

Motor/Engine: MAN E 0834 E 302
Leistung/Power: 54 kW @ 1500min⁻¹
Zyl/Cylinders: R4

Venturi: GM 50/42

Gas: Natural
Lambda: 1

Pos.	Qty.	Description	Item	HZN
1.1		Speed/ Load Control PANDAROS 2010		
1		Controller PANDAROS	DC 2010.6-19	622-00-051-00
1		Actuator Throttle Valve	StG 2010.21-SV-TS	511-00-013-01
1		Cable Harness Actuator	10m	620-81-256-5005
1		Cable Harness Pickup	10m	620-81-248-5005
1		Lever arm	RH 2010-01	452-17-002-01
1		Pickup 5/8" - 18 UNF-2A	IA 12-76	600-00-006-02
		Throttle valve DK 50		
1		Throttle Valve	DK50-0420	451-00-042-00
1		Throttle Lever	DKH 50-01	451-80-000-00
1		Anti-vibration tube for MAN E0834 E302		451-19-032-00
OR				
1.2		Speed/Load Control ORION DC10		
1		DK50-42/DG 3010.10 Speed/Load Control		451-00-042-16
1		Cable harness	10 m	521-81-036-08
1		Pickup 5/8" - 18 UNF-2A	IA 12-76	600-00-006-02
1		Anti-vibration tube for MAN E0834 E302		451-19-032-00
2.1		GM E-LES SMC Positioner		
1		Gas mixer Housing	GM 50-01	461-80-000-00
1		Venturi Insert Natural Gas*	VE-50-0421-24-S12-2,7	461-83-422-27
1		Electronically controlled MAS E-LES 30.3 SMC		472-00-024-00
2		Mounting Plate 1"	MP 100-01	462-19-002-00
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>

2.2		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		

Pos.	Qty.	Description	Item	HZN
3		Ignition Control PHLOX II 4 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	or <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 4 cyl. with cable harness, mounting set and ignition coils grey		Z00-21-061-00
	4	Ignition lead w ring connector for M6		Z00-19-036-00
4		Knock control system ARIADNE 4 Cylinder		
	1	Knock controller	KC 01-IP 00	620-00-137-06
	4	Knocksensor	KS 1-01	010-80-022-00
	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: Pickup may be shared with the ignition system by using a splitter. Pickup or splitter not necessary in combination with Heinzmann ignition system PHLOX.