

KAB IV PENUTUP

Dengan selesainya penyusunan tugas prarancangan ini, maka penulis dapat mengambil kesimpulan yang berhubungan dengan perencanaan Kapal Ikan (Skipjack Pole & Line) 625 GRT, sebagai sarana penangkap ikan di Indonesia. Kapal ini memiliki peralatan memiliki peralatan khusus untuk menangkap ikan, mengumpulkan dan mengangkat ikan segar. Keistimewaan yang dimiliki kapal ini adalah kecepatan yang cukup untuk menangkap ikan, kemampuan olah gerak yang baik, , lingkup area pelayaran yang cukup luas, memiliki peralatan kapal yang cukup modern seperti *sonar fish finder* dan *integrated fish finding console* berfungsi dengan baik dan memiliki kapasitas ruang muat cukup besar yang dilengkapi *air freezing room* dengan suhu -30° menggunakan empat buah ruangan *freezer* secara cepat sehingga dapat menjaga ketahanan dan kesegaran ikan dengan baik, serta desain dan iteror kapal yang tertata dengan rapi.

Adapun kesimpulan dari hasil data perhitungan adalah sebagai berikut :

1. Ringkasan spesifikasi teknis kapal :

- Panjang seluruhnya (Loa) = 49,00 m
- Panjang garis air (Lwl) = 45,5 m
- Panjang antar garis tegak (Lpp) = 44,5 m
- Lebar (B) = 8,5 m
- Tinggi (H) = 4,15 m
- Sarat air (T) = 3,15 m
- Koefisien blok (Cb) = 0,666
- Koefisien prismatic (Cp) = 0,675
- Koefisien garis air (Cw) = 0,807
- Koefisien Tengah kpal (Cm) = 0,988
- Displasemen (Δ) = 825,438 Ton
- Volume displasemen (V) = 305,305 m³
- Jumlah anak buah kapal (ABK) = 30 orang
- Kecepatan dinas = 13,5 Knot

- Alat penggerak yang digunakan :

Jumlah Mesin	: 1
Merk	: YANMAR (Z280A – EN)
Daya	: 2000 HP
Putaran mesin	: 720 rpm
Gear ratio	: 1 : 1,79
Bore x Stroke	: 280 mm x 360 mm
Ukuran	: Panjang x Lebar x Tinggi 5144 mm x 1540 x 515 mm

2. Dalam perancangan, kapal dikontrol terhadap stabilitas, *trim*, panjang genangan dan rencana pemuatan serta berat kapal, dimana semua hasil perhitungan harus memenuhi ketentuan yang berlaku.
3. Dalam menentukan ukuran utama yang akan diambil dalam perencanaan kapal, terlebih dahulu perlu diadakan pertimbangan-pertimbangan secara umum terutama dalam hal yang berhubungan dengan tahanan, stabilitas, ruang muatan, kekuatan kapal, ekonomi dan teknologi pembuatannya.
4. Jumlah sekat kedap air ditentukan berdasarkan aturan dalam klasifikasi yang digunakan yaitu sesuai dengan panjang kapal (L_{pp}).

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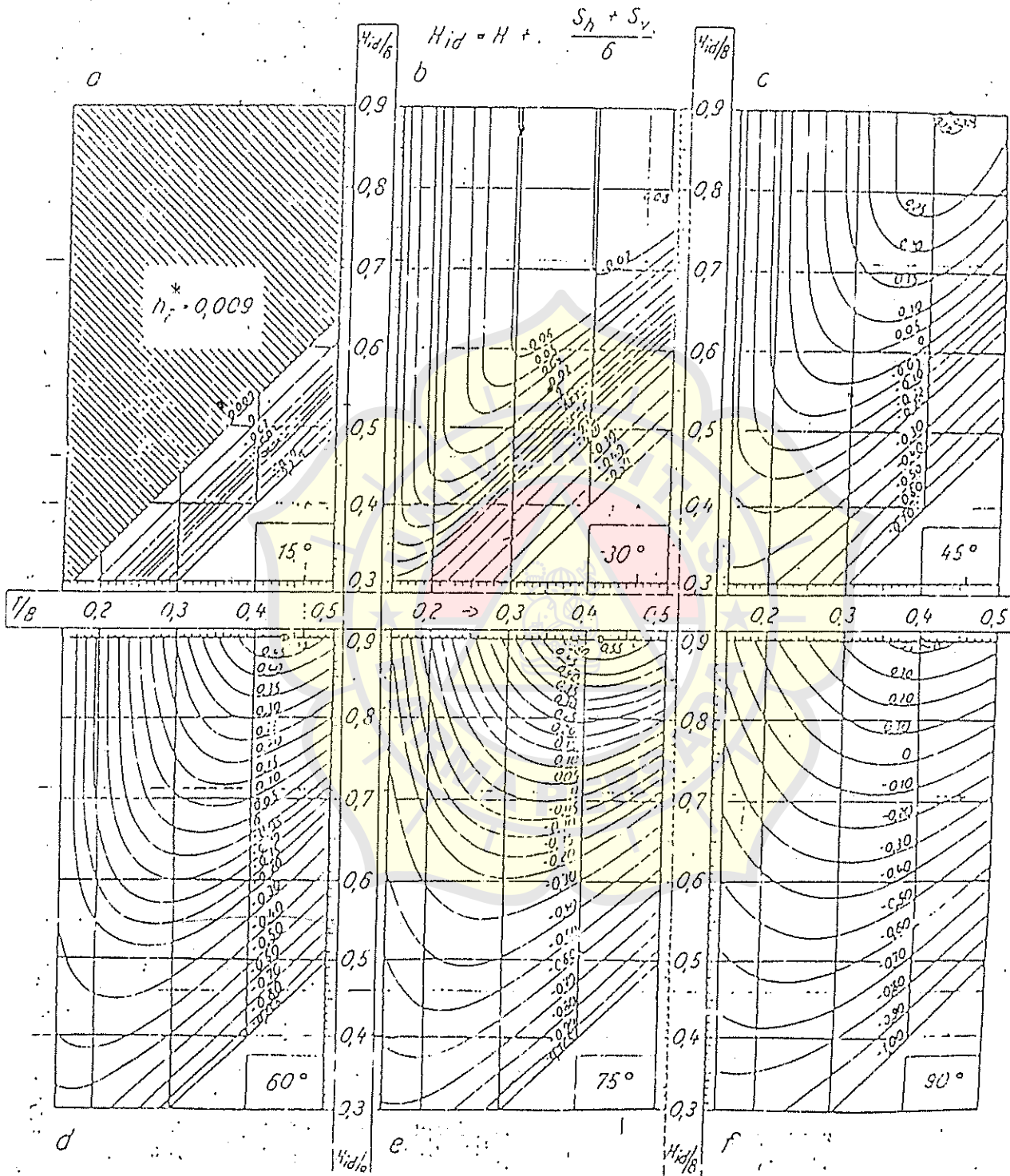
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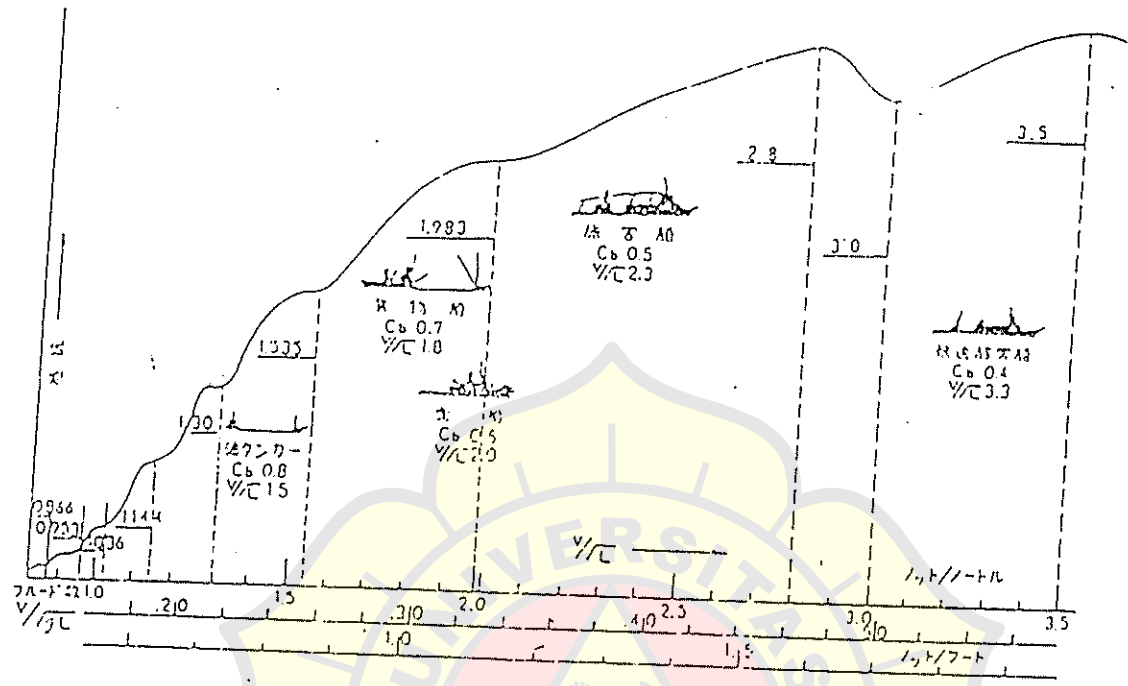
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Lampiran 1. Diagram untuk menentukan h^* (Prohaska)



