

STEAM TURBINES

50 KW To 6 MW

SINGLESTAGE /MULTISTAGE /CONDENSING / EXTRACTION-CONDENSING

We are pleased to introduce ourselves as Manufacturer of complete range of Steam Turbines and Turbo Generator Sets ranging from 50 KW to 6000 KW for power generation and for drive application. Turbines are manufactured with American know-how and are highly engineered to operate in most rugged conditions.

TYPES OF SINGLE STAGE TURBINES: (50 KW To 2,500 KW)

1. Horizontally Split Casings : Frames 16H, 20H, 24H, 28H
2. Vertically Split Casings : Frames 12V, 16V, 20V, 22V
3. Overhung Wheels : Frames 14-O, 16-O

- We specialize in high Back-Pressure Steam Turbines and can offer Single Stage Steam Turbines upto 26 kg/cm² G Exhaust Back Pressure.
- Saturation Turbines to generate power from existing low inlet pressure & temp. boilers.

SINGLE STAGE TURBINES – Horizontally-split Casing

Sl. No	Turbine Model	Inlet Press Kg/cm ² G	Inlet Temp. °C	Power Range KW	Configuration
1	16 H	10 - 67	Saturated to 510	100 – 500	Back Pressure
2	20 H	10 – 67	Saturated to 510	200 – 1200	Back Pressure
3	24 H	10 – 67	Saturated to 510	300 – 2000	Back Pressure
4	28 H	10 – 67	Saturated to 510	400 – 2500	Back Pressure

MULTI STAGE TURBINES

Sl. No	Turbine Model	Inlet Press Kg/cm ² G	Inlet Temp. °C	Power Range KW	Configuration
5	16 M	20 – 67	Saturated to 510	300 – 1500	Back Pressure
6	20 M	20 – 67	Saturated to 510	400 – 1500	Back Pressure
7	24 M	20 – 67	Saturated to 510	500 – 2500	Back Pressure
8	28M	20 – 67	Saturated to 510	500 – 3000	Back Pressure

HIGH SPEED TURBINES

Sl. No	Turbine Model	Inlet Press Kg/cm ² G	Inlet Temp. °C	Power Range KW	Configuration
1	16 SM	20 – 67	Saturated to 510	500 – 1500	Back Pressure
2	20 SM	20 – 67	Saturated to 510	500 – 3000	Back Pressure
3	20 SEM	20 – 67	Saturated to 510	1000 – 6000	Extraction/ B.P

SLOW SPEED TURBINES

Sl. No	Turbine Model	Inlet Press Kg/cm ² G	Inlet Temp °C	Power Range KW	Configuration
4	26 M	20 – 67	Saturated to 510	750 – 6000	Back Pressure
5	26 MC	20 – 67	Saturated to 510	750 – 6000	Condensing
6	26 MEC	20 – 67	Saturated to 510	1000 – 6000	Extraction – Cond.

OTHER FRAME SIZES AVAILABLE FOR SPECIAL APPLICATIONS.

FEATURES

Our Turbines incorporate the latest state of the art technology for turbine blades and nozzles. The turbines are highly efficient, sturdy and robust, reliable and ensure trouble free operation for long periods.

All critical parts are individually designed for optimum performance and manufactured in-house to make it a quality product.

- CONFORM TO API, NEMA AND OTHER INTERNATIONAL STANDARDS.
- SUITABLE UPTO INLET STEAM PRESSURES AND TEMP. OF 87 KG/CM²G AND UPTO 510 °C.
- VARIOUS BLADE / NOZZLE PROFILE CONFIGURATIONS AVAILABLE TO MEET SPECIFIC DUTY CONDITIONS TO GIVE OPTIMAL EFFICIENCIES.
- SLIP-ON / AIRFOIL / DRILLED TYPE OF NOZZLES OFFERED FOR HIGH EFFICIENCY.
- STEAM PATH INDIVIDUALLY DESIGNED FOR LOWEST SPECIFIC STEAM CONSUMPTION.
- RING LUBRICATION FOR DIRECT DRIVE APPLICATIONS.
- TRUE CENTRE LINE SUPPORT.
- ALL SINGLE STAGE TURBINES ARE DESIGNED TO MEET API REQUIREMENTS FOR QUICK START.
- MODERN MODULAR CONSTRUCTION.

Towards customer support services, we would be pleased to assist you in selection of a Steam Turbine ideally suited to your plant parameters, requirements or co-generation schemes.

