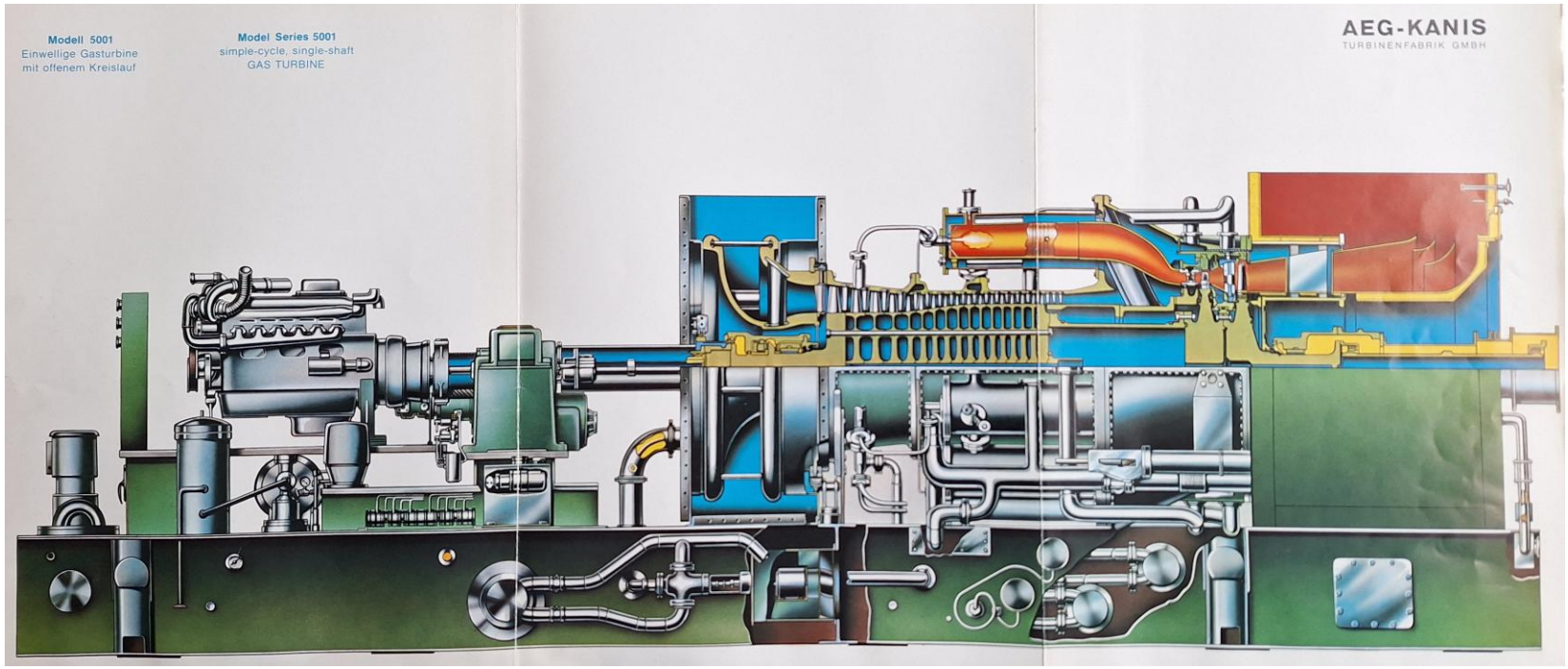
Gasturbine Frame 5
SCGT Unit 1-3
technical data

Available for purchase:

- **- 3 x Frame 5 gas turbines as a package unit**
- **- single-cycle gas turbines (SCGT)**
- **- incl. GE starting motor (black-start capable)**
- **- incl. generator**
- **- control system, if desired**

- Unit 1 was in full operation up to 31.12.2022
- Unit 2 was in service until 31.03.2026
- Final shut-down of unit 3 is expected to the end of 2026



