2011 POWER GUIDE

Bollinger Marine Fabricators loads the first set of Cat C280-12 Tier 2 main engines, supplied by NC Power, into the first of four Ocean-class tugs for Crowley Maritime.

Bollinger Shipyards Inc.

By Ken Hocke, Senior Editor

When choosing which engines to outfit their new vessels with, workboat owners must consider future environmental standards.

Crowley Maritime, for example, is having four new Ocean-class tugs built at **Bollinger Marine Fabricators**. The new tugs' **Caterpillar** C280-12 diesels are Tier 2 compliant but can be upgraded to Tier 3 and even Tier 4, as necessary. "We are continuing to make the investments necessary to address the needs of our customers who are looking for best-in-class, modern and environmentally friendly equipment," Crowley Maritime's chairman, president and CEO Tom Crowley Jr. said during a presentation ceremony for the new class of tug at Bollinger headquarters in Lockport, La.

Caterpillar Marine Power Systems recently announced that its popular Cat 3500C marine engines will enter full production meeting EPA Tier 3 regulations beginning in January 2012. The Cat 3500C Tier 3 compliant line will include propulsion, auxiliary and diesel-electric propulsion engines.

Western Towboat installed 3516C EPA Tier 3 engines on the *Ocean Titan*, a 120' Z-drive tug, and have been pleased with the performance, according to Bob Shrewsbury, co-owner of the Seattle-based company.

Volvo Penta is retiring its D12 line of engines at the end of this year, according to Rick Herny, the company's marine commercial product manager.

"The D12 engines are going out of production after a very long and successful life cycle and the new D13 is now in production," he said.

CATERPILLAR MARINE POWER SYSTEMS

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Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.) L	W	H	Weight (lbs.)	High Output hp	rpm	Medium Duty hp	rpm	Continuous Duty hp	rpm
Cat 3056	6	365	3.94x5.0	—	42.05	30.6	31.5	1,312	—		185 @ 2,100		—	
									—		205 @ 2,500		—	
Cat C7 TA	6	442	4.33x5.0	—	48.1	36.2	36.1	1,760	—		275 @ 2,400		250 @ 2,400	
									370 @2,600		315 @ 2,400		—	
Cat C7 (ACERT)	6	442	4.33x5.0	—	48.1	36.2	36.1	1,760	455 @ 2,800		—		—	
Cat C9	6	538	4.41x5.87	—	47.2	38.3	38.7	2,086	503 @ 2,500		—		—	
(ACERT TA)									567 @ 2,500		—		—	
Cat C12 TA	12	732	5.1x5.9	—	62	38.1	39.5	2,588	570 @ 2,300		385 @ 1,800		340 @ 1,800	
									600 @ 2,300		454 @ 2,100		—	
											490 @ 2,300			
Cat C12	6	732	5.1x5.9	—	62	38.1	39.5	2,588	660 @ 2,300		—		—	
(ACERT) TA									705 @ 2,300		—		—	
Cat C15	6	—	—	—	—	—	—	3,226	800 @ 2,300		—		—	
(ACERT) TA									853 @ 2,300		—		—	
Cat C18 TA	6	1,106	5.7x7.2	—	61.3	41.6	46.4	3,700-	873 @ 2,200		479 @ 1,800		340 @ 1,800	
								4,200	1,001 @ 2,300		385 @ 1,800		454 @ 1,800	
									—		553 @ 2,100		587 @ 1,800	
									—		600 @ 1,800		—	
									—		671 @ 2,100		—	
									—		715 @ 2,100		—	
Cat C18	6	1,106	5.7x7.2	—	59.2	42.1	45	3,700-	873 @ 2,200		600 @ 1,800		454 @ 1,800	
(ACERT) TA								4,200	1,136 @ 2,300		553 @ 2,100		479 @ 1,800	
									1,001 @ 2,300		670 @ 2,100		—	
									—		715 @ 2,100		—	
Cat C18 TTA	6	—	—	—	—	—	—	3,700-	873 @ 2,200		—		—	
								4,200	1,001 @ 2,300		—		—	
Cat C32 TTA	12	1,959	5.7x6.4	—	78.9	55.6	54.3	5,800-	1,550 @ 2,300		—		—	
								6,150	1,652 @ 2,300		—		—	
Cat C32 (ACERT)	12	1,959	5.71x6.38	—	77.8	55.4	54.4	7,100-	1,600 @ 2,300		1,300 @ 2,100		660 @ 1,800**	
								7,300	1,700 @ 2,300***		1,450 @ 2,300**		750 @ 1,800**	
											1,600 @ 2,300**		850 @ 1,800**	
									—		—		950 @ 1,600***	
									—		—		1,000 @ 1,800**	
Cat 3508 TA	8	2,105	6.7x7.5	—	81.8	67.1	71	11,499	1,150 @ 1,800		805 @ 1,300		705 @ 1,200	
									—		905 @ 1,600		855 @ 1,600	
									—		960 @ 1,800		855 @ 1,800	
									—		820 @ 1,300		—	
									—		1,000 @ 1,800		—	
Cat 3508B TA	8	2,105	6.7x7.5	—	90.9	67.1	71	10,181-	1,400 @ 1,880*		850 @ 1,200*		775 @ 1,200*	
								11, 499	1,500 @ 1,925*		960 @ 1,600		855 @ 1,600	
									—		960 @ 1,800		855 @ 1,800	
									—		1,050 @ 1,600		1,000 @ 1,600	
									—		1,050 @ 1,800		1,000 @ 1,800	
									—		900 @ 1,200		—	
									—		1,000 @ 1,600		—	
									—		1,100 @ 1,600		—	
									—		1,200 @ 1,785*		—	
									—		1,300 @ 1,835*		—	
Cat 3508C TA	8	2,105	6.7x7.5	—	83.4	67	72	10,935	—		850 @ 1,200		775 @ 1,200	
									—		900 @ 1,200		1,000 @ 1,600	
									—		1,050 @ 1,600		—	
									—		1,100 @ 1,600		—	
Cat 3512 TA	12	3,158	6.7x7.5	—	107	67.1	80.8	14,398-	1,750 @ 1,800		1,301 @ 1,200		1,207 @ 1,200	
								14,411	—		1,360 @ 1,600		1,280 @ 1,600	
									—		1,445 @ 1,800		1,280 @ 1,800	
									—		1,408 @ 1,200		—	
									—		1,410 @ 1,600		—	
									—		1,500 @ 1,800		—	
Cat 3512B TA	12	3,158	6.7x7.5	—	121	70.2	82.3	14, 398-	2,100 @ 1,880		1,155 @ 1,200		1,100 @ 1,200	
								14,411	2,250 @ 1,925		1,260 @ 1,200		1,280 @ 1,600	
									—		1,750 @ 1,600		1,300 @ 1,200	
									—		1,350 @ 1,200		1,500 @ 1,600	
									—		1,360 @ 1,600		1,500 @ 1,800	
									—		1,360 @ 1,800		1,500 @ 1,200	
									—		1,575 @ 1,600		1,675 @ 1,600	
									—		1,575 @ 1,800		1,810 @1,600	
									—		1,210 @ 1,200		—	
									—		1,300 @ 1,200		—	
									—		1,410 @ 1,600		—	
									—		1,410 @ 1,800		—	
									—		1,475 @ 1,200		—	
									—		1,650 @ 1,600		—	
									—		1,650 @ 1,800		—	
									—		1,800 @ 1,785*		—	
									—		1,950 @ 1,835 *		—	
									—		1,800 @ 1,785*		—	
									—		1,810 @ 1,600**		—	
									—		2,012 @ 1,600**		—	

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.) L	W	H	Weight (lbs.)	High Output hp	rpm	Medium Duty hp	rpm	Continuous Duty hp	rpm
Cat 3512C TA	12	3,574	6.69x8.46	—	105.1	87.9	88.3	14,400-	2,541 @ 1,800**		1,650 @ 1,800		1,500 @ 1,800	
								16,340	2,551 @ 1,800**		1,575 @ 1,800		1,810 @ 1,600**	
									—		1,911 @ 1,600		—	
									—		2,250 @ 1,800		—	
									—		2,012 @ 1,600		—	
									—		2,365 @ 1,800		—	
Cat 3516 TA	16	4,210	6.7x7.5	—	145.3	67.1	80.8	17,699	2,200 @ 1,800		1,676 @ 1,200		1,603 @ 1,200	
									—		1,810 @ 1,600		1,710 @ 1,600	
									—		1,920 @ 1,800		1,710 @ 1,800	
									—		1,750 @ 1,200		—	
Cat 3516B TA	16	4,210	6.7x7.5	—	125.5	84.4	81.9	17,185-	2,800 @ 1,880*		2,400 @ 1,785*		2,682 @ 1,925*	
								17,699	3,000 @ 1,925*		2,600 @ 1,835*		—	
Cat 3516B TA	16	4,210	6.7x7.5	—	126.8	80.8	82.3	17,185-	—		1,750 @ 1,200		1,650 @ 1,200	
								17,699	—		2,100 @ 1,600		1,875 @ 1,200**	
									—		2,100 @ 1,800		2,000 @ 1,600	
									—		1,850 @ 1,200		2,000 @ 1,800	
									—		2,200 @ 1,600		2,000@1,800***	
									—		2,200 @ 1,800		2,447 @ 1,600	
									—		2,375 @ 1,600		—	
									—		2,575 @ 1,600		—	
									—		2,500 @ 1,800		—	
									—		2,682 @ 1,600		—	
Cat 3516C TA	16	4,765	6.69x8.46	—	125.4	84.3	84.6	17, 550-	3,386 @ 1,800**		2,100 @ 1,600		2,000 @ 1,600	
								1,9025	—		2,575 @ 1,600		2,448 @ 1,600	
									—		3,004 @ 1,800		—	
									—		2,200 @ 1,600		—	
									—		2,682 @ 1,600		—	
									—		3,151 @ 1,800		—	
Cat C280-6	6	6,773	11.0x11.8	—	158	71	108	34,496	—		2,548 @ 900		2,320 @ 900	
									—		2,722 @ 1,000		2,481 @ 1,000	
Cat C280-8	8	9,031	11.0x11.8	—	195	71	104	41,800	—		3,393 @ 900		3,084 @ 900	
									—		3,634 @ 1,000		3,299 @ 1,000	
Cat C280 12 TA	12	13,546	11.0x11.8	—	182	80	134	57,276	—		5,096 @ 900		4,640 @ 900	
									—		5,444 @ 1,000		4,962 @ 1,000	
Cat C280 16 TA	16	18,062	11.0x11.8	—	224	80	134	62,832	—		7,268 @ 1,000		6,598 @ 1,000	
									—		6,785 @ 900		6,169 @ 900	

