

JCB ENERGY ELECTRIC POWER INDUSTRY

📍 MADRID / SPAIN



GRUP		JCC 28	JCC 38	JCC 115	JCC 155
Stand By Güç	kVA (kW) A	28,0 [22,4] 40,5	38,0 [30,4] 54,9	115,0 [92,0] 166,2	155,0 [124,0] 224,0
Prime Güç	kVA (kW) A	25,5 [20,4] 36,8	34,5 [27,6] 49,9	104,5 [83,6] 151,1	140,9 [112,7] 203,6
Sürekli Güç	kVA (kW) A	17,8 [14,3] 25,7	24,2 [19,3] 34,9	73,2 [58,5] 105,8	98,6 [78,9] 142,5
Güç Faktör	CosQ	0,8	0,8	0,8	0,8
Frekans	Hz	50	50	50	50
Motor					
Marka		CUMMINS	CUMMINS	CUMMINS	CUMMINS
Model		X2.5G2	X3.3G1	X3.3G1	S3.8G7
Devir	(d/dk)	1500	1500	1500	1500
Brüt Motor Gücü	(kW)	27,0	36,0	102,0	145,0
Net Motor Gücü	(kW)	26,0	35,1	98,0	141,0
Silindir Sayısı		3	4	6	6
Konfigürasyon		Düz Sıralı	Düz Sıralı	Düz Sıralı	Düz Sıralı
Emisyon Sınıfı		Düzenlenmemiş	Düzenlenmemiş	Düzenlenmemiş	Düzenlenmemiş
Aspirasyon		Doğal	Doğal	Turbo & AC	Turbo & AC
Governör Tipi		Mekanik/Elektronik	Mekanik/Elektronik	Elektronik	Elektronik
Silindir Hacmi	[L]	2,5	3,3	5,9	5,9
Bore ve Stroke	[mm]	91,7 x 127	91,4 x 127	102 x 120	102 x 120
Sıkıştırma Oranı		18.5:1	18.5:1	17.6:1	16.5:1
Voltaj	[V]	12	12	12	12
Yakıt Sarfiyatı Prime - %50		3,1	4,2	11,8	16,9
Yakıt Sarfiyatı Prime - % 75		4,7	6,3	17,6	25,4
Yakıt Sarfiyatı Prime - % 100		5,7	7,7	21,4	30,8
Yakıt Sarfiyatı Standby - %110		6,2	8,4	23,5	33,8
Yakıt Tankı Kapasitesi	[lt]	58 [40]	58 [40]	161 [205]	190 [376]
ALTERNATÖR					
Marka		JCB ENERGY	JCB ENERGY	JCB ENERGY	JCB ENERGY
Çıkış Gücü	400 V-kVA	27	35	109	141
Aşırı Devir Sayısı		2250	2250	2250	2250
Yalıtım Sınıfı		H	H	H	H
Koruma Sınıfı		IP-23	IP-23	IP-23	IP-23
Voltaj		231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V
Voltaj Regülasyonu		±1	±1	±1	±1
ÖLÇÜLER					
En, Açık [Kabinli]	[mm]	619 [942]	619 [942]	700 [1042]	800 [1153]
Boy, Açık [Kabinli]	[mm]	1400 [1916]	1400 [1916]	1900 [2615]	2150 [2971]
Yükseklik, Açık [Kabinli]	[mm]	1329 [1444]	1329 [1444]	1562 [1766]	1549[2027]
Ağırlık, Açık [Kabinli]	[kg]	557 [710]	585 [740]	1067 [1240]	1217 [1620]