Lampiran 2. Diagram Speed Length Ratio (Fn)



Lampiran 3.
 Diagram untuk menentukan letak LCB

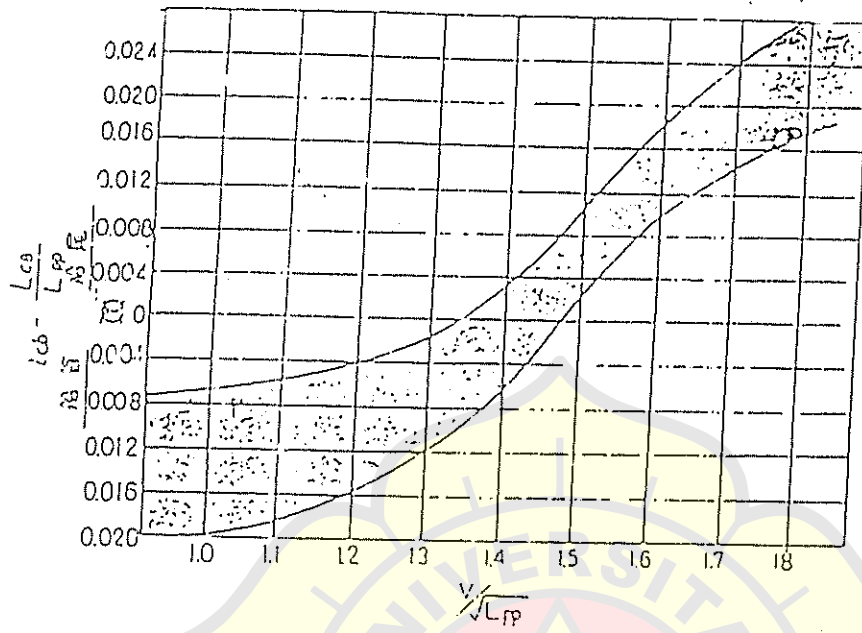
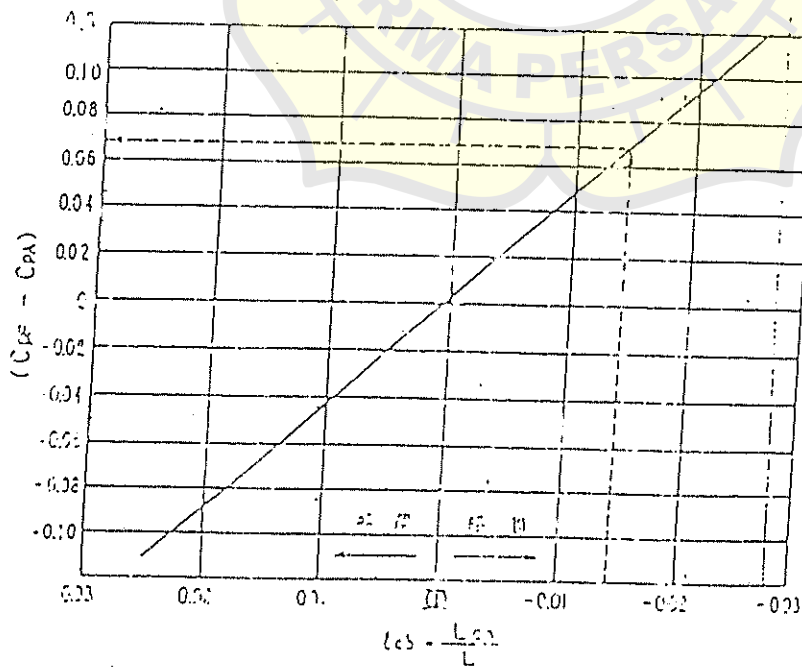


Diagram untuk menentukan Koefisien depan dan belakang (C_{pf} - C_{pa})



Lampiran 4.
Diagram untuk menentukan persentase luasan bagian depan

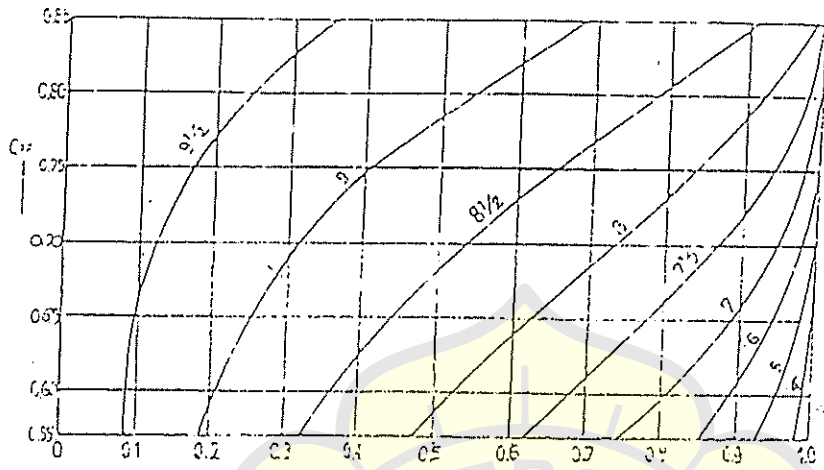
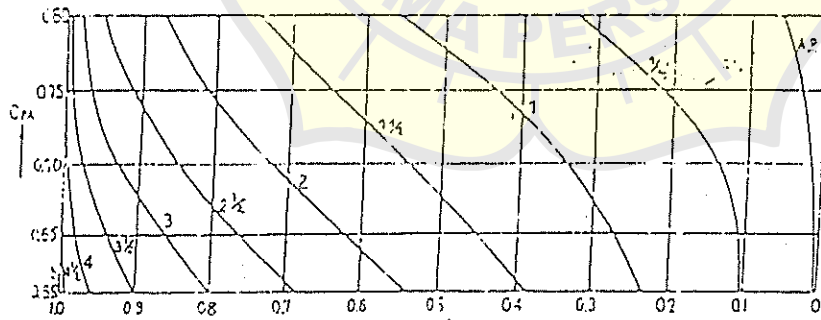


Diagram untuk menentukan persentase luasan bagian belakang



Lampiran 5.
 Diagram untuk menentukan sudut masuk (angle of entrance)

