

CONTROL UNIT FOR ROLL-A-MOTORS

FEATURES

- Latest computer technology.
- Ultimate reliability.
- Completely accurate.
- Easy to set-up.
- Semi or fully automatic operation.
- Robust construction.
- Single or three phase versions.

Based upon the latest technology in electronic control, the Teco roll-a-motor control units use the same processor as found in personal computers. Ultimate reliability combined with speed and accuracy to give completely repeatable torque control of the motor. This latest technology enables very easy initial set up of the equipment and eliminates the need to finely tune the motors. Set-up is therefore quick and easy with no special skills required by the operator. Securely housed in an aluminium casing this control unit is properly engineered to withstand the rigours of workshop and site environment alike.

ROLL-A-MOTOR CONTROL UNIT



SELECTION GUIDE: ROLL-A-MOTOR CONTROL UNIT

Model No.	Voltage	Suitable for ROLL-A-MOTOR
CU-04-A- 42-5	42 volt A.C. 50 - 60 Hz.	Model 400 / 875 / 1100 / 1200
CU-04-A- 110-5	110 volt A.C. 50 - 60 Hz.	Model 400 / 875 / 1100 / 1200
CU-04-A- 220-5	230 volt A.C. 50 - 60 Hz.	Model 400 / 875 / 1100 / 1200
CU-04-A- 342-5	42 volt 3 Ph. 50 - 60 Hz.	Model TC-4 / TC-4-1 / TC-5
CU-04-A-3220-5	220 volt 3 Ph. 50 - 60 Hz.	Model TC-4 / TC-4-1 / TC-5
CU-04-A-3380-5	400 volt 3 Ph. 50 - 60 Hz.	Model TC-4 / TC-4-1 / TC-5

CONTROL UNIT FOR ROLL-A-MOTORS

TECHNICAL SPECIFICATION

Voltage	: 110 or 230 : 1 phase : 50/60 Hz 220 or 400 : 3 phase : 50/60 Hz
Power output	: 2200 watts for 1 phase 3000 watts for 3 phase
Dimensions	: L 56 cm x W 36 cm x H 18 cm L 22" x W 14 11/64" x H 7 5/64"
Weight	: 15 kg
Optional	: Printer

Transformer to 42 volts

STANDARD FITTINGS

- Remote control (24 volts).
- Digital read-out for programming.
- Digital read-out for torque.
- Reverse time setting 0 to 60 seconds.
- Interval time setting 0 to 60 seconds.
- Automatic phase corrector for 3 phase models.
- Flat panel, easy clean push buttons.
- Carrying handle.
- RS 232 connector for interface with PC for read-out.





ROLL-A-MOTOR CONTROL UNIT WITH TRANSFORMER



ROLL-A-MOTORS SINGLE PHASE

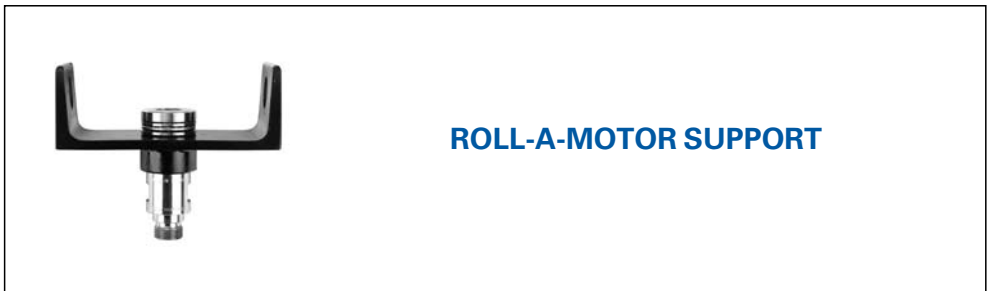
The TECO 'Roll-A-Motor' is ruggedly designed for low and high torque capabilities. Smooth running, frequent forward and reverse operations together with a controlled output of the amount of expansion are highly desirable features and will create a more accurate joint in the finished product.

