



**MITSUBISHI DIESEL ENGINE
TECHNICAL INFORMATION**

ITEM NO.

T0307-0028E Rev.1 (1/2)

DATE

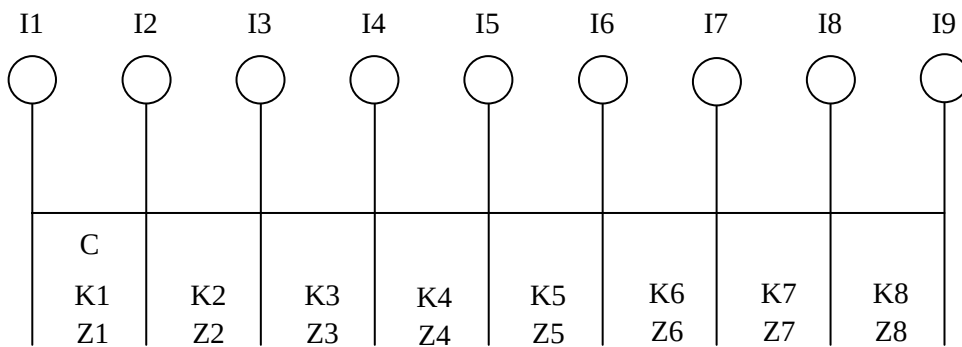
April, 2007

Elastic data of S12R-M Engine

Elastic data of S12R-M Engine are enclosed herein.

Revision	First Edition : April, 2007 (Refer to MTD98-0227B)	Engine Engineering Department Large Engine Design Section		
	Rev.1 : April, 2007 (Refer to MTD04-0105)			
		Approved by	Checked by	Drawn by
		S.MATSUSHITA	T.HASHIGUCHI	T.H.



S12R-M ELASTIC DATA

(USE:45R89-19502 CONNECTING ROD)

	Moment of inertia J kg.m ²		Damping coefficient Nm/rad/s	Spring const. x10 ⁷ Nm/rad	Tensil strength N/mm ²	Section modulus cm ³
I1	DAMPER	2.02	1049.3	K1=0	0.0	Z1 =0.0
I2	PULLEY	2.924	—	K2=1.089	834	Z2 =373.7
I3	No.1 CRANK	0.999	—	K3=0.735	834	Z3 =373.7
I4	No.2 CRANK	0.610	—	K4=0.735	834	Z4 =373.7
I5	No.3 CRANK	0.999	—	K5=0.735	834	Z5 =373.7
I6	No.4 CRANK	0.999	—	K6=0.735	834	Z6 =373.7
I7	No.5 CRANK	0.610	—	K7=0.735	834	Z7 =373.7
I8	No.6 CRANK	0.998	—	K8=1.304	834	Z8 =373.7
I9	FLYWHEEL	11.21	—			

Hysteresis constant: 92 No. of Cylinder: 12 Bore:170mm Stroke:180mm

Length of Con-Rod: 340mm Mass of Reciprocating Parts: 12.630 kg

Firing order:1-12-5-8-3-10-6-7-2-11-4-9

Firing interval:0-60-120-180-240-300-360-420-480-540-600-660

APPLICATION : MARINE USE

The data is subject to change without notice.


MITSUBISHI HEAVY INDUSTRIES, LTD.
 GENERAL MACHINERY & SPECIAL VEHICLE