

TCR Air Powered Hoists with Pendant and Cord Controls and Hook Suspension

Harrington's TCR Series air hoists offer the benefit of lifting heavier loads while maintaining low headroom and a continuous duty cycle. These hoists are best suited for use in foundries, assembly lines, construction sites and many other demanding applications.

| Features and Benefits | Standard Hoist Specifications |
|---|---|
| <p>Unlimited Duty Cycle For continuous operation</p> <p>Spring-Loaded Multi-Vane Motor Design Permits very fine feathering control</p> <p>High Strength Cast Iron Housing Proven weather resistant and durable in harsh environments</p> <p>Airtight Hoist Results in efficient use of air</p> <p>Comfortable Noise Levels External muffler reduces noise level to 80dBA @ 1 yd. with no load</p> <p>Heavy Duty Self-Adjusting Brake For precise braking action</p> <p>Standard Upper & Lower Limit Stops Prevents over-travel of hook in either direction</p> <p>Overload Limiter Adjustable load limiter detects overload automatically and blocks air flow for lifting</p> <p>Wear Resistant Load Chain Grade 80, case-hardened for superior strength</p> | <p>Capacity Range 1/4 – 2 Ton (see page 14 for 10 – 25 Ton)</p> <p>Standard Lift 10' (longer lifts available)</p> <p>Standard Pendant or Cord Length Hangs approximately 4' above the hoist's fully extended bottom hook (longer lengths available)</p> <p>Air Supply Requirement 48 – 90 cfm at 60 – 90 psi</p> <p>Air Lubrication Requirement Minimum 10 to 15 drops of oil per minute (0.2 – 0.3 cc/min.)</p> <p>Air Filtration Maximum 5 micron air filter or finer required</p> <p>Air Inlet Port 1/2" NPT</p> <p>Air Supply Hose Minimum Size 1/4 – 2 Tons — 1/2"</p> <p>Operating Conditions Temperature range +14° to 140°F Humidity 85% or less</p> <p>Chain Containers Optional Canvas or Steel</p> |



TCR1000P



TCR1000C2

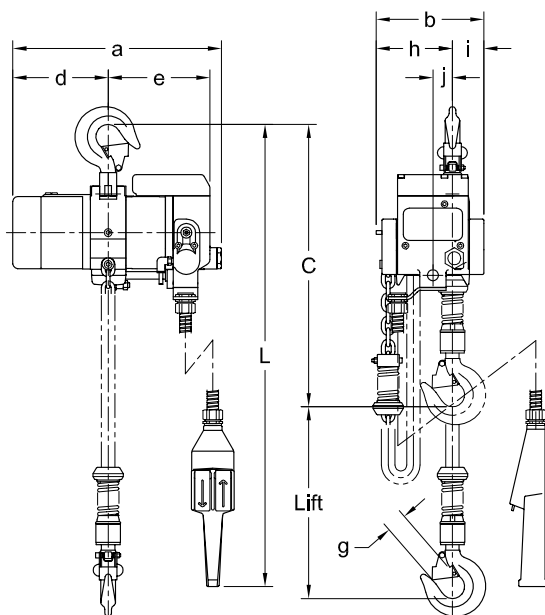
TCR Air Powered Hoists with Pendant and Cord Controls and Hook Suspension

