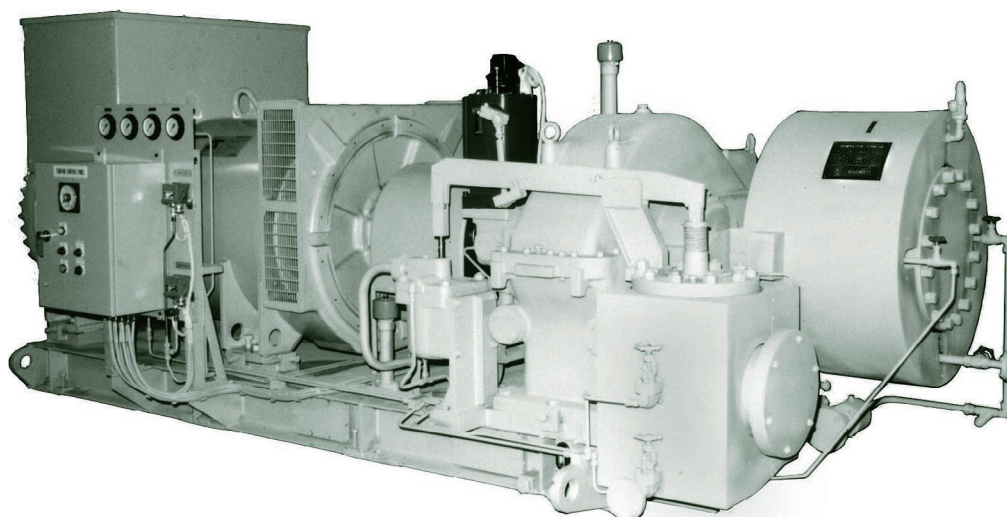


Curtis single-stage with integral reduction gear STEAM TURBINES

SHINKO RB

■ APPLICATIONS

Generators
Pumps
Others



■ SPECIFICATIONS

Max. output 2000 kW
Max. exhaust steam pressure .. 0.5 MPaG
Gland seal Labyrinth packing
Lubrication system Forced lubrication

■ GENERAL CHARACTERISTICS

Item	Model	RB 4	RB 5
Max. output	(kW)	1200	2000
Max. speed (turbine shaft)	(rpm)	7000	
Speed (output shaft)	(rpm)	870 ~ 2000	
Rotation of output shaft		CCW facing turbine toward driven machine	
Max. inlet steam pressure	(MPaG)	3.3	
Max. inlet steam temperature	(°C)	425	
Max. exhaust steam pressure	(MPaG)	0.5	
Steam inlet bore	(mm)	150	200
Steam exhaust bore	(mm)	400	400
Lubrication system		Forced lubrication	
Main LO pump	(m ³ /h x MPaG)	6 x 0.2	6 x 0.2
Prim. LO pump	(m ³ /h x MPaG)	6 x 0.04	6 x 0.04
Governor		Woodward UG	
Weight (without generator)	(kg)	3700	4600

