

Motor/Engine:	MAN E 2848 LE322
Leistung/Power:	265 kW @ 1500min ⁻¹
Zyl/Cylinders:	V8
Venturi:	GM 140/76 GMA 65
Gas:	Natural
Lambda:	1,6
Gas:	Biogas 50% CH ₄
Lambda:	1,45

Pos.	Qty.	Description	Item	HZN
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
2.1		GMA AFR Positioner		
	1	Gap gas mixer annular	GMA 65	493-00-003-00
	1	Cable harness (Input 4-20mA, 0-5V, PWM, Feedback, Ref, Stop, Error) 10 m		490-81-012-00
or				
2.2		GM E-LES SMC Positioner		
		For Natural Gas use:		
	1	Gas mixer Housing	GM 140-01	463-80-000-02
	1	Venturi Insert Natural Gas*	VE-140-0761-24-S12-4,4	463-83-762-44
	1	Mounting plate Rp 2"	MP 140	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
		For Biogas use:		
	1	Gas mixer Housing	GM 140-01	463-80-000-02
	1	Venturi Insert Biogas* 50%CH ₄	VE-140-0761-24-S12-6,5	463-83-762-65
	1	Mounting plate Rp 2"	MP 140	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

*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>

2.3		AFR-Control KRONOS 20 (Optional); only in combination with E-LES SMC		
	1	Controller Closed Loop	KRONOS 20-01 CL	620-00-118-01
	1	Combined Pressure/ Temp.sensor		600-00-082-00
	1	Cable Harness Sensor		600-81-051-00
	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 620-00-118-01 with software Kronos20_ac002XX_CL_Power_HZMCAN_AC_DC_GC.dwn		

Pos.	Qty.	Description	Item	HZN
3		Ignition Control PHLOX II 8 Cylinder		
	1	Controller PHLOX	PHLOX II IC-08	680-00-010-00
	1	<i>Cable Harness Input</i>	<i>without CAN</i>	<i>680-81-002-17</i>
	1	<i>Cable Harness Input</i>	<i>with CAN</i>	<i>680-81-002-18</i>
	1	Pickup camshaft	HIA-M12-76	600-00-140-00
	1	Ignition Rail 8 cyl. with cable harness, mounting set and ignition coils grey; left		Z00-21-056-00
	1	Ignition Rail 8 cyl. with cable harness, mounting set and ignition coils grey; right		Z00-21-057-00
	8	Ignition lead w ring connector for M6		Z00-19-038-00
4		Knock control system ARIADNE 8 Cylinder		
	1	Knock controller	KC 01-IP 00	620-00-137-12
	8	Knocksensor	KS 1-01	010-80-022-00
	8	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: Pickup may be shared with the ignition system by using a splitter. Pickup or splitter not necessary in combination with Heinzmann ignition system PHLOX.