PENDANT MODEL—SPECIFICATIONS

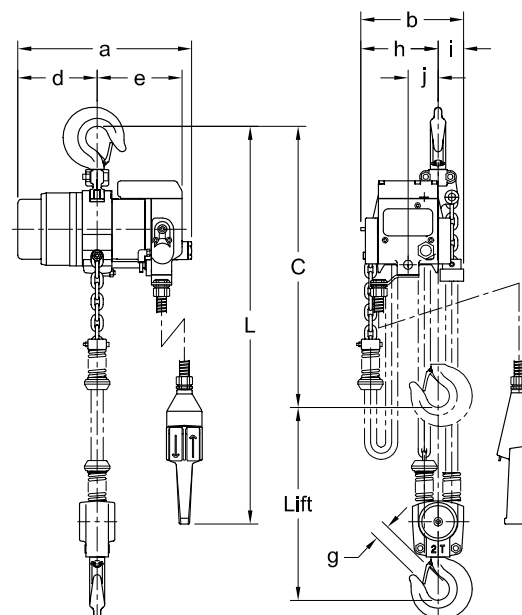
| Cap. (Tons) | Product Code | Standard Lift (ft) | Push Button Hose L (ft) | Up/Down Speeds (ft/min @ 90 psi) | | Up/Down Air Consumption Rates (cubic ft/min @ 90 psi) | | Load Chain Diameter (mm) x Chain Fall Lines | Net Weight (lbs) | Weight for Additional One Foot of Lift (lbs) |
|----------------|-----------------|--------------------------|-------------------------------------|-------------------------------------|-----------|---|-----------|--|------------------------|---|
| | | | | No Load | Full Load | No Load | Full Load | | | |
| 1/4 | TCR250P | 10 | 7.5 | 68 / 44 | 52 / 51 | 63 / 49 | 48 / 57 | 6.3 x 1 | 68 | 0.6 |
| 1/2 | TCR500P | | 7.5 | 68 / 44 | 37 / 57 | 63 / 49 | 48 / 57 | 6.3 x 1 | 68 | 0.6 |
| 1 | TCR1000P2 | | 7.5 | 34 / 22 | 19 / 29 | 63 / 49 | 48 / 57 | 6.3 x 2 | 78 | 1.2 |
| 1 | TCR1000P | | 7.5 | 37 / 22 | 21 / 33 | 62 / 53 | 53 / 60 | 7.1 x 1 | 77 | 0.8 |
| 2 | TCR2000P2 | | 7.5 | 19 / 11 | 11 / 16 | 62 / 53 | 53 / 60 | 7.1 x 2 | 88 | 1.5 |

PENDANT MODEL—DIMENSIONS

| Cap. (Tons) | Product Code | Headroom C (in) | a (in) | b (in) | d (in) | e (in) | g (in) | h (in) | i (in) | j (in) |
|----------------|-----------------|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1/4 | TCR250P | 18.2 | 13.5 | 6.9 | 6.1 | 6.6 | 1.2 | 4.9 | 2.0 | 1.3 |
| 1/2 | TCR500P | 18.2 | 13.5 | 6.9 | 6.1 | 6.6 | 1.2 | 4.9 | 2.0 | 1.3 |
| 1 | TCR1000P2 | 20.4 | 13.5 | 7.7 | 6.1 | 6.6 | 1.2 | 5.9 | 1.9 | 2.2 |
| 1 | TCR1000P | 18.3 | 13.5 | 6.9 | 6.1 | 6.6 | 1.2 | 4.9 | 2.0 | 1.3 |
| 2 | TCR2000P2 | 21.8 | 13.5 | 8.0 | 6.1 | 6.6 | 1.2 | 6.0 | 2.0 | 2.3 |