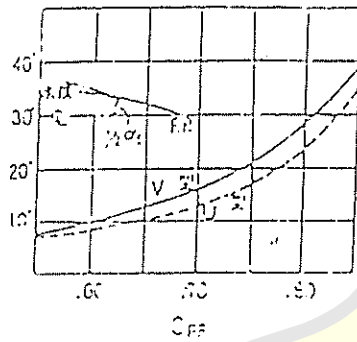
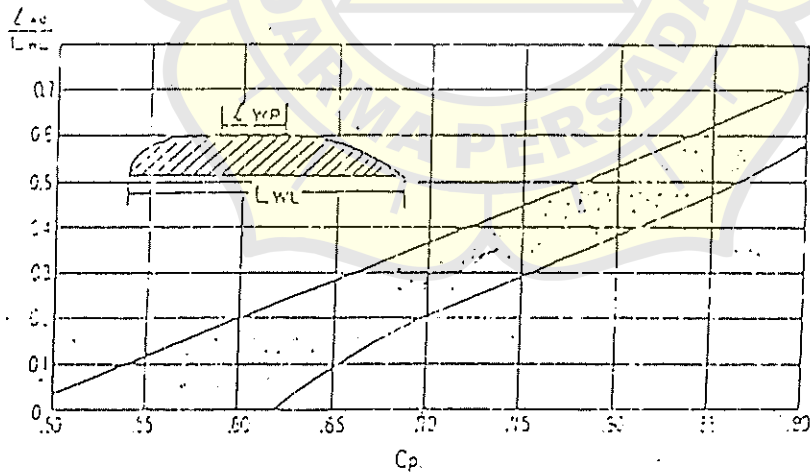
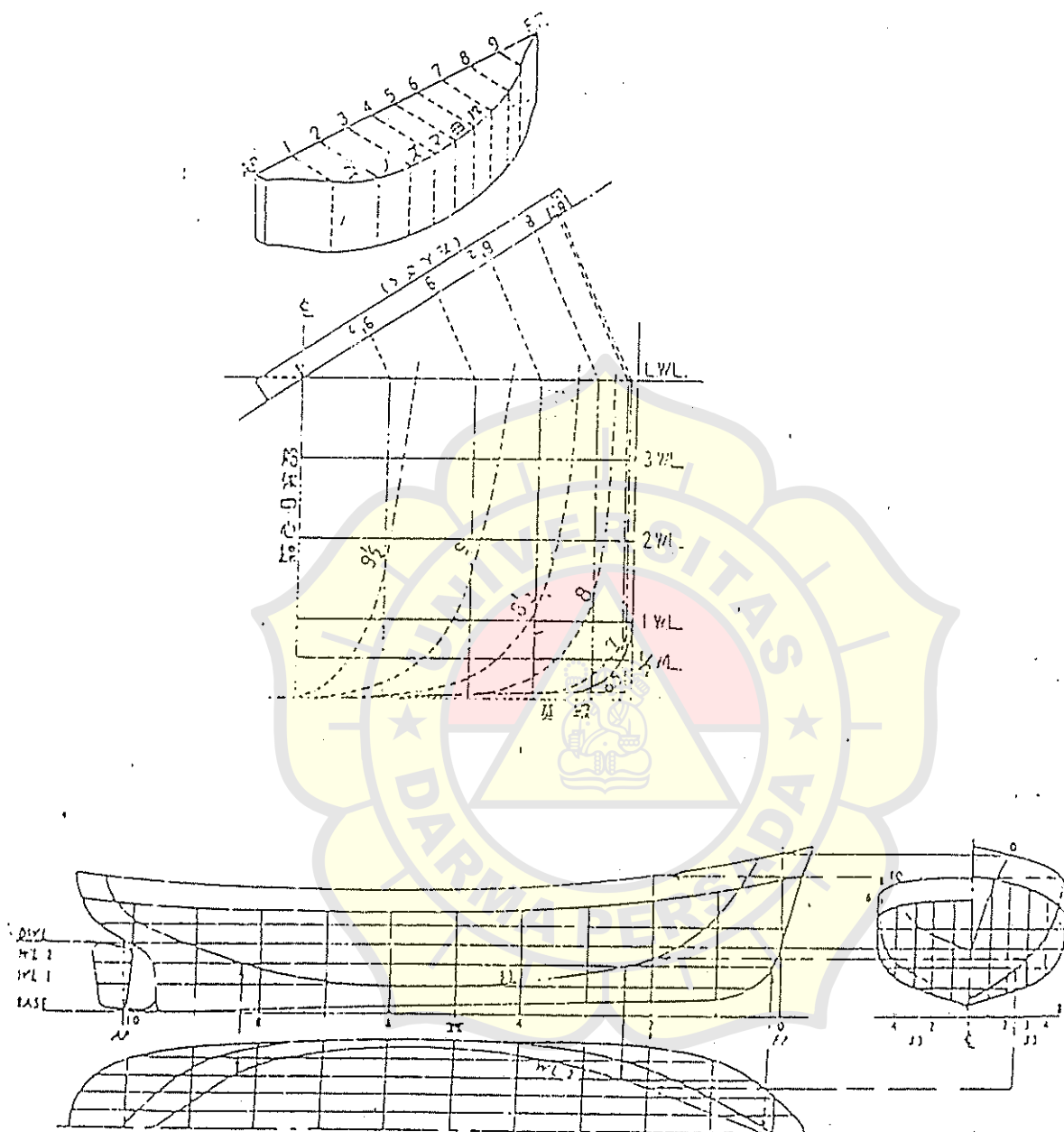


Diagram untuk menentukan panjang paralel middle body



Lampiran 6. Cara pembuatan Body Plan



Lampiran 9.
 Diagram untuk menentukan LCB standar

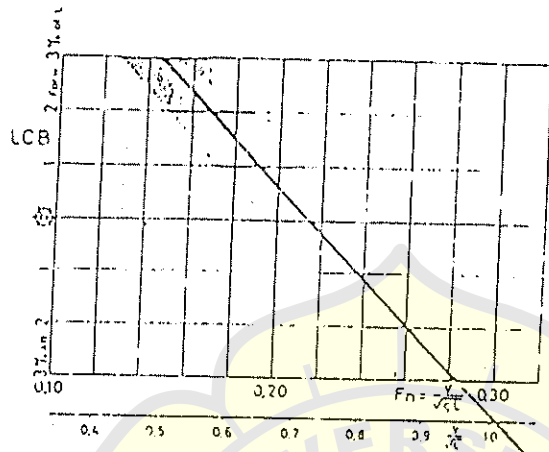
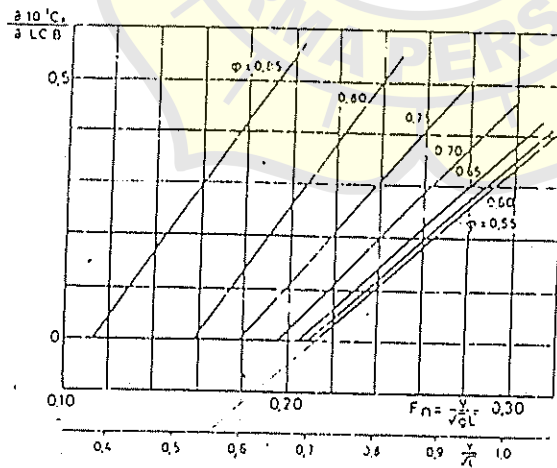
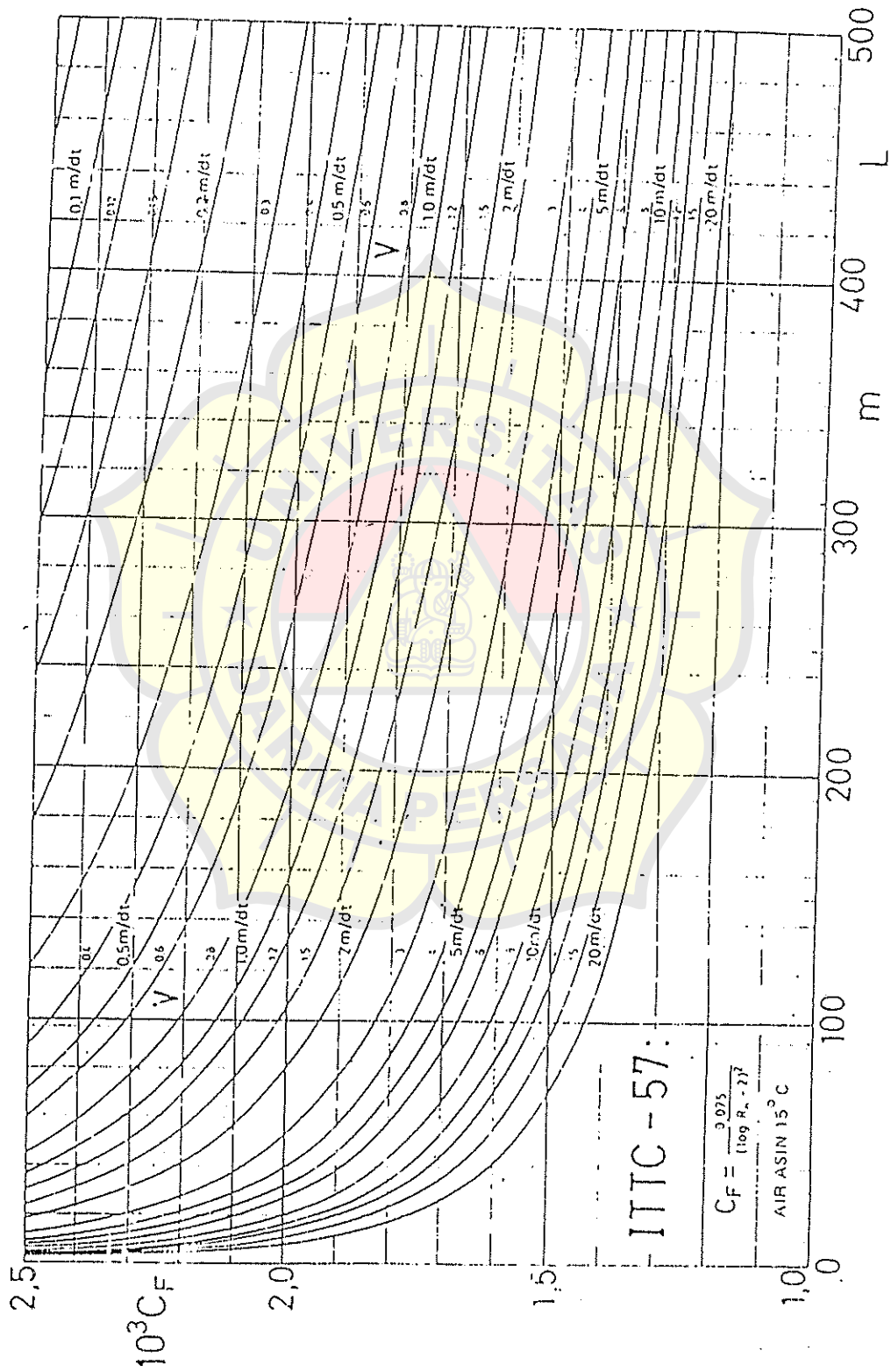


