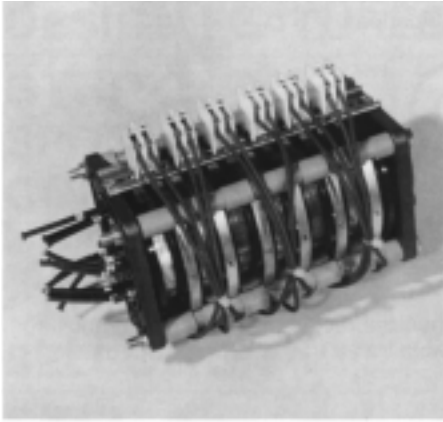


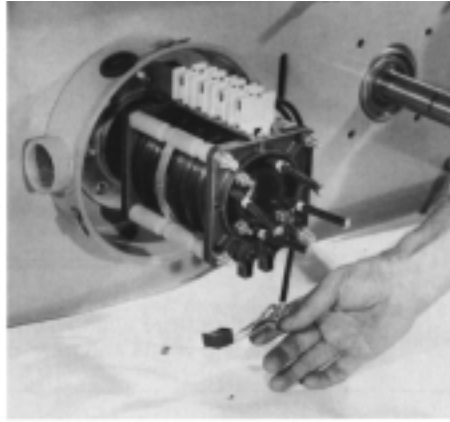
SHO/TMR SERIES ELECTRICAL FEATURES

In addition to being unitized and self-contained, Gleason slip-ring assemblies are available in 35, 75, 125 and 200-amp capacities at 600VAC or 250VDC. Each unit runs on its own set of bearings to insure precise alignment of rings and brushes. All assemblies are equipped with terminal strips for quick and easy

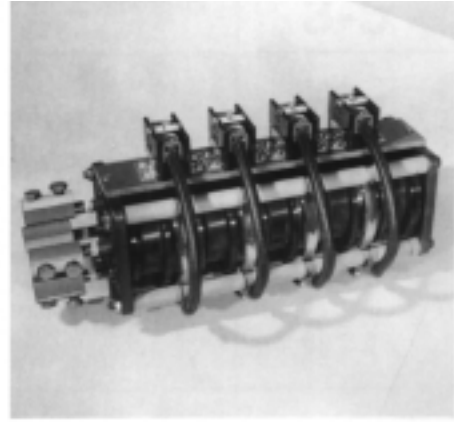
electrical connection. Brushes are held in place with Gleason's exclusive spring finger design which keeps constant pressure on the brushes and permits replacement in minutes. All assemblies are continually tested and high pot tested to 2,200 volts during factory inspection to insure the highest quality.