TCR500P
Single Fall Pendant Model



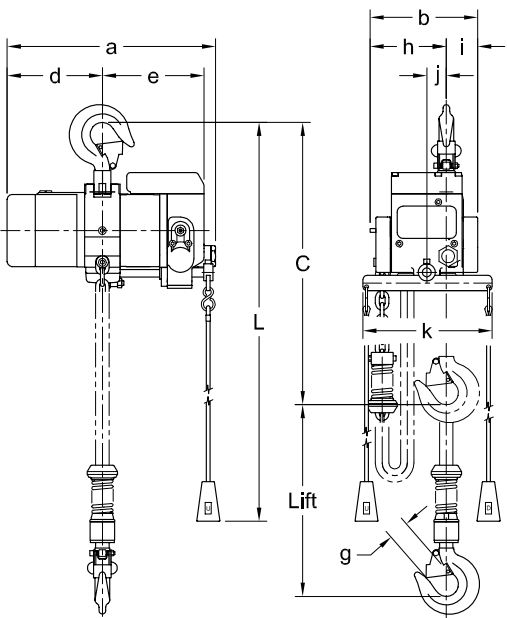
TCR2000P2
Double Fall Pendant Model

CORD MODEL—SPECIFICATIONS

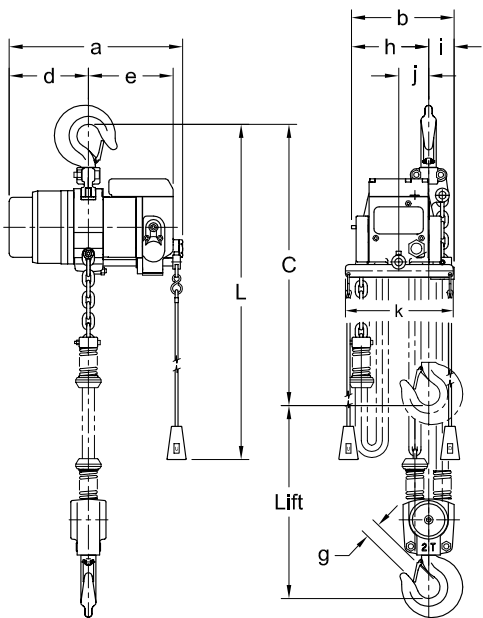
| Cap. (Tons) | Product Code | Standard Lift (ft) | Cord L (ft) | Up/Down Speeds (ft/min @ 90 psi) | | Up/Down Air Consumption Rates (cubic ft/min @ 90 psi) | | Load Chain Diameter (mm) x Chain Fall Lines | Net Weight (lbs) | Weight for Additional One Foot of Lift (lbs) |
|----------------|-----------------|--------------------------|-------------------|-------------------------------------|-----------|---|-----------|--|------------------------|---|
| | | | | No Load | Full Load | No Load | Full Load | | | |
| 1/4 | TCR250C | 10 | 7.5 | 68 / 44 | 52 / 51 | 63 / 49 | 48 / 57 | 6.3 x 1 | 66 | 0.6 |
| 1/2 | TCR500C | | 7.5 | 68 / 44 | 37 / 57 | 63 / 49 | 48 / 57 | 6.3 x 1 | 66 | 0.6 |
| 1 | TCR1000C2 | | 7.5 | 34 / 22 | 19 / 29 | 63 / 49 | 48 / 57 | 6.3 x 2 | 76 | 1.2 |
| 1 | TCR1000C | | 7.5 | 37 / 22 | 21 / 33 | 62 / 53 | 53 / 60 | 7.1 x 1 | 75 | 0.8 |
| 2 | TCR2000C2 | | 7.5 | 19 / 11 | 11 / 16 | 62 / 53 | 53 / 60 | 7.1 x 2 | 86 | 1.5 |

CORD MODEL—DIMENSIONS

| Cap. (Tons) | Product Code | Headroom C (in) | a (in) | b (in) | d (in) | e (in) | g (in) | h (in) | i (in) | j (in) | k (in) |
|----------------|-----------------|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1/4 | TCR250C | 18.2 | 13.5 | 6.9 | 6.1 | 6.6 | 1.2 | 4.9 | 2.0 | 1.3 | 8.3 |
| 1/2 | TCR500C | 18.2 | 13.5 | 6.9 | 6.1 | 6.6 | 1.2 | 4.9 | 2.0 | 1.3 | 8.3 |
| 1 | TCR1000C2 | 20.4 | 13.5 | 7.7 | 6.1 | 6.6 | 1.2 | 5.9 | 1.9 | 2.2 | 8.3 |
| 1 | TCR1000C | 18.3 | 13.5 | 6.9 | 6.1 | 6.6 | 1.2 | 4.9 | 2.0 | 1.3 | 8.3 |
| 2 | TCR2000C2 | 21.8 | 13.5 | 8.0 | 6.1 | 6.6 | 1.2 | 6.0 | 2.0 | 2.3 | 8.3 |