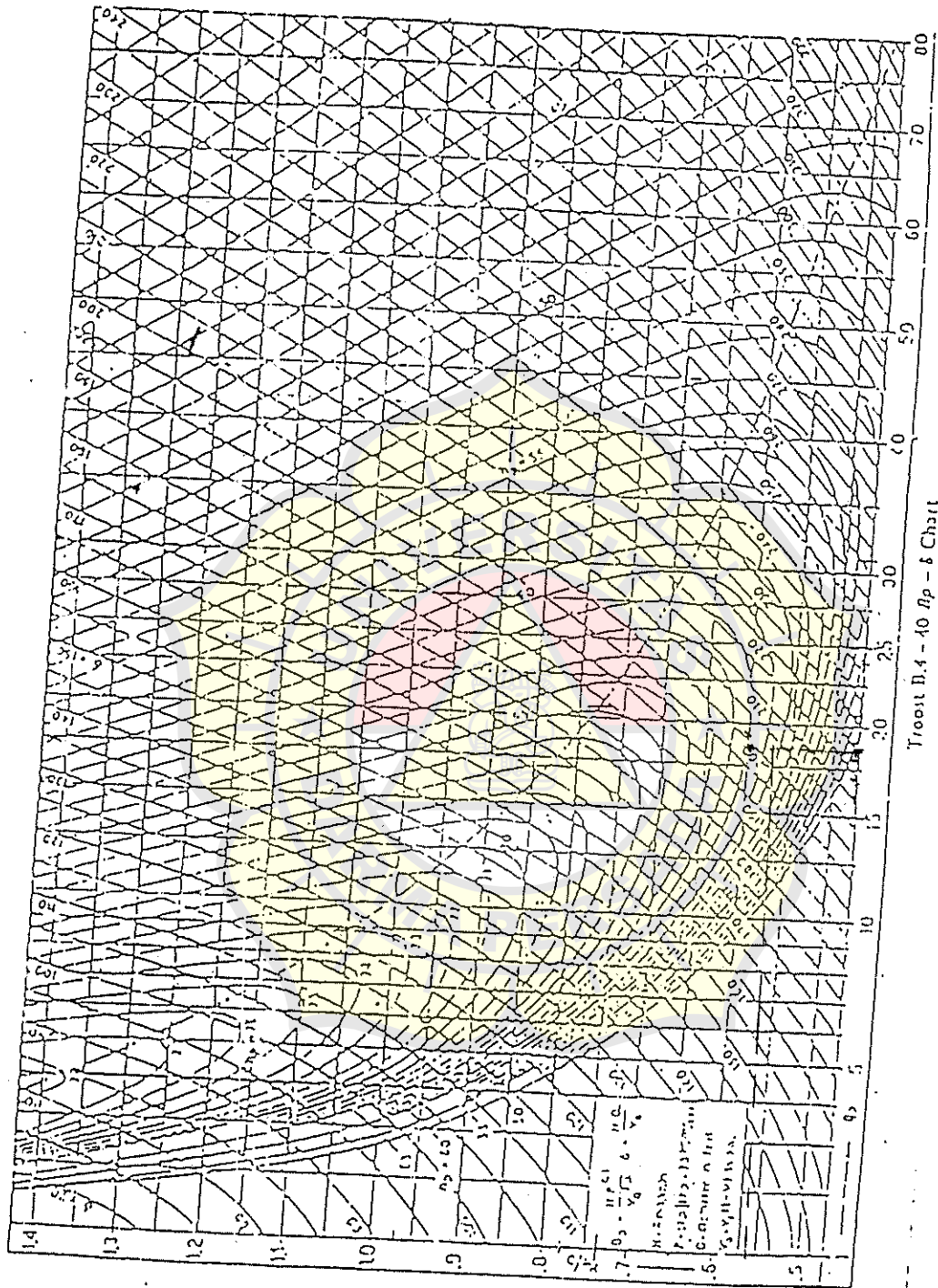
Diagram untuk menentukan koreksi hambatan sisa



