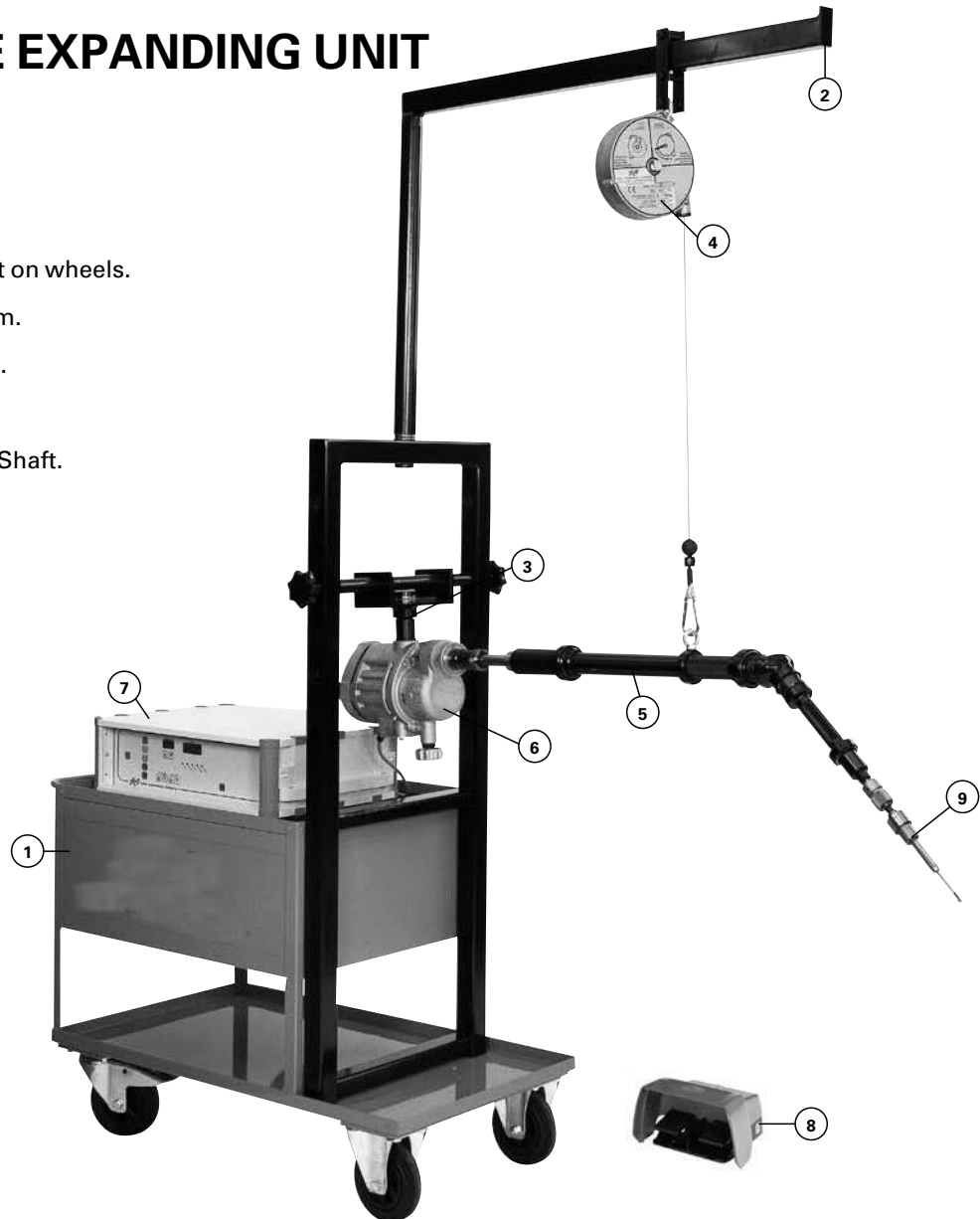


# AUTO TUBE EXPANDING UNIT

## INDEX

1. Transportable cabinet on wheels.
2. Overhead support arm.
3. Roll-A-Motor support.
4. Tool balancer.
5. Telescopic Universal Shaft.
6. Roll-A-Motor.
7. Control Unit.
8. Foot switch.
9. Expander.



## FEATURES

- Easy to set up and use.
- Up-grades productivity.
- Improves quality.
- Complete repeatability of rolling torque.
- Semi or fully automatic operation.
- No motor weight or torque taken by the operator.
- Longer expander life.
- Four/five speed motors to cover most tube sizes.
- Low noise level.
- Telescopic spindle and foot switch operated.
- Hand held version available.

# 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.
- 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.

Dimensions : L 56 cm x W 36 cm x H 18 cm  
 Weight : 15 kg

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**










**CONTROL UNIT WITH TRANSFORMER**

## 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

Note: For tube capacity see page 28-31.

## Selection Guide: ROLL-A-MOTORS

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
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-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.



#### 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