TCR500C
Single Fall Cord Model



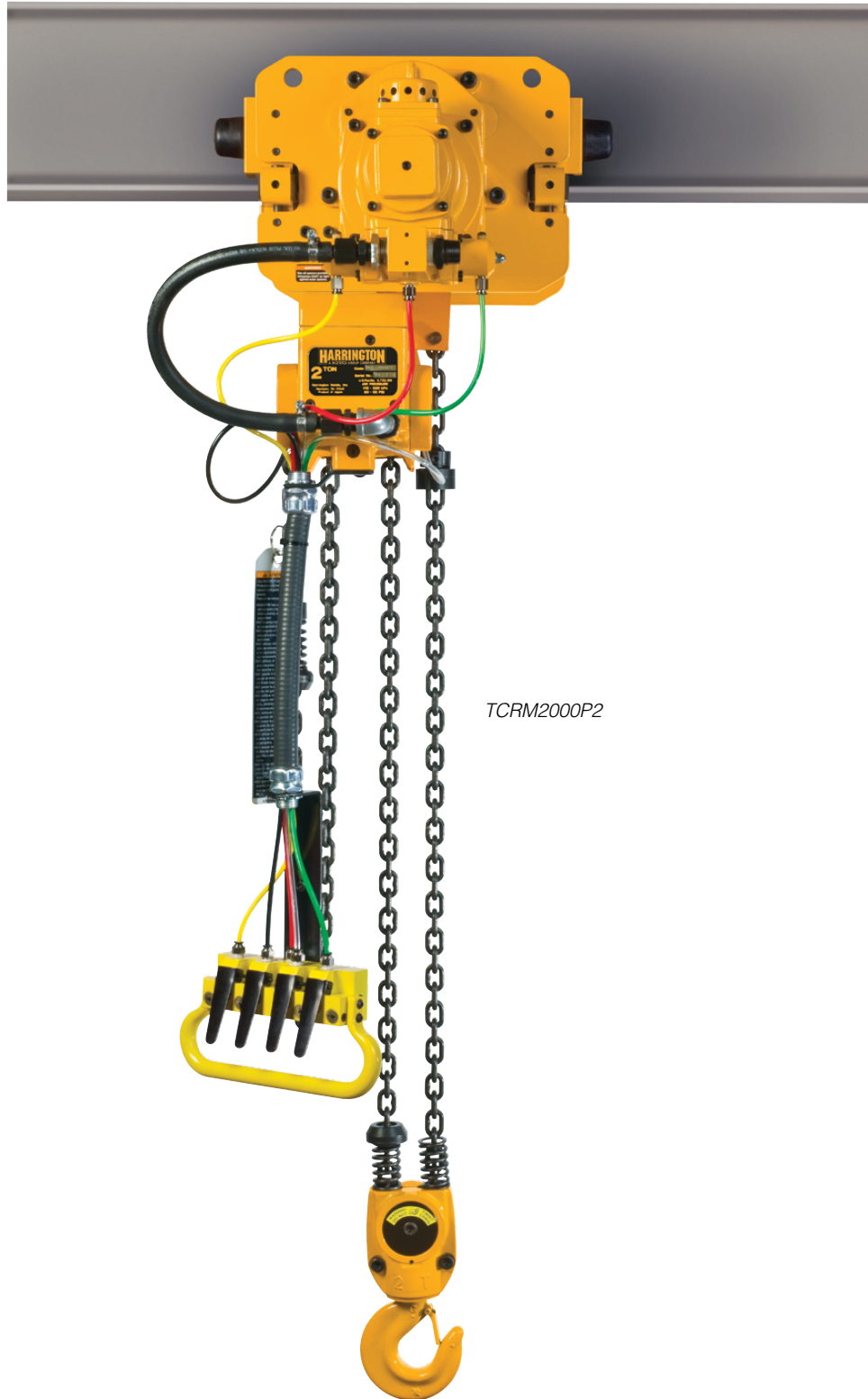
TCR2000C2
Double Fall Cord Model

TCR Air Powered Hoists with Air Powered, Push and Geared Trolleys

Harrington's TCR hoists will couple with our air powered, push or geared trolleys for added mobility. The MCR air powered trolley is the ideal choice for transporting medium to heavy loads in construction and foundry applications. The economical PT or GT manual trolleys are perfect for lighter, infrequent moves and in small workshops.

Refer to page 4 for standard hoist specifications.

| Features and Benefits | Standard Hoist Specifications |
|---|--|
| <p>Air Powered Trolleys</p> <p>Unlimited Duty Cycle For continuous operation</p> <p>Spring-Loaded Multi-Vane Motor Design Permits smooth operation and controlled travel</p> <p>High Strength Cast Iron Housing Proven weather resistant and durable in harsh environments</p> <p>Internal Disc Brake Protected from harsh environments</p> <p>Drop Stops & Rubber Bumpers To ensure safe operation</p> <p>Side Guide Rollers Provide additional stability and smooth travel</p> <p>Versatile Wheels Fit flat or tapered beam flange</p> <p>Trolley Muffler Produces low noise levels</p> <p>Manual Trolleys</p> <p>Shafts Standard shafts fit wide range of beams Longer shafts available for larger beams Spacers for easy adjustments</p> <p>Wheels All steel Sealed ball bearings Fit flat or tapered beam flange</p> | <p>Air Powered Trolleys</p> <p>Capacity Range 1/4 – 2 Ton</p> <p>Control Option on Trolley/Hoist Pendant control only</p> <p>Standard Pendant Length Hangs approximately 4' above the hoist's fully extended bottom hook (longer lengths available — maximum 30')</p> <p>Air Supply Requirement 53 cfm at 60 – 90 psi</p> <p>Air Lubrication Requirement Minimum 10 to 15 drops of oil per minute (0.2 – 0.3 cc/min.)</p> <p>Air Filtration Maximum 5 micron air filter or finer required</p> <p>Air Inlet Port 3/4" NPT</p> <p>Air Supply Hose Minimum Size 1/4 – 2 Tons — 1/2"</p> <p>Operating Conditions Temperature range +14° to 140°F Humidity 85% or less</p> <p>Manual Trolleys</p> <p>Capacity Range 1/4 – 2 Ton</p> <p>Control Option on Hoist TCRP and TCRG — Pendant and cord</p> <p>Standard Hand Chain Length On geared trolleys Hangs approximately 2' less than fully extended bottom hook (longer lengths available)</p> |