Gasturbine Frame 5
SCGT Unit 1-3
technical data

AEG-KANIS

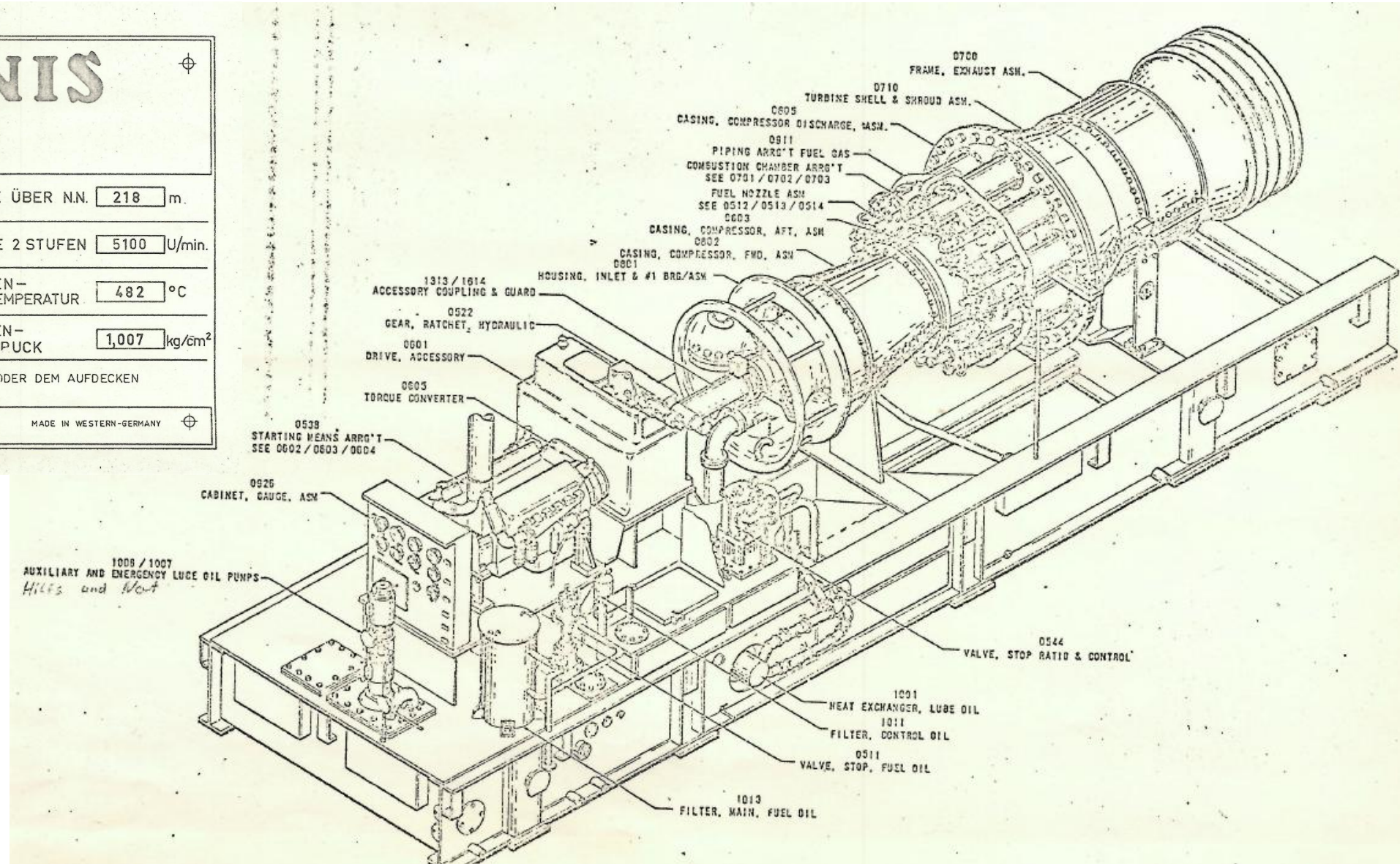
GASTURBINE

SERIEN-NR.	226120	LEISTUNG	23.100 kW	HÖHE ÜBER N.N.	218 m.
VERDICHT. 17 STUFEN	5100 U/min.			TURBINE 2 STUFEN	5100 U/min.
LUFTEINTRITTS-TEMPERATUR	15 °C			TURBINEN-ABGASTEMPERATUR	482 °C
LUFTEINTRITTSDRUCK	1,007 kg/cm²			TURBINEN-ABGASDRUCK	1,007 kg/cm²

ACHTUNG ! VOR AUFSTELLUNG, INBETRIEBNAHME ODER DEM AUFDECKEN BETRIEBSVORSCHRIFT LESEN !

