车、舰船主辅机及其它动力设备等。

Series 6000 diesel engines is co-developed by JDEC and AVL, Austria as well as some domestic famous university and research institute, and the simulation calculation and optimization have been carried out for the combustion process, crankshaft torque and vibration, turbocharger match and intake and exhaust system etc. by means of using latest development methods such as CAD, computer simulation, FEM and so on. Advanced technology and well-developed parts & components have been adopted and targets of BEMP, fuel consumption and emission, operation reliability and safety have been improved very much on the basis of original 190 engine series' design.

Series 6000 diesel engine can be widely used for petroleum drilling, diesel power plants, ocean drilling platforms, locomotives, prime & auxiliary marine engines and other kinds of power units.



- ① 6000 系列柴油机•16V
Series 6000 diesel engines•16V
- ② 6000 系列柴油机•12V
Series 6000 diesel engines•12V
- ③ 6000 系列柴油发电机组
Series 6000 diesel generating sets

JDEC

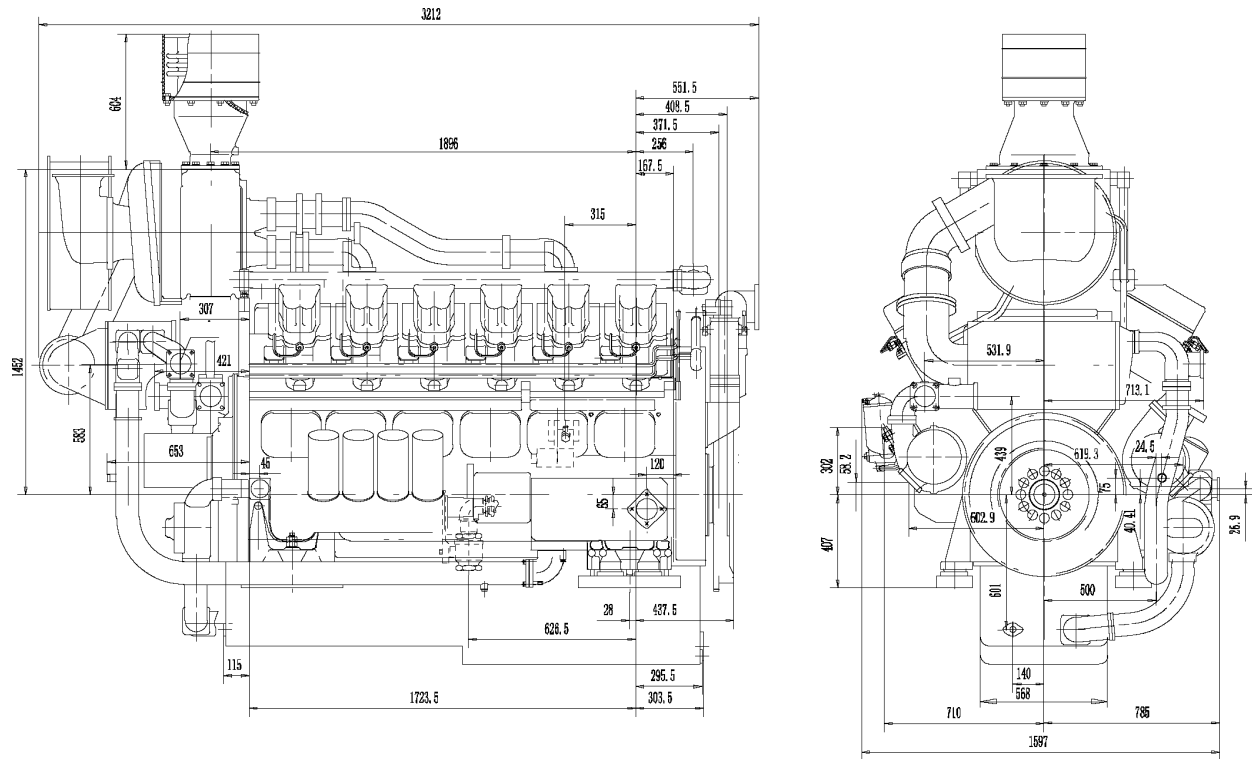
主要技术规格 Main specification

