

Power Applications

Single-Shaft, Combined-Cycle Plant Cogeneration Plant Synchronous Condensing using the Generator of Peak Load Turbines Combined Heat and Power Plant (CHP) Rotating Uninterruptible Power System (UPS) Pumped Hydro Auxiliaries: Gas and Steam Turbine Turning Gears, Gas Turbine Starting

Petrochemical/Process/Refinery/Pipeline Applications

Compressors: Air, Gas, Refrigeration, Process, Pipeline, etc. Fans: ID, FD, Gas Recirculation, etc. Pumps: Amine, Water, etc. Hydraulic Power Recovery Turbines PTA Mixers Expander Turbines: FCC, Gas, etc. Steam Turbines: HP, LP, Back Pressure, Condensing, etc. Gas Turbines

Seventy Plus Years of Designing and Building High Power Clutches 36,000+ SSS[®] Clutches Supplied Worldwide

400 MW	Highest Power SSS® Clutch
17,000 rpm	Highest Speed SSS® Clutch
1,100+	SSS® Clutches for Power Plants (Synchronous Condensing and Combined Cycle)
100+	SSS® Clutches for Combined Heat and Power (CHP) in 14 Countries
25,000+	SSS [®] Clutches for Starting and Turning Gear Systems
1,500+	SSS® Clutches for Uninterruptible Power Supplies
4,000+	SSS® Clutches for Naval and Marine Applications
700+	SSS® Clutches for Pumps
275+	SSS® Clutches for Fans
300+	SSS® Clutches for Compressors



SSS Clutch Company, Inc.

Application Engineering Sales and Aftermarket Service in North and South America

610 West Basin Road, New Castle Delaware 19720, USA

(302) 322-8080 engineering@sssclutch.com www.sssclutch.com



SSS Gears Limited

All clutches are designed, built and tested in the UK Factory.

Park Road, Sunbury-on-Thames Middlesex TW16 5BL, England

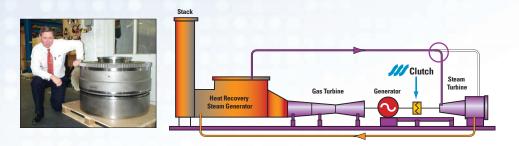
+44 1932 780644 engineering@sssgears.co.uk www.sssgears.co.uk

SSS[®] Clutch

SSS[®] Clutch Capability

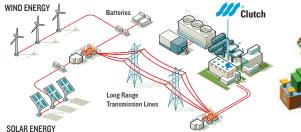
Single Shaft—Combined Cycle Generators

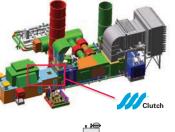
Over 400+ SSS[®] Clutches in 48 Countries for Combined Cycle Applications



Synchronous Condensing/Spinning Reserve/Grid Inertia

Maximizing the Contribution of Renewable Sources of Energy

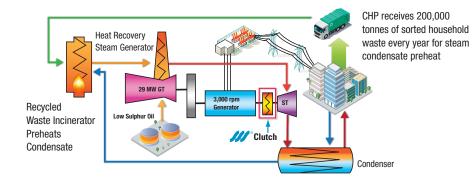




LOAD CENTER: Peaking gas turbines with SSS® Clutches provide quick start real power as well as synchronous condensing for intermittent renewable resources of energy. SSS[®] Clutches enable generator inertia and reactive power for grid support.

Combined Heat and Power Applications

100+ SSS® Clutches in 14 Countries for CHP Plant



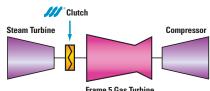
Compressors for Power Recovery

An SSS® Clutch Improves Availability by Disconnecting Power Recovery Turbine



Compressor Clutch with Integrated Turning Gear

Starter/Helper Steam Turbine for Ethylene Charge Gas Compressor



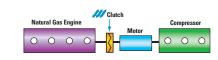
80T encased SSS[®] Clutch with turning gear and input shaft brake rated at 6 MW @ 5100 rpm.



Hydraulic Turbine

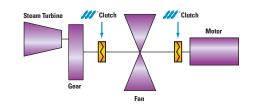
Compressors in the Pipeline Industry

Peak Load Power Savings for Natural Gas Pipeline Compressors



Package showing SSS® Clutch installed between the engine (yellow) and the electric motor, with compressor on the far right (blue).



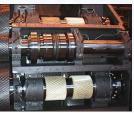




Frame 5 Gas Turbine

Typical COGAG Gearing

50 Navies Worldwide use SSS[®] Clutches

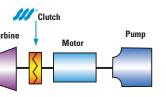


US Navy GT Driven Ships with SSS® Clutches.

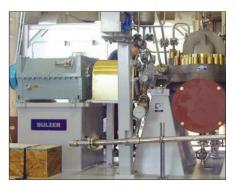


Pumps

Self Lubricated SSS[®] Clutches for Dual Driven Pumps



Size 36 encased, self lubricated SSS® Clutch connects a 2000 kW at 2980 rpm hydraulic turbine to a motor driven pump for energy recovery.



Fans

SSS® Encased Clutch for Dual Driven Fan on Rentech Boiler

Size 68T encased, pressure lubricated SSS® Clutches supplied for 900 hp at 1800 rpm Robinson fans.