MADE IN WESTERN-GERMANY

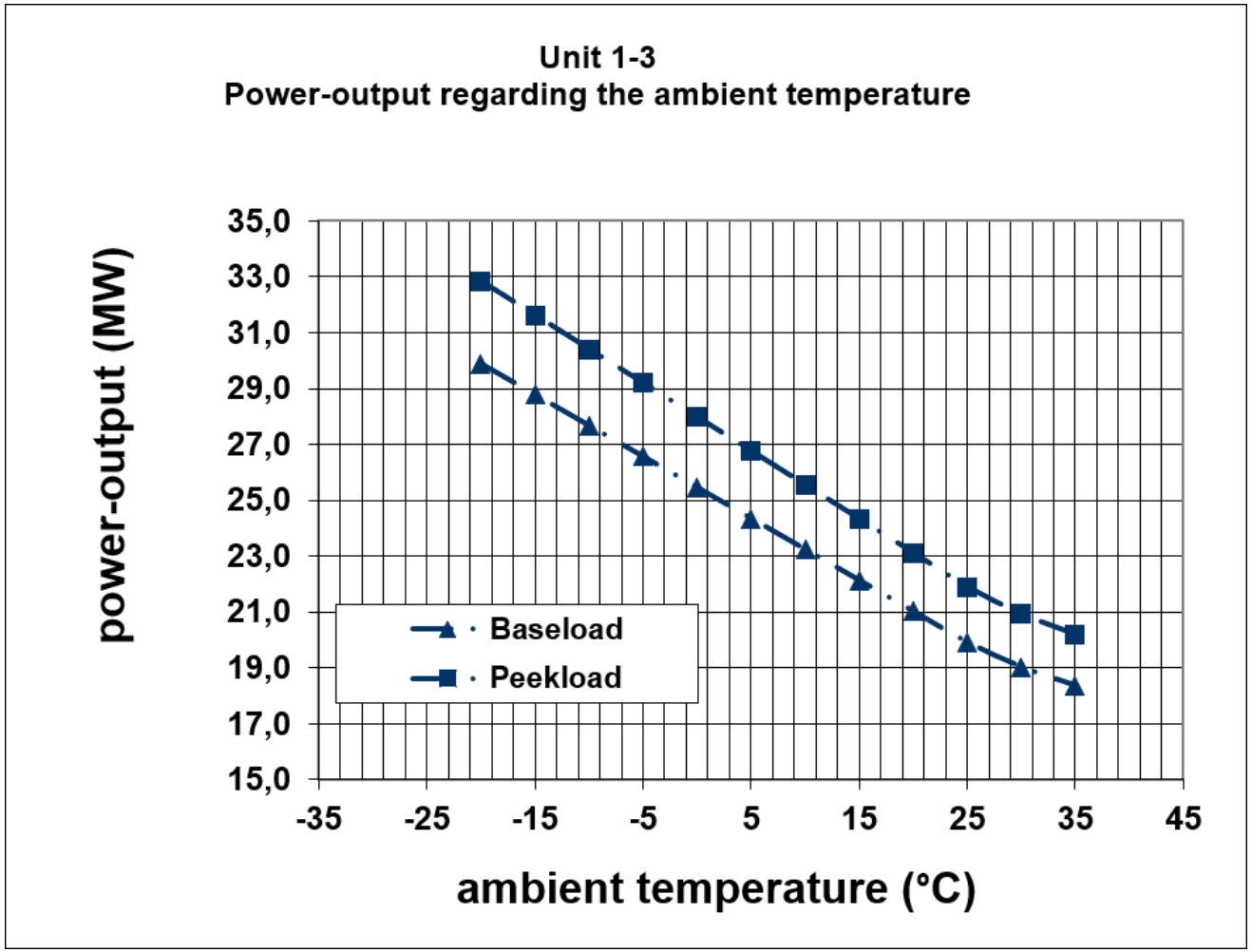
S29852-D-1



Gasturbine Frame 5
SCGT Unit 1-3
technical data

SCGT (single cycle gas turbine)				
Main data	**units**	**Unit 1**	**Unit 2**	**Unit 3**
Main Fuel		fuel oil	fuel oil	fuel oil
type of power plant		SCGT	SCGT	SCGT
Commissioning	[year]	1974	1974	1974
Gross Power Output	MW	23 MW	23 MW	23 MW
Net Power Output	MW	23 MW	23 MW	23 MW
district heating	MW	---	---	---
efficiency at base load	%	25,5 %	25,5 %	25,5 %
Commissioning		1974	1974	1974
Decommissioning		31.12.2022	31.03.2026	--
eq. Operating Hours (Generator) 31.12.2022	EOH	7.634	7.390	7.520
Turbine	**unit**	**Unit 1**	**Unit 2**	**Unit 3**
Type		Open-Air-Gasturbine	Open-Air-Gasturbine	Open-Air-Gasturbine
Manufacturer		AEG-Kanis	AEG-Kanis	AEG-Kanis
Gross Power Output	MW	23	23	23
Year of construction		1973	1973	1973
Steam Generator	**unit**	**Unit 1**	**Unit 2**	**Unit 3**
Type		no steam generator	no steam generator	no steam generator
Manufacturer				
Thermal output	MW			
Nominal steam output	t/h			
Live steam pressure (at Turbine)	bar			
Live steam temperature (at Turbine)	°C			
Generator	**unit**	**Unit 1**	**Unit 2**	**Unit 3**
Type				
Manufacturer		Rade-Conar	Rade-Conar	Rade-Conar
Cooling System		Air-Cooling	Air-Cooling	Air-Cooling
Apparent Power	MVA	28,0	28,0	28,0
Nominal Voltage	kV	10,5	10,5	10,5

Gasturbine Frame 5
SCGT Unit 1-3
technical data



ambient temperature	fuel oil			
	baseload		peekload	