*Fuel consumption tolerence +5 percent. Reflects European standards
**High-displacement engine (HD)
***Wide operating speed range

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MaK 6 M 20 C	6	3,478	7.9x11.8	—	159.4	61.4	107.4	11,500	—		—		1,390 @ 900	
				—					—		—		1,550 @ 1,000	
MaK 6 M 25 C	6	7,505	7.9x11.8	—	210.4	88.2	148.5	23,500	—		—		2,370 @ 720	
									—		—		2,450 @ 720	
									—		—		2,580 @ 750	
									—		—		2,720 @ 750	
MaK 6 M 32 C	6	14,155	12.6x18.9	—	234	93.3	169.8	39,500	—		—		3,920 @ 600	
MaK 6 M 32 C	6	32,398	16.9x24	—	234	93.3	169.8	—	—		—		7,752 @ 500	
									—		—		7,752 @ 514	
									—		—		8,160 @ 500	
									—		—		8,160 @ 514	
MaK 7 M 43 C	7	37,828	16.9x24	—	234	93.3	169.8	—	—		—		9,044 @ 500	
									—		—		9,044 @ 514	
									—		—		9,520 @ 500	
									—		—		9,520 @ 514	
MaK 8 M 20 C	8	4,576	7.9x11.8	—	190.9	66.7	113	14,500	—		—		2,070 @ 1,000	
MaK 8 M 25 C	8	9,945	10x15.7	—	247.6	90.4	154.2	30,000	—		—		3,160 @ 720	
									—		—		3,450 @ 720	
									—		—		3,260 @ 750	
									—		—		3,630 @ 750	
MaK 8 M 32 C	8	18,853	12.6x18.9	—	281.5	85.8	172.1	108,027	—		—		5,220 @ 600	
									—		—		5,440 @ 600	
MaK 8 M 43 C	8	43,258	16.9x24	—	281.5	85.8	172.1	251,327	—		—		10,336 @ 500	
									—		—		10,336 @ 514	
									—		—		10,880 @ 500	
									—		—		10,880 @ 514	
MaK 9 M 20 C	9	—	—	—	—	—	—	15,000	—		—		2,080 @ 900	
									—		—		2,330 @ 1,000	
MaK 9 M 25 C	9	11,226	10x15.7	—	210.4	90.4	154.2	32,000	—		—		3,550 @ 720	
									—		—		3,880 @ 720	
									—		—		3,670 @75	
MaK 9 M 32 C	9	21,171	12.6x18.9	—	308.7	85.8	179.8	112,436	—		—		6,120 @ 600	
									—		—		5,875 @ 600	
MaK 9 M 43 C	9	48,627	16.9x24	—	308.7	85.8	179.8	279,987	—		—		11,628 @ 500	
									—		—		11,628 @ 514	

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.) L	W	H	Weight (lbs.)	High Output hp	rpm	Medium Duty hp	rpm	Continuous Duty hp	rpm
									—		—		12,240 @ 500	
									—		—		12,240 @ 514	
MaK 12 M 32 C	12	24,715	12.6x18.1	—	—	—	—	143,301	—		—		7,835 @ 720	
													8,160 @ 750	
MaK 12 M 43 C	12	64,857	16.9x24	—	—	—	—	352,740	—		—		15,504 @ 500	
									—		—		15,504 @ 514	
									—		—		16,320 @ 500	
									—		—		16,320 @ 514	
MaK 16 M 32 C	16	33,008	12.6x16.5	—	339.4	114.8	191.5	180,779	—		—		10,445 @ 720	
													10,880 @ 750	
MaK 16 M 43 C	16	86,455	16.9x24	—	339.4	114.8	191.5	485,017	—		—		20,672 @ 500	
									—		—		20,672 @ 514	
									—		—		21,760 @ 500	
									—		—		21,760 @ 514	

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QSK19-M	6	1,150	—	W/O	—	—	—	5,430	—		—		600 @ 1,800	
									—		—		660 @ 1,800	
									—		—		700 @ 2,100	
									—		—		750 @ 1,800	
QSK38-M	12	2,300	—	W/O	—	—	—	—	—		—		1,200 @ 1,800	
									—		—		1,350 @ 1,900	
QSK50-M	16	3,067	—	W/O	—	—	—	—	—		—		1,600 @ 1,800	
									—		—		1,800 @ 1,900	
QSK60-M	16	3,672	—	W/O	—	—	—	—	—		2,300 @ 1,900		2,000 @ 1,600	
									—		—		2,000 @ 1800	
									—		—		2,200 @ 1,800	
									—		—		2,500 @ 1,900	
K38-M (Tier II)	12	2,300	—	W/O	—	—	—	9,300	—		—		850 @ 1,800	

- All engines are Tier 2 compliant.
- QSK19-DM, QSK38-DM, and QSK50-DM listings are Prime Power

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QSB5.9-230	6	359	4.02x4.72	—	40.8	32.9	34.6	1,350	—		230 @ 2,600		—	
QSB5.9-305	6	359	4.02x4.72	—	40.8	32.9	34.6	1,350	—		305 @ 2,600		—	
QSB5.9-330	6	359	4.02x4.72	—	40.8	32.9	34.6	1,350	—		330 @ 2,600		—	
QSB5.9-355	6	359	4.02x4.72	—	40.8	32.9	34.6	1,350	—		355 @ 2,800		355 @ 1,800	
QSB5.9-380	6	359	4.02x4.72	—	40.8	32.9	34.6	1,350	380 @ 3,000		—		—	
QSB5.9-425	6	359	4.02x4.72	—	40.8	32.9	34.6	1,350	425 @ 3,000		—		—	
QSB5.9-440	6	359	4.02x4.72	—	40.8	32.9	34.6	1,350	440 @ 3,400		—		—	
QSB5.9-480	6	359	4.02x4.72	—	40.8	32.9	34.6	1,350	480 @ 3,400		—		—	
									480 @ 3,400		—		—	
QSC8.3-550	6	505	4.49x5.31	—	46.2	33.0	38.8	1,975	550 @ 3,000		—		—	
QSC8.3-600	6	600	4.49x5.31	—	46.2	33.0	38.8	1,975	600 @ 3,000		—		—	
QSL9-285	6	542	4.49x5.71	—	46.2	33.2	42.8	2,000	—		—		285 @ 1,800	
QSL9-330	6	542	4.49x5.71	—	46.2	33.2	42.8	2,000	—		330 @ 1,800		—	
QSL9-405	6	542	4.49x5.71	—	46.2	33.2	42.8	2,000	—		405 @ 2,100		—	
QSM11-300	6	661	4.92x5.79	—	52.3	42.5	40.9	2,610	—		—		300 @ 1,800	
QSM11-355	6	661	4.92x5.79	—	52.3	42.5	40.9	2,610	—		—		355 @ 1,800	
QSM11-405	6	661	4.92x5.79	—	52.3	42.5	40.9	2,610	—		405 @ 2,100		—	
QSM11-455	6	661	4.92x5.79	—	52.3	42.5	40.9	2,610	—		455 @ 2,100		—	
QSM11-610	6	661	4.92x5.79	—	52.3	43.5	39.9	2,620	—		610 @ 2,300		—	
QSM11-645	6	661	4.92x5.79	—	52.3	43.5	39.9	2,620	645 @ 2,300		—		—	
QSM11-670	6	661	4.92x5.79	—	52.3	43.5	39.9	2,620	670 @ 2,300		—		—	
QSM11-715	6	661	4.92x5.79	—	52.3	43.5	39.9	2,620	715 @ 2,500		—		—	