Selection Guide: ROLL-A-MOTORS SINGLE PHASE

MODEL NO.	TUBE CAPACITY O.D. MIN. - MAX.	LOADED SPEED RPM	VOLTAGE	POWER INPUT WATT	POWER OUTPUT WATT	SHANK
 400	STEEL 1/4" - 5/8" 6.35 - 15.87 mm NON-FERROUS 1/4" - 3/4" 6.35 - 19.05 mm	2 SPEED 430 1050	42 VOLT A.C. 110 VOLT A.C. 230 VOLT A.C. 50-60 HZ.	300	145	B-12
 875	STEEL 1/2" - 7/8" 12.7 - 22.22 mm NON-FERROUS 5/8" - 1" 15.87 - 25.4 mm	800 OR 1100	42 VOLT A.C. 110 VOLT A.C. 230 VOLT A.C. 50-60 HZ.	650	420	B-16
 1100	STEEL 1/2" - 2" 12.7 - 50.8 mm NON-FERROUS 3/4" - 2 1/2" 19.05 - 63.5 mm	4 SPEED 195 330 650 1035	42 VOLT A.C. 110 VOLT A.C. 230 VOLT A.C. 50-60 HZ.	1700	1000	MT-3
 1200	STEEL 3/4" - 2 1/2" 19.05 - 63.5 mm NON-FERROUS 3/4" - 3" 19.05 - 76.2 mm	4 SPEED 100 170 300 510	42 VOLT A.C. 110 VOLT A.C. 230 VOLT A.C. 50-60 HZ.	1700	1000	MT-3

ROLL-A-MOTORS SINGLE PHASE

	WEIGHT	SUPPLIED WITH QUICK CHANGE CHUCK
	3.3 lbs 1.5 kg	1/4" OR 3/8"
	8.1 lbs 3.7 kg	3/8" OR 1/2"
	18 lbs 8.3 kg	3/8" AND 1/2"
	18 lbs 8.3 kg	3/8" AND 1/2"



MODEL NO.	SHANK	EXTENSIBILITY	WEIGHT	ROLL-A-MOTOR SUPPORT
TUS-2	MT-2 M29X1.5	1005/1505 mm	25.3 lbs 11,5 kg	1000-TS
TUS-3	MT-3 M35X1.5	1005/1505 mm	25.3 lbs 11,5 kg	1200-TS




Note: Other quick change chuck available see page 32.



ROLL-A-MOTORS THREE PHASE

The TECO 'Roll-A-Motor' is ruggedly designed for low and high torque capabilities. Smooth running, frequent forward and reverse operations together with a controlled output of the amount of expansion are highly desirable features and will create a more accurate joint in the finished product.

Selection Guide: ROLL-A-MOTORS THREE PHASE

MODEL NO.	TUBE CAPACITY O.D. MIN. - MAX.	LOADED SPEED RPM	VOLTAGE	POWER INPUT WATT	POWER OUTPUT WATT	SHANK
 TC-4	STEEL 3/4" - 2" 19.05 - 50.8 mm NON-FERROUS 3/4" - 2 1/2" 19.05 - 63.5 mm	4 SPEED 120 195 360 680	42 VOLT 3 PH. 220 VOLT 3 PH. 400 VOLT 3 PH. 50-60 HZ.	1250	800	MT-3 M35X1.5
 TC-4/1	STEEL 3/4" - 2" 19.05 - 50.8 mm NON-FERROUS 5/8" - 2 1/2" 15.87 - 63.5 mm	5 SPEED 120 195 360 680 1450	42 VOLT 3 PH. 220 VOLT 3 PH. 400 VOLT 3 PH. 50-60 HZ.	1250	800	MT-3 M35X1.5
 TC-5	STEEL 1" - 3" 25.4 - 76.2 mm NON-FERROUS 1 1/4" - 4" 31.75 - 101.6 mm	5 SPEED 20 40 80 160 700	42 VOLT 3 PH. 220 VOLT 3 PH. 400 VOLT 3 PH. 50-60 HZ.	1500	900	MT-4 M50X2

