

TFR - Rollover Stand With Pneumatic Flex Arm

Improves the Productivity, Safety and Efficiency of Your Traction Motor Shop.

MACHINE OPERATION DESCRIPTION

The TFR stand has a rugged steel welded base, drive mechanism and pneumatic coil insertion flex arm. To operate the stand, two rings are bolted to the traction motor frame. This assembly is lowered into position on the four steel rollers that hold the support rings. Two of the rollers are connected to a gear motor driven chain and sprocket drive to provide rotation of the Traction Motor Stator and rotating ring assembly. These support rollers are adjustable and have a setscrew to hold them in place for various length traction motor stators. The Coil Flex Lift Arm is mounted on a bracket that is hinged on one side of the rollover stand. The arm moves freely in and out of the frame through the pinion end bore and has a lift mechanism to lift the coil in place. It is robustly constructed to hold the weight of a traction motor main coil and interpole coil. A safety interlock ensures that the coil arm is removed from the stator before the stator is indexed. A Coil Lift Table, coated with rubber to prevent slipping of the coil can hold both the main field coil and the interpole coil. Lifting of the table is controlled via a pendant pushbutton. The stand has an indexing arrangement so that after the first field coil is installed, the rollover stand will index the frame to the next open field coil position. When all four field coils have been installed, the machine can then be indexed so the operator can install the four interpole coils.

OPTIONAL ACCESSORIES

Ring Mounting Table

Fabricated stand used to hold the traction motor frame while the support rings are bolted in place. Standard table height is about 35 in. (889 mm) off the floor. The mounting surface is 24 in. (609 mm) X 30 in. (762 mm). A safety strap fits snugly around the motor frame and the table has boltholes to anchor it to the floor.

Additional Set of Motor Frame Adapter Rings (2 per set)

Adapter rings can often be modified to work with several motor frames even though the frames may be from different manufacturers. Please discuss the various motor frames you will be using and supply drawings for the frames when placing your machine order.

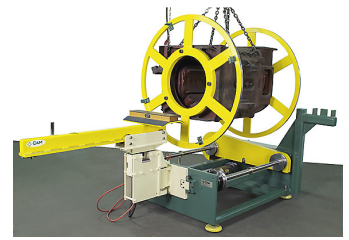
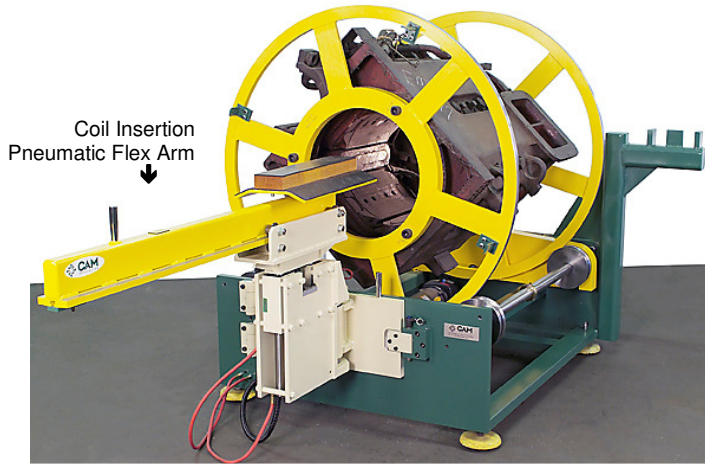
SPECIFICATIONS

Maximum load capacity:	8,000 lbs. (3,628.8 kgs.)
Rotation:	360 degrees
Time to rotate:	90 degrees in 15 seconds
Maximum distance between rings:	43 in. (1092.2 mm)
Minimum distance between rings:	39.25 in. (996.9 mm)
	27 in. (685.8 mm) with adapter ring*
Maximum ring diameter:	52 in. (1320.8 mm)
Machine dimensions:	60 in. (1524.0 mm) L
	52 in. (1320.8 mm) W
	61 in. (1549.4 mm) H
Machine Electrics	230/460vac, 3ph, 60hz **

(* Not included with machine) (** Special electrics available as option)

TFR Roll-Over Stand

Faster - Safer - Easier Coil Installation and Removal



Reduces Crane Lifts

TFR Roll-Over Stand makes installation and removal of Traction Motor field coils simple!

The TFR Roll-Over stand is designed for traction motor frames and other large motor frames. It comes complete with a flex arm positioning mechanism to simplify the process of removing and installing frame pole pieces.

Rotates for Easier Access

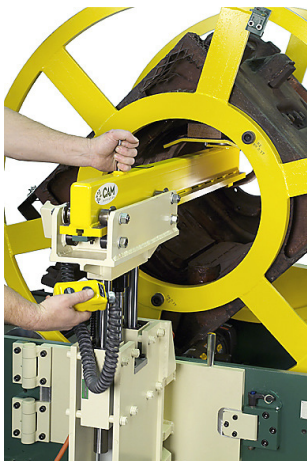
A button push effortlessly starts the motor frame rings rotating towards preset stops. Limit switches automatically stop the rotation so that the frame is optimally positioned for coil removal or installation at 90 or 45 degrees.

Flex Lift Arm Puts Coils Precisely Where You Want

No overhead crane is needed to lift the heavy coils into place as the Flex arm moves up and down pneumatically, guided by an operator at the TFR's control station. The Flex Arm's many pivot points makes precise positioning of the rubber covered coil lift table possible.

Faster, and Better Ergonomically

Designed to boost worker productivity while lessening the need for overhead crane manipulation, the TFR makes motor frame and coil handling much more efficient.



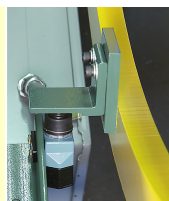
Ergonomically friendly design uses simple push button controls to rotate the frame and lift the Flex Arm



A safety interlock prevents the operator from rotating the motor frame while the Flex Arm is inserted.



Limit switches → automatically stop frame rotation at 90 and 45 degrees

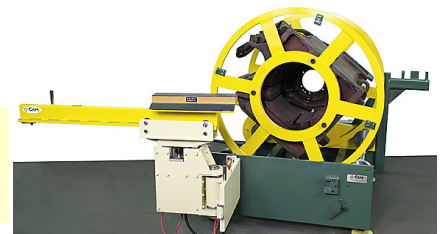


Large roller surface contact on the motor frame rings enables the TFR to safely overcome the out of balance condition that can occur when inserting pole pieces.

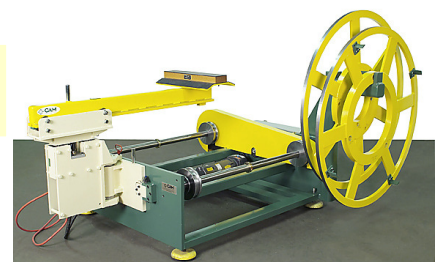


Ring Sets can be customized to hold various manufacturers motor frames.

Flex arm and coil table pivot out of way for brazing



Convenient Ring Storage Rack



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