GRUP		JCC 175	JCC 235	JCC 300	JCC 330
Stand By Güç	kVA (kW) A	175,0 [140,0] 252,9	235,0 [188,0] 339,6	300,0 [240,0] 433,5	330,0 [264,0] 476,9
Prime Güç	kVA (kW) A	159,1 [127,3] 229,9	213,6 [170,9] 308,7	272,7 [218,2] 394,1	300,0 [240,0] 433,5
Sürekli Güç	kVA (kW) A	111,4 [89,1] 160,9	149,5 [119,6] 216,1	190,9 [152,7] 275,9	210,0 [168,0] 303,5
Güç Faktör	CosQ	0,8	0,8	0,8	0,8
Frekans	Hz	50	50	50	50
Motor					
Marka		CUMMINS	CUMMINS	CUMMINS	CUMMINS
Model		6BTAA5.9G7	QSB7G5	6LTAA.9.5G3	QSL9G5
Devir	(d/dk)	1500	1500	1500	1500
Brüt Motor Gücü	(kW)	160,0	213,0	276,0	310,0
Net Motor Gücü	(kW)	156,0	197,0	260,0	297,0
Silindir Sayısı		6	6	6	6
Konfigürasyon		Düz Sıralı	Düz Sıralı	Düz Sıralı	Düz Sıralı
Emisyon Sınıfı		Belirtilmemiş	Tier 3	Belirtilmemiş	Tier 3
Aspirasyon		Turbo & AC	Turbo & AC	Turbo & AC	Turbo & AC
Governör Tipi		Elektronik	Elektronik	Elektronik	Elektronik
Silindir Hacmi	[L]	5,9	6,69	9,5	8,8
Bore ve Stroke	[mm]	102 x 120	107 x 124	116 x 148	114 x 145
Sıkıştırma Oranı		16,5:1	16,8:1	16,5:1	16,8:1
Voltaj	[V]	12	24	24	24
Yakıt Sarfiyatı Prime - %50		18,7	21,7	28,6	32,7
Yakıt Sarfiyatı Prime - % 75		28,1	32,5	42,9	49,0
Yakıt Sarfiyatı Prime - % 100		34,0	39,4	51,7	59,4
Yakıt Sarfiyatı Standby - %110		37,4	43,3	57,2	65,3
Yakıt Tankı Kapasitesi	[lt]	256 [376]	256 [376]	475 [673]	190 [376]
ALTERNATÖR					
Marka		JCB ENERGY	JCB ENERGY	JCB ENERGY	JCB ENERGY
Çıkış Gücü	400 V-kVA	159,0	214,0	273,0	318,0
Aşırı Devir Sayısı		2250	2250	2250	2250
Yalıtım Sınıfı		H	H	H	H
Koruma Sınıfı		IP-23	IP-23	IP-23	IP-23
Voltaj		231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V
Voltaj Regülasyonu		±1	±1	±1	±1
ÖLÇÜLER					
En, Açık [Kabinli]	[mm]	900 [1153]	900 [1153]	1100 [1179]	1100 [1179]
Boy, Açık [Kabinli]	[mm]	2400 [2971]	2400 [2971]	3095 [3921]	3095 [3921]
Yükseklik, Açık [Kabinli]	[mm]	1549 [2027]	1549 [2027]	1782 [2498]	1782 [2498]
Ağırlık, Açık [Kabinli]	[kg]	1317 [1670]	1450 [1810]	2159 [2600]	2163 [2600]