型号 Model	12 小时功率 / 转速 12 hour power(kW)/ Speed(r/min)	持续功率 / 转速 Continuous power (kW)/Speed(r/min)	燃油消耗率 Specific fuel con- sumption(g/kW·h)	机油消耗率 Specific oil con- sumption(g/kW·h)	外形尺寸 Overall dimension L × B × H(mm)	净质量 Net weigh (kg)
H12V190Z _L	1740/1500	1560/1500	≤ 200	≤ 1.0	3234 × 1140 × 2286	9500
H12V190PZ _L	1740/1500	1560/1500	≤ 200	≤ 1.0	5417 × 3145 × 3174	13700
H12V190Z _L -1	1400/1200	1260/1200	≤ 200	≤ 1.0	3234 × 1140 × 2286	9500
H12V190PZ _L -1	1400/1200	1260/1200	≤ 200	≤ 1.0	5417 × 3145 × 3174	13700
H12V190Z _L -2	1160/1000	1040/1000	≤ 200	≤ 1.0	3234 × 1140 × 2286	9500
H12V190PZ _L -2	1160/1000	1040/1000	≤ 200	≤ 1.0	5417 × 3145 × 3174	13700
H16V190Z _L	2400/1500	2160/1500	≤ 200	≤ 1.0	3525 × 2060 × 2331	13000

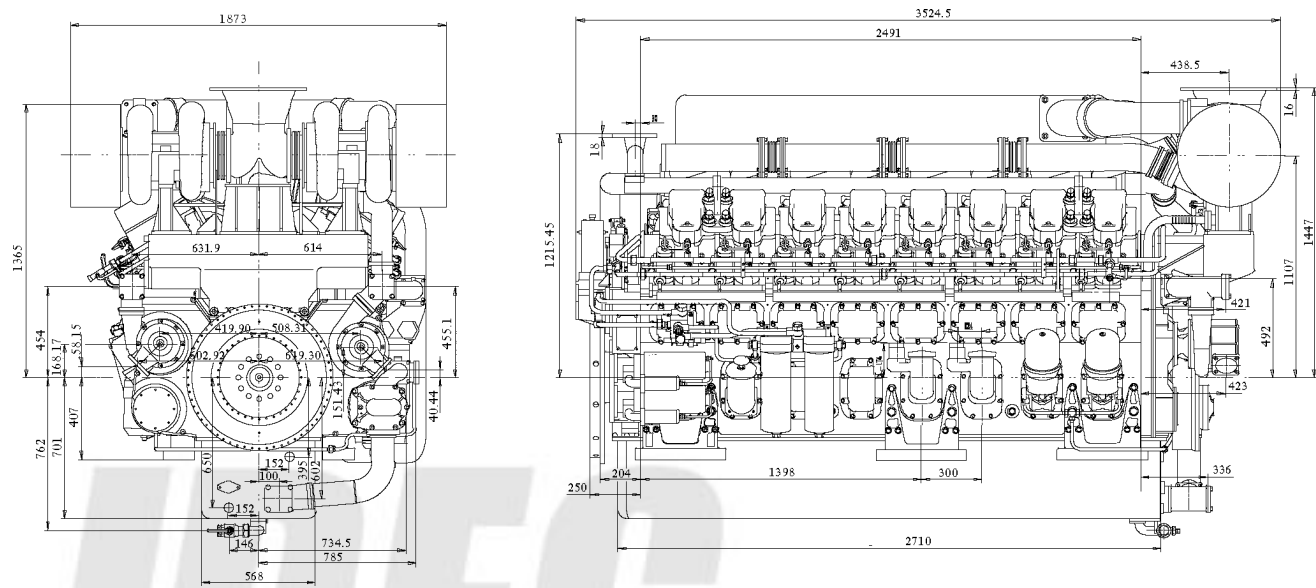
主要技术参数 Main technical data

缸数及排列: 12(16)缸, 60° V 型	No. and layout of cylinders:12(16),60°Vee
型 式: 四冲程、水冷、增压中冷、直喷燃烧室	Type:Four stroke,water cooled,turbocharged and aftercooled, direct injection
气 缸 直 径: 190mm	Bore:190mm
活 塞 行 程: 215mm	Stroke:215mm
活塞总排量: 73.15(97.53)L	Total displacement:73.15(97.53)L
压 缩 比: 14.5:1	Compression ratio:14.5:1
转 向: 逆时针 (面向输出端)	Direction of rotation:Counter-clockwise(facing to flywheel)
启 动 方 式: 气马达、电马达	Starting method:Air motor,electric motor
润 滑 方 式: 压力和飞溅润滑	Lubricating method:Pressure and splash lubrication