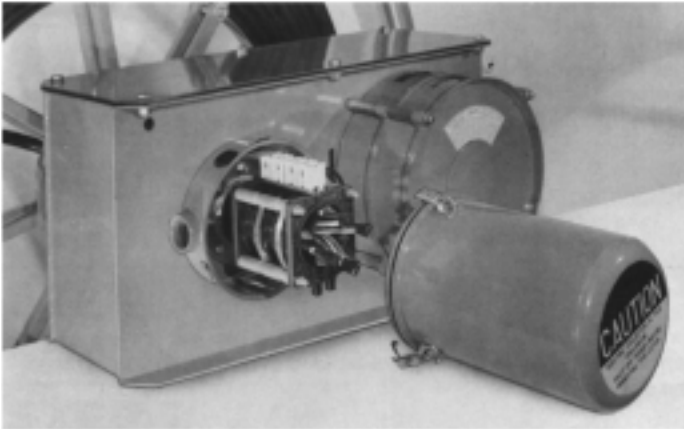
12-POLE, 35-AMP COLLECTOR



BRUSH AND FINGER ASSEMBLY

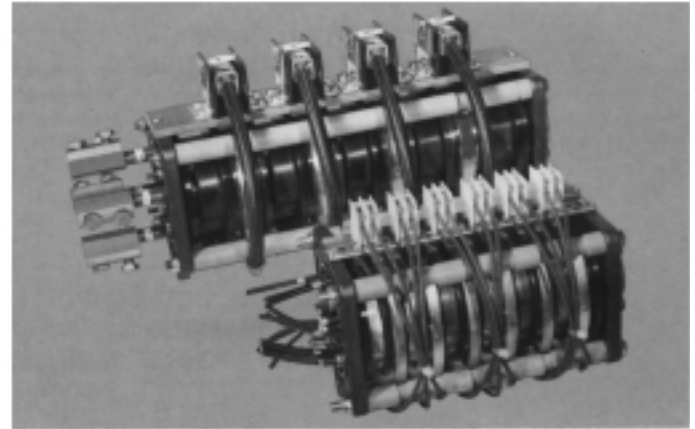


4-POLE, 200-AMP COLLECTOR



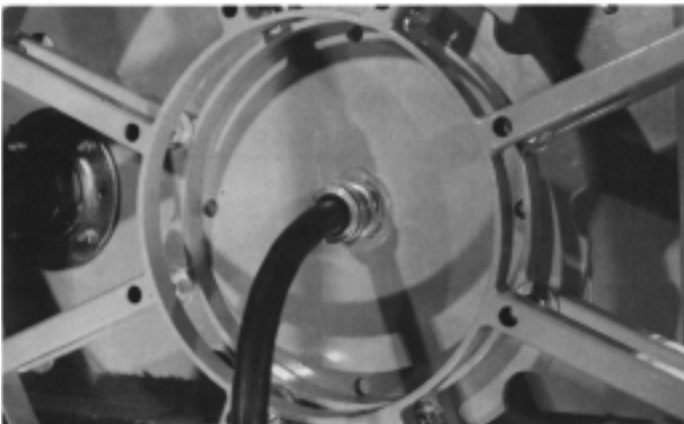
COLLECTOR COVERS

Gleason SHO/TMR Series Reels are all equipped with quick removal collector covers. Simply snap open three toggle latches and remove cover



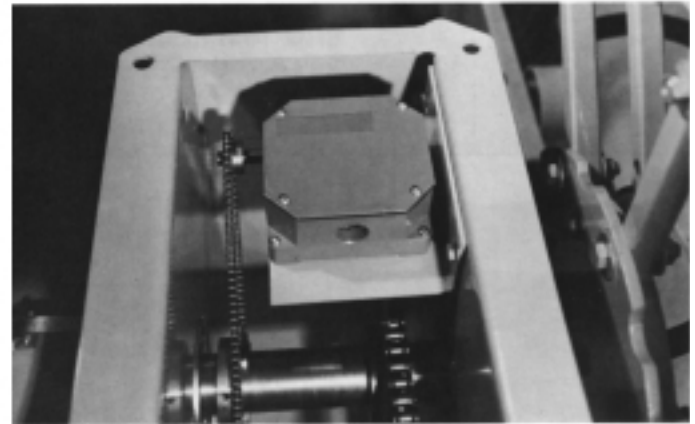
UNITIZED SLIP-RING ASSEMBLIES

Unitized slip ring assemblies are easily removed for service. In most cases, brushes can be replaced without assembly removal.



CABLE CONNECTIONS

Cables pass through watertight connector to prevent water from coming up the main shaft to the slip-ring enclosure.



OPTIONAL ROTARY LIMIT SWITCHES

SHO/TMR Series Reels are available with an optional rotary limit switch mounted inside the dust-tight, watertight chain case. The rotary limit switch can be used to provide a signal to the moving equipment that the cable is fully extended or recovered, avoiding overtravel or undertravel.