GRUP		JCC 350	JCC 450	JCC 565	JCC 725
Stand By Güç	kVA (kW) A	350,0 [280,0] 505,8	450,0 [360,0] 650,3	565,0 [452,0] 816,5	725,0 [580,0] 1.047,7
Prime Güç	kVA (kW) A	318,2 [254,5] 459,8	409,1 [327,3] 591,2	513,6 [410,9] 742,2	659,1 [527,3] 952,4
Sürekli Güç	kVA (kW) A	222,7 [178,2] 321,9	286,4 [229,1] 413,8	359,5 [287,6] 519,6	461,4 [369,1] 666,7
Güç Faktör	CosQ	0,8	0,8	0,8	0,8
Frekans	Hz	50	50	50	50
Motor					
Marka		CUMMINS	CUMMINS	CUMMINS	CUMMINS
Model		6LTAA5.9G1	QSG12G2	QSX15G8	VTA28G5
Devir	(d/dk)	1500	1500	1500	1500
Brüt Motor Gücü	(kW)	320,0	407,0	500,0	622,0
Net Motor Gücü	(kW)	300,0	385,0	477,0	606,0
Silindir Sayısı		6	6	6	12
Konfigürasyon		Düz Sıralı	Düz Sıralı	Düz Sıralı	40°Vee
Emisyon Sınıfı		Belirtilmemiş	Belirtilmemiş	Belirtilmemiş	Belirtilmemiş
Aspirasyon		Turbo & AC	Turbo & AC	Turbo & AC	Turbo & AC
Governör Tipi		Elektronik	Elektronik	Elektronik	Elektronik
Silindir Hacmi	[L]	9,5	15	15	28
Bore ve Stroke	[mm]	116 x 148	137 x 169	137 x 169	140 x 152
Sıkıştırma Oranı		16.5:1	17:1	17:1	13.1:1
Voltaj	[V]	24	24	24	24
Yakıt Sarfiyatı Prime - %50		33,0	42,4	52,5	60,6
Yakıt Sarfiyatı Prime - % 75		49,5	63,5	78,7	90,9
Yakıt Sarfiyatı Prime - % 100		60,0	77,0	95,4	110,2
Yakıt Sarfiyatı Standby - %110		66,0	84,7	104,9	121,2
Yakıt Tankı Kapasitesi	[lt]	475 [673]	475 [673]	475 [673]	673 [400]
ALTERNATÖR					
Marka		JCB ENERGY	JCB ENERGY	JCB ENERGY	JCB ENERGY
Çıkış Gücü	400 V-kVA	318,0	409,0	514,0	659,0
Aşırı Devir Sayısı		2250	2250	2250	2250
Yalıtım Sınıfı		H	H	H	H
Koruma Sınıfı		IP-23	IP-23	IP-23	IP-23
Voltaj		231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V
Voltaj Regülasyonu		±1	±1	±1	±1
ÖLÇÜLER					
En, Açık [Kabinli]	[mm]	1100 [1179]	1100 [1179]	1100 [1179]	1200 [1646]
Boy, Açık [Kabinli]	[mm]	3095 [3921]	3254 [3921]	3254 [3921]	3383 [4632]
Yükseklik, Açık [Kabinli]	[mm]	1782 [2498]	1782 [2498]	1782 [2498]	1953 [2641]
Ağırlık, Açık [Kabinli]	[kg]	2163 [2600]	2353 [2790]	2379 [2970]	2931 [3790]

GRUP		JCC 825	JCC 900	JCC 1100	JCC 1130
Stand By Güç	kVA (kW) A	825,0 [660,0] 1.192,2	900,0 [720,0] 1.300,6	1.100,0 [880,0] 1.589,6	1.130,0 [904,0] 1.632,9
Prime Güç	kVA (kW) A	750,0 [600,0] 1.083,8	818,2 [654,5] 1.182,3	1.000,0 [800,0] 1.445,1	1.027,3 [821,8] 1.484,5
Sürekli Güç	kVA (kW) A	525,0 [420,0] 758,7	527,7 [458,2] 827,6	700,0 [560,0] 1.011,6	719,1 [575,3] 1.039,1
Güç Faktör	CosQ	0,8	0,8	0,8	0,8
Frekans	Hz	50	50	50	50
Motor					
Marka		CUMMINS	CUMMINS	CUMMINS	CUMMINS
Model		VTA28G6	QSK23G3	QSXT30G4	KTA38G5
Devir	(RPM)	1500	1500	1500	1500
Brüt Motor Gücü	(kW)	733,0	768,0	970,0	970,0
Net Motor Gücü	(kW)	705,0	746,0	929,0	940,0
Silindir Sayısı		12	6	12	12
Konfigürasyon		40°Vee	Düz Sıralı	50°Vee	60°Vee
Emisyon Sınıfı		Belirtilmemiş	Belirtilmemiş	Belirtilmemiş	Belirtilmemiş
Aspirasyon		Turbo & AC	Turbo & AC	Turbo & AC	Turbo & AC
Governör Tipi		Elektronik	Elektronik	Elektronik	Elektronik
Silindir Hacmi	[L]	28	23,15	30,48	37,8
Bore ve Stroke	[mm]	140 x 152	170 x 170	140 x 165	159 x 159
Sıkıştırma Oranı		13.1:1	17:1	14:1	13.9:1
Voltaj	[V]	24	24	24	24
Yakıt Sarfiyatı Prime - %50		70,5	74,6	92,9	94,0
Yakıt Sarfiyatı Prime - % 75		105,8	111,9	139,4	141,0
Yakıt Sarfiyatı Prime - % 100		128,2	135,6	168,9	170,9
Yakıt Sarfiyatı Standby - %110		141,0	149,2	185,8	188,0
Yakıt Tankı Kapasitesi	[lt]	1193 [530]	1193 [530]	1193 [530]	1193 [530]
ALTERNATÖR					
Marka		JCB ENERGY	JCB ENERGY	JCB ENERGY	JCB ENERGY
Çıkış Gücü	400 V-kVA	750,0	850,0	1000,0	1000,0
Aşırı Devir Sayısı		2250	2250	2250	2250
Yalıtım Sınıfı		H	H	H	H
Koruma Sınıfı		IP-23	IP-23	IP-23	IP-23
Voltaj		231 / 400 V	231 / 400 V	231 / 400 V	231 / 400 V
Voltaj Regülasyonu		±1	±1	±1	±1
ÖLÇÜLER					
En, Açık [Kabinli]	[mm]	1400 [1942]	1400 [1942]	1400 [1942]	1400 [1942]
Boy, Açık [Kabinli]	[mm]	4000 [5166]	4000 [5166]	4000 [5166]	4000 [5166]
Yükseklik, Açık [Kabinli]	[mm]	2188 [2920]	2188 [2920]	2188 [2920]	2188 [2920]
Ağırlık, Açık [Kabinli]	[kg]	4240 [5530]	4358 [5650]	4667 [5960]	4667 [5960]

