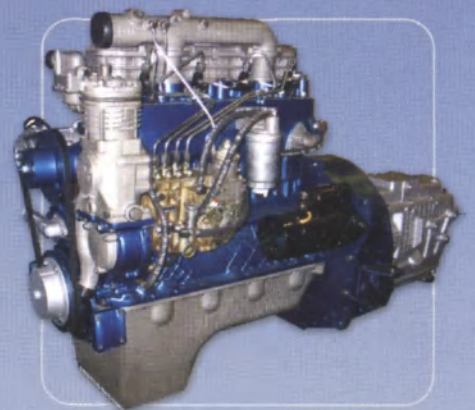
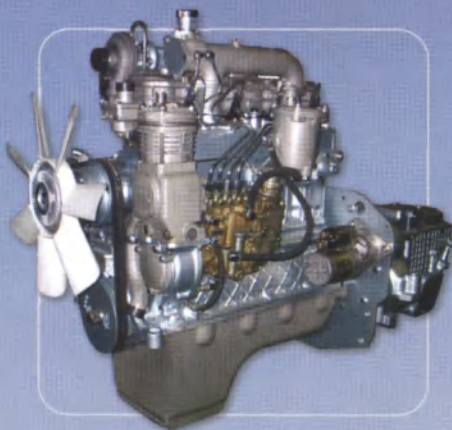
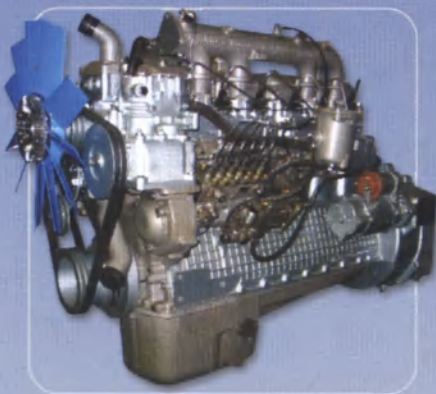




MINSK MOTOR PLANT





MINSK MOTOR PLANT

The Open Joint Stock Company "Minsk Motor Plant" is the largest manufacturer of 4 and 6-cylinder diesel engines within the power range of 60-425 hp with annual production volume of 120 000 units.

Our traditional sales markets are Germany, Cuba, Egypt, Hungary, Poland, Pakistan, Vietnam, Russia, the Ukraine and over 40 countries of Europe, Asia, Africa and both Americas.

The wide range of power characteristics of the engines manufactured by the Minsk Motor Plant, their reliability and long operation life allows their use in various transport means, automobiles, tractors, buses, combine harvesters, road building and forestry machinery and many more. Among our customers are such companies as MTZ, ZIL, MAZ, PAZ, GAZ and dozens of others.

The MMP engines are widely used as power units by manufacturers of electric power, water pumping, air compressor sets and welding sets.

Keeping high our brand, we permanently work on improving the quality and produce engines conforming to the stringent requirements of our customers. The Minsk Motor Plant offers engines with mechanical fuel feed systems (complying with EURO 0 / 1 / 2 ecological standards) as well as engines with electronically controlled "Common Rail" fuel feed systems (complying with ecological standards EURO-3, STAGE 3A).

The Minsk Motor Plant is working on introducing to serial production the engines conforming to EURO-4 and STAGE 3B. Apart from that, the work on creation and introducing the engines conforming to EURO-5 is underway.

Our enterprise will welcome all proposals by companies wishing to start mutually beneficial cooperation.

For further information and for the matters pertaining to engine supplies, please, contact:

4, Vaupshasov Str., Minsk
220070, Republic of Belarus

Phone: + 375 17 218 30 06
+ 375 17 218 30 07

Phone / fax + 375 17 218 31 77
+ 375 17 230 27 76

e-mail: oves@po-mmz.minsk.by
e-mail: oves1@po-mmz.minsk.by
e-mail: oves2@po-mmz.minsk.by

«La Fabrica de Motores de Minsk» S.A. es uno de los productores principales de los motores Diesel de 4 y 6 cilindros de capacidad de 50 hasta 350 h.p. con la producción anual mas de 120 000 unidades.