ABOUT US

Jain Rotodyne Private Limited with its sister company M/s Jain Camar Private Limited have complete manufacturing facilities for steam turbines. Technical backup is available from M/s Camar Corp., USA who have financial and technical collaboration approved by the Govt. of India with our sister concern M/s Jain Camar Private Limited.

Our modern manufacturing facilities are equipped with mostly imported machines. It has an established production set-up covering approx. 50,000 sq ft. Jain Rotodyne and Jain Camar are located at Gurgaon, Haryana, about 8 kms from Delhi Airport. We have in-house testing facilities like rotor dynamic balancing, boiler for spin test, non-destructive testing and vibration analysis, etc.

Our office is located at Bhikaji Cama Place, New Delhi and is staffed with foreign qualified engineers with rich experience in turbine design and manufacturing aided by computer programs. We have a focussed technical team with total commitment to quality and are customer oriented.

If you need any further information, please feel free to contact us. We sincerely look forward to your valued support and patronage of our products and services.

FOR YOUR REQUIREMENT OF STEAM TURBINES

PLEASE FURNISH THE FOLLOWING INFORMATION:

STEAM PARAMETERS

1. Inlet Steam Pressure (kg/cm²G) :
2. Inlet Steam Temperature (°C) :
3. Exhaust Pressure (kg/cm²G) :

4. Power Required (KW / HP) :
- OR
5. Steam Available (Tons/Hour) :

DRIVEN EQUIPMENT

1. Alternator / Pump / Mill / Fan :
2. Normal Running RPM :

ANY OTHER REQUIREMENT:

Name : Designation:
Company Name:
Address :

Phone: Office: Residence:
Fax :
E-mail :
Mobile :

CONTACT US

JAIN ROTODYNE PRIVATE LIMITED

B-19, Somdatt Chambers - 1, Bldg. No. 5, Bhikaji Cama Place, New Delhi - 110 066
Phone: (011) 5165 8900 / 2619 3391 Fax: (011) 2619 3391 E-mail: jainrotodyne@bol.net.in
WORKS: 873, Phase 5, Udyog Vihar, Gurgaon-122016 (Haryana)

PROCESS INDUSTRIES: STEAM TURBINES upto 6MW

SINGLE STAGE / MULTISTAGE / BACK PRESSURE / CONDENSING / EXTRACTION-CONDENSING

We are pleased to introduce ourselves as Manufacturer of complete range of Steam Turbines and Turbo Generator Sets ranging from 50 Kw to 6000 Kw for mechanical drives and power generation. Turbines are manufactured with American know-how and are highly engineered to operate in most rugged conditions.

We have a large range of Steam Turbines for application in Process Industries. The turbines are highly efficient, back pressure / condensing / extraction - condensing types to cover requirements of co-generation schemes of Process Industries.

TYPES OF SINGLE STAGE TURBINES: (50 KW To 2,500 KW)

1. Horizontally Split Casings: Frames 16H, 20H, 24H, 28H
2. Vertically Split Casings : Frames 12V, 16V, 20V, 22V
3. Overhung Wheels : Frames 14-O, 16-O

- We specialize in high Back-Pressure Steam Turbines and can offer Single Stage Steam Turbines from 0.7 Vac. to 26 kg/cm² G Exhaust Back Pressure.
- Saturation Turbines to generate power from existing low inlet pressure & temp. boilers.

SINGLE STAGE (Curtis Wheel) Turbines - Horizontally - split Casings

S.No.	Turbine Model	Inlet Press. kg/cm ² G	Inlet Temp. °C	Exhaust Press. kg/cm ² G	Power Range KW
1	16 H	7 to 67	Saturated to 510	0.2 kg to 10 kg	50 – 500
2	20 H	7 to 67	Saturated to 510	0.2 kg to 10 kg	200 – 1200
3	24 H	7 to 67	Saturated to 510	0.2 kg to 10 kg	300 – 2000
4	28 H	7 to 67	Saturated to 510	0.2 kg to 10 kg	400 – 2500

MULTISTAGE TURBINES: BACK PRESSURE / CONDENSING / EXTRACTION-CONDENSING

S.No.	Turbine Model	Inlet Press. kg/cm ² G	Inlet Temp. °C	Exhaust Pressure kg/cm ² G	Power Range KW
1	16 M	10 to 67	Saturated to 510	Cond. to 12 kg	300 – 1500
2	20 M	10 to 67	Saturated to 510	Cond. to 12 kg	400 – 1500
3	24 M	10 to 67	Saturated to 510	Cond. to 12 kg	500 – 2500
4	28 M	10 to 67	Saturated to 510	Cond. to 12 kg	500 – 3000
5	26 M	10 to 67	Saturated to 510	Cond. to 12 kg	750 – 6000
6	26 MC	10 to 67	Saturated to 510	Cond. to 12 kg	750 – 6000
7	26 MEC	10 to 67	Saturated to 510	Cond. to 12 kg	1000 – 6000

OTHER FRAME SIZES AVAILABLE FOR SPECIAL APPLICATIONS.