GRUP		JCC 1400	JCC 1650	JCC 2250
Stand By Güç	kVA (kW) A	1.400,0 [1.120,0] 2.023,1	1.650,0 [1.320,0] 2.384,4	2.250,0 [1.800,0] 3.251,4
Prime Güç	kVA (kW) A	1.272,7 [1.018,2] 1.839,2	1.500,0 [1.200,0] 2.167,6	2.045,4 [1.636,4] 2.955,9
Sürekli Güç	kVA (kW) A	890,9 [712,7] 1.287,4	1.050,0 [840,0] 1.517,3	1.431,8 [1.145,5] 2.069,1
Güç Faktör	CosQ	0,8	0,8	0,8
Frekans	Hz	50	50	50
Motor				
Marka		CUMMINS	CUMMINS	CUMMINS
Model		KTA50G3	KTA50G8	QSK60G4
Devir	(d/dk)	1500	1500	1500
Brüt Motor Gücü	(kW)	1227,0	1429,0	1915,0
Net Motor Gücü	(kW)	1192,0	1387,0	1861,0
Silindir Sayısı		16	16	16
Konfigürasyon		60°Vee	60°Vee	60°Vee
Emisyon Sınıfı		Belirtilmemiş	Belirtilmemiş	Belirtilmemiş
Aspirasyon		Turbo & AC	Turbo & AC	Turbo & AC
Governör Tipi		Elektronik	Elektronik	Elektronik
Silindir Hacmi	[L]	50,3	50,3	60,2
Bore ve Stroke	[mm]	159 x 159	159 x 159	159 x 190
Sıkıştırma Oranı		13.9:1	14.9:1	14.5:1
Voltaj	[V]	24	24	24
Yakıt Sarfiyatı Prime - %50		119,2	138,7	186,1
Yakıt Sarfiyatı Prime - % 75		178,8	208,1	279,2
Yakıt Sarfiyatı Prime - % 100		216,7	252,2	338,4
Yakıt Sarfiyatı Standby- %100		238,4	277,4	372,2
Yakıt Tankı Kapasitesi	[lt]	2250 [2250]	2500 [2500]	3500 [3500]
ALTERNATÖR				
Marka		JCB ENERGY	JCB ENERGY	JCB ENERGY
Çıkış Gücü	400 V-kVA	1273,0	1500,0	2045,0
Aşırı Devir Sayısı		2250	2250	2250
Yalıtım Sınıfı		H	H	H
Koruma Sınıfı		IP-23	IP-23	IP-23
Voltaj		231 / 400 V	231 / 400 V	231 / 400 V
Voltaj Regülasyonu		±1	±1	±0,5
ÖLÇÜLER				
En, Açık [Kabinli]	[mm]	2000 [2390]	2465 [2418]	2600 [2800]
Boy, Açık [Kabinli]	[mm]	4500 [6769]	4500 [7885]	5700 [9000]
Yükseklik, Açık [Kabinli]	[mm]	2310 [3156]	2463 [3308]	2643 [2900]
Ağırlık, Açık [Kabinli]	[kg]	7120 [11500]	7540 [11870]	13570 [18590]

