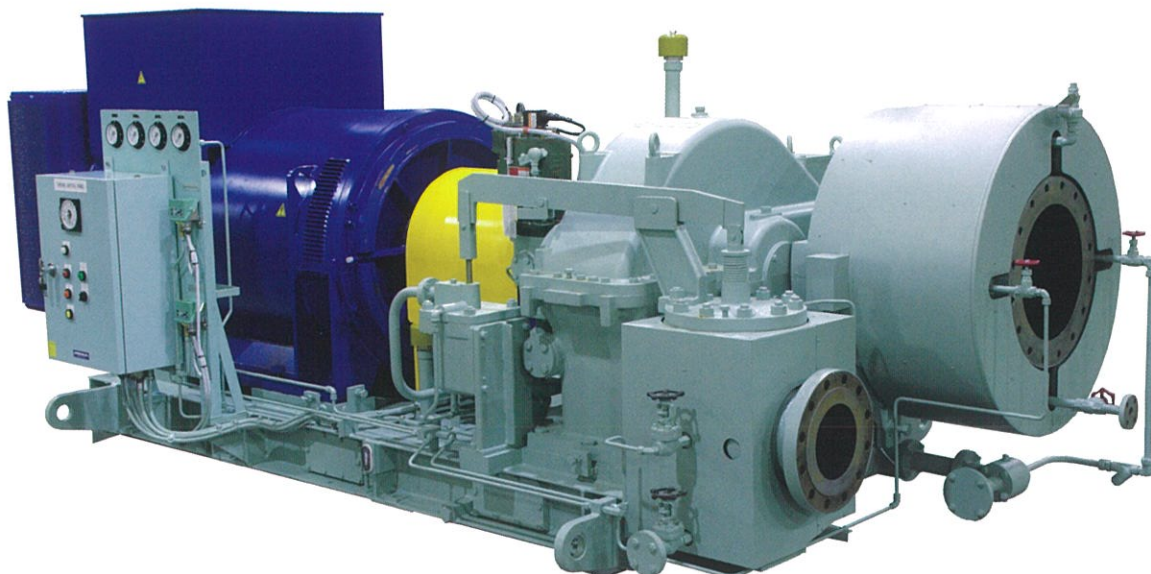


Curtis single-stage with integral reduction gear

STEAM TURBINES

RB5(M)


■ GENERAL CHARACTERISTICS

Item	Model	RB5(M)
Max. output	(kW)	2000
Max. speed (turbine shaft)	(rpm)	6000
Speed (output shaft)	(rpm)	1500, 1800
Rotation of output shaft		CCW facing turbine toward driven machine
Max. inlet steam pressure	(MPaG)	3.3
Max. inlet steam temperature	(°C)	350
Max. exhaust steam pressure	(MPaG)	0.5
Steam inlet bore	(mm)	200
Steam exhaust bore	(mm)	400
Lubrication system		Forced lubrication
Main LO pump	(m ³ /h x MPaG)	6 × 0.2
Prim. LO pump	(m ³ /h x MPaG)	6 × 0.04
Control system		Single valve + Hand nozzle valve
Governor		Woodward UG-25+
Gland seal		Labyrinth packing
Weight (with generator)	(kg)	10100

