

# Single Extraction Steam Turbine

Specifications & Range				
Model No.	SE-CF-50	SE-CF-60	SE-CF-135	Unit
Output	50	60	135	MW
Speed	3000	3000	3000	rpm
Rated Steam Parameters				
Flow	233.5	325	450	t/h
Pressure	8.33	8.83	13.24	MPa.a
Temperature	535	535	535	°C
Rated Extraction Conditions				
Flow	160	160	70	t/h
Pressure	0.981	0.981	0.981	MPa.a
Temperature	260	256.7	402.3	°C
Max. Extraction Flow	200	200	120	t/h
Exhaust Pressure	3.81	4.3	4.9	kPa.a
Steam Rate				
Design Condition	5.74	5.34	3.33	kg/kW.h
Condensing Condition	3.7	3.75	N/A	kg/kW.h
Heat Rate				
Design Condition	6436	6780	7533	kg/kW.h
Condensing Condition	9657	9630	N/A	kg/kW.h
Feed Water Temperature	220	225.4	246	°C
Weight of Turbine	113	113	405	ton
Weight of Upper Half	27	27	N/A	ton
Weight of Turbine Rotor	17.5	17.5	N/A	ton
External Dimension	8.3 x 5.6 x 4.6	8.3 x 5.6 x 4.6	8.3 x 5.6 x 4.6	m
Center Height of Turbine	800	800	800	mm

**Note:**

- (1) The rotational direction of all turbines is clockwise viewed downstream.
- (2) The above data represent the maximum values of the specification of the machine.
- (3) The vendor reserves the right to make changes to the specifications in order to improve the products.



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The principle design features of the extraction steam turbines are all structurally impulse, non-reheating, single cylinder type for power plants. The steam extracted from the steam turbine can be used for industrial process or heating purposes. The extraction pressure, flow and generating electricity power can be adjusted according to the specific requirements of the customers, due to excellent operating flexibility of the extraction steam turbines. The turbines use the advance 3-D technology for through flow path. The operating units are quite compact in structural size, but with high performance.

These steam turbines are fully CNC controlled through the internal hydraulic system. The products are equipped with protective monitoring system, which would ensure the safety and reliability of the steam turbines.