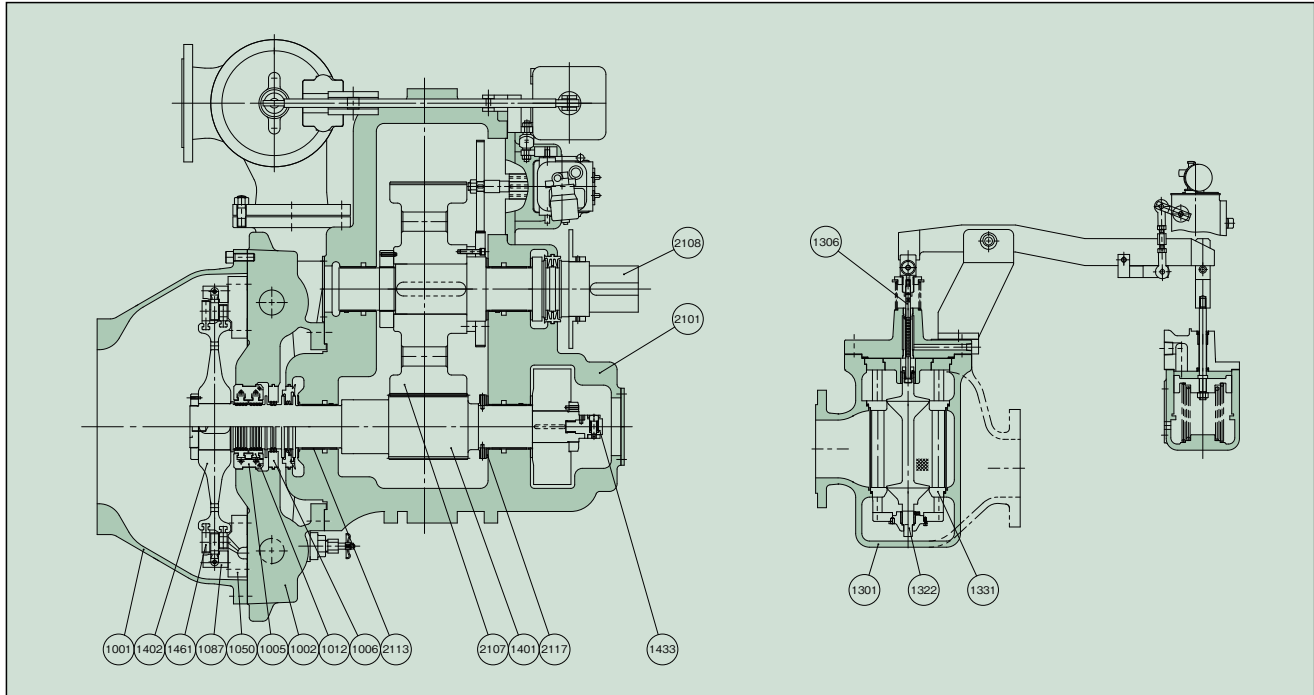
● Governor

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

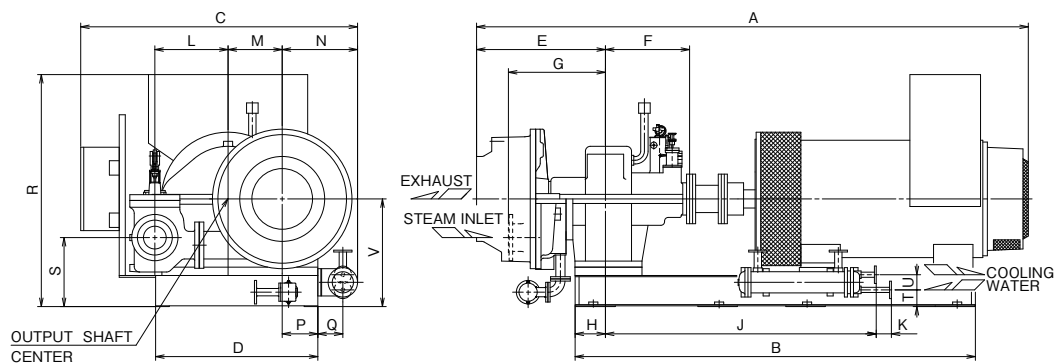
Overspeed trip 115% of rated speed
Low LO pressure trip Below 0.05 MPaG

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
1006	STEAM GUARD	BRASS PLATE WITH STEEL	C7521P S35C	1SET	1433	OVERSPEED TRIP SHAFT	CARBON STEEL	S35C	1
1012	LABYRINTH PACKING	Ni-Br CASTING		4SETS	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	STEEL	SS400	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	WHITE METAL WITH STEEL	WJ2 S25C	1SET
1322	GOVERNOR VALVE	STAINLESS STEEL	SUS420J2	1	2117	THRUST BEARING METAL	"/	"/	1SET

OUTLINE DIMENSIONS



Dimensions : mm

Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V
RB 4	3430	2250	1826	1070	850	555	640	200	1786	100	483	357	497	235	165	1540	455	110	100	710
RB 5	4209	3080	2211	1420	915	630	775	240	1890	100	455	489	522	260	165	1800	490	110	100	830

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