GRUP		JCC 28M	JCC 38M
Stand By Güç	kVA (kWe) A	28,0 [22,4] 121,7	38,0 [30,4] 165,2
Prime Güç	kVA (kWe) A	25,5 [20,4] 110,7	34,5 [27,6] 150,2
Sürekli Güç	kVA (kWe) A	20,4 [16,3] 88,5	27,6 [22,1] 120,2
Güç Faktör	CosQ	0,8	0,8
Frekans	Hz	50	50

MOTOR

Marka		CUMMINS	CUMMINS
Model		X2.5G2	X3.3G1
Devir	(RPM)	1500	1500
Brüt Motor Gücü	(kW)	27,0	36,0
Net Motor Gücü	(kW)	26,0	35,1
Silindir Sayısı		3	4
Konfigürasyon		Dikey, sıralı	Dikey, sıralı
Emisyon Sınıfı		Belirtilmemiş	Belirtilmemiş
Aspirasyon		Doğal	Doğal
Governör Tipi		Mekanik/Elektronik	Mekanik/Elektronik
Silindir Hacmi	[L]	2,5	3,3
Bore ve Stroke	[mm]	91,7 x 127	91,4 x 127
Sıkıştırma Oranı		18,5:1	18,5:1
Voltaj	[V]	12	12
Yakıt Sarfiyatı Prime - %50	[L/h]	3,23	4,32
Yakıt Sarfiyatı Prime - % 75	[L/h]	4,66	6,22
Yakıt Sarfiyatı Prime - % 100	[L/h]	6,13	8,18
Yakıt Sarfiyatı Standby- %100	[L/h]	6,94	9,25
Yakıt Tankı Kapasitesi	[lt]	58 [40]	58 [40]