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4BT3.9-150/ 155 INT/HO	4	239	4.02x4.72	—	30.7	27.7	30.4	932	—		150 @ 2,800		—	
6BT5.9-180 MCD	6	359	4.02x4.72	—	42.3	28.0	32.0	1,120	—		180 @ 2,800		—	
6BT5.9-210/ 220 INT/HO	6	359	4.02x4.72	—	42.3	28.0	32.0	1,120	—		210 @ 2,600		—	
6BTA5.9-250/ HO	6	359	4.02x4.72	—	40.5	32.5	33.0	1,140	250 @ 2,600		—		—	

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.) L	W	H	Weight (lbs.)	High Output hp	rpm	Medium Duty hp	rpm	Continuous Duty hp	rpm
6BTA5.9-260/270 INT/HO	6	359	4.02x4.72	—	40.5	32.5	33.0	1,140	—		260 @ 2,600		—	
6BTA5.9-315/330 INT/HO	6	359	4.02x4.72	—	41.0	32.2	30.4	1,280	—		315 @ 2,800		—	
6BTA5.9-370 HO	6	359	4.02x4.72	—	41.0	32.2	30.4	1,280	370 @ 3,000		—		—	
6CTA8.3-430/450 INT/HO	6	505	4.49x5.31	—	45.7	35.8	36.3	1,885	—		430 @ 2,600		—	
NTA855M 350 CON	6	855	5.5x6.0	—	77.8	36.8	62.9	3,150	—		—		350 @ 1,800	
QSM11-670 HO	6	661	4.92x5.79	—	52.3	43.5	39.9	2,620	660 @ 2,300		—		—	

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4045DFM50	4	276	4.2x5.0	w/o	36.3	29.8	35.5	961	—		85 @ 2,500	75 @ 2,400
4045DFM70	4	276	4.2x5.0	w/o	36.3	29.8	35.5	963	—		80 @ 2,500	—
4045TFM50	4	276	4.19x5.0	w/o	41.6	32.6	35.9	1,017	150 @ 2,600		135 @ 2,500	105 @ 2,300
4045TFM75	4	276	4.19x5.0	w/o	41.6	32.6	35.9	1,019	—		135 @ 2,600	107 @ 2,400
6068SFM50	6	414	4.19x5.0	w/o	54.3	32.6	34.7	1,748	300 @ 2,600		236 @ 2,400	182 @ 2,200
6068SFM75	6	414	4.2x5.0	w/o	54.3	43.8	37.8	1,962	400 @ 2,800		321 @ 2,600	249 @ 2,400
6068AFM75	6	414	4.19x5.0	W/O	53	33.6	36.9	1,790	330 @ 2,600		300 @ 2,300	230 @ 2,300
6068TFM50	6	414	4.19x5.0	W/O	51.7	32.6	34.7	1,298	225 @ 2,600		175 @ 2,400	158 @ 2,400
6068TFM75	6	414	4.56x5.06	W/O	51.7	32.6	34.7	1,301	—		201 @ 2,600	158 @ 2,400
6081AFM75	6	497	4.6x5.10	W/O	59.7	35.7	39.9	1,881	375 @ 2,400		330 @ 2,300	235 @ 2,100
6090SFM75	6	548	4.65x5.0	W/O	67.5	38.3	38.5	2,350	500 @ 2,400		375 @ 2,200	325 @ 2,100
6125AFM75	6	766	5.0x6.50	W/O	67.6	33.5	45.3	3,025	526 @ 2,100		455 @ 2,000	341 @ 1,800
6125SFM75	6	766	5.0x6.5	W/O	70.9	40.6	48.3	3,252	610 @ 2,100		526 @ 2,000	380 @ 1,800
6135SFM75	6	824	5.2x6.5	W/O	71.6	40.2	47	3,362	750 @ 2,200		575 @ 2,000	425 @ 1,800

DEUTZ CORPORATION

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3883 Steve Reynolds Blvd. • Norcross, GA 30093
www.deutzamericas.com • E-mail: engines@deutzamericas.com

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3190 SW 4th Ave. • Fort Lauderdale, FL 33315
www.mshs.com • E-mail: torsten.schmitt@mshs.com

BF4M1013M*	4L	290.47	4.2x5.1	—	44.3	22.2	46.7	1,102	—		127 @ 2,300	97 @ 1,900
									—		—	109 @ 2,300
BF4M1013MC	4L	290.47	4.2x5.1	—	44.3	22.2	46.7	1,213	—		158 @ 2,300	119 @ 1,900
									—		—	137 @ 2,300
									—		—	145 @ 1,900
BF6M1013M*	6L	436.32	4.2x5.1	—	55.4	33.5	47.1	1,433	—		173 @ 2,300	165 @ 2,300
									—		—	174 @ 1,900
BF6M1013MC	6L	436.32	4.2x5.1	—	55.4	33.5	47.1	1,543	—		233 @ 2,300	198 @ 2,300
									—		—	189 @ 1,800
BF6M1013MCP	6L	436.32	4.2x5.1	—	55.4	33.5	47.1	1,543	—		261 @ 2,300	223 2 2,300
BF6M1015M*	6V	726.79	5.2x5.7	—	54.3	51.8	45.6	2,381	—		322 @ 2,100	272 @ 1,800
									—		—	287 @ 2,100
BF6M1015MC	6V	726.79	5.2x5.7	—	58.3	51.8	44.8	2,602	—		402 @ 2,100	332 @ 1,800
									—		450 @ 2,100	350 @ 2,100
									—		—	365 @ 1,800
									—		—	385 @ 2,100
BF8M1015MC	8V	968.45	5.2x5.7	—	64.9	52.5	41.6	3,043	—		536 @ 2,100	442 @ 1,800
									—		600 @ 2,100	513 @ 2,100
TCD 2015M V6	6V	726.18	5.2x5.7	—	59.5	51.8	44.9	2,909	—		476 @ 1,800	428 @ 1,800
									—		489 @ 1,900	445 @ 1,900
									—		489 @ 2,100	445 @ 2,100
TCD 2015M V8	8V	970.27	5.2x5.7	—	67.1	52.4	44.9	3,394	—		666 @ 1,800	598 @ 1,800
									—		680 @ 1,900	612 @ 1,900
									—		680 @ 2,100	612 @ 2,100

ELECTRO-MOTIVE DIESEL INC.

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9301 W. 55th St. • La Grange, IL 60525
www.emdiesels.com • E-mail: robert.e.spicer@emdiesels.com

EMD 8-710 G7C-T2	8	710	9-1/16x11	—	143	68	68	26,000	2,200 @ 900		—	2,000 @ 900
EMD 12-710 G7C-T2	12	710	9-1/16x12	—	181	68	68	33,000	3,300 @ 900		—	3,000 @ 900
EMD 16-710 G7C-T2	16	710	9-1/16x13	—	222	68	68	40,500	4,400 @ 900		—	4,000 @ 900
EMD 20-710 G7C-T2	20	710	9-1/16x14	—	255	68	68	46,600	5,500 @ 900		—	5,000 @ 900

* All engines are available in EPA Tier 2 configuration at the same ratings.

FAIRBANKS MORSE ENGINE

Ph: 608-364-8054
701 White Ave. • Beloit, WI 53511
www.fairbanksmorse.com

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.) L	W	H	Weight (lbs.)	High Output hp	rpm	Medium Duty hp	rpm	Continuous Duty hp	rpm
FM-MAN L27/28	9	—	10.6x15.0	—	252	82	143	90,388	—		—		4,100 @ 800	
Opposed Piston 38D 8 1/8	12	—	8.1x10.0	—	365	130	130	85,979	—		—		4,416 @ 900	
FM/ALCO 251 F	18	—	9.0x10.5	—	412	106	137	94,797	—		—		4,008 @ 1,100	
Colt-Pielstick PA6B	20	—	11.0x13.0	—	443	78	142	171,958	—		—		9,380 @ 900	
FM-MAN L, V 32/40	18	—	12.6x15.7	—	337	147	167	189,595	—		—		11,592 @ 750	
FM-MAN L 40/54	9	—	15.7x21.3	—	394	111	172	213,846	—		—		8,694 @ 550	
Colt-Pielstick PA6B STC	20	—	11.0x13.0	—	315	104	135	90,388	—		—		10,860 @ 1,050	
FM-MAN 28/33D Plus	20	—	11.0x13.8	—	265	76	133	108,245	—		—		13,420 @ 1,000	
Colt-Pielstick PC2.5 STC	18	—	15.7x18.1	—	357	149	148	200,618	—		—		11,700 @ 520	
FM-MAN L, V 48/60B	18	—	18.9x23.6	—	507	217	195	582,014	—		—		24,120 @ 500	
Colt-Pielstick PC2.6B	20	—	15.7x19.7	—	466	157	188	308,644	—		—		20,100 @ 600	
FM-MAN L 58/64	9	—	22.8x25.2	—	496	139	202	478,398	—		—		16,776 @ 428	
Colt-Pielstick PC4 2B	18	—	22.4x26.0	—	413	224	252	727,518	—		—		31,986 @ 430	

FIAT POWERTRAIN TECHNOLOGIES

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www.fptpowertrain.com • E-mail: Jeff.WILLIAMS@ftpindustrial.com

