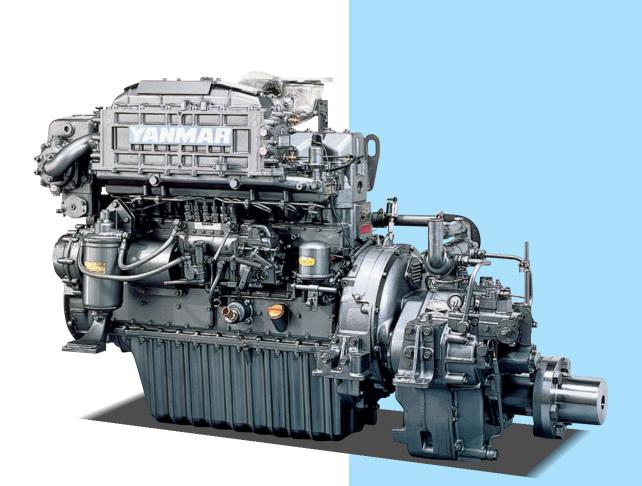


YANMAR

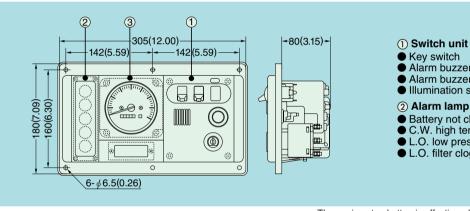
CHE(3) series 57.4~206kW(78~280mhp)

You Get More Performance and Pace from the **Professional in the CHE(3) Series**



Item	Name of accessories	Q'ty	4CHE3	6CHE3	6CH-HTE3	6CH-DTE3	6CH-UTE	Item	Name of accessories		Q'ty	4CHE3	6CHE3	6CH-HTE3	6CH-DTE3	6CH-UTE
Installation	Installation plate for wooden boat	2	Δ	Δ	Δ	Δ	Δ		Battery switch			Δ	Δ	Δ	Δ	Δ
	Adjusting shim for engine	1 set	Δ	Δ	Δ	Δ	Δ		Starting motor 1 (1-pole type, 24V 4.0kW) 1 Starting motor w/harness 1 (2-pole type) 1		1	•	•		•	•
	Adjusting shim for marine gear	1 set	Δ	Δ	Δ	Δ	Δ	Et al la			1 set	•	•	•	•	•
	Installation bolt kit	1 set	∆4	∆8	∆12	∆12	∆12	Electric device						-		
	Jack bolt	1 set	∆4	∆4	∆6	∆6	∆6	001100			1 set	Δ	Δ		Δ	
	Chock liner, bolt & nut for steel boat	1 set	Δ	Δ	Δ	Δ	Δ									
	Exhaust gas pipe	1	△65A	∆80A	△90A	△90A	△100A		Battery (12V×2)		1 set 1	Δ	Δ	Δ	Δ	
Air	Breather hose with fittings	1 set	•	•	•	•	•		Control head (1-ha	Control head (1-handle type)		Δ	Δ	Δ	Δ	
	Exh. flexible joint (T/C out)	1	Δ	Δ	•	•	•		with push-pull calbe	Cable length: 5m	1 set	Δ	Δ	Δ	Δ	
	Intake air filter	1	—		•	•	•			ditto: 7m	1 set	Δ	Δ	Δ	Δ	
	Exh. gas silencer	1	Δ	Δ	Δ	Δ	Δ			ditto: 10m	1 set	Δ	Δ	Δ	Δ	
	Engine room ventilator	1 set	Δ	Δ	Δ	Δ	\triangle			dito: 12m	1 set	Δ	Δ	Δ	Δ	
	Drain separator	1	•	•	•	•		Remote	Wireharness	length: 6m	1	Δ	Δ	Δ	Δ	
Fuel oil	Simplex type fuel filter (mounted on eng.)	1	•	•	•	•	•	control		ditto: 7m ditto: 10m	1					
1 001 011	Fuel sedimentary filter	1	Δ	Δ	Δ	Δ	Δ			ditto: 12m	1	Δ	Δ	Δ	Δ	Δ
	Fuel oil pipe	1	Δ	Δ	Δ	Δ	Δ		Instrument panel for wheel house Dual type instrument panel		1	•	•	•	•	•
	Evacuation hand pump	1	•	•	•	•	•				1	Δ	Δ	Δ	Δ	Δ
Lubrication	Simplex type oil filter	1							Connection wireha	mess for dual panel	1	Δ	Δ	Δ	Δ	\triangle
UII	(mounted on eng.)					•			Stop motor solend	oid	1	Δ	Δ	Δ	Δ	\triangle
	Kingston cock (for wooden boat)	1	Δ	Δ	Δ	Δ	\triangle		Half coupling		1		•	•	•	
	Kingston valve (for steel boat)	1	Δ	Δ	Δ	\triangle	\triangle		Standard spare pa	rts kit	1		•	•	•	
	Raw water filter (simplex)	1	Δ	Δ	Δ	\triangle	\triangle	Othere	Standard tool kit		1		•	•	•	•
system	Bilge pump (electric type)	1	Δ	Δ	Δ	Δ	Δ	Others	Operation manual		1	•			•	
	Fresh water sub-tank	1	•	•	•	•	•		Parts book for engine Service manual		1	Δ	Δ	Δ	Δ	\triangle
	Raw water pipe	1			Δ	Δ	\triangle				1	Δ	Δ	Δ	Δ	