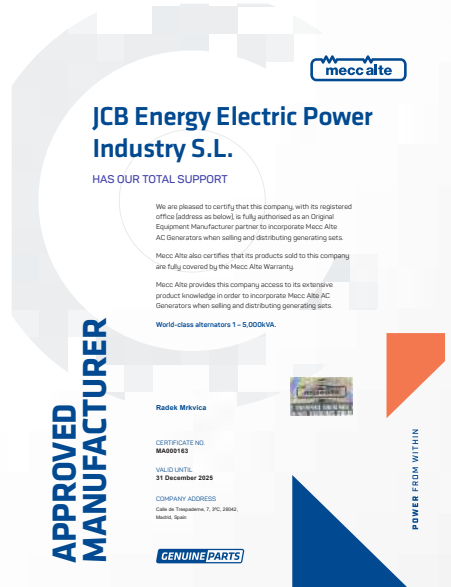
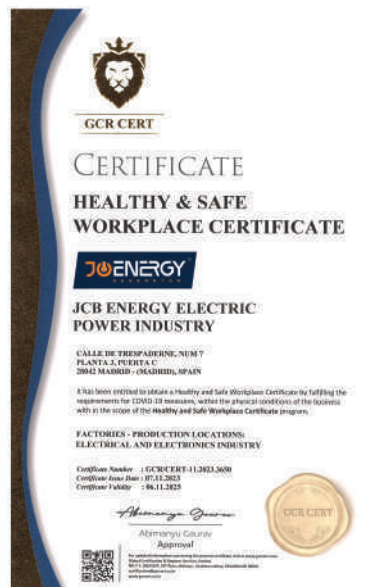
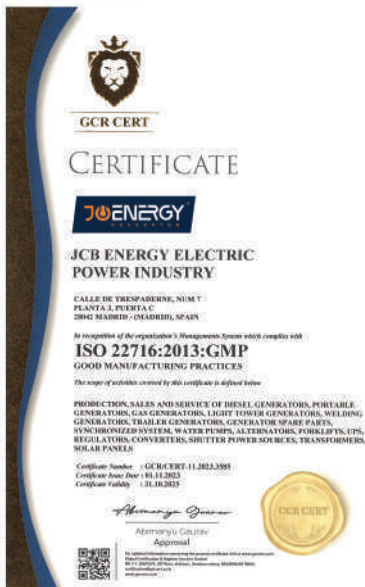
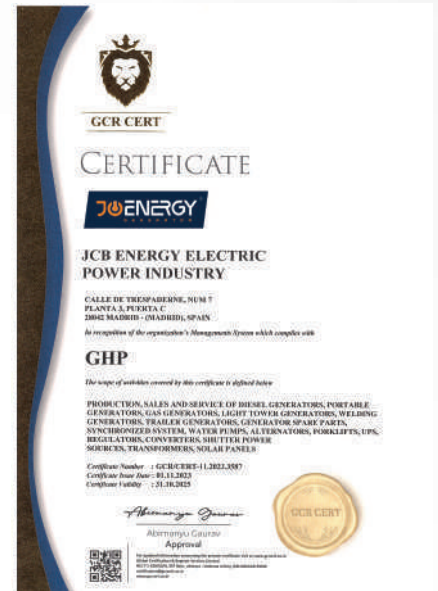
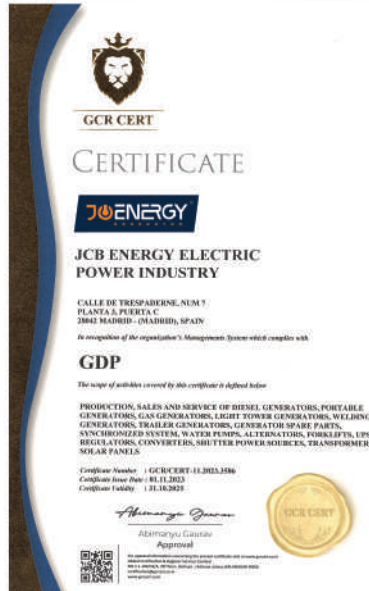
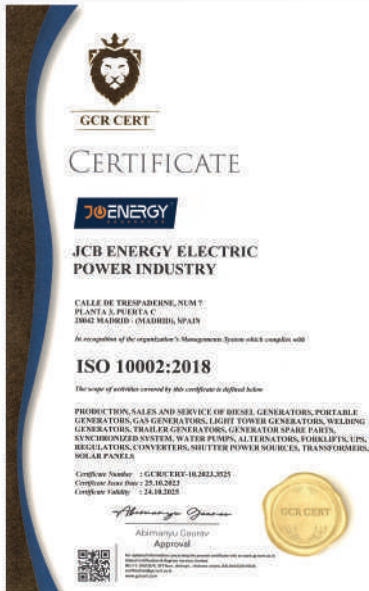
ALTERNATÖR