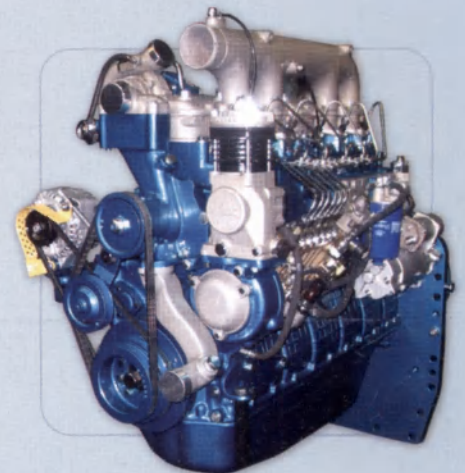
Los mercados de venta tradicionales son Alemania, Cuba, Egipto, Polonia, Paquistán, Viet-Nam, Rusia, Ucrania y otros 40 países de Europa, Asia, Africa y America.

La amplia gama de características de capacidad de los motores Diesel de «La Fabrica de Motores de Minsk» S.A. y su solidez permiten su instalación en diferentes vehículos: automoviles, tractores, los vehículos de construcción, la técnica automotriz destinada para transportación de madera, autobuses, cosechadoras. Entre nuestros clientes se encuéntran tales empresas como MTZ, ZIL, MAZ, PAZ, GAZ y decenas de otras empresas.

Los motores MMZ se utilizan por los fabricantes de las instalaciones generadoras, hidráulicas, de compresores, grupo de maquinas de soldadura.

Siempre tratamos de mejorar la calidad de nuestra producción y fabricamos los motores que corresponden a las necesidades de los consumidores. «La Fabrica de Motores de Minsk» produce los motores tanto como con el sistema mecánico de alimentación de combustible (que corresponde a las normas vigentes ecológicas EURO 0/1/2), así con el sistema electrónico de dirección de alimentación de combustible «Common Rail» (que corresponde a las normas EURO-3, TIER 3A).

Se planea la fabricación en serie de los motores, que corresponden a las normas EURO -3, EURO-4 y TIER 3B. Se realizan los trabajos para la introducción de EURO-5. Nuestra fabrica propone la colaboración a todas comañias interesadas.



www.po-mmz.minsk.by



MINSK MOTOR PLANT

**BASIC SPECIFICATION OF THE DIESEL ENGINES MANUFACTURED BY THE OJSC «MMP»
FOR TRACTORS, COMBINE-HARVESTERS, ROAD-BUILDING TECHNICS**



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+ 375 17 230 27 76

e-mail: oves@po-mmz.minsk.by
e-mail: oves1@po-mmz.minsk.by
e-mail: oves2@po-mmz.minsk.by

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BASIC SPECIFICATION OF THE DIESEL ENGINES MANUFACTURED BY THE OJSC «MMP» FOR TRACTORS, COMBINE-HARVESTERS, ROAD-BUILDING TECHNICS

