



Steam Turbine Solutions





Single Stage Turbines

Power Capabilities

- 5 Kw to 3000 kW
- Speeds up to 5000 RPM
- Highly standardized components
- Pressure up to 67 Kg/cm² / 925 Psig
- Temperatures up to 500 °C / 932 °F

Variants

- Back Pressure Turbines
- Condensing Turbines

Our single-stage system steam turbines have been a fixture in most process industries for nearly 12 years, providing clients with economical and reliable mechanical drives for Pumps, Fans, Knives, Compressors and Generators. For many years our engineering staff have worked with various consultants to meet the strict standards of API 611 and 612. Buffalo Turbines also offers one-of-its-kind single stage condensing turbines

Industries Served

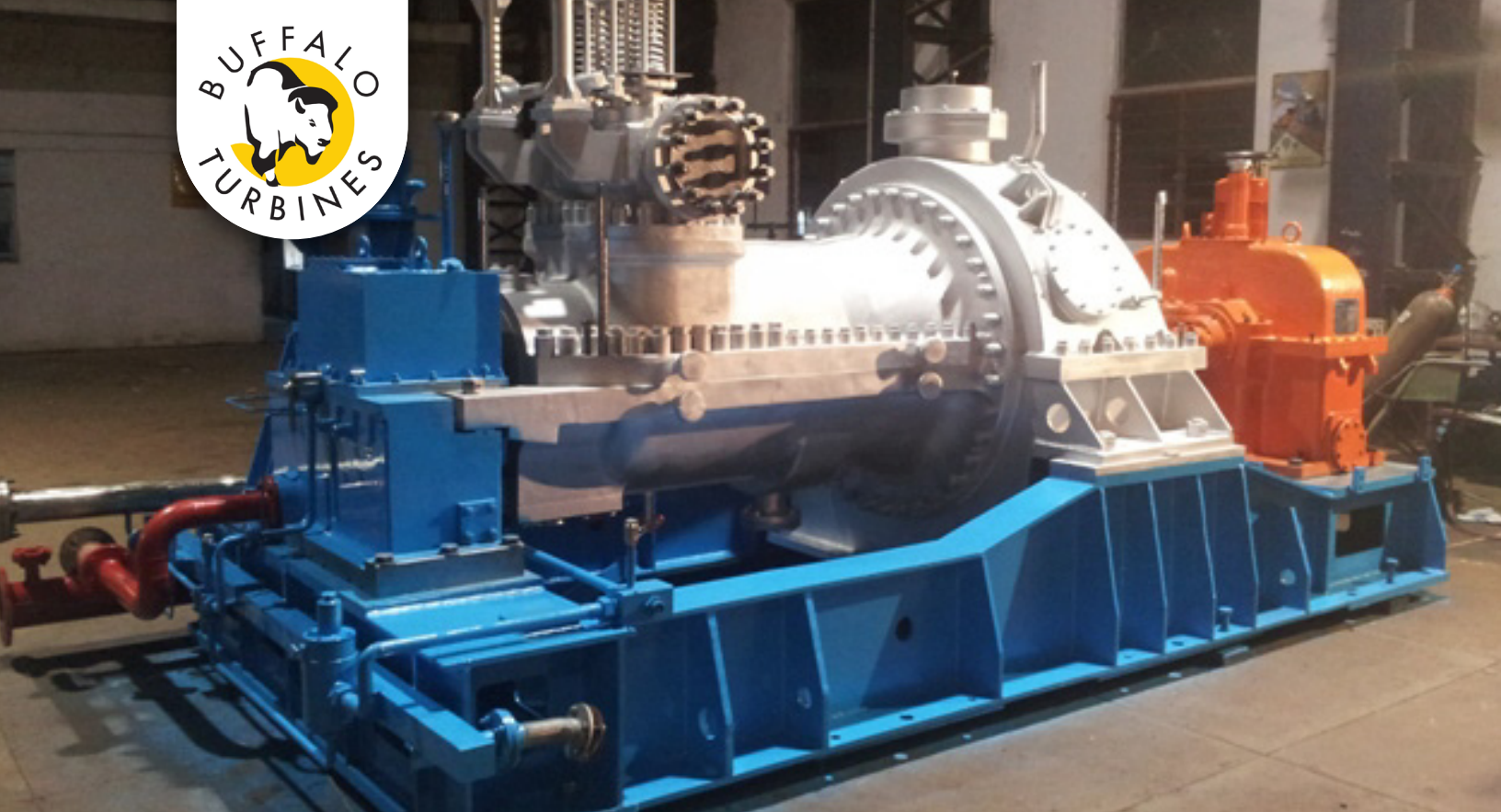
Oil & gas, Food processing, Chemical processing, Pharmaceutical, Steel, Paper, Sugar, Distilleries, Palm oil, Marine, Edible oil, Rice, Fertilizer, etc.