INSTRUMENT PANEL CONTAINS FOLLOWING ITEMS (STANDARD) New B-type For 4CHE3



New D-type For 6CHE3/6CH-HTE3/6CH-DTE3/6CH-UTE

(4) 3 Switch unit ● Key switch **3** Tachometer unit 470(18.50)-• Tachometer with hour meter -225(8.86) -225(8.86)-• Alarm buzzer ④ Sub meter unit Alarm buzzer
 Alarm buzzer stop switch
 L.O. pressure meter • C.W. temp. meter (2) Alarm lamp unit with Boost meter (Except 6CHE3) Alarm monitor device \bigcirc (5) Clock unit Battery not charging Clock C.W. high temp.
 L.O. low pressure ٢ u 📾 Clutch oil pressure L.O. filter clogged • C.W.level 6- *ϕ* 6.5(0.26) (5)

> The engine stop button is effective when a stop motor solenoid is equipped with the engine. A stop solenoid is one of the optional parts.

YANMAR CO.,LTD.

1-32, Chayamachi, Kita-ku, Osaka 530-8311 JAPAN Telephone: 06-6489-8063 Facsimile: 06-6489-1082 http://www.yanmar.co.jp/en/

Unit: mm(in.)

(3) Tachometer unit Tachometer with hour meter • Alarm buzzer Alarm buzzer stop switch Illumination switch 2 Alarm lamp unit with Battery not charging
C.W. high temp.
L.O. low pressure
L.O. filter clogged The engine stop button is effective when a stop motor solenoid is equipped with the engine. A stop solenoid is one of the optional parts.

Note: All data subject to alteration without notice.

You Get More Performance and Pace from the Professional in the CHE(3) Series

The work engines with top popularity ratings.

When it comes to selecting a high performance work engine you can't do better than look at the wide CH range of Yanmar diesel. Running from 57.4kW to 206kW in a selection of 5 models there's an engine here to match most workboat jobs. They are remarkable for their stable, high speed output and for the refinements that have developed these veteran units into today's highly sophisticated performers.

Superior top-end technology

To equip the UTE models for the

ENGINE SPECIFICATIONS

special roles of high speed vessels they have such sophisticated features as a super-high pressure and incredibly precise injection pump, four valves per head and Yanmar's unique 'plum blossom' piston crowns.

Time-tested toughness

Yanmar's successful wave-ribbed 'monoblock' cylinder block, stampforged carbon steel crankshafts and connecting rods are part of the story of strength in all CH engines. They also have a special thermocontrolled, fresh water cooling system that keeps all vital parts at optimum operating temperature, greatly saving wear and prolonging engine life. Another great advantage is the latest Yanmar marine gear, carefully matched by our own technicians to make the ideal combination of strength and smooth power drive.

Servicing simplified

Features such as inspection hatches in the block, for six cylinder models, easy access to maintenance points and simple replacement of piston rings all help the owner keep his engine at work longer hours.

Model (with marine gear) 4CHE3 6CHE3 6CH-HTE3 6CH-DTE3 6CH-UTE 4-cycle, vertical, natural aspirated, 4-cycle, vertical, turbo-charged, Type water cooled diesel engine water cooled diesel engine Number of cylinders 4 in-line 6 in-line 105×125(4.13×4.92) Bore×stroke mm(in.) Displacement lit.(cu.in.) 4.330 (264.2) 6.494 (396.3) 57.4(78)/2550 М 84.6(115)/2550 154(210)/2550 188(255)/2550 125(170)/2550 Rated output kW(hp)/rpm 62.5(85)/2600 95.6(130)/2600 140(190)/2600 206(280)/2600 1 169(230)/2600 Fuel consumption gr/kW•h 252 242 232 225 223 Direction of rotation(crankshaft) Counterclockwise viewed from stern Combustion system **Direct injection** Cooling system Fresh water cooling with seawater & fresh water pumps Lubricating system Forced lubrication with gear pump Starting system Electric starting motor (DC 24V) Dry weight (without marine gear) kg(lbs) 500(1102) 655(1444) 730(1609) 630(1389) 690(1521)