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3190 SW 4th Ave. • Fort Lauderdale, FL 33315
www.mshs.com • E-mail: torsten.schmitt@mshs.com

S30 230	4	183	3.77x4.09	—	37.8	30.1	29.6	728	230 @ 4,000		176 @ 3,500		—
(SOFIM 230)									—		116 @ 3,500		—
N45 100	4	274.5	4.09x5.20	—	36.1	30.6	32.7	992	90 @ 2,800		100 @ 2,800		86 @ 2,800
(NEF 100)													
N67 150	6	408.7	4.09x5.20	—	45	30.7	35.7	1,168	150 @ 2,800		125 @ 2,800		125 @ 2,800
(NEF 150)											135 @ 2,800		
N40 250	4	237.9	4.02x4.72	—	39.3	31.6	30.6	1,080	250 @ 2,800		170 @ 2,800		—
(NEF 250)									—		200 @ 2,800		—
N67 280	6	408.7	4.09x5.20	—	47.2	32	31.3	1,334	280 @ 2,800		230 @ 2,800		179 @ 2,500
(NEF 280)*									—		246 @ 2,800		—
									—		200 @ 2,800		—
									—		260 @ 2,800		—
N60 400	6	359.9	4.02x4.72	—	48.2	32	30.6	1,312	400 @ 3,000		270 @ 3,000		—
(NEF 400)									—		330 @ 3,000		—
									—		370 @ 3,000		—
N67 450	6	408.7	4.09x5.20	—	52	32	30	1,312	450 @ 3,000		370 @ 3,000		—
(NEF 450)									—		350 @ 3,000		—
									—		370 @ 3,000		—
N67 560	6	408.7	4.09x5.19	—	42.9	30.7	31.8	1,433	560 @ 3,000		—		—
(NEF 560)									500 @ 3,000		—		—
									450 @ 3,000		—		—
C78 550	6	475.8	4.53x4.92	—	64	37	37.4	2,006	550 @ 2,600		500 @ 2,600		—
(CURSOR 550)*									—		450 @ 2,600		—
									—		400 @ 2,600		—
C87 620	6	530.7	4.61x5.31	—	50.6	30.7	37.8	2,072	620 @ 2,530		550 @ 2,530		—
(CURSOR 620)									—		500 @ 2,530		—
C87 380	6	530.7	4.53x4.92	—	61.2	37	37.1	2,072	410 @ 2,000		380 @ 2,000		—
(CURSOR 380)									500 @ 2,530		—		—
									450 @ 2,530		—		—
C13 500	6	785.90	5.31x5.91	—	71.4	40.1	41.6	2,965	—		520 @ 2,000		—
(CURSOR 500)													
C13 825	6	785.90	5.31x5.91	—	73.5	41.7	43.9	3,086	825 @ 2,300		600 @ 2,300		—
(CURSOR 825)									—		650 @ 2,300		—
									—		750 @ 2,300		—

* Not EPA Tier 2 compliant — for use outside U.S. only

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www.fnmmarinenorthamerica.com

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3190 SW 4th Ave. • Fort Lauderdale, FL 33315
www.mshs.com • E-mail: torsten.schmitt@mshs.com

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.) L	W	H	Weight (lbs.)	High Output hp	rpm	Medium Duty hp	rpm	Continuous Duty hp	rpm
HPE 80	4	76.16	2.7x3.1	—	22	18.1	26.1	352	80 @ 4,000		—		—	
HPE 80 Sail Drive	4	76.16	2.7x3.2	—	39.9	23.9	43.8	452	75 @ 3,800		—		—	
HPE 110	4	76.16	2.7x3.2	—	22	18.1	26.1	392	110 @ 4,000		—		—	
									110 @ 4,400		—		—	
HPE 110 Jet Drive	4	76.16	2.7x3.2	—	65.9	29.8	28.5	476	110 @ 4,000		—		—	
									110 @ 4,400		—		—	
HPE 150	4	116.55	3.2x3.6	—	30.1	29.8	28.1	529	150 @ 4,000		—		—	
HPEP 150	4	116.55	3.2x3.6	—	62.7	29.8	50	529	150 @ 4,000		—		—	
Stern Drive														
HPE 170	4	116.55	3.2x3.6	—	30.1	29.8	28.1	529	170 @ 4,000		—		—	
HPEP 170	4	116.55	3.2x3.6	—	62.7	29.8	50	529	170 @ 4,000		—		—	
Stern Drive														
HPE 190	4	116.55	3.2x3.6	—	30.1	29.8	28.1	529	190 @ 4,000		—		—	
HPEP 190	4	116.55	3.2x3.6	—	62.7	29.9	50	529	190 @ 4,000		—		—	
Stern Drive														
HPE 225	4	145.66	3.2x3.6	—	35	29	30.1	639	225 @ 4,000		—		—	
HPEP 225	4	145.66	3.2x3.6	—	61.3	22.5	37.5	639	225 @ 4,000		—		—	
Stern Drive														
HPE 250	5	145.66	3.2x3.6	—	35	29	30.1	639	250 @ 4,200		—		—	
HPEP 250	5	145.66	3.2x3.6	—	61.3	22.5	37.5	639	250 @ 4,000		—		—	
Stern Drive														
HPE 300	4	182.84	3.8x4.1	—	30.7	24.5	29.6	705	300 @ 4,000		—		—	

GE MARINE

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2901 East Lake Road • Erie, PA 16531
www.getransportation.com • E-mail: lori.kieklak@trans.ge.com

8V228	8	5,344	9.0x10.5	—	130	68	109	27,500	2,250 @ 1050		—		2,045 @ 1,050	
									2,143 @ 1,000		—		1,948 @ 1,000	
									1,930 @ 900		—		1,753 @ 900	
12V228	12	8,016	9.0x10.5	—	163	68	109	39,200	3,375 @ 1,050		—		3,070 @ 1,050	
									3,214 @ 1,000		—		2,922 @ 1,000	
									2,893 @ 900		—		2,630 @ 900	
16V228	16	10,688	9.0x10.5	—	196	68	119	48,800	4,500 @ 1,050		—		4,100 @ 1,050	

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.) L	W	H	Weight (lbs.)	High Output hp	rpm	Medium Duty hp	rpm	Continuous Duty hp	rpm
									4,286 @ 1,000		—		3,896 @ 1,000	
									3,857 @ 900		—		3,506 @ 900	
12V250	12	—	9.8x12.6	—	164	67	112	44,500	4,020 @ 900		—		3,660 @ 900	
									4,470 @ 1,000		—		4,060 @ 1,000	
									4,690 @ 1,050		—		4,270 @ 1,050	
16V250	16	—	9.8x12.6	—	196	67	115	52,000	5,360 @ 900		—		4,870 @ 900	
									5,960 @ 1,000		—		5,420 @ 1,000	
									6,250 @ 1,050		—		5,690 @ 1,050	
6L250	6	—	9.8x12.6	—	200	80	132	35,000	2,210@900		—		2,009 @ 900	
									2,455 @ 1,000		—		2,232 @ 1,000	
									2,578 @ 1,050		—		2,344 @ 1,050	
8L250	8	—	9.8x12.6	—	235	80	132	42,000	2,947 @ 900		—		2,679 @ 900	
									3,274 @ 1,000		—		2,976 @ 1,000	
									3,438 @ 1,050		—		3,125 @ 1,050	

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Ph: 504-461-3801 • Fax: 504-461-3806
143 Mallard St • Suite F • St. Rose, LA 70087
www.guascor-usa.com • E-mail: guascor@guascor-usa.com

F180-SP	6	1,096	5.98x6.50	w	72.1	35.9	51.3	5,512	300 @ 2,000		260 @ 1,800		250 @ 1,800	
F180T-SP	6	1,096	5.98x6.50	w	72.1	35.9	51.3	5,666	415 @ 1,900		400 @ 1,800		380 @ 1,800	
F180TB-SP	6	1,096	5.98x6.50	w	72.1	35.9	51.3	5,688	450 @ 1,800		425 @ 1,800		400 @ 1,800	
F180TA-SP	6	1,096	5.98x6.50	w	72.1	35.9	51.3	5,776	500 @ 2,000		480 @ 1,800		450 @ 1,800	
F180TAB-SP	6	1,096	5.98x6.50	w	74.2	37.2	57.5	5,952	550 @ 1,800		520 @ 1,800		500 @ 1,800	
SF180TA-SP	6	1,096	5.98x6.50	w	74.4	37.2	57.5	5,952	648 @ 1,800		619 @ 1,800		589 @ 1,800	
F240TA-SP	8	1,462	5.98x6.50	w	90.6	37.2	57.5	7,496	640 @ 1,800		620 @ 1,800		600 @ 1,800	
F240TAB-SP	8	1,462	5.98x6.50	w	90.6	37.2	57.5	7,595	—		670 @ 1,800		650 @ 1,800	
SF240TA-SP	8	1,462	5.98x6.50	w	90.6	37.2	57.5	7,716	864 @ 1,800		824 @ 1,800		785 @ 1,800	
F360TA-SP	12	2,193	5.98x6.50	w	104.6	55.4	68.4	10,207	1,000 @ 2,000		960 @ 1,800		900 @ 1,800	
SF360TA-SP	12	2,193	5.98x6.50	w	104.6	55.4	68.4	10,362	1,297 @ 2,000		1,237 @ 1,800		1,178 @ 1,800	
F480TA-SP	16	2,923	5.98x6.50	w	123.1	55.4	68.4	12,015	1,400 @ 1,800		1,350 @ 1,800		1,270 @ 1,800	
SF480TA	16	2,923	5.98x6.50	w	123.1	55.4	68.4	12,125	1,729 @ 1,800		1,650 @ 1,800		1,571 @ 1,800	