TCRM2000P2

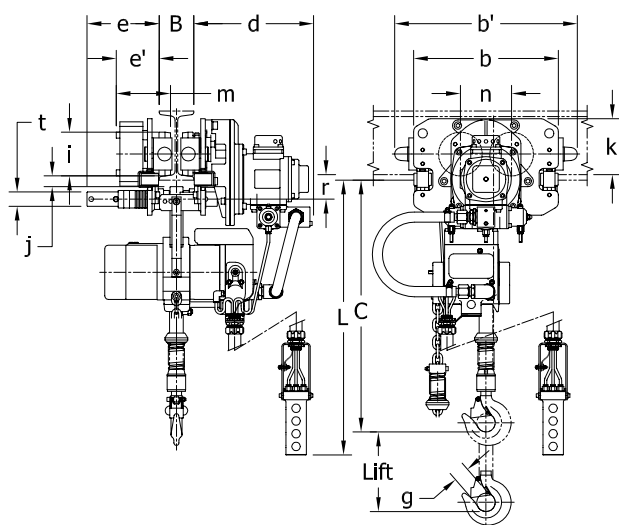
TCR Air Powered Hoists with Air Powered, Push and Geared Trolleys

PENDANT MODEL WITH AIR POWERED TROLLEY—SPECIFICATIONS

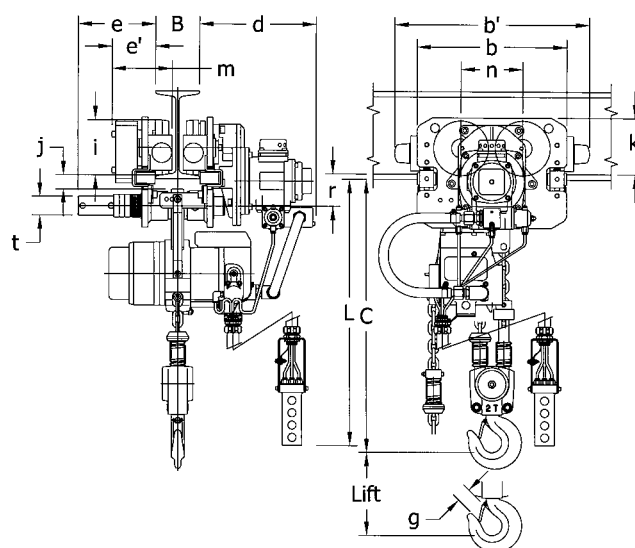
| Cap. (Tons) | Product Code | Standard Lift (ft) | Push Button Hose L (ft) | Up/Down Speeds (ft/min @ 90 psi) | | Traversing Speed (ft/min) | Up/Down Air Consumption Rates (cfm @ 90 psi) | | | Flange Width Adjustability B (in) | Minimum Allow. Radius for Curve (in) | Load Chain Diameter (mm) x Chain Fall Lines | Net Weight (lbs) | Weight for Additional One Foot of Lift (lbs) |
|----------------|-----------------|--------------------------|-------------------------------------|-------------------------------------|-----------|---------------------------------|--|-----------|----------------------|---|---|---|------------------------|---|
| | | | | | | | TCR | | MCR | | | | | |
| | | | | No Load | Full Load | | No Load | Full Load | No Load Full Load | | | | | |
| 1/4 | TCRM250P | 10 | 7.4 | 68 / 44 | 52 / 51 | 65 | 63 / 49 | 48 / 57 | 53 | 2.28 to 5.00 | 137.8 | 6.3 x 1 | 170 | 0.6 |
| 1/2 | TCRM500P | | | 68 / 44 | 37 / 57 | | 63 / 49 | 48 / 57 | 53 | | | 6.3 x 1 | 170 | 0.6 |
| 1 | TCRM1000P2 | | | 34 / 22 | 19 / 29 | | 63 / 49 | 48 / 57 | 53 | | | 6.3 x 2 | 183 | 1.2 |
| 1 | TCRM1000P | | | 37 / 22 | 21 / 33 | | 62 / 53 | 53 / 60 | 53 | | | 7.1 x 1 | 209 | 0.8 |
| 2 | TCRM2000P2 | | | 18.5 / 11 | 11 / 16 | | 62 / 53 | 53 / 60 | 53 | 3.94 to 6.02 | 51.2 | 7.1 x 2 | 254 | 1.5 |