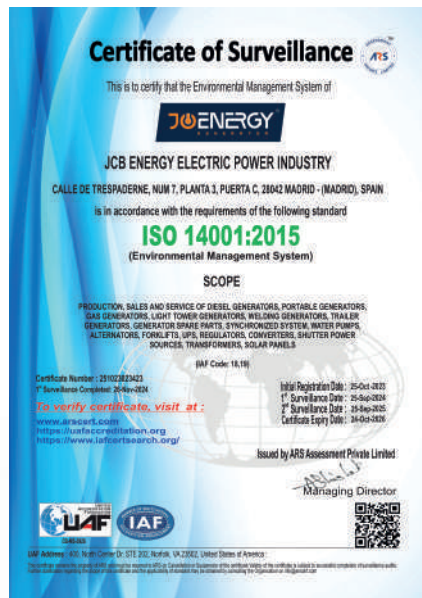
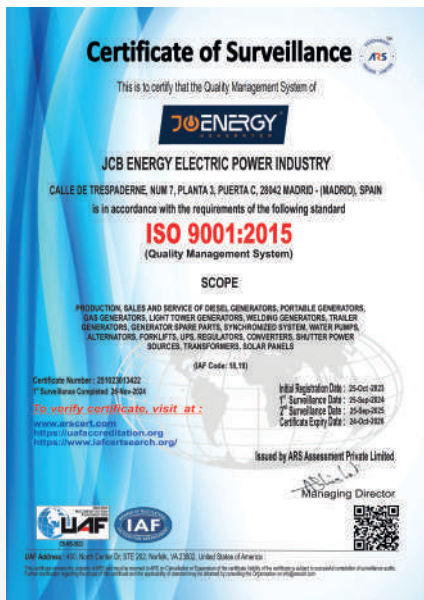
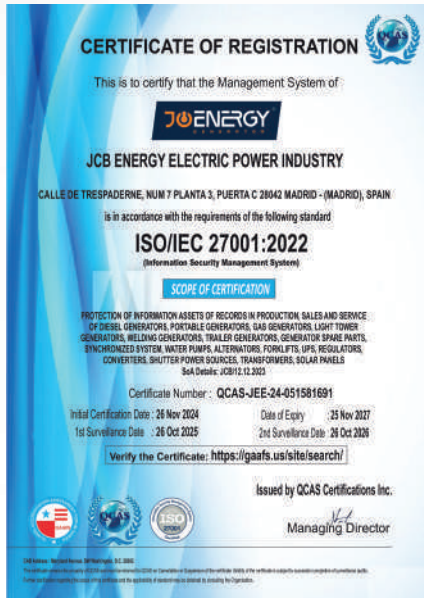
Marka		JCB ENERGY	JCB ENERGY
Çıkış Gücü	400 V-kVA	40,0	55,0
Aşırı Devir Sayısı	rpm	2250	2250
Yalıtım Sınıfı		H	H
Koruma Sınıfı		IP-23	IP-23
Voltaj		230 V	230 V
Voltaj Regülasyonu		±1	±1

ÖLÇÜLER

En, Açık [Kabinli]	[mm]	619 [942]	619 [942]
Boy, Açık [Kabinli]	[mm]	1400 [1916]	1400 [1916]
Yükseklik, Açık [Kabinli]	[mm]	1329 [1444]	1329 [1444]
Ağırlık, Açık [Kabinli]	[kg]	557 [710]	585 [740]

SERTİFİKALARIMIZ





MANAGEMENT SYSTEM CERTIFICATE

Certificate no.: 2372384

Valid until: 14 August 2021

Valid from: 14 October 2020 - 13 October 2021

This is to certify that the management system of **HD Hyundai Infracore Co., Ltd. Head Office & Incheon Plant** 489, Injung-ro, Dong-gu, Incheon, 22502, Republic of Korea and the sites as mentioned in the appendix accompanying this certificate has been found to conform to the Environmental Management System standard: **ISO 14001:2015**

This certificate is valid for the following scope: **Design, Development, Manufacture, Servicing of Internal Combustion Engine for use in Marine Industry, General Industry and Automotive Industry, and Earth Moving Equipment (Excavator, Wheel Loader, Dozer), Testing of Earth Moving Equipment (Excavator and Wheel Loader).**

Place and date: **Buenos Aires, 09 October 2021**

For the issuing office: **DNV Business Assurance** **DNV AS, Strandveien 69, NO-1300 Sandnessjøen, Norway**

Signature:

Signature:

Signature:

Signature:

Signature:

Signature:

Signature:

MANAGEMENT SYSTEM CERTIFICATE

Certificate no.: 2372385

Valid until: 13 January 2022

Valid from: 14 October 2020 - 13 October 2021

This is to certify that the management system of **HD Hyundai Infracore Co., Ltd. Head Office & Incheon Plant** 489, Injung-ro, Dong-gu, Incheon, 22502, Republic of Korea and the sites as mentioned in the appendix accompanying this certificate has been found to conform to the Occupational Health and Safety Management System standard: **ISO 45001:2018**

This certificate is valid for the following scope: **Design, Development, Manufacture, Servicing of Internal Combustion Engine for use in Marine Industry, General Industry and Automotive Industry, and Earth Moving Equipment (Excavator, Wheel Loader, Dozer), Testing of Earth Moving Equipment (Excavator and Wheel Loader).**

Place and date: **Buenos Aires, 09 October 2021**

For the issuing office: **DNV Business Assurance** **DNV AS, Strandveien 69, NO-1300 Sandnessjøen, Norway**

