

Motor/Engine: MAN E3262 E302
Leistung/Power: 275 kW @ 1500min⁻¹
Zyl/Cylinders: V12

Venturi: GM 200/100

Gas: Natural
Lambda: 1

Pos.	Qty.	Description	Item	HZN
1.1		Speed/ Load Control PANDAROS 2040		
	1	Controller PANDAROS	DC 2040.6-19	622-00-051-01
	1	Actuator Throttle Valve	StG 2040.25-SV	512-00-012-03
	1	Cable Harness Actuator	10m	620-81-256-6005
	1	Cable Harness Pickup	10m	620-81-248-6005
	1	Lever arm	RH 2040-01	512-80-001-00
	1	Pickup 5/8" - 18 UNF-2A	IA 12-76	600-00-006-02
1.2		Speed/ Load Control PANDAROS 3⁺		
	1	Controller PANDAROS	DC 3.6-19	622-00-063-00
	1	Actuator with integrated Throttle Valve	DK-200-110 / StG 3 ⁺	454-00-110-50
	1	Actuator Cable	10m	620-81-281-9005
	1	Pickup Cable	10m	620-81-248-5005
	1	Pickup 5/8" - 18 UNF-2A	IA 12-76	600-00-006-02
2.2		GM E-LES SMC Positioner		
		For Natural Gas use:		
	1	Gas mixer Housing	GM 200-0100	464-80-000-00
	1	Venturi Insert Natural Gas*	VE-200-1001-36-K22-4,9	464-83-107-49
	1	Mounting plate Rp 2"	MP 200	463-19-025-00
	1	Electronically controlled MAS E-LES 50.3 SMC		472-00-021-00
	1	Cable harness (Input 4-20mA, 0-5V, PWM, Feedback, Ref, Stop, Error) 10 m		490-81-012-00
2.3		AFR-Control KRONOS 20 (Optional)		
	1	Controller Closed Loop	KRONOS 20-01 CL-LS	620-00-118-04
	1	Combined Pressure/ Temp.sensor		600-00-082-00
	1	Cable Harness Sensor		600-81-051-00
	1	Lambda Sensor $\lambda=1$		010-80-020-02
	1	Cable for Lambda Sensor		600-81-054-00
	1	Pick up isolator *)	PUI-01	300-00-175-00
		or		
	1	Pickup 5/8" - 18 UNF-2A *)	IA 12-76	600-00-006-02
	1	Cable Harness Pickup *)	10 m	620-81-047-10
		*) If PANDAROS DC XX.6-19 is used, alternatively, engine speed can be read via HZM-CAN. In this case, please order 620-00-118-04 with software Kronos20_ac004XX_CL_Lambda1_HZMCAN_AC_DC.dwn		

*note: For the correct dimension of the venturi insert the gas data must be known. Please fill out the order information and send this to the head office. <http://www.heinzmann.de/en/engine-and-turbine-management/system-solutions/gas-engine-management>

Pos.	Qty.	Description	Item	HZN
3		Ignition Control PHLOX II 12 Cylinder		
	1	Controller PHLOX	PHLOX II IC-12	680-00-010-01
	1	Cable Harness Input or	without CAN	680-81-002-17
	1	Cable Harness Input	with CAN	680-81-002-18
	1	Pickup camshaft	HIA-M12-76	600-00-140-00
	1	Ignition Rail MAN E3262 E 12 cyl. with cable harness, mounting set and ignition coils grey; left		Z00-21-084-00
	1	Ignition Rail MAN E3262 E 12 cyl. with cable harness, mounting set and ignition coils grey; right		Z00-21-085-00
	12	Spark plug connector w/ ring connector for Bosch MR3DII360 M18		Z00-19-052-00
4		Knock control system ARIADNE 12 Cylinder		
	1	Knock controller	KC 01-IP 00	620-00-137-12
	4	Knocksensor *)	KS 4-K1	010-80-097-00
	4	Connecting Cable Knock Sensor *)		600-81-082-00
	1	Pickup camshaft **)	HIA-M12-76	600-00-140-00
	1	Cable for Pickup HIA S3 / M12 **)	10 m	620-81-177-00

*note: Knock sensors are potentially already installed on the engine by MAN, please check! Sensor cables will fit to originally engine mounted sensors as well.

**note: Pickup may be shared with the ignition system by using a splitter. Pickup or splitter not necessary in combination with Heinzmann ignition system PHLOX. Knock sensors are typically pre-installed on the engine