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1306T2MS	6	690	5.1x5.6	—	69	33.5	40.8	2,068	600 @ 2,400		476 @ 2,300		300 @ 1,800	
1308T2MS	8	816	5.1x5.0	—	57.7	39.7	39.7	2,156	750 @ 2,700		612 @ 2,600		450 @ 2,100	
1312T2MS	12	1,225	5.1x5.0	—	71.3	40	46.3	3,190	1,200 @ 2,700		952 @ 2,600		673 @ 2,100	
1708T2	8	—	—	—	—	—	—	6,490	1,300 @ 2,000		1,108 @ 1,935		950 @ 1,800	
1712T2	12	2,826	6.7x6.7	—	101	60	69.7	9,526	2,285 @ 2,000		1,904 @ 1,940		1,430 @ 1,800	
1716T2	16	3,768	6.7x6.7	—	157	60	75	16,060	3,196 @ 2,100		2,618 @ 1,960		1,768 @ 1,600	

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46401 Commerce Center Dr. • Plymouth, MI 48170
www.isuzuengines.com • E-mail: bob.links@isza.com

UM6HK1WMAB2	6	476	4.52x4.92	w/o	56.89	38.93	23.25	1,676	—		—		300 @ 2,400	
UM6HK1WMAB3	6	476	4.52x4.92	w/o	56.89	38.93	23.25	1,676	—		350 @ 2,500		—	
UM6WG1TCAA1	6	958	5.79x6.06	w/o	74.68	35.5	52.91	3,219	—		—		505 @ 1,800	
UM6WG1TCAA2	6	958	5.79x6.06	w/o	74.68	35.5	52.91	3,220	—		650 @ 2,100		—	
UM6WG1WMAB1	6	958	5.79x6.06	w/o	74.68	35.5	52.91	3,220	—		—		505 @ 1,800	
UM6WG1WMAB2	6	958	5.79x6.06	w/o	74.68	35.5	52.91	3,220	—		600 @ 2,000		—	
UM6WG1WMAB3	6	958	5.79x6.06	w/o	74.68	35.5	52.91	3,220	—		671 @ 2,100		—	
EXPORT MODELS														
UM4BG1TCX	4	262	3.94x4.13	w/o	50.51	23.85	37.04	1,160	—		200 @ 2,800		—	
UM6BG1TCX	6	305	4.13x4.92	w/o	52.87	24.78	38.11	1,521	—		282 @ 2,700		—	
UM6HE1TCX	6	439	4.33x4.92	w/o	56.89	26.9	41.10	1,598	—		344 @ 2,800		—	
UM6SD1TCX	6	579	4.63x5.71	w/o	59.75	30.31	46.81	2,283	—		374 @ 2,300		—	

MAN DIESEL INC.

Ph: 713-355-2777 • Fax: 713-355-4863
2901 Wilcrest Dr. • Ste. 345 • Houston, TX 77042
www.manbw.com • E-mail: dieselpower@manbwhou.com

D0836LE402	6	731	4.3x4.9		44.5	33.7	32.6	1,609	—		355 @ 2,400		—	
D2840LE	10	1,115	5.0x5.6		52.5	47.7	39.9	3,285	—		—		489 @ 1,800	
D2840LE	10	1,115	5.0x5.6		52.5	47.7	39.9	3,483	—		552 @ 2,100		—	
D2840LE401	10	1,115	5.0x5.6		52.5	47.7	39.9	3,483	—		641 @ 2,100		—	
D2842LE	12	1,338	5.0x5.6		58.7	47.7	42.6	3,792	—		665 @ 2,100		591 @ 1,800	
D2842LE401	12	1,338	5.0x5.6		58.7	47.7	42.6	3,792	—		788 @ 2,100		—	
D2842LE403	12	1,338	5.0x5.6		58.7	48.4	40.9	3,946	—		—		709 @ 1,800	
D2842LE405	12	1,338	5.0x5.6		58.7	48.4	40.9	3,792	—		887 @ 2,100		—	

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.) L	W	H	Weight (lbs.)	High Output hp	rpm	Medium Duty hp	rpm	Continuous Duty hp	rpm
D2842LE410	12	1,338	5.0x5.6		58.7	49	40.7	4,100	—		1,084 @ 2,100		—	
D2842LE412	12	1,338	5.0x5.6		58.7	48.4	40.9	3,946	—		—		788 @ 1,800	
D2842LE413	12	1,338	5.0x5.6		58.7	48.4	40.9	3,792	—		984 @ 2,100		—	
D2848LE401	8	892	5.0x5.6		46.2	47.9	41.3	2,976	—		532 @ 2,100		—	
D2848LE405	8	892	5.0x5.6		46	48.4	42.2	3,064	—		640 @ 2,100		—	
D2866LE403	6	731	5.0x6.2		51.9	34.2	39.3	2,557	—		493 @ 2,100		—	
D2876LE402	6	781	5.0x6.2		52	34.2	42.1	2,844	—		552 @ 2,100		—	
D2866LXE40	6	731	5.0x6.2		57	35.3	45.2	2,248	—		—		255 @ 1,800	
									—		—		335 @ 1,800	
D2866LXE47	6	731	5.0x6.2		57	35.3	45.2	2,248	—		—		296 @ 1,800	
R6-800CRM	6	781	5.0x6.5		52	38.5	34.7	2,860	788 @ 2,300		—		—	
V10-1100CRM	10	1,115	5.0x5.6		52.5	46.6	48.4	3,850	1,084 @ 2,300		—		—	
V12-1360CRM	12	1,338	5.0x5.6		58.7	46.7	48.4	4,400	1,340 @ 2,300		—		—	
V12-1550CRM	12	1,338	5.0x5.6		58.7	50	54.3	4,752	1,528 @ 2,300		—		—	
V8-900CRM	8	892	5.0x5.6		46.3	44.1	48.4	3,300	887 @ 2,300		—		—	

MAN ENGINES & COMPONENTS INC.

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591 S.W. 13th Terrace • Pompano Beach, FL 33069-3520
www.man-mec.com • jlg@man-mec.com

L21/31	6	—	8.27x12.20		127.36	41.93	132.05	27,800	—		—		1,729 @ 1,000	
L21/31	7	—	8.27x12.20		127.36	41.93	132.05	30,400	—		—		2,016 @ 1,000	
L21/31	8	—	8.27x12.20		127.36	41.93	132.05	33,200	—		—		2,304 @ 1,000	
L21/31	9	—	8.27x12.20		127.36	41.93	132.05	36,900	—		—		2,593 @ 1,000	
L27/38	6	—	10.63x14.96		155.98	80.12	141.54	60,000	—		—		2,733 @ 800	
L27/38	7	—	10.63x14.96		173.50	80.12	141.54	67,000	—		—		3,190 @ 800	
L27/38	8	—	10.63x14.96		191.02	80.12	141.54	74,000	—		—		3,645 @ 800	
L28/32	6	—	11.02x12.60		170.87	68.19	125.43	38,000	—		—		1,970 @ 775	
L28/32	7	—	11.02x12.60		187.01	68.19	125.43	42,000	—		—		2,300 @ 775	
L28/32	8	—	11.02x12.60		205.91	68.19	125.43	47,000	—		—		2,626 @ 775	
L28/32	9	—	11.02x12.60		227.56	72.6	127.64	53,000	—		—		2,955 @ 775	
D2866LXE40	6	731	5.0x6.2	—	57	35.3	45.2	2,248	340 @ 1,800 (Heavy Duty)		400 @ 2,100		—	
									258 @ 1,800 (Heavy Duty)		379 @ 1,800		—	
D2876LE402	6	781	5.0x6.5	—	52	34.2	42.1	2,844	—		560 @ 2,100		—	
D2876LE403	6	781	5.0x6.5	—	52	34.2	42.1	2,844	450 @ 1,800 (Heavy Duty)		450 @ 1,800		—	
D2876LE406	6	781	5.0x6.5	—	52	34.2	42.1	2,844	381 @ 1,800 (Heavy Duty)		—		—	
D2876LE407	6	781	5.0x6.5	—	52	34.2	42.1	2,844	490 @ 1,800 (Heavy Duty)		490 @ 1,800		—	
R6-730	6	419	4.3x4.9	—	64.1	32.7	37.2	1,980	730 @ 2,300 (Light Duty)		—		—	
R6-800	6	781	5.0x6.5	—	52	38.5	34.7	2,860	800 @ 2,300 (Light Duty)		—		—	
V8-900	8	892	5.0x5.6	—	46.3	44.1	48.4	3,300	900 @ 2,300 (Light Duty)		—		—	
V8-1000	8	892	5.0x5.8	—	48.9	45.3	48.6	3,916	1,000 @ 2,300 (Light Duty)		—		—	
V8-1200	8	892	5.0x5.8	—	49.6	45.3	48.2	4,125	1,200 @ 2,300 (Light Duty)		—		—	
V10-900	10	1,115	5.0x5.6	—	52.5	46.6	48.4	3,850	—		900 @ 2,100		—	
V10-1100	10	1,115	5.0x5.6	—	52.5	46.6	48.4	3,850	1.100 @ 2,300 (Light Duty)		—		—	
D2842LE405	12	1,338	5.0x5.6	—	58.7	48.4	40.9	3,792	900 @ 2,100 (Heavy Duty)		900 @ 2,100		—	
D2842LE413	12	1,338	5.0x5.6	—	58.7	48.4	40.9	3,792	—		1,000 @ 2,100		—	
D2842LE410	12	1,338	5.0x5.6	—	58.7	49	40.7	4,100	—		1,100 @ 2,100		—	
D2842LE412	12	1,338	5.0x5.6	—	58.7	48.4	40.9	3,946	800 @ 1,800 (Heavy Duty)		800 @ 1,800		—	
D2842LE419	12	1,338	5.0x5.6	—	58.7	48.4	40.9	3.946	—		598 @ 1,800		—	
D2862LE422	12	1,338	5.0x5.6	—	58.7	48.4	40.9	4,994	—		1,000 @ 2,100		—	
D2862LE432	12	1,338	5.0x5.6	—	58.7	48.4	40.9	4,994	—		1,200 @ 2,100		—	
D2862LE463	12	1,338	5.0x5.6	—	58.7	48.4	40.9	4,994	—		1,400 @ 2,100		—	
V12-1100	12	1,338	5.0x5.6	—	58.7	46.7	48.4	4,400	—		1,100 @ 2,100		—	
V12-1224	12	1,338	5.0x5.6	—	58.7	46.7	48.4	4,400	1,224 @ 2,300 (Light Duty)		—		—	
V12-1360	12	1,338	5.0x5.6	—	58.7	46.7	48.4	4,400	1,360 @ 2,300 (Light Duty)		—		—	
V12-1400	12	1,338	5.0x5.6	—	58.7	50.0	54.3	4,752	1,400 @ 2,300 (Light Duty)		—		—	
V12-1550	12	1,338	5.0x5.6	—	58.7	50.0	54.3	4,752	1,550 @ 2,300 (Light Duty)		—		—	
V12-1800	12	1,338	5.0x5.6	—	58.7	50.0	54.3	4,752	1,800 @ 2,300 (Light Duty)		—		—	