MODEL	NUMBER AND ARRANGEMENT OF CYLINDERS	TYPE OF GAS EXCHANGE SYSTEM	RATED POWER, kW (HP)	RATED SPEED, RPM	MAX. TORQUE, Nm (KGF·M)	SPEED OF MAX. TORQUE, RPM	BRAKE SPECIFIC FUEL CONSUMPTION, G/KW·H (G/HP·H)	MASS, KG
4-CYLINDER NATURALLY ASPIRATED DIESEL ENGINES								
Д-241/241Л	4L	NA	53 (72)	2100	240 (24.5)	1600	226 (166)	430/490
Д-242/242Л	4L	NA	46 (62)	1800	241 (24.6)	1400	226 (166)	430/490
Д-243/243Л	4L	NA	60 (81)	2200	258 (26.3)	1600	226 (166)	430/490
Д-243.1	4L	NA	61(83)	2200	305 (31)	1600	226 (166)	430
Д-244/244Л	4L	NA	42 (57)	1700	235.4 (24)	1400	226 (166)	430
Д-248	4L	NA	44 (60)	2000	242 (24.7)	1600	220 (162)	430
Д-248.1	4L	NA	37 (50)	1800	224 (23)	1400	220 (162)	430
Д-242С	4L	NA	47.5 (64.4)	1800	252 (25.7)	1400	230 (169)	430
Д-243С	4L	NA	60 (81.6)	2200	260.5 (26.6)	1400	235 (173)	430
Д-244С	4L	NA	43.5 (59)	1700	244 (25)	1400	230 (169)	430
Д-248С	4L	NA	44 (60)	2000	242 (24.7)	1600	220 (162)	430
4-CYLINDER TURBOCHARGED DIESEL ENGINES WITH SUPERCHARGING AIR INTERCOOLING								
Д-245/245Л	4L	T	77 (105)	2200	384 (39.2)	1400	220 (162)	450/485
Д-245.5	4L	T	65 (88.7)	1800	397 (40.5)	1400	217 (159.6)	450
Д-245.16/16Л	4L	T	93(126.5)	1800	567 (57.9)	1400-1500	220 (162)	495/512
Д-245С	4L	T	79 (107.4)	2200	392 (40)	1400	230 (169)	450
Д245.5С	4L	T	66 (89.7)	1800	404 (41)	1200	225 (165.4)	450
Д-245S2	4L	TW	81(110.2)	2200	440 (44.9)	1600	240 (176.5)	430
Д-245.2S2	4L	TW	90(122.4)	2200	501 (51)	1600	245 (180)	450
Д-245.5S2	4L	TW	70(95.2)	1800	464 (47.3)	1400	220 (162)	430
Д-245.16S2	4L	TW	95(129.2)	1800	630 (64.3)	1400	220 (162)	495
Д-245.42S2	4L	TW	55(74.8)	1800	365 (37.2)	1400	220 (162)	430
Д-245.43S2	4L	TW	62(84.3)	1800	411 (41.9)	1400	220 (162)	430
Д-245S3A	4L	TW	81(110.2)	2200	440 (44.9)	1600	240 (176.5)	430
Д-245.2S2	4L	TW	90(122.4)	2200	501 (51)	1600	245 (180)	450
Д-245.5S3A	4L	TW	70(95.2)	1800	464 (47.3)	1400	220 (162)	430
Д-245.43S3A	4L	TW	62(84.3)	1800	411 (41.9)	1400	220 (162)	430
6-CYLINDER TURBOCHARGED DIESEL ENGINES WITH SUPERCHARGING AIR INTERCOOLING								
Д-260.1	6L	T	114 (155)	2100	622 (63.5)	1400	220 (162)	650
Д-260.2	6L	T	96 (130)	2100	500 (51.0)	1400	226 (166)	650
Д-260.4	6L	TW	154 (210)	2100	808 (82.3)	1500	220 (162)	700
Д-260.7	6L	TW	184 (250)	2100	961 (98.1)	1500	217 (160)	750
Д-260.8	6L	T	75 (102)	1800	497 (50.6)	1500	220 (162)	650
Д-260.9	6L	TW	132(179.5)	2100	690(70.4)	1500	220 (162)	650
Д-260.14	6L	TW	103 (140)	1800	682 (69.6)	1300-1450	220 (162)	600
Д-260.1С	6L	T	116 (157.7)	2100	615 (62.7)	1400	238 (175)	650
Д-260.2С	6L	T	98 (133.3)	2100	529 (53.9)	1400	235 (173)	650
Д-260.4С	6L	TW	156(212)	2100	807 (82.3)	1500	220 (162)	700
Д-260.7С	6L	TW	186(253)	2100	965 (98.4)	1500	220 (162)	700
Д-260.9С	6L	TW	132(179.5)	2100	690 (70.4)	1500	220 (162)	650
Д-260.14С	6L	TW	103 (140)	1800	682 (69.6)	1400	235 (173)	600
Д-260.1S2	6L	TW	116 (157.7)	2100	659 (67.2)	1500	220 (162)	600
Д-260.2S2	6L	TW	100 (136)	2100	568 (58)	1500	226 (166)	600
Д-260.4S2	6L	TW	156 (212)	2100	922 (94)	1500	220 (162)	650
Д-260.7S2	6L	TW	186(253)	2100	1100 (112)	1500	217 (160)	700
Д-260.9S2	6L	TW	132(179.5)	2100	780 (79.6)	1400	220 (162)	600
Д-260.14S2	6L	TW	103 (140)	1800	710 (72.5)	1400	245 (180)	600
Д-260.1S3A	6L	TW	116(157.7)	2100	660 (67.3)	1500	240 (176)	600
Д-260.2S3A	6L	TW	100 (136)	2100	570 (58)	1500	240 (176)	600
Д-260.4S3A	6L	TW	156 (212)	2100	923 (94)	1500	240 (176)	650