Signature:

Signature:

Signature:

Signature:

Signature:

Signature:

Signature:

MANAGEMENT SYSTEM CERTIFICATE

Certificate no.: 2372386

Valid until: 13 January 2022

Valid from: 14 October 2020 - 13 October 2021

This is to certify that the management system of **HD Hyundai Infracore Co., Ltd. Head Office & Incheon Plant** 489, Injung-ro, Dong-gu, Incheon, 22502, Republic of Korea and the sites as mentioned in the appendix accompanying this certificate has been found to conform to the Occupational Health and Safety Management System standard: **ISO 45001:2018**

This certificate is valid for the following scope: **Design, Development, Manufacture, Servicing of Internal Combustion Engine for use in Marine Industry, General Industry and Automotive Industry, and Earth Moving Equipment (Excavator, Wheel Loader, Dozer), Testing of Earth Moving Equipment (Excavator and Wheel Loader).**

Place and date: **Buenos Aires, 09 October 2021**

For the issuing office: **DNV Business Assurance** **DNV AS, Strandveien 69, NO-1300 Sandnessjøen, Norway**

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MANAGEMENT SYSTEM CERTIFICATE

Certificate no.: 2372387

Valid until: 14 August 2021

Valid from: 14 October 2020 - 13 October 2021

This is to certify that the management system of **HD Hyundai Infracore Co., Ltd. Head Office & Incheon Plant** 489, Injung-ro, Dong-gu, Incheon, 22502, Republic of Korea and the sites as mentioned in the appendix accompanying this certificate has been found to conform to the Occupational Health and Safety Management System standard: **ISO 45001:2018**

This certificate is valid for the following scope: **Design, Development, Manufacture, Servicing of Internal Combustion Engine for use in Marine Industry, General Industry and Automotive Industry, and Earth Moving Equipment (Excavator, Wheel Loader, Dozer), Testing of Earth Moving Equipment (Excavator and Wheel Loader).**

Place and date: **Buenos Aires, 09 October 2021**

For the issuing office: **DNV Business Assurance** **DNV AS, Strandveien 69, NO-1300 Sandnessjøen, Norway**

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CE DECLARATION OF CONFORMITY

Certificate no.: 2372388

Valid until: 14 August 2021

Valid from: 14 October 2020 - 13 October 2021

This is to certify that the management system of **HD Hyundai Infracore Co., Ltd. Head Office & Incheon Plant** 489, Injung-ro, Dong-gu, Incheon, 22502, Republic of Korea and the sites as mentioned in the appendix accompanying this certificate has been found to conform to the Occupational Health and Safety Management System standard: **ISO 45001:2018**

This certificate is valid for the following scope: **Design, Development, Manufacture, Servicing of Internal Combustion Engine for use in Marine Industry, General Industry and Automotive Industry, and Earth Moving Equipment (Excavator, Wheel Loader, Dozer), Testing of Earth Moving Equipment (Excavator and Wheel Loader).**

Place and date: **Buenos Aires, 09 October 2021**

For the issuing office: **DNV Business Assurance** **DNV AS, Strandveien 69, NO-1300 Sandnessjøen, Norway**

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CE DECLARATION OF CONFORMITY

Certificate no.: 2372389

Valid until: 14 August 2021

Valid from: 14 October 2020 - 13 October 2021

This is to certify that the management system of **HD Hyundai Infracore Co., Ltd. Head Office & Incheon Plant** 489, Injung-ro, Dong-gu, Incheon, 22502, Republic of Korea and the sites as mentioned in the appendix accompanying this certificate has been found to conform to the Occupational Health and Safety Management System standard: **ISO 45001:2018**

This certificate is valid for the following scope: **Design, Development, Manufacture, Servicing of Internal Combustion Engine for use in Marine Industry, General Industry and Automotive Industry, and Earth Moving Equipment (Excavator, Wheel Loader, Dozer), Testing of Earth Moving Equipment (Excavator and Wheel Loader).**

Place and date: **Buenos Aires, 09 October 2021**

For the issuing office: **DNV Business Assurance** **DNV AS, Strandveien 69, NO-1300 Sandnessjøen, Norway**

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