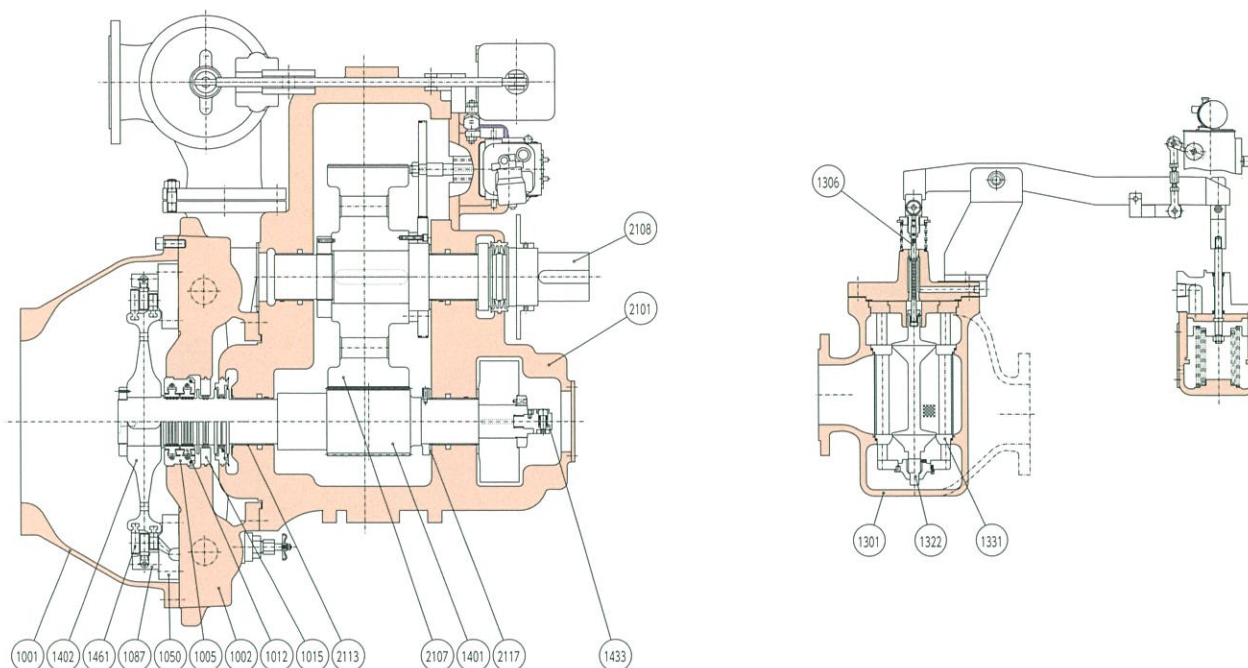
Governor

Max. speed regulation 0.5%, 0~4%
 Max. speed variation ±0.25%
 Max. speed rise 7%
 Speed range +5% ~ -50%
 NEMA class D

Emergency Trip Device

Overspeed trip 115% of rated speed
 Low LO pressure trip Below 0.05 MPaG
 Turbine rotor axial movement trip... ±0.7mm

DESIGN & MATERIALS



PART NO.	NAME OF PART	MATERIAL		REQ.NO. FOR 1 TURBINE	PART NO.	NAME OF PART	MATERIAL		REQ.NO. FOR 1 TURBINE
		NAME	JIS				NAME	JIS	
1001	EXHAUST CASING	DUCTILE CAST IRON	FCD400	1SET	1331	GOVERNOR VALVE LINER	STAINLESS STEEL	SUS403	1
1002	STEAM CHEST	CAST STEEL	SCPH2	1SET	1401	TURBINE SHAFT	Ni-Cr-Mo STEEL	SNCM439	1
1005	PACKING CASE	CARBON STEEL	S35C	1SET	1402	DISC ROTOR	Ni-Cr STEEL	SNC836	1
1012	LABYRINTH PACKING	Ni-Br CASTING		2SETS	1433	OVERSPEED TRIP DEVICE	CARBON STEEL	S35C	1
1015	STEAM GUARD	Ni-Br CASTING		1SET	1461	MOVING BLADE	STAINLESS STEEL	SUS410J1	1SET
1050	NOZZLE	STAINLESS STEEL	SUS403	1	2101	REDUCTION GEAR CASING	CAST IRON	FC200	1SET
1087	STATIONARY BLADE SEAT	CARBON STEEL	S25C	1	2107	WHEEL	Cr-Mo STEEL	SCM440	1
1301	GOVERNOR VALVE CASING	CAST STEEL	SCPH2	1	2108	OUTPUT SHAFT	FORGED STEEL	SF540A	1
1306	GOVERNOR VALVE STEM	STELLITE		1	2113	BEARING METAL	AL-ALLOY METAL WITH CARBON STEEL		1SET
1322	GOVERNOR VALVE	STAINLESS STEEL	SUS420J2	1	2117	THRUST BEARING METAL	WHITE METAL WITH CARBON STEEL	WJ2 S25C	1SET

OUTLINE DIMENSIONS

Dimensions : mm