Lampiran 10. Diagram ITTC-57

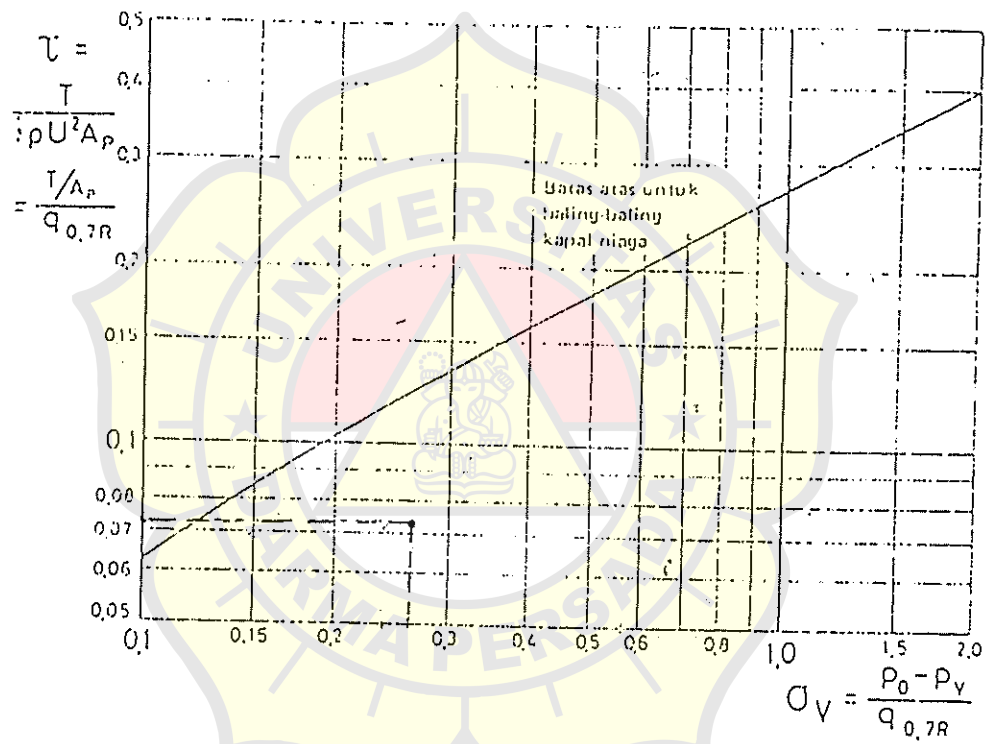


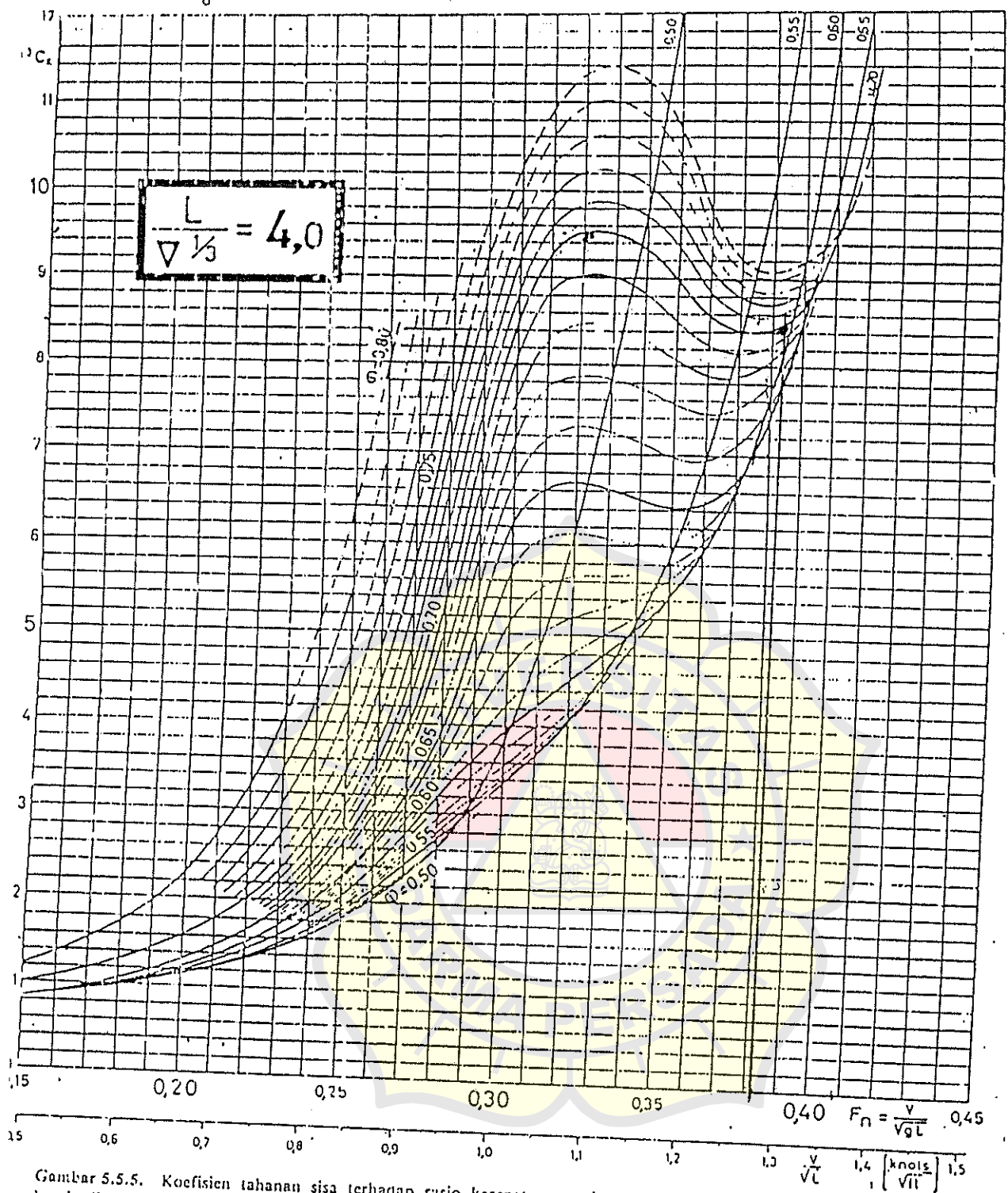
THE DESIGN OF MARINE SCREW PROPELLERS



Troost D.4 - 40 Hp - 8 Chart

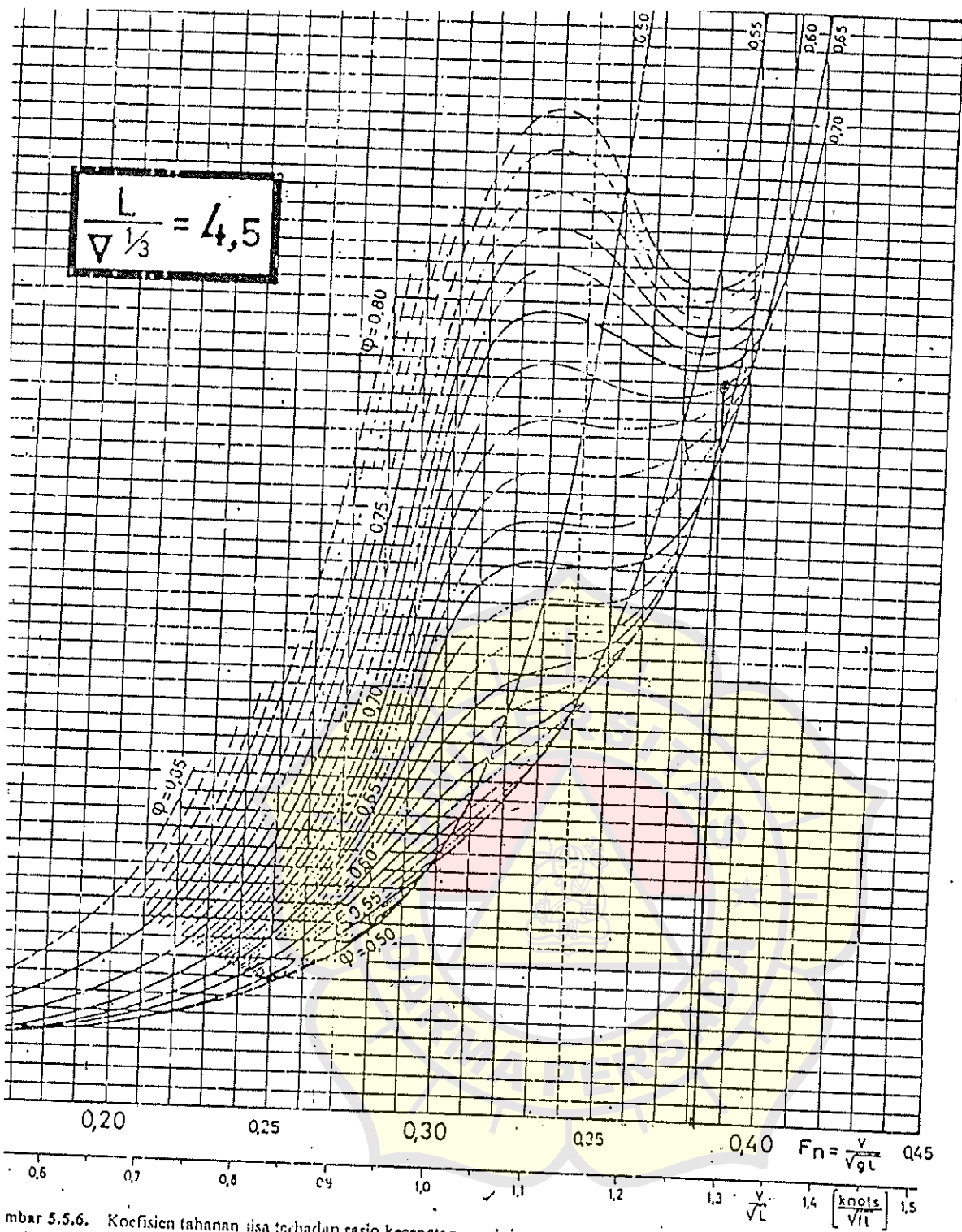
Lampiran 15. Diagram Burril





Gambar 5.5.5. Koefisien tahanan sisa terhadap rusio kecepatan – panjang untuk harga koefisien prismatic longitudinal yang berbeda-beda. $L/\nabla^{1/3} = 4,0$.

$$\frac{L}{\nabla^{1/3}} = 4,5$$



gambar 5.5.6. Koefisien tahanan sisa terhadap rasio kecepatan-panjang untuk harga koefisien prismatik longitudinal yang berbeda-beda. $L/\nabla^{1/3} = 4,5$.