ROLL-A-MOTORS THREE PHASE

	WEIGHT	SUPPLIED WITH QUICK CHANGE CHUCK
	29.5 lbs 13.5 kg	3/8" AND 1/2"
	29.5 lbs 13.5 kg	3/8" AND 1/2"
	46.0 lbs 20.9 kg	1/2" QUICK CHANGE CHUCK AND 3/4" FIXED CHUCK



ROLL-A-MOTOR SUPPORT



TELESCOPIC UNIVERSAL SHAFT

MODEL NO.	SHANK	EXTENSIBILITY	WEIGHT	ROLL-A-MOTOR SUPPORT
TUS-3	MT-3 M35X1.5	1005/1505 mm	25.3 lbs 11,5 kg	RMS-3
TUS-4	MT-4 M50X2	1005/1505 mm	25.3 lbs 11,5 kg	RMS-3

Note: Other quick change chuck available see page 32.



ROLL-A-MOTOR COUPLINGS

Selection Guide:

Motor Coupling with Quick Change Chuck



Model

MT-2 x 3/8" I.D. Sq.
MT-2 x 1/2" I.D. Sq.
MT-3 x 3/8" I.D. Sq.
MT-3 x 1/2" I.D. Sq.
MT-4 x 3/8" I.D. Sq.
MT-4 x 1/2" I.D. Sq.



Model

B12 x 1/4" I.D. Sq.
B12 x 3/8" I.D. Sq.
B16 x 3/8" I.D. Sq.
B16 x 1/2" I.D. Sq.

Motor Coupling Fixed Model



Model

MT-2 x 3/4" I.D. Sq.
MT-3 x 3/4" I.D. Sq.
MT-4 x 3/4" I.D. Sq.

MT-2 x 1" I.D. Sq.
MT-3 x 1" I.D. Sq.
MT-4 x 1" I.D. Sq.

Motor Coupling Fixed Model



3/4" I.D. Sq. x 3/4" I.D. Sq.
1" I.D. Sq. x 1" I.D. Sq.

ROLL-A-MOTOR UNIVERSAL JOINTS

Selection Guide:

Universal Joint with Quick Change Chuck



Model

3/8" O.D. Sq. x 3/8" I.D. sq.
MT-2 or MT-3 x 3/8" I.D. sq.
1/2" O.D. Sq. x 1/2" I.D. sq.
MT-2 or MT-3 x 1/2" I.D. sq.

Overall Length

4" Long
4" Long
4" Long
4" Long

Universal Joint Fixed Model

Model

3/4" O.D. Sq. x 3/4" I.D. Sq.
1" O.D. Sq. x 1" I.D. Sq.

Overall Length

8" or 12" Long
8" or 12" Long

Double Universal Joint with Quick Change Chuck

both sides with quick change chuck



3/8" I.D. Sq. x 3/8" I.D. Sq.
1/2" I.D. Sq. x 1/2" I.D. Sq.

Double Universal Joint (with fixed chuck)

3/4" Internal square x 3/4" Internal Square
1" Internal square x 1" Internal Square

Mandrel Extensions



Model

3/8" O.D. Sq. x 3/8" I.D. Sq.
Quick Change Chuck
1/2" O.D. Sq. x 1/2" I.D. Sq.
Quick Change Chuck

Overall Length

8" or 12" Long
8" or 12" Long

3/4" O.D. Sq. x 3/4"
Internal Square
1" O.D. Sq. x 1"
Internal Square

8" or 12" Long

8" or 12" Long



Model

3/8" O.D. Sq. x 3/8" O.D. Sq.
1/2" O.D. Sq. x 1/2" O.D. Sq.

Overall Length

8" or 12" Long
8" or 12" Long