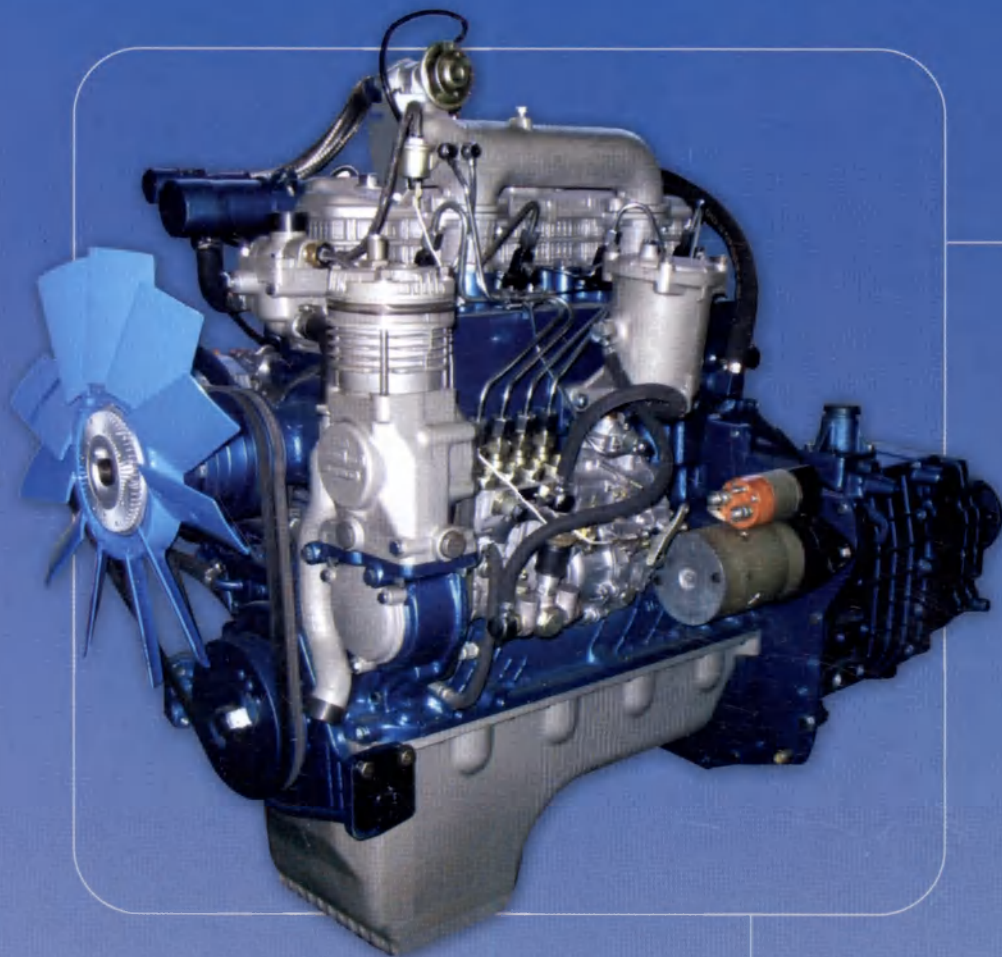
L IN LINE, VERTICAL
 NA NATURAL ASPIRATION
 T TURBOCHARGED
 TW TURBOCHARGED WITH SUPERCHARGING
 AIR INTERCOOLING
 BORE AND STROKE 110x125 mm

ENGINES HAVE BEEN CERTIFIED FOR
 CONFORMITY TO ECOLOGICAL STANDARDS:
 MARKED
 C – TIER 1
 S2, C2 – TIER 2
 S3, S3A – STAGE 3A