Yanmar Diesel Engine Co., Ltd.



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Outline of Company

Yanmar is the world's largest manufacturer of non-vehicular use diesel engines for marine-use, agriculture and industry. The marine mains cover the range from 5 to 3600 hp, auxiliaries from 5.5 to 4800 hp. In addition, Yanmar produces a wide range of high quality marine gears for all kinds of vessel. Yanmar engines are renowned for their durability, reliability, compactness, lightness of weight, easy handling and fuel efficiency. They incorporate many of the latest technologies, including advanced fuel injection systems, ceramic parts and other new materials, laser-hardening, electronic controls and advanced sensor technologies. Yanmar's marine engine production facilities have been accredited by Lloyd's Register of Shipping, the American Bureau of Shipping and Nippon Kaiji Kyokai. Yanmar marine engines are sold in more than 100 countries, with service bases in 19 key oceanic ports around the world.

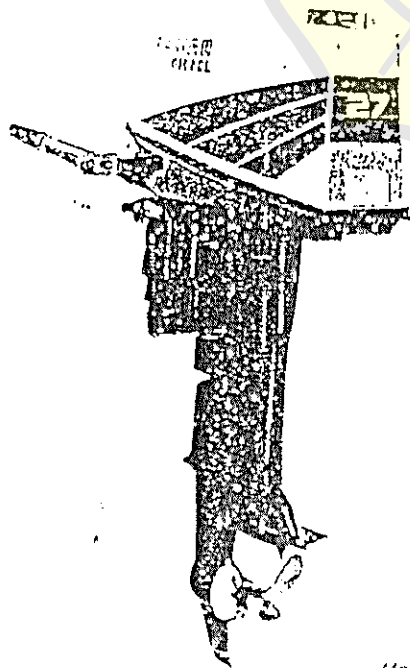
- Yanmar Diesel Engine (U.S.A.), Inc.
1424 North Hundley Street, Anaheim, CA 92806
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The Yanmar Main Engine Line-up with True Marine Lineage

Yanmar's marine engines are designed to meet the realities of today's marine business, to get more nautical mileage out of every drop of fuel, and give more offshore service with less pause for maintenance. These abilities run through the great range of Yanmar marine engines up to 3,200 hp, serving abroad practically every type of vessel as mains, auxiliaries, and as inboard power for pleasure boats.

Fishing Boats

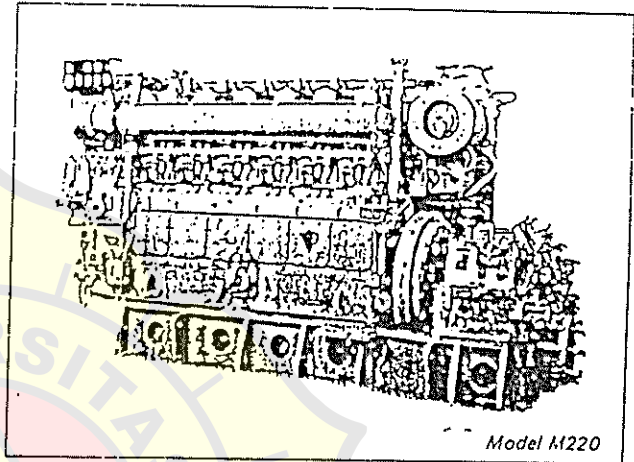
Yanmar is one of the world's most active companies in the supply of diesel engines to fishing boats. We export a major percentage of Japanese marine diesel under 300 hp for fishing boats. Yanmar's rugged and maintenance-free small horsepower diesels are specially suited for powering traditional boats including dhows, canoes and other wooden boats which have been long used in various areas of the world. Other advanced marine diesels precisely meet the demands of modern fishing with their stable power and all-speed performance. A recent technical breakthrough at Yanmar is the perfection of a lightweight diesel outboard which provide unheard of fuel savings and greatly boost productivity in coastal fishing. Together with our quality FRP fishing boats, produced in some 200 models, we are busy promoting modern coastal and offshore fishing in various part of the world.



Model 027

Work Boats

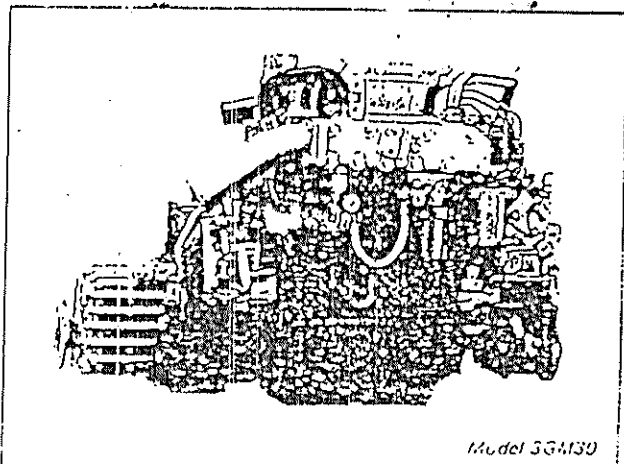
Yanmar's new high output, turbocharged marine diesel line-up is finding increasing and ever more diversified outlets for use in all kinds of cargo boats, tugs, dhows, passenger ferries and high-speed utility boats, thanks to powerful performance, lightness of weight, compactness and cost-cutting features. The new fuel pump delivers at high pressure with such incredibly precise timing that it can achieve almost 100% combustibility.



Model M220

Pleasure Boats

The name of Yanmar has a long and high reputation in major boating countries around Europe and U.S. for quality diesels. Yanmar's pleasure boat engine range covers a total of 28 models including V-drive, Angle-drive and Sail-drive models. Yanmar offers compact, tough, direct injection diesels in the max. output range from 9 hp to 140 hp to meet every type of marine pleasure requirement. Yanmar is also the fastest emerging force in the pleasure craft field, developing numerous sophisticated high speed power plants, especially for game fishing, all fitted with renowned Yanmar pleasure boat diesels.



Model 3G4130

Yanmar Diesel Engine Co., Ltd.

Specifications (Mains)