	Power Output	Efficiency	Power Output	Efficiency
°C	MWel	%	MWel	%
-20	29,9	25,6	32,8	26,2
-15	28,8	25,5	31,6	26,1
-10	27,7	25,4	30,4	26,0
-5	26,6	25,3	29,2	25,9
0	25,5	25,3	28,0	25,9
5	24,3	25,2	26,8	25,8
10	23,2	25,1	25,5	25,7
15	22,1	25,0	24,3	25,6
20	21,0	24,9	23,1	25,5
25	19,9	24,8	21,9	25,4
30	19,0	24,8	20,9	25,3
35	18,4	24,7	20,2	25,3

Gasturbine Frame 5
SCGT Unit 1-3
technical data

Operating hours and starts over the last 15 years																	since commissioning up to 31.12.2025	
year		**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**		**EOH [1)]**
unit 1	**Starts**	3	16	25	31	32	15	31	38	19	29	19	13	0	0	0	1.167	7.634
	Oh	3,6	21,1	16,4	38,8	13,7	40,1	129,5	113,3	65,5	60,9	69,2	26,9	0,0	0,0	0,0	1.799	
unit 2	**Starts**	10	13	16	26	16	27	39	34	20	23	27	20	5	8	14	1.166	7.571
	Oh	6,5	18,9	14,7	36,3	21,0	45,4	119,5	107,3	69,1	52,3	75,0	34,3	4,4	19,9	12,4	1.741	
unit 3	**Starts**	7	21	22	22	18	19	41	34	20	27	21	11	21	9	13	1.191	7.827
	Oh	6,1	23,6	14,3	38,5	20,4	18,1	116,1	112,2	66,3	68,0	63,3	47,5	49,5	23,5	16,2	1.872	

[1)] EOH = 5 x Start + Oh

Gasturbine Frame 5
SCGT Unit 1-3
current status

Current status unit 1-3

- Unit 1 was available and in full operation up to and including December 31, 2022.
- Unit 2 was in operation until 31.03.2026.
- Unit 3 is still in service (expected final shut-down: Q3/2026).
- Decommissioning already starts.
- Unit 1 and Unit 2 could be dismantled immediately (declarations for all subcomponents required under licensing law).