Applications

Pump drives, Fan drives, Mill drives, Generator drives, Compressors drives, Knives and Shredder drives.

Design Capabilities

7 models, Horizontal (axial and radial split), Vertical, API 611 and 612 compliant, Overhung and 'between the bearings' wheel designs, metallic and carbon seals, Electronic / Hydraulic Mechanical governors, Customized steam path components, Mechanical / Electronic safety trip system, Direct-drive or integral gear boxes with suitable lubrication systems.



Multi Stage Turbines

Power Capabilities

- 250 kW to 30000 kW
- Speeds from 3000 to 12000 RPM
- Inlet pressures up to 105 bar
- Inlet temperatures up to 560 °C
- Exhaust pressures from vacuum to 12 bar

Industries Served

Oil & gas, Power, Sugar, Ethanol, Paper, Medical, Food and beverage processing, Petrochemical, Steel, Paper, Sugar, Distilleries, Steel & Education (Universities)

Mechanical Drive Applications

Compressors, Boiler Feed Water and other pumps, Milling / Shredding equipment, Fans, Blowers.

Generator Drive Applications

Synchronous generators
Induction generators

Applications

Generator drives, Compressors drives, Knives and Shredder drives.

Design Capabilities

- Single and multi-valve inlet
- Controlled Extraction, Uncontrolled Bleeds
- Extraction Condensing / Back Pressure
- Mixed Pressure Induction
- API 611 and 612 compliant
- Hydraulic, Mechanical and Electronic Governors
- Remote Monitoring / Controls
- Base load operation
- Parallel operation with Local / National Grid



Product Range



Multi Stage Turbines

	Power kW	Inlet Pressure		Inlet Temperature		Exhaust Pressure		Speed RPM
		MAX	ATA	MAX	°C	ATA		
BTMS 42	500-2000		67		500		12	~ 6700
BTMS 42 c	500-1750		67		500		vacc	~ 8750
BTMS 52	2000-6000		67		500		12	~ 6400
BTMS 52 C	1200-2500		67		500		vacc	~ 7500
BTMSK 52 C	2500-6000		84		525		vacc	~ 6500
BTMS 102	6000-15000		105		540		15	~ 5500
BTMS 102 C	6000-13500		105		540		vacc	~ 5500
BTMS 102 EC	6000-13500		105		540		vacc	~ 5500
BTMS 152	13500-30000		105		540		15	~ 5500
BTMS 152 C	13500-20000		105		540		vacc	~ 5500
BTMS 201	20000-30000		105		540		15	3000-5500
BTMS 201 C	20000-30000		105		540		vacc	3000-5500



Single Stage Turbines

	Power kW	Inlet Pressure		Inlet Temperature		Exhaust Pressure		Speed RPM
		MAX	ATA	MAX	°C	ATA		
BTPS 10	~ 200		45		450		12	~ 5000
BTPS 20	~ 200-750		67		500		12	~ 5000
BTPS 902	~ 500-1500		67		500		12	~ 5000
BTPS 902C	~ 200-750		67		500		0.2	~ 5000