* All engines listed are turbocharged and intercooled.
* All Continuous (Light Duty) engines are electronically controlled. All others are mechanical.
* All Medium and High Output (Heavy Duty) engines are available outside the U.S. only.

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.) L	W	H	Weight (lbs.)	High Output hp	rpm	Medium Duty hp	rpm	Continuous Duty hp	rpm

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S6A3-Y2MPTK	6	1,133	5.91x6.88	—	64.4	36	54	4,190	583	@ 1,960	529	@ 1,900	483	@ 1,840
S6B3-Y2MPTA	6	891	5.31x6.69	—	60.59	37	52.36	2,889	—		—		429	@ 2,000
S6R-Y1MPTA	6	1,496	6.69x7.09	—	71	44	63.5	6,130	764	@ 1,800	650	@ 1,650	590	@ 1,600
S6R-Y1MPTK	6	1,496	6.69x7.09	—	71	44	63.5	6,240	811	@ 1,800	697	@ 1,650	630	@ 1,600
S6R2-Y1MPTA	6	1,828	6.69x8.66	—	71.3	44	66.7	6,417	757	@ 1,500	657	@ 1,400	597	@ 1,350
S6R2-Y1MPTK	6	1,828	6.69x8.67	—	71.3	44	66.8	6,527	818	@ 1,500	710	@ 1,400	643	@ 1,350
S6R-Y2MPTK	6	1,828	6.69x7.09	—	71.3	44	66.7	6,527	—		—		630	@ 1,600
S12A2-Y1MPTA	12	2,071	5.91x6.30	—	78.8	56.7	63.7	7,453	1,040	@ 2,100	940	@ 2,000	850	@ 1,940
S12A2-Y1MPTK	12	2,071	5.91x6.30	—	90	56.5	63.7	8,203	1,150	@ 2,100	1,040	@ 2,000	940	@ 1,940
S12A2-Y2MPTK	12	2,071	5.91x6.30	—	90	56.5	63.7	8,203	—		—		940	@ 1,940
S12R-Y1MPTA	12	2,992	6.69x7.09	—	93.5	59.5	68.6	11,532	1,528	@ 1,800	1,300	@ 1,650	1,180	@ 1,600
S12R-Y1MPTK	12	2,992	6.69x7.09	—	93.5	59.5	68.6	11,731	1,622	@1,800	1,394	@ 1,650	1,260	@ 1,600
S12R-Y2MPTK	12	2,992	6.69x7.09	—	93.5	59.5	68.6	11,731	—		—		1,260	@ 1,600
S16R-Y1MPTA	16	3,989	6.69x7.09	—	115	59	77	14,685	2,038	@ 1,800	1,729	@ 1,650	1,568	@ 1,600
S16R-Y1MPTK	16	3,989	6.69x7.09	—	115	59	77	14,950	2,158	@ 1,800	1,850	@ 1,650	1,676	@ 1,600

* Engines listed under HIGH OUTPUT are actually LIGHT DUTY.

MTU

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Series 60	6	855	5.24x6.61	W/O	72.4	40.7	46.0	3,525	—		—		350	@ 1,800
									—		—		375	@1,800
									—		—		400	@1,800
									—		—		425	@ 1,800
									—		—		450	@ 1,800
									—		—		475	@ 1,800
S60	6	855	5.24x6.61	W/O	72.25	41.1	46.0	3,525	475	@ 2,100	—		—	
									500	@ 1,800	—		—	
									535	@ 2,100	—		—	
S60	6	—	—	W/O	80	39	45	3,600	600	@ 2,100	—		—	
									625	@ 2,300	—		—	
									740	@ 2,300	—		—	
									800	@ 2,300	—		—	
									825	@ 2,300	—		—	
8V2000 M72	8	1,093	5.4x6.1	W/O	66.3	44.5	47.2	4,365	—		965	@ 2,250	—	
8V2000 M84	8	1,093	5.4x6.1	W/O	66.7	44.5	47.2	4,365	1,360	@ 2,450	—		—	
10V2000 M84	10	1,361	5.4x6.1	W/O	74.3	44.5	48.7	4,938	1,360	@ 2,450	—		—	
10V2000 M72	10	1,361	5.4x6.1	W/O	74.3	44.5	48.7	4,938	—		1,205	@ 2,250	—	
12V2000 M61	12	1,458	5.1x5.9	W/O	99.4	56.1	50.8	5,985	—		—		805	@ 1,800
12V2000 M72	12	1,361	5.3x6.1	W/O	84.1	50.9	54.2	6,195	—		1,450	@ 2,250	—	
12V2000 M84	12	1,361	5.3x6.1	W/O	84.1	50.9	54.2	6,195	1,635	@ 2,450	—		—	
16V2000 M61	16	1,944	5.1x5.9	W/O	99.4	55.0	50.8	7,121	—		—		1,070	@ 1,800
16V2000 M70	16	1,944	5.1x5.9	W/O	99.4	55.0	50.8	7,121	1,800	@ 2,300	1,410	@ 2,100	—	
16V2000 M72	16	2,179	5.3x6.1	W/O	100.6	50.9	55.0	7,452	—		1,930	@ 2,250	—	
16V2000 M84	16	2,179	5.3x6.1	W/O	100.6	50.9	55.0	7,452	2,180	@ 2,450	—		—	
8V4000 M60	8	1,983	6.5x7.5	W/O	81.9	56.7	78.4	9,855	—		—		1,000	@ 1,800
8V4000 M33S (3B 60 Hz))	8	2,331	6.5x7.5	W/O	84.1	63.4	80.9	13,230	—		—		920 (kw)	@ 1,800
8V4000 M23S (3A 60 Hz)	8	2,331	6.7x8.3	n/a	84.1	63.4	80.9	13,230	—		—		880 (kw)	@ 1,800
8V4000 M63	8	2,331	6.7x8.3	W/O	84.1	63.4	80.9	13,030	—		—		1,340	@ 1,800
8V4000 M53	8	2,331	6.7x8.3	W/O	84.1	63.4	80.9	13,030	—		—		1,235	@ 1,800
8V4000 M53R	8	2,331	6.7x8.3	W/O	84.1	63.4	80.9	13,030	—		—		1,000	@ 1,600
12V4000 M60	12	2,972	6.5x7.5	W/O	103.4	59.8	72.2	14,936	—		—		1,770	@ 1,800
12V4000 M61R	12	2,972	6.5x7.5	W/O	103.4	59.8	72.2	14,936	—		—		1,530	@ 1,600
12V4000 M70	12	2,972	6.5x7.5	W/O	111.6	59.8	72.2	17,317	—		2,335	@ 2,000	—	
12V4000 33S	12	3,491	6.7x7.5	W/O	102.6	61.8	93.3	16,843	—		—		1,560 (kw)	@ 1,800
12V4000 M23S	12	3,491	6.7x8.3	W/O	102.6	61.8	93.3	16,843	—		—		1,380 (kw)	@ 1,800
12V4000 M73L	12	3,155	6.7x7.5	W/O	117.7	57.7	84.5	17,635	—		2,895	@ 2,050	—	
12V4000 M73	12	3,155	6.7x7.5	W/O	117.7	57.7	81.5	17,635	—		2,575	@ 1,900	—	
12V4000 M63	12	3,491	6.7x8.3	W/O	102.6	61.8	93.3	16,535	—		—		2,010	@ 1,800
12V4000 M53	12	3,491	6.7x8.3	W/O	102.6	61.8	93.3	16,535	—		—		1,850	@ 1,800
12V4000 M53R	12	3,491	6.7x8.3	W/O	102.6	61.8	93.3	16,535	—		—		1,530	@ 1,600
16V4000 M73L	16	4,210	6.7x7.5	W/O	137.0	61.8	93.3	20,615	—		3,860	@ 2,050	—	
16V4000 M73	16	4,210	6.7x7.5	W/O	137.0	61.8	93.3	20,615	—		3,435	@ 1,970	—	
16V4000 M63L	16	4,656	6.7x8.3	W/O	121.1	61.8	93.3	19,400	—		—		3,000	@ 1,800
16V4000 M63	16	4,656	6.7x8.3	W/O	121.1	61.8	93.3	19,400	—		—		2,680	@ 1,800
16V4000 M53	16	4,656	6.7x8.3	W/O	121.1	61.8	93.3	19,400	—		—		2,470	@ 1,800
16V4000 M53R	16	4,656	6.7x8.3	W/O	121.1	61.8	93.3	19,400	—		—		2,040	@ 1,600
16V4000 M60	16	3,967	6.7x7.5	W/O	115.2	59.8	72.2	17,570	—		—		2,360	@ 1,800
16V4000 M61	16	3,967	6.7x7.5	W/O	115.2	59.8	72.2	17,570	—		—		2,680	@ 1,800