* Asterisk shows DING270B

Model	No. of cylinders	Bore x stroke: mm	Cont. rating output: hp/rpm	Dry weight: kg	Dimensions L x W x H: mm
D18	2	70 x 70	18/4500	74, 79	722 x 460 x 1286
D27	3	70 x 70	27/4500	82, 87	722 x 460 x 1368
D36	3	70 x 70	36/4500	114, 118	730 x 460 x 1433
1GM10	1	75 x 72	*9/3600	76	517 x 410 x 485
2GM20	2	75 x 72	*18/3600	103	628 x 455 x 495
2GM20F	2	75 x 72	*18/3600	114	643 x 482 x 545
3GM30	3	75 x 72	*27/3600	130	735 x 455 x 495
3GM30F	3	75 x 72	*27/3600	138	740 x 455 x 545
3HM35	3	80 x 85	*34/3400	158	786 x 485 x 617
3HM35F	3	80 x 85	*34/3400	167	791 x 475 x 638
2TD	2	100 x 115	26/2100	330	874 x 526 x 805
3TD	3	100 x 115	39/2100	400	1009.5 x 526 x 825
4TD	4	100 x 115	52/2100	510	1235.5 x 526 x 854.5
4JH2E	4	82 x 86	*50/3600	228	888.4 x 565 x 634.5
4JH2-TE	4	82 x 86	*62/3600	234	888.4 x 565 x 634.5
4JH2-HTE	4	82 x 86	*75/3600	244	888.4 x 565 x 643.5
4JH2-DTE	4	82 x 86	*88/3600	244	888.4 x 565 x 643.5
3ESDE	3	120 x 135	56/1800	680	1255 x 689 x 967
4ESDE	4	120 x 135	74/1800	800	1473 x 694 x 1015
4LH-TE	4	100 x 110	*110/3300	340	1058.2 x 649 x 726
4LH-HTE	4	100 x 110	*140/3300	350	1058.2 x 649 x 726
4CHE	4	105 x 125	70/2300	655	1372 x 688 x 1025
6CHE	6	105 x 125	105/2300	785	1661 x 690 x 1018
6CH-HTE	6	105 x 125	155/2300	830	1658 x 690 x 1056
6CH-DTE	6	105 x 125	190/2300	880	1658 x 690 x 1091
6CH-UTE	6	105 x 125	255/2550	915	1551.5 x 730 x 1111
4KDE	4	145 x 170	110/1450	1430	1701 x 731 x 1164
6KDE	6	145 x 170	165/1450	2263	2495 x 741 x 1202
6HA(M)E	6	130 x 150	165/2000	1145	1529 x 885 x 1097
6HA(M)-HTE	6	130 x 150	240/2000	1230	1529 x 939 x 1233
6HA(M)-DTE	6	130 x 150	300/2000	1250	1529 x 939 x 1233
6GH-UTE	6	117.9 x 140	350/2300	1335	1762 x 898.5 x 1247.5
6LAAE	6	148 x 165	240/1900	2120	1703 x 921 x 1275.5
6LA-DTE	6	148 x 165	400/1800	1890	1719 x 1012.5 x 1358
6LAA-UTE	6	148 x 165	530/1950	1890	1719 x 1012.5 x 1358
8LAA-DTE	Vee 8	148 x 165	530/1900	2420	1983 x 1430 x 1420
8LAA-UTE	Vee 8	142 x 165	650/1850	2420	1983 x 1430 x 1420
12LAA-DTE	Vee 12	148 x 165	800/1800	3300	2553 x 1430 x 1470
12LAA-UTE	Vee 12	148 x 165	1000/1850	3300	2553 x 1430 x 1470
S165	6	165 x 210	200/1200	3100	2574.5 x 1043 x 1586
S165-TA	6	165 x 210	300/1300	3150	2574.5 x 1070 x 1586
S165-UT	6	165 x 210	450/1300	3600	2697 x 1070 x 1586
S165-ST	6	165 x 210	550/1300	3780	2697 x 1070 x 1586
S165-ET	6	165 x 210	600/1250	3780	2847 x 1070 x 1586

(Continued on next page)

Model	No. of cylinders	Bore x stroke: mm	Cont. rating output: hp/rpm	Dry weight: kg	Dimensions L x W x H: mm
S185-UT	6	185 x 230	500/900	6000	3457 x 1170 x 1974
S185-ST	6	185 x 230	550/900	6040	3457 x 1170 x 1974
S185-ET	6	185 x 230	600/900	6090	3457 x 1170 x 2029
S135A-ET	6	185 x 230	650/950	6090	3457 x 1170 x 2029
M200D-UN	6	200 x 260	600/750	7350	3504 x 1120 x 1958
M200D-SN	6	200 x 260	660/750	7350	3508 x 1120 x 1958
M200-DN	6	200 x 260	600/900	6900	3411 x 1120 x 1958
M200-SN	6	200 x 260	800/900	7350	3508 x 1120 x 2013
M200-EN	6	200 x 260	900/900	7700	3650 x 1120 x 2013
M220-UN	6	220 x 300	1000/800	9100	3884 x 1162 x 2038
M220-SN	6	220 x 300	1100/800	9100	3910 x 1162 x 2143
M220-EN	6	220 x 300	1200/800	9100	3903 x 1162 x 2143
T240-UT	6	240 x 310	1000/750	10700	4131 x 1203 x 2244
T240-ST	6	240 x 310	1100/750	10700	4131 x 1203 x 2244
T240-ET	6	240 x 310	1200/750	10700	4131 x 1203 x 2244
T240A-ET	6	240 x 310	1400/800	11930	4303 x 1203 x 2244
T260-UT	6	260 x 330	1300/700	12930	4691 x 1443 x 2388
T260-ST	6	260 x 330	1400/700	12930	4691 x 1443 x 2388
T260-ET	6	260 x 330	1500/700	13080	4691 x 1443 x 2447
T260A-ET	6	260 x 330	1600/750	13300	4691 x 1443 x 2447
Z280-SN	6	280 x 360	1600/650	16550	4947.5 x 1540 x 2658
Z280-ET	6	280 x 360	1800/650	16550	4947.5 x 1540 x 2658
Z280A-EN	5	280 x 360	2000/720	17950	4947.5 x 1540 x 2658
Z280A-GN	6	280 x 360	2200/720	20900	5417 x 1481 x 2558
8Z280-SN	8	280 x 360	2100/650	22580	6288 x 1914 x 2351
8Z280-EN	8	280 x 360	2400/650	22580	6288 x 1914 x 2351
8Z280A-EN	8	280 x 360	2600/720	24330	6288 x 1914 x 2351
8Z280A-CN	8	280 x 360	2900/720	26600	6288 x 1914 x 2351
12T26-ST	Vee 12	260 x 330	2800/700	24800	5989 x 1857 x 2726
12T26-ET	Vee 12	260 x 330	3000/700	25200	6127 x 1982 x 2726
12T26A-ET	Vee 12	260 x 330	3200/750	25200	6127 x 1982 x 2850.5
MF24-HT	6	240 x 420	600/420	12450	4166 x 1363 x 2465
MF24-DT	6	240 x 420	700/420	12450	4166 x 1363 x 2465
MF24-UT	6	240 x 420	800/420	12450	4166 x 1363 x 2465
MF24-ST	6	240 x 420	950/420	12700	4237 x 1363 x 2465
MF26-HT	6	260 x 500	1000/350	16400	4607 x 1485 x 2840
MF26-ST	6	260 x 500	1200/380	17300	4897 x 1485 x 2840
MF28-HT	6	280 x 450	1000/380	18500	4803 x 1577 x 2880
MF28-DT	6	280 x 450	1100/380	19400	5093 x 1577 x 2880
MF28-UT	6	280 x 450	1200/380	19400	5093 x 1577 x 2880
MF28-ST	6	280 x 450	1300/380	19600	5093 x 1577 x 2925
MF33-DT	6	330 x 620	1600/300	26000	5297 x 1785 x 3440
MF33-UT	6	330 x 620	1800/300	26000	5297 x 1785 x 3440
MF33-ST	6	330 x 620	2000/300	26000	5297 x 1785 x 3440

Yanmar Diesel Engine Co Ltd

2-1-1 Yacsu 2-chome, Chuo-ku, Tokyo 105, Japan. Telex: 0222-4733 Yanmar J.

S165 series	4	6L	210	8.40-9.45	1200-1350	117-441	5.57-14.85	210
6N165-EN	4	6L	232	10.83	1400	588	17.28	193
S185 series	4	6L	230	6.90-7.28	900-950	405-478	14.83-15.60	215
M200 series	4	6L	260	6.50-7.80	750-900	441-662	14.69-18.26	193
M220 series	4	6L	300	8.00	800	736-883	16.44-19.73	193
T240 series	4	6L	310	7.75-8.27	750-800	809-1030	15.69-18.72	192
T260 series	4	6L	350	7.70-8.47	900-770	1030-1177	17.12-18.26	201
6N260 series	4	6L	360	9.00	750	1177-1471	16.74-20.93	190
Z280 series	4	6L	360	7.80-8.64	650-720	1324-1471	18.74-18.80	197
R2280 series	4	8L	360	7.80-8.64	650-720	1765-1912	18.74-18.80	197
6N280 series	4	6L	380	9.12	720	1471-1839	17.81-22.26	189
8N280 series	4	8L	380	9.12	720	1912-2354	17.36-21.37	189
6N330 series	4	6L	440	9.09	620	2207-2574	19.29-22.30	188
8N330 series	4	8L	440	9.09	620	2942-3310	19.29-21.70	188
M124 series	4	6L	420	5.88	420	441-588	11.28-15.04	197
M126 series	4	6L	500	5.83-6.67	150-100	538-956	11.90-18.46	194
M129 series	4	6L	520	6.59	380	1030-1177	16.10-18.49	193
M133 series	4	6L	620	6.20-6.82	300-330	1177-1618	15.09-18.86	190

Marine Auxiliaries

Yanmar serves a great range of on-board power demands with its line-up of auxiliary engines. In the cost conscious world of marine transportation, profitable fleet operation has been more important and to meet these needs Yanmar offers

economical inboard co-generation systems including MDO/HFO operation and various fuel pre-treatment systems. The lowest possible fuel consumption is a standard feature of all Yanmar marine auxiliaries, and all can stand extremely long hours continuous operation with major overhauls.