SHO/TMR SERIES MECHANICAL FEATURES

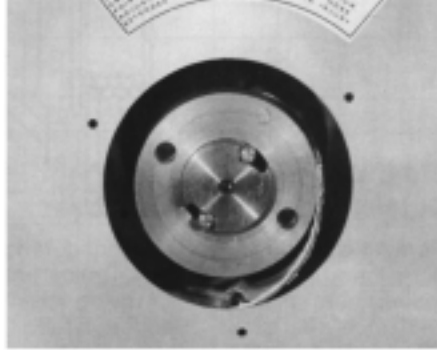
Gleason SHO Series Spring-driven cable reels are equipped with Safetychange® spring cartridges. The Gleason spring system includes a unique free-wheeling hub designed to clutch in one direction and free-wheel in the opposite direction allowing pre-tensioning of the spring motors while cable is connected. The hub design also protects the spring against overwind in the event of a broken or severed cable. The hub simply de-clutches and free-wheels under this condition.

All springs are contained in disposable cartridges for easy handling and quick, safe replacement. Springs are simply replaced by loosening four bolts, removing pawl and pawl springs from the free-wheeling hub, and installing a new cartridge. On multiple spring designs, each spring is clutched to the spring shaft. In the event of one spring failure, the other spring(s) will maintain tension on the cable.



STEEL SPRINGS

All Gleason SHO Series springs are made of high quality steel and are equipped with hinges at both ends to reduce stress at mounting points, insuring maximum spring life. They are enclosed in disposable Safetychange® housings and are lifetime lubricated prior to sealing in housing.



FREE-WHEELING HUB

Gleason's unique, free-wheeling spring hub design permits easy cable installation and spring tension adjustment. Also protects spring motor in event cable is severed.



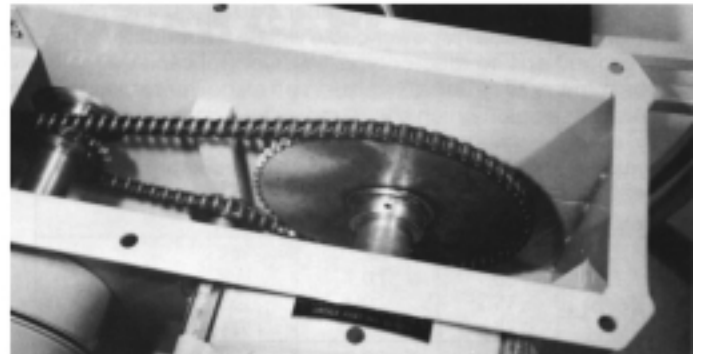
SPRING TENSION ADJUSTMENT

Safe, simple spring tension adjustment. Merely remove inspection cover and pre-tension spring number of turns shown on name plate. No need to disconnect cable or disassemble reel. Spanner or ratchet wrench is provided with each reel.



SAFETYCHANGE® SPRING MOTOR

Designed with your safety in mind, Safetychange® spring motor is located outboard on frame for easy accessibility. Power spring is sealed in disposable housing. Spring motor is replaced as a unit, with no need to handle loose springs or remove reel from its mounting. All multi-spring reels are equipped with broken spring indicator buttons for visually checking spring integrity without removing spring motors while reel is in service.



ALL STEEL CHAIN CASE

All steel chain case is dust-tight and weathertight with sealed pre-lubricated bearings. Chains are equipped with adjustable tensioners for smooth, trouble-free operation and are in a fully enclosed housing, operating in an oil bath to insure long component life. The gearing arrangement differs in the TMR Series Reels to allow full utilization of torque motor characteristics. Case is of similar construction in both SHO and TMR Series Models.

TMR SERIES MECHANICAL FEATURES

Torque motors, as used in the TMR Series Reels, provide a reliable solution to the problem of reeling long lengths of cable at the high duty cycle rates demanded by today's heavy industry. The torque motor can withstand a 100 percent stall, requiring virtually no maintenance. The motor is energized as long as the equipment is in motion, providing tension on the cable during retrieval and matching cable speed during pay-out. When the torque motor is switched off, a mechanical holding brake prevents the reel from unwinding.