MINSK MOTOR PLANT

**BASIC SPECIFICATION OF THE DIESEL ENGINES MANUFACTURED BY THE OJSC «MMP»
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MODEL	NUMBER AND ARRANGEMENT OF CYLINDERS	TYPE OF GAS EXCHANGE SYSTEM	RATED POWER, kW (HP)	RATED SPEED, RPM	MAX. TORQUE, Nm (kgf·m)	SPEED OF MAX. TORQUE, RPM	BRAKE SPECIFIC FUEL CONSUMPTION, g/kW·h (g/HP·h)	MASS, KG
4-CYLINDER NATURALLY ASPIRATED DIESEL ENGINES								
Д-245.7*	4L	TW	90 (122.4)	2400	423 (43)	1300	215 (158)	530
Д-245.9*	4L	TW	100 (136)	2400	460 (47)	1300	215 (158)	430
Д-245.12C	4L	T	80 (108.8)	2400	353 (36)	1300-1700	218 (160.3)	430
Д-245.7E2	4L	TW	90 (122.4)	2400	422 (43.1)	1500	210 (154)	600...640
Д-245.9E2	4L	TW	100 (136)	2400	446 (45.5)	1500	210 (154)	500...540
Д-245.11E2	4L	TW	80 (108.8)	2400	355 (36.2)	1500	210 (154)	500
Д-245.30E2	4L	TW	115 (156.4)	2400	526 (53.7)	1600	210 (154)	500...540
Д-245.7E3	4L	TW	90 (122.4)	2400	420 (43)	1400	210 (154)	500
Д-245.9E3	4L	TW	100 (136)	2400	460 (46.9)	1400	210 (154)	500
Д-245.30E3	4L	TW	115 (156)	2400	575 (58.7)	1500	210 (154)	450
Д-245.35E3	4L	TW	125 (170)	2400	595 (60.7)	1500	200 (147)	500
4-CYLINDER TURBOCHARGED DIESEL ENGINES WITH SUPERCHARGING AIR INTERCOOLING								
Д-260.11*	6L	TW	136 (185)	2100	745 (76)	1500	210 (154)	750
Д-260.13*	6L	TW	150 (204)	2100	768 (78.4)	1300-1575	210 (154)	750
Д-260.5E2	6L	TW	169 (230)	2100	890 (90.8)	1500	205 (151)	750
Д-260.11E2	6L	TW	136 (185)	2100	720 (73.5)	1400	205 (151)	750
Д-260.12E2	6L	TW	184 (250)	2100	970 (99)	1500	205 (151)	750
Д-260.13E2	6L	TW	150 (204)	2100	790 (80.6)	1500	205 (151)	750
Д-260.5E3	6L	TW	169 (230)	2100	899 (91.7)	1500	205 (151)	750
Д-260.11E3	6L	TW	136 (185)	2100	708 (72.2)	1400	205 (151)	750
Д-260.12E3	6L	TW	184 (250)	2100	1045 (106.6)	1400	210 (154)	730
6-CYLINDER TURBOCHARGED DIESEL ENGINES WITH SUPERCHARGING AIR INTERCOOLING								
BORE AND STROKE – 110x140 MM								
Д-262S2	6L	TW	220.5(300)	2100	1320 (134.7)	1500	230 (169)	750...950
Д-262.1S2	6L	TW	206 (280)	2100	1233 (130.9)	1500	230 (169)	750...950
Д-262.2S2	6L	TW	184 (250)	2100	1130 (115.3)	1500	230 (169)	750...950
Д-262E3	6L	TW	220.5 (300)	2100	1250 (127.4)	1500	225 (165)	850
BORE AND STROKE – 115x140 MM								
Д-263S2	6L	TW	220.5(300)	2100	1254 (128)	1500	210 (154)	750...950
Д-263.2S2	6L	TW	206 (280)	2100	1171 (119.5)	1500	240 (176)	750...950
Д-263.3S3	6L	TW	184 (250)	2100	1046 (106.7)	1500	240 (176)	750...950
Д-263.1E3	6L	TW	257 (350)	2100	1667 (170)	1400	190 (140)	750