外形尺寸 Overall dimension



H12V190Z_L

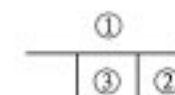


H16V190Z_L

190 系列机车用柴油机 Series 190 locomotive diesel engines

190 系列机车用柴油机，主要用于工矿调车机车，目前已有多种型号，以满足不同型号机车的需求。该机型采用了高弹性橡胶联轴器、风缸操纵装置、双压力式油压自动停车装置……，以及在润滑系统、冷却系统的设置上都满足了机车工作性能的要求。具有起动和加速迅速运转平衡、操作维修方便、能远距离定位操纵等特点。

Series 190 locomotive engine is mainly used for mine locomotive. Now it has various models to satisfy the different models of locomotive. It adopts elastic rubber coupling, pneumatic throttle governor, double-pressure low-oil-pressure auto-shut-down devices...and also the devices of lubricating system and cooling system. All these can satisfy the requirement of performance characteristics of locomotive. It is with features of, fast in starting and accelerating smoothly in operation, convenient for operation and maintenance and also fixed position remote-control.



- ① G12V190Z_LJ 机车用柴油机
Model G12V190Z_LJ locomotive diesel engines
- ② Z12V190BJ 机车用柴油机
Model Z12V190BJ locomotive diesel engines
- ③ G6190Z_LJ 机车用柴油机
Model G6190Z_LJ locomotive diesel engines

JDEC

外形尺寸 Overall dimension

Technical drawings of the 12UW engine showing front and side views with dimensions.

Front View Dimensions:

- Overall width: 1560
- Overall height: 2070
- Top section height: 1450
- Bottom section height: 935
- Distance between main mounting points: 532
- Distance between lower mounting points: 712.4
- Distance from left edge to first mounting point: 140
- Distance from left edge to second mounting point: 60
- Distance from left edge to third mounting point: 50
- Distance from left edge to fourth mounting point: 176
- Distance from left edge to fifth mounting point: 490
- Distance from left edge to sixth mounting point: 530
- Distance from left edge to seventh mounting point: 490
- Distance from left edge to eighth mounting point: 253
- Distance from left edge to ninth mounting point: 444
- Distance from left edge to tenth mounting point: 474.5

Side View Dimensions:

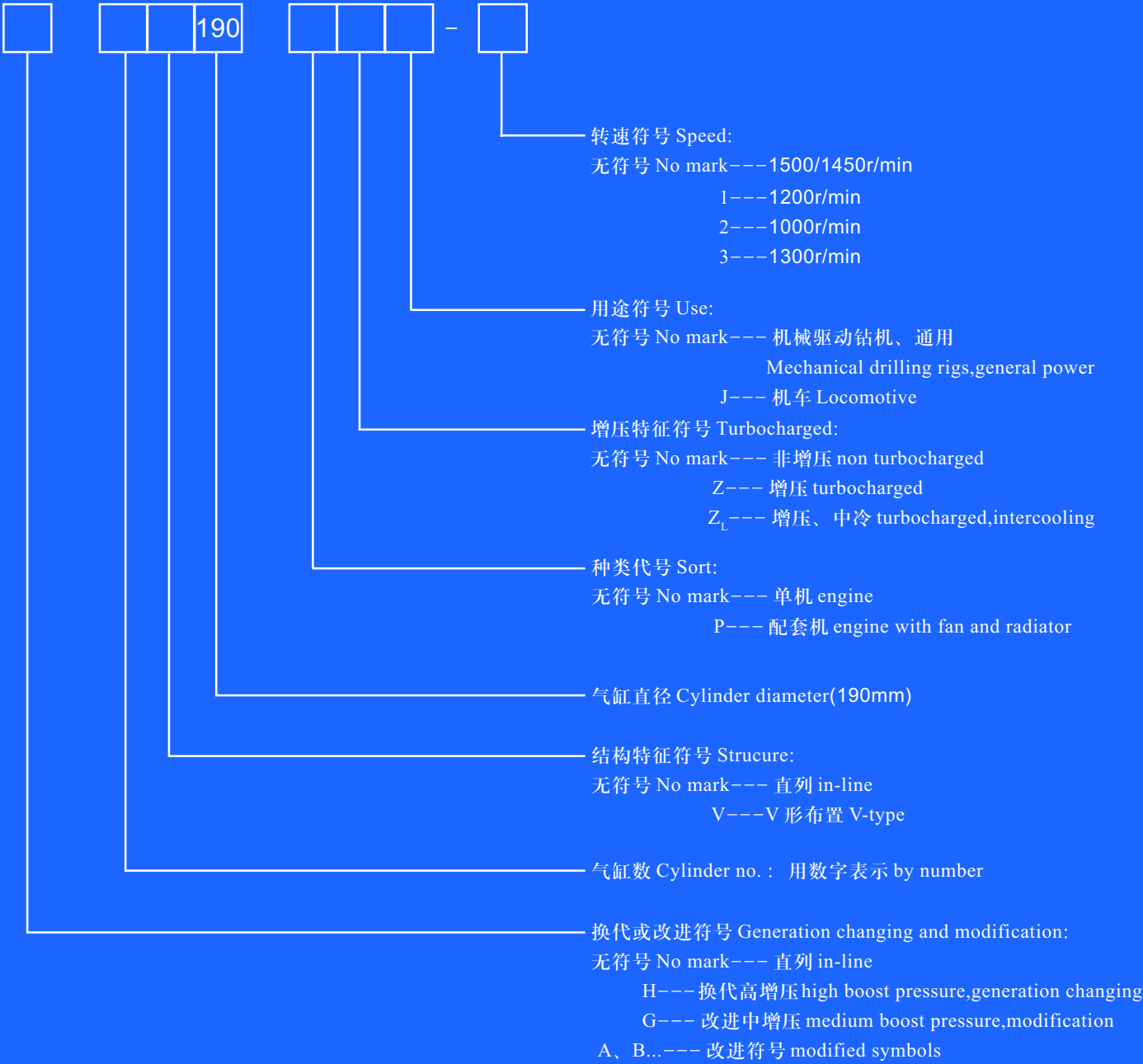
- Overall width: 2692
- Overall height: 2106
- Distance between main mounting points: 1178.5
- Distance between lower mounting points: 600
- Distance from left edge to first mounting point: 259
- Distance from left edge to second mounting point: 268.5
- Distance from left edge to third mounting point: 1329
- Distance from left edge to fourth mounting point: 1789
- Distance from left edge to fifth mounting point: 2179.5
- Distance from left edge to sixth mounting point: 2251.5
- Distance from left edge to seventh mounting point: 250
- Distance from left edge to eighth mounting point: 360

Z12V190BJ

[illegible]

G6190Z, J

型号说明 Type designation



Z 12 V 190 B

机型符号:
J--- 机车用柴油机 Locomotive diesel engines
注:同用途不同性能结构时,用途符号右下角加注数字顺序号
Note: if the same application but different performance structures, numeric sequence should be added at the right lower corner of the application symbol.

我们的承诺 Our promise

- 技术先进 Advanced technology
 - 技术指标国际先进
An international advanced technology
 - 产品水平国内领先
A leading international product standards
- 质量过硬 Excellent quality
 - 先进的设计手段
Advanced design tools
 - 一流的制造设备
First-class manufacturing equipment
 - 严格的质量保证
Strict quality assurance
 - 优良的售后服务
Excellent after-sales service
- 服务迅捷 Express service
 - 完善的售后服务网络
Improved after-sales service network
 - 迅速的客户要求反馈
Rapid customer feedback
 - 专业的维修服务队伍
Professional maintenance services team



JDEC