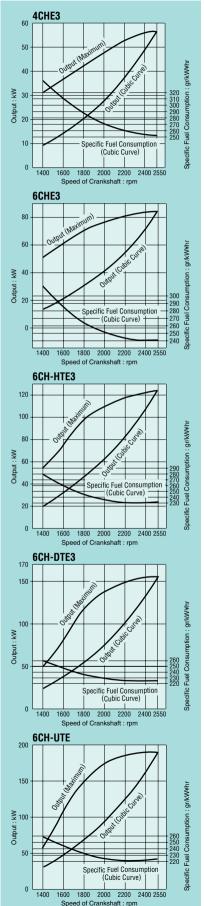
MARINE GEAR SPECIFICATIONS

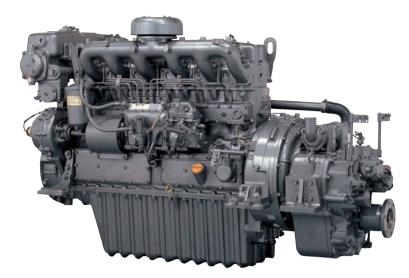
Engine model: 4CHE3										
Model		YX-2	.0-1							
Туре		Hydraulic multi-disc clutch, wet type								
Reduction ratio (Ahead)	2.03	2.55	2.96	3.48						
Propeller shaft speed (at rated output) r	om 1257	999	861	733						
Direction of rotation (propeller shaft)		Clockwise or counter-cloc	kwise viewed from stern							
Dry weight kg(l	os)	68(1	50)							
Engine model: 6CHE3										
Model		YX-30-2								
Туре		Hydraulic multi-disc clutch, wet type								
Reduction ratio (Ahead)	2.03	2.55	2.55 2.96							
Propeller shaft speed (at rated output) r	om 1257	999	861	733						
Direction of rotation (propeller shaft)	Clockwise or counter-clockwise viewed from stern									
Dry weight kg(l	os)	70(154)								
Engine model: 6CH-HTE3										
Model		YX-50S		YX-71						
Туре		Hydraulic multi-disc clutch, wet type								
Reduction ratio (Ahead)	2.02	2.48	2.88	3.53						
Propeller shaft speed (at rated output) r	om 1263	1028	885	722						
Direction of rotation (propeller shaft)		Clockwise or counter-clockwise viewed from stern								
Dry weight kg(l		117(258)								

Engine model: 6CH-DTE3, 6CH-UTE

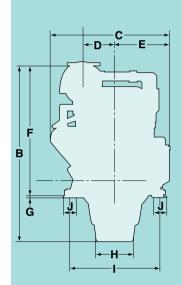
Model		YX	MGN46BL						
Туре	Hydraulic multi-disc clutch, wet type								
Reduction ratio (Ahead)	2.07	2.58	2.91	3.53	3.90	4.42			
Propeller shaft speed (at rated output) rpm	1231	987	877	723	653 577				
Direction of rotation (propeller shaft)	Clockwise or counter-clockwise viewed from stern								
Dry weight kg(lbs)		214(260(573)						

PERFORMANCE CURVES





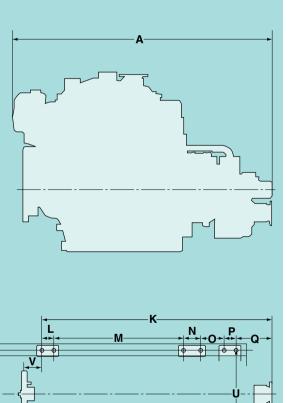






	A	В	C	D	E	F	G	Н	Ι	J	K	L	М	Ν	0	Р	Q	R	S	Т	U	V
4CHE3	1183.5	1021	688	232	292	734	9	234	510	75	971		606.5			—	364.5	585	435	510		139*
6CHE3	1496.3	1018	690	232.5	300	737	9	233	550	75	1321.3	75	803.5	108	-	—	334.8	625	475	550	—	106.5
6CH-HTE3 ×YX-50S	1575	1096	736	193	340	815	9	233	550	75	1399.5	75	803.5	108	95.5	70	247.5	625	475	550	550	106.5
6CH-HTE3 ×YX-71	1599.5	1096	736	193	340	815	9	233	550	75	1424	75	803.5	108	108.5	122	207	625	475	550	550	106.5
6CH-DTE3 ×YX-71	1599.5	1096	736	193	340	815	9	233	550	75	1424	75	803.5	108	108.5	122	207	625	475	550	550	106.5
6CH-DTE3 ×MgN46BL	1578.5	1096	736	193	340	815	9	233	550	75	1403	75	803.5	108	127.5	90	199	720	470	550	650	106.5
6CH-UTE ×YX-71	1599.5	1111	736	195	340	830	9	233	550	75	1424	75	803.5	108	108.5	122	207	625	475	550	550	106.5
6CH-UTE ×MgN46BL	1578.5	1111	736	195	340	830	9	233	550	75	1403	75	803.5	108	127.5	90	199	720	470	550	650	106.5
※ 139(" ∨	" din	nens	ion	of 4C	HE	3) sh	ows	the	dime	ensic	n wi	thou	t dar	nper								

Unit: mm



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