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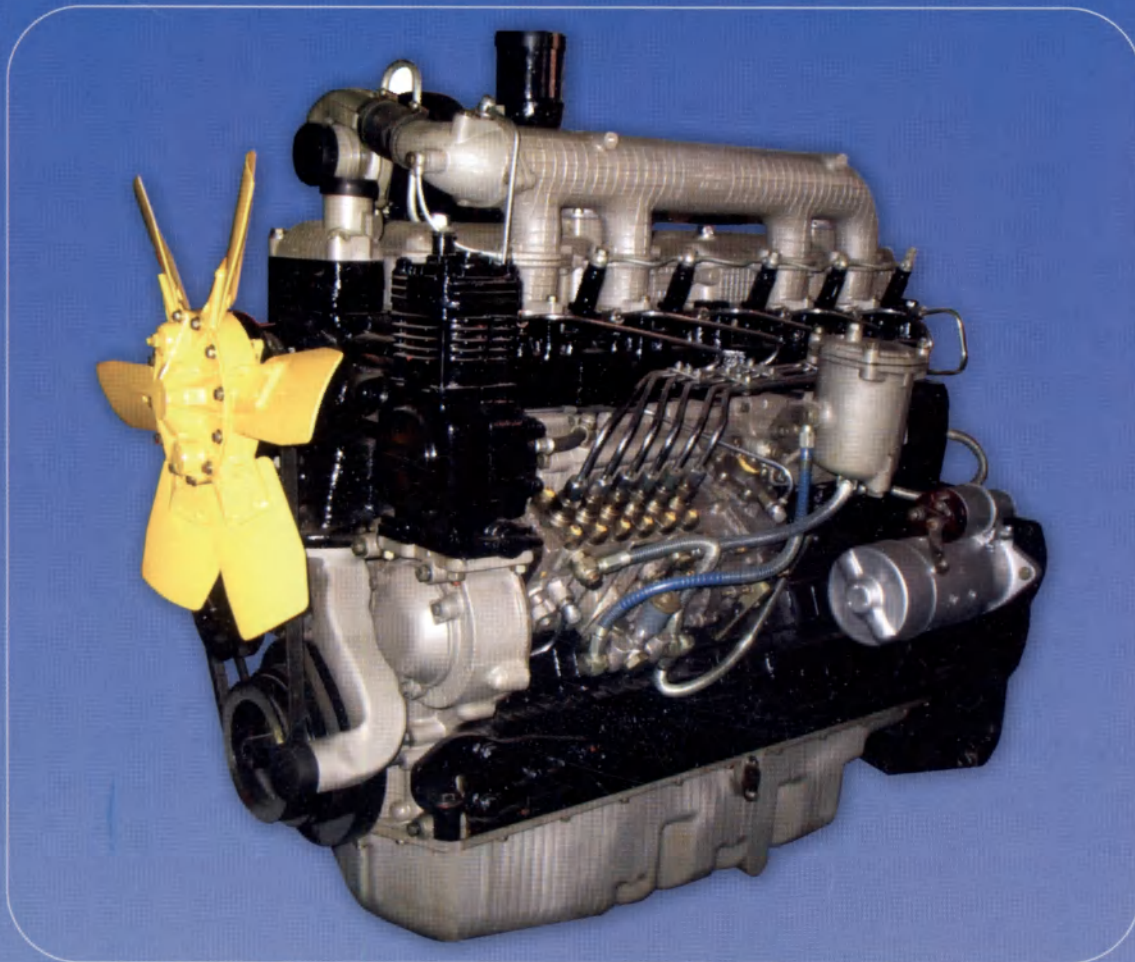
ENGINES HAVE BEEN CERTIFIED FOR CONFORMITY TO ECOLOGICAL STANDARDS:

MARKED – EURO 0 Standart
* and **C** – EURO 1 – Standart
S2, E2 – EURO 2 – Standart
S3, E3 – EURO 3 – Standart



MINSK MOTOR PLANT

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e-mail: oves1@po-mmz.minsk.by

e-mail: oves2@po-mmz.minsk.by

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**BASIC SPECIFICATION OF THE DIESEL ENGINES MANUFACTURED BY THE OJSC «MMP»
FOR POWER GENERATION SET, WATER PUMPS ETC.**

PARAMETER	DATE OF DIESEL ENGINES MODIFICATIONS							
	Д-246.1	Д-246.2	Д-246.3	Д-246.4	Д-266.1	Д-266.2	Д-266.3	Д-266.4
RATED POWER ENGINE, kW	42 ^{+3.7}	54 ^{+3.7}	65 ^{+3.7}	77 ^{+3.7}	80 ^{+3.7}	95 ^{+3.7}	115 ^{+3.7}	127 ^{+3.7}
RATED POWER GEN, kW	30	40	50	60	60	75	90	100
RATED SPEED, RPM	1500	1500	1500	1500	1500	1500	1500	1500
BRAKE SPECIFIC FUEL CONSUMPTION, g/kW-h	220	212	210	210	212	212	208	208
TYPE OF ASPIRATION SYSTEM	NA	T	TW	TW	TW	TW	TW	TW
FUEL PUMP MODEL	4УТНН OR 776 OR 776Э OR 776Э2		776-01 OR 776-01Э OR 776-01Э2		366 OR 366Э OR 366Э2		366-01 o R 366-01Э o R 366-01Э2	
DIMENSIONS, MM (LENGTH) (WIDTH) (HEIGHT)	993,5 676 1223		993,5 683,5 1223		965,5 679 958		1282,5 711 1154	
MASS, KG	450	460	460	460	506	650	650	650

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BORE AND STROKE 110x125 mm

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