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SUGAR MILLS: STEAM TURBINES upto 6MW

SINGLESTAGE /MULTISTAGE /CONDENSING / EXTRACTION-CONDENSING

SINGLE STAGE TURBINES

Sl. No	Turbine Model	Inlet Press kg/cm ² G	Inlet Temp. °C	Power Range KW	Configuration	Drive
1	16 H	10 – 67	Saturated to 510	100-500	Back Pressure	Pump
2	20 H	10 – 67	Saturated to 510	200-1200	Back Pressure	Pump/Mill
3	24 H	10 – 67	Saturated to 510	300-2000	Back Pressure	Mill
4	28 H	10 – 67	Saturated to 510	400-2500	Back Pressure	Fibrizor

MULTI STAGE TURBINES

5	16 M	20 – 67	Saturated to 510	300 – 1500	Back Pressure	Power/Fib
6	20 M	20 – 67	Saturated to 510	400 – 1500	Back Pressure	Power/Fib
7	24 M	20 – 67	Saturated to 510	500 – 2500	Back Pressure	Power/Fib
8	28 M	20 – 67	Saturated to 510	500 – 3000	Back Pressure	Power/Fib

SLOW SPEED TURBINES

9	26 M	20 – 67	Saturated to 510	750 – 6000	Back Pressure	Power
10	26 MC	20 – 67	Saturated to 510	750 – 6000	Condensing	Power
11	26 MEC	20 – 67	Saturated to 510	1000 – 6000	Extraction-Cond	Power

HIGH SPEED TURBINES

12	16 SM	20 – 67	Saturated to 510	500 – 1500	Back Pressure	Power
13	20 SM	20 – 67	Saturated to 510	500 – 3000	Back Pressure	Power
14	20 SEM	20 – 67	Saturated to 510	1000 – 6000	Extraction/B.P	Power

OTHER FRAME SIZES AVAILABLE FOR SPECIAL APPLICATIONS.

ALL TURBINES ARE:

- Horizontally-split casing, Single/Multistage, Impulse type, Axial flow, Bladed design
- Back pressure, Extraction - Back Pressure, Condensing, Extraction-Condensing;
- Governors: Mechanical, Hydro-Mechanical, Electronic
- Both Bleed and Controlled Extraction available.
- Single Stage Turbines in Horizontally-split, Vertically-split and Overhung wheel designs available upto 26 kg/cm² G Back pressure.

We have full range of Steam Turbines for Boiler Feed Water Pump, Mill Drive, Shredder/ Fibrizor and Turbo-generator applications suitable for operation from 20 to 87 kg/cm²G and to 510 deg C. The offered Turbines are highly efficient and *have lower steam rates than specified in the standard specifications (1987/1993).*

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REFERENCE LIST

No	CUSTOMER	LOCATION	TYPE	RATING	DRIVE
1	Tata Chemicals Ltd.	Mithapur	Back Pressure	1550 kw	Feed Pump
2	Varun Shipping Co. Ltd.	Mumbai	Condensing	810 kw	Pump
3	Gujarat State Fertilizers & Chemicals Ltd.	Vadodara	High Back Press.	87 kw	Pump
4	Varun Shipping Co. Ltd.	Mumbai	Condensing	810 kw	Pump
5	Varun Shipping Co. Ltd.	Mumbai	Condensing	810 kw	Pump
6	Varun Shipping Co. Ltd.	Mumbai	Condensing	810 kw	Pump
7	Hindustan Petroleum Corp Ltd.	Mumbai	Back Pressure	40 HP	Pump
8	Kashyap Organic Ltd.	New Delhi	Back Pressure	350 kw	Power
9	Kamarhatty Company Ltd.	Kolkatta	Multistage	500 kw	Power
10	Windsor Packaging Pvt. Ltd.	Chandigarh	High Back Press.	400 kw	Power