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.) L	W	H	Weight (lbs.)	High Output hp	rpm	Medium Duty hp	rpm	Continuous Duty hp	rpm
16V4000 M61R	16	3,967	6.7x7.5	W/O	115.2	59.8	72.2	17,570	—		—		2,040 @ 1,600	
16V4000 M70	16	3,967	6.7x7.5	W/O	133.1	59.8	72.2	17,570	3,000 @ 2,000		—		—	
16V4000 M33S	16	4,656	6.7x8.3	W/O	121.1	61.8	93.3	19,841	—		—		2,080 @ 1,800	
(3B 60Hz)													(kw)	
16V4000	16	4,656	6.7x8.3	W/O	121.1	61.8	93.3	19,841	—		—		1,840 @ 1,800	
(3B 60Hz)													(kw)	
20V4000 M73L	20	5,260	6.7x7.5	W/O	158.1	58.3	81.5	26,411	4,830 @ 2,050		—		—	
20V4000 M73	20	5,260	6.7x7.5	W/O	158.1	58.3	81.5	26,411	4,290 @ 1,970		—		—	

Only EPA Tier II and Tier II NTE Certified engines can be sold for use in the United States of America as defined by U.S. EPA
Dimensions listed here should NOT be used for installation purposes. Consult Installation drawings.
All weights listed are dry.
Rating Conditions:
Series 60: j1128, all other series: ISO 8665
Rating Definitions:
· Continuous 1A (All Series): Engines for vessels with unrestricted continuous operation. Average load factor: 70-90%. Typical operating time: unrestricted.
Typical applications: work boats, ferries, government vessels, tugs, barges and large sailing yachts
· Maximum Continuous 1B (All Series): Engines for fast vessels with high load factors. Average load factor: 60-80%. Typical operating time: 5,000 hours/year
Typical applications: ferries, monohulls, hydrofoils, catamarans and surface effect ships
· Intermittent-Maximum (Series 60): Engines for fast vessels with midrange load factors. Average load factor < 60%. Typical operation time 3,000 hours/year
Typical applications: government vessels, season fishing vessels
· Maximium 1DS: (All Series): Engines for fast vessels with midrange load factors. Average load factor < 60%. Typical operation time 3,000 hours/year
Typical applications: sportfish, motor yachts, patrol boats and special military applications.
· Marine Auxiliary Continuous Power 3A: For onboard power generation and diesel electric drives in unrestricted continuous operation.
· Marine Auxiliary Prime Power 3B: For onboard power generation and diesel electric drives in continuous operation with variable load.
· Application Rating Definitions are approximate and consistent for comparative purposes only.
* All engines listed above are Tier II compliant.
* See dealer for IMO compliance ratings.

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L844D	4	121	3.3x3.5	W/O	—	—	—	574	40 @ 2,800		30 @ 2,400	—
L1064TI	4	276	4.19x5.0	W/O	40.43	32.66	35.93	1,140	—		—	100 @ 2,500
L1064A	4	276	4.19x5.0	W/O	45	29.4	35.9	1,250	140 @ 2,500		125 @ 2,500	115 @ 2,300
L1066T	6	414	4.19x5.0	W/O	54.9	27.3	36.2	1,982	170 @ 2,500		165 @ 2,200	135 @ 2,200
L1066A	6	414	4.19x5.0	W/O	56.6	29.6	37.3	2,155	250 @ 2,400		200 @ 2,200	185 @ 2,400
L6125H	6	674	4.92x5.91	—	69.0	33.0	45.0	2,867	470 @ 2,300		440 @ 2,200	350 @ 1,800
L1066H	6	414	4.19x5.0	W/O	55.6	29	37.3	2,162	275 @ 2,500		250 @ 2,500	—
L1276A2	6	766	5.0x6.5	W/O	69.9	41.3	46.0	3,210	525 @ 2,100		425 @ 2,100	340 @ 2,100

SCANIA USA INC.

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DI 12 59	6	—	5.0x6.06	W/O	53.5	34.4	40.9	2,535	—		—	300 @1,800
									—		—	350 @ 1,800
									—		—	400 @ 1,800
									—		—	450 @ 1,800
DI 12 65	6	—	5.0x6.06	W/O	53.5	34.3	40.9	2,535	—		320 @ 2,100	—
									—		370 @ 2,100	—
									—		430 @ 2,100	—
DI 12 60	6	—	5.0x6.06	W/O	53.5	34.3	40.9	2,535	—		500 @ 2,100	—
									—		525 @ 2,100	—
									—		600 @ 2,100	—
DI 12 66	6	—	5.0x6.06	W/O	53.5	34.3	40.9	2,535	550 @2,200		—	—
									650 @ 2,200		—	—
DI 12 69	6	—	5.0x6.06	W/O	53.5	34.3	40.9	2,535	550 @ 2,300		—	—
									625 @ 2,300		—	—
									700 @ 2,300		—	—
DI 16 42	6	—	5.0x6.06	W/O	48.7	46.2	42.8	3,417	800 @ 2,200		575 @ 2,100	525 @ 1,800
									—		650 @ 2,100	600 @ 1,800
									—		700 @ 2,100	—
									—		750 @ 2,100	—

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645M	6	513	—	—	50	26	39	1,680	410 @ 2,100		350 @ 2,100	280 @ 2,000
620M	6	403	—	—	—	—	—	1,456	300 @ 2,400		250 @ 2,100	220 @ 2,200

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Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.) L	W	H	Weight (lbs.)	High Output hp	rpm	Medium Duty hp	rpm	Continuous Duty hp	rpm
M054NA33	4L	128.1	3.3x3.7	—	—	—	—	—	54 @ 3,300		—		—	
M0114K33	4L	128.1	3.3x3.7	—	—	—	—	—	81 @ 3,300		—		—	
M0144V38	4L	128.1	3.3x3.7	—	—	—	—	—	106 @ 3,800		—		—	
M0144M38	4L	128.1	3.3x3.7	—	—	—	—	—	106 @ 3,800		—		—	
M0164M40	4L	128.1	3.3x3.7	—	—	—	—	569	161 @ 4,000		—		—	
M0166M28	6L	195.2	—	—	—	—	—	717	160 @ 2,800		—		—	
M0126K25	6L	195.2	3.3x3.7	—	—	—	—	—	88 @ 2,500		—		—	
M0156K25	6L	195.2	3.3x3.7	—	—	—	—	—	110 @ 2,500		—		—	
M0196K35	6L	195.2	3.3x3.7	—	—	—	—	673	190 @ 3,500		—		—	
M0236K42	6L	195.2	3.3x3.7	—	—	—	—	673	230 @ 4,200		—		—	
M0256K43	6L	195.2	3.3x3.7	—	—	—	—	710	250 @ 4,300		—		—	
M0256H45	6L	195.2	3.3x3.7	—	—	—	—	710	250 @ 4,500		—		—	
M0286H43	6L	195.2	3.3x3.7	—	—	—	—	732	205 @ 4,300		—		—	
M0306H43WJ	6L	195.2	3.3x3.7	—	—	—	—	732	295 @ 4,300		—		—	