Model T220L

Specifications (Auxiliary)

*The size excluding the fresh water cool

Model	No. of cylinders	Bore x stroke: mm	Cont. rating output: hp/rpm	Dry weight: kg	Dimensions L x W x H: mm
1GM10L	1	75 x 72	6/3000, 7/3600	67	385 x 470 x 502
2GML	2	72 x 72	11/3000, 13/3600	97	481 x 470 x 512
2GMFL	2	72 x 72	11/3000, 13/3600	105	481 x 470 x 562
3GAL	3	72 x 72	17/3000, 20/3600	122	566 x 470 x 512
3GMFL	3	72 x 72	17/3000, 20/3600	130	566 x 470 x 562
3HML	3	75 x 85	21.5/3000, 25.5/3600	147	606 x 470 x 617
3HMFL	3	75 x 85	21.5/3000, 25.5/3600	156	606 x 470 x 646
4CHLN	4	105 x 125	38/1500, 50/1800	500	1089 x 840 x 1021
6CHLN	6	105 x 125	62/1500, 74/1800	620	1378 x 840 x 1022
6CHL-TN	6	105 x 125	74/1500, 100/1800	640	1378 x 840 x 1242
6CHL-HTN	6	105 x 125	100/1500, 120/1800	670	1378 x 840 x 1242
3KDL	3	145 x 170	70/1200, 85/1500	940	1082 x 715 x 1182
4KDL	4	145 x 170	95/1200, 115/1500	1150	1351 x 715 x 1182
5KDL	5	145 x 170	120/1200, 140/1500	1345	1553 x 725 x 1182
6KFL	6	145 x 170	145/1200, 170/1500	1780	1798 x 837 x 1200
6KFL-T	6	145 x 170	185/1200, 225/1500	1890	2114 x 943 x 1448
6KFL-HT	6	145 x 170	220/1200, 270/1500	1930	2114 x 985 x 1448
6KFL-UT	6	145 x 170	270/1200, 300/1500	2050	2139 x 1106 x 1568
6HAL-N	6	130 x 150	125/1500, 150/1800	1150	2000 x 962 x 1278
6HAL-TN	6	130 x 150	150/1500, 180/1800	1200	1910 x 856 x 1322
6HAL-HTN	6	130 x 150	200/1500, 240/1800	1250	1910 x 873.5 x 132
6HAL-DTN	6	130 x 150	250/1500, 300/1800	1270	1910 x 873.5 x 132
6LAAI-DTN	6	148 x 165	360/1500, 420/1800	1950	1766 x 1061 x 1521
8LAAI-DTN	Ver 8	148 x 165	480/1500, 560/1800	2400	1983 x 1316 x 142
12LAAI-DTN	Ver 12	148 x 165	720/1500, 840/1800	3500	2553 x 1430 x 147
S16SL	6	165 x 210	200/1200	2700*	2181 x 1070 x 156
S16SL-T	6	165 x 210	200/1200	2750*	2181 x 1070 x 156
S16SL-HN	6	165 x 210	270/1000, 330/1200	2900*	2214 x 1070 x 156

(Continued on page 2)

Model	No. of cylinders	Bore x stroke: mm	Cont. rating output: hp/rpm	Dry weight: kg	Dimensions L x W x H: mm
165L-DN	6	165 x 210	330/1000, 420/1200	2900*	2214 x 1070 x 1581
165L-UN	6	165 x 210	360/1000, 480/1200	2900*	2214 x 1070 x 1581
165L-SN	3	165 x 210	420/1000, 540/1200	2900*	2214 x 1070 x 1581
165L-EN	6	165 x 210	480/1000, 600/1200	2900*	2214 x 1070 x 1581
185DL-UT	6	185 x 230	420/720, 420/750	5400	2687 x 1134 x 1749
185DL-ST	6	185 x 230	480/720, 480/750	5400	2687 x 1134 x 1749
185DL-ET	6	185 x 230	540/720, 540/750	5400	2687 x 1134 x 1749
185L-UT	6	185 x 230	540/900, 540/1000	5400	2687 x 1134 x 1749
185L-ST	6	185 x 230	600/900, 600/1000	5000	2687 x 1134 x 1749
185L-ET	6	185 x 230	660/900, 660/1000	5000	2687 x 1134 x 1749
185AL-UT	6	185 x 230	600/1200	5000	2687 x 1134 x 1749
185AL-ST	6	185 x 230	660/1200	5000	2687 x 1134 x 1749
200L-UN	6	200 x 260	600/720, 600/750	5800	2919 x 1120.5 x 1844
200L-SN	6	200 x 260	660/720, 660/750	5800	2923 x 1120.5 x 1880
200L-EN	6	200 x 260	750/720, 750/750	5800	2977 x 1120.5 x 1883
200L-UN	6	200 x 260	720/900, 720/1000	5800	2919 x 1120.5 x 1844
200AL-SN	6	200 x 260	830/900, 830/1000	5800	2977 x 1120.5 x 1883
200AL-EN	6	200 x 260	900/900, 900/1000	5800	2977 x 1120.5 x 1833
225L-UN	6	220 x 300	830/720, 830/750	7200	3165 x 1162 x 2070
225L-SN	6	220 x 300	900/720, 900/750	7200	3165 x 1162 x 2070
225L-EN	6	220 x 300	1000/720, 1000/750	7200	3204 x 1162 x 2143
225AL-UN	6	220 x 300	1000/900, 1000/1000	7200	3165 x 1162 x 2070
225AL-SN	6	220 x 300	1100/900, 1100/1000	7200	3211 x 1162 x 2143
225AL-EN	6	220 x 300	1200/900, 1200/1000	7200	3204 x 1162 x 2143
240L-UT	6	240 x 310	1000/720, 1000/750	8400	3394 x 1203 x 2244
240L-ST	6	240 x 310	1100/720, 1100/750	8400	3381 x 1203 x 2244
240L-ET	6	240 x 310	1200/720, 1200/750	8400	3381 x 1203 x 2244
240AL-ST	6	240 x 310	1200/900	8400	3381 x 1203 x 2244
240AL-ET	6	240 x 310	1300/900	8400	3381 x 1203 x 2244
260L-ST	6	260 x 330	1300/720, 1300/750	9600	3711 x 1313 x 2368
260L-ST	6	260 x 330	1400/720, 1400/750	9600	3711 x 1313 x 2368
260L-ET	6	260 x 330	1500/720, 1500/750	9750	3891 x 1343 x 2447
280L-UT	6	280 x 360	1600/720, 1600/750	12400	3895 x 1540 x 2658
280L-ST	6	280 x 360	1800/720, 1800/750	12600	3895 x 1540 x 2658
280L-ET	6	280 x 360	2000/720, 2000/750	12600	3895 x 1540 x 2658
280L-UT	8	280 x 360	2200/720, 2200/750	16200	4888 x 1575 x 2651
280L-ST	8	280 x 360	2400/720, 2400/750	16400	4888 x 1575 x 2651
280L-ET	8	280 x 360	2600/720, 2600/750	16400	4888 x 1575 x 2651
285L-ST	Vec 12	260 x 330	2600/720, 2600/750	18600	4266 x 2360 x 2726
285L-ST	Vec 12	260 x 330	2800/720, 2800/750	18600	4266 x 2360 x 2726
285L-ET	Vec 12	260 x 330	3000/720, 3000/750	19000	4404 x 2360 x 280.5
285L-UT	Vec 12	280 x 340	3200/720, 3200/750	26000	5108 x 2730 x 2937
285L-ST	Vec 12	280 x 340	3600/720, 3600/750	26500	5108 x 2730 x 3005
285L-ST	Vec 16	280 x 340	4000/720, 4800/750	34000	6216 x 2894 x 3266