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D4-225/DP	4	226	4.05x4.33	—	30.9	29.6	30.7	1,420	225 @ 3,500		—		—	
D6-280/DP	6	336	4.05x4.33	—	40.1	32.2	30.7	1,653	280 @ 3,500		—		—	
D6-330/DP	6	336	4.05x4.33	—	40.1	32.2	30.7	1,653	330 @ 3,500		—		—	
D4-225	4	226	4.05x4.33	—	30.9	29.6	30.7	1,142	225 @ 3,500		—		—	
D6-280	6	336	4.05x4.33	—	40.1	32.2	30.7	1,346	280 @ 3,500		—		—	
D6-330	6	336	4.05x4.33	—	40.1	32.2	30.7	1,346	330 @ 3,500		—		—	
D9 MH	6	571	4.72x5.43	—	53.7	38.8	44.6	2,370	425 @ 2,200		—		300 @ 1,800	
									—		—		355 @ 1,800	
									—		—		355 @ 2,200	
D9 MC	6	571	4.72x5.43	—	51.5	33.8	39.7	2,370	425 @ 2,200		—		—	
									500 @ 2,600		—		—	
*D12 MH	6	740	5.1x5.9	—	55.5	40.5	50.5	3,086	—		550 @ 1,900		400 @ 1,800	
									—		—		450 @ 1,800	
D16 MH	6	984	5.67x6.50	—	60.9	44.0	51.3	3,858	750 @ 1,900		—		650 @ 1,800	
D4-225 SOLAS	4	226	4.05x4.33	—	41.6	29.6	30.7	1,063	225 @ 3,500		—		—	
D4-225/DP SOLAS	4	226	4.05x4.33	—	41.6	29.6	30.7	1,430	225 @ 3,500		—		—	
D6-330 SOLAS	6	336	4.05x4.33	—	50.8	32.2	30.7	1,279	330 @ 3,500		—		—	
D6-330/DP SOLAS	6	336	4.05x4.33	—	50.8	32.2	30.7	1,663	330 @ 3,500		—		—	
TIER II MODELS														
D5A TA	4	290	4.25x5.12	—	43.5	30.0	40.0	1,157	—		140 @ 1,900		121 @ 1,900	
											160 @ 2,300		139 @ 2,300	
D7A TA	6	436	4.25x5.12	—	55.3	33.5	40.0	1,521	—		208 @ 1,900		177 @ 1,900	
											237 @ 2,300		201 @ 2,300	
D7C TA	6	436	4.25x5.12	—	55.3	33.5	40.0	1,521	—		230 @ 1,900		199 @ 1,900	
											265 @ 2,300		226 @ 2,300	
											248 @ 2,100			
TIER III MODEL														
D13 MH	6	779.7	5.16x6.22	—	55.9	42.9	41.5	3,197	—		—		400 @ 1,800	
									—		—		450 @ 1,800	
									—		—		500 @ 1,800	
									—		550 @ 1,900		—	
D13 MH	6	779.7	5.16x6.22	—	58.0	42.0	50.0	3,197	—		—		600 @ 1,900	
D13 MC	6	779.7	5.16x6.22	—	58.0	41.8	41.5	3,197	—		—		700 @ 2,300	
D13 MC	6	779.7	5.16x6.22	—	70.7	42.9	41.5	3,439	800 @ 2,300		—		—	
NEW IPS-MC MODELS														
**IPS 400 MC	6	336	—	—	—	—	—	—	310 @ 3,500		—		—	
**IPS 450 MC	6	336	—	—	—	—	—	—	330 @ 3,500		—		—	
**IPS 800 MC	6	779.7	—	—	—	—	—	—	600 @ 2,300		—		—	
**IPS 1,050 MC	6	779.9	—	—	—	—	—	—	800 @ 2,300		—		—	

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Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.) L	W	H	Weight (lbs.)	High Output hp	rpm	Medium Duty hp	rpm	Continuous Duty hp	rpm
20 4L20	4	2,147	7.9x11.0	—	99	58	82	15,873	—		—		1,072 @ 1,000	
20 6L20	6	3,221	7.9x11.0	—	122	62	78	20,502	—		—		1,609 @ 1,000	
20 8L20	8	4,294	7.9x11.0	—	150	67	82	24,251	—		—		2,145 @ 1,000	
VASA 32 4R32	4	—	—	—	—	—	—	44,753	—		—		2,199 @ 750	
VASA 32 6R32	6	—	—	—	—	—	—	64,374	—		—		3,299 @ 750	
20 9L20	9	4,831	7.9x11.0	—	160	67	82	25,574	—		—		2,414 @ 1,000	
26 12V26	12	12,441	10.2x12.6	—	206	97	129	64,288	—		—		5,545 @ 1,000	
26 6L26	6	6,220	10.2x12.6	—	166	71	111	37,980	—		—		2,735 @ 1,000	
26 8L26	8	8,294	10.2x12.6	—	207	78	112	48,061	—		—		3,647 @ 1,000	
26 9L26	9	9,330	10.2x12.6	—	222	78	112	52,192	—		—		4,160 @ 1,000	
4R32LN	4	—	—	—	—	—	—	44,750	—		—		2,199 @ 750	
6R32LN	6	—	—	—	—	—	—	64,370	—		—		3,298 @ 750	
26 16V26	16	16,587	10.2x12.6	—	245	98	134	80,864	—		—		7,395 @ 1,000	
32 6L32	6	11,778	12.6x15.7	—	201	87	146	79,520	—		—		4,080 @ 750	
32 7L32	7	13,741	12.6x15.7	—	220	87	160	91,840	—		—		4,760 @ 750	
32 8L32	8	15,704	12.6x15.7	—	252	87	156	—	—		—		5,440 @ 750	
32 9L32	9	17,667	12.6x15.7	—	271	87	156	—	—		—		6,120 @ 750	
38 6L38	6	19,723	15.0x15.7	—	258	87	156	—	—		—		5,915 @ 600	
32 12V32	12	23,556	12.6x15.7	—	252	113	169	—	—		—		8,160 @ 750	
32 16V32	16	31,408	12.6x15.7	—	309	130	175	—	—		—		10,870 @ 750	
32 18V32	18	35,334	12.6x15.7	—	331	130	175	—	—		—		12,240 @ 750	
38 6L38	6	19,723	15.0x18.7	—	258	87	156	—	—		—		5,915 @ 600	
38 8L38	8	26,297	15.0x18.7	—	327	96	154	—	—		—		7,885 @ 600	
38 9L38	9	29,585	15.0x18.7	—	353	96	154	—	—		—		8,870 @ 600	
38 12V38	12	39,446	15.0x18.7	—	319	119	173	—	—		—		11,830 @ 600	
3816V38	16	52,595	15.0x18.7	—	377	119	180	—	—		—		15,770 @ 600	
46 6L46	6	35,290	18.1x22.8	—	327	114	189	—	—		—		9,420 @ 514	
46 8L46	8	47,054	18.1x22.8	—	393	126	199	—	—		—		12,560 @ 514	
46 9L46	9	52,936	18.1x22.8	—	425	130	199	—	—		—		14,135 @ 514	
46 12V46	12	70,581	18.1x22.8	—	401	151	203	—	—		—		18,845 @ 514	
46 16v46	16	94,108	18.1x22.8	—	496	179	203	—	—		—		25,125 @ 514	
64 6L64	6	106,002	25.2x35.4	—	412	164	246	—	—		—		17,540 @ 333	
64 7L64	7	123,669	25.2x35.5	—	455	164	250	—	—		—		20,460 @ 333	
64 8L64	8	141,336	25.2x35.6	—	498	164	250	—	—		—		23,390 @ 333	

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35E THREE	3	80	3.07x3.62	W	30.6	21.3	22.6	386	28 @ 3,000		—		—	
44C FOUR	4	107	3.07x3.62	W	34.0	21.3	23.0	416	38 @ 3,000		—		—	
55D FOUR	4	133	3.35x3.78	W	35.4	21.3	24.0	448	48 @ 2,600		—		—	
65b FOUR	4	264	3.86x4.33	W	40.9	25.4	30.2	730	66 @ 2,600		—		—	

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4BY2-180*	4	122	—	w/o	—	—	—	551	180 @ 4,000		—		—	
6BY2-220*	6	183	—	w/o	—	—	—	683	220 @ 4,000		—		—	
6BY2-260*	6	183	—	w/o	—	—	—	683	260 @ 4,000		—		—	
6LPA-STP*	6	254	—	w/o	—	—	—	899	315 @ 3,800		—		—	
6LY3A-ETP	6	354	—	w/o	—	—	—	1,411	480 @ 3,800		—		—	
6LY3A-STP	6	354	—	w/o	—	—	—	1,411	440 @ 3,800		—		—	
6LY3A-UTP	6	354	—	w/o	—	—	—	1,411	380 @ 3,300		—		—	
6CX530	6	452	—	w/o	—	—	—	1,845	530 @ 2,900		—		—	
8LV370*	6	272	—	w/o	—	—	—	960	370 @ 3,800		—		—	
6SY720	6	714	—	w/o	—	—	—	2,536	720 @ 2,300		—		—	
8SY900	8	952	—	w/o	—	—	—	3,650	900 @ 2,300		—		—	

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