PENDANT MODEL WITH AIR POWERED TROLLEYS—DIMENSIONS

| Cap. (Tons) | Product Code | Headroom C (in) | b (in) | b' (in) | d (in) | e (in) | e' (in) | g (in) | i (in) | j (in) | k (in) | m (in) | n (in) | r (in) | t (in) |
|----------------|-----------------|-----------------------|-----------|------------|-----------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1/4 | TCRM250P | 19.3 | 12.4 | 15.6 | 10.3 | 6.2 | 3.7 | 1.2 | 3.7 | 0.9 | 4.8 | 4.6 | 4.4 | 2.0 | 1.2 |
| 1/2 | TCRM500P | 19.3 | 12.4 | 15.6 | 10.3 | 6.2 | 3.7 | 1.2 | 3.7 | 0.9 | 4.8 | 4.6 | 4.4 | 2.0 | 1.2 |
| 1 | TCRM1000P2 | 21.5 | 12.4 | 15.6 | 10.3 | 6.2 | 3.7 | 1.2 | 3.7 | 0.9 | 4.8 | 4.6 | 4.4 | 2.0 | 1.2 |
| 1 | TCRM1000P | 19.5 | 12.4 | 15.6 | 10.3 | 6.2 | 3.7 | 1.2 | 3.7 | 0.9 | 4.8 | 4.6 | 4.4 | 2.0 | 1.2 |
| 2 | TCRM2000P2 | 23.3 | 13.4 | 17.4 | 10.5 | 6.9 | 3.9 | 1.2 | 4.9 | 1.3 | 5.0 | 5.1 | 5.5 | 2.8 | 1.7 |



TCRM500P



TCRM2000P2

PENDANT MODEL WITH PUSH OR GEARED TROLLEY—SPECIFICATIONS

| Cap. (Tons) | Product Code | Standard Lift (ft) | Push Button Hose L (ft) | Up/Down Speeds (ft/min @ 90 psi) | | Up/Down Air Consumption Rates (cubic ft/min @ 90 psi) | | Flange Width Adjustability B (in) | | Minimum* Allow. Radius for Curve (in) | Load Chain Diameter (mm) x Chain Fall Lines | Net Weight (lbs) | Weight for Additional One Foot of Lift (lbs) |
|----------------|------------------|--------------------------|-------------------------------------|-------------------------------------|-----------|---|-----------|---|---|--|---|------------------------|---|
| | | | | No Load | Full Load | No Load | Full Load | Standard | Optional | | | | |
| 1/4 | TCRP(TCRG)250P | 10 | 7.5 | 68 / 44 | 52 / 51 | 63 / 49 | 48 / 57 | 2.28 to 4.00 (2.28 to 5.00) | 4.01 to 8.00 (5.01 to 8.00) OR 8.01 to 12.00 | 13.8 (51.2) | 6.3 x 1 | 76 (96) | 0.6 (1.2) |
| 1/2 | TCRP(TCRG)500P | | 7.5 | 68 / 44 | 37 / 57 | 63 / 49 | 48 / 57 | | | | 6.3 x 1 | 76 (96) | 0.6 (1.2) |
| 1 | TCRP(TCRG)1000P2 | | 7.5 | 34 / 22 | 19 / 29 | 63 / 49 | 48 / 57 | 2.28 to 5.00 | 5.01 to 8.00 OR 8.01 to 12.00 | 17.7 (51.2) | 6.3 x 2 | 94 (108) | 1.2 (1.8) |
| 1 | TCRP(TCRG)1000P | | 7.5 | 37 / 22 | 21 / 33 | 62 / 53 | 53 / 60 | | | | 7.1 x 1 | 91 (105) | 0.8 (1.4) |
| 2 | TCRP(TCRG)2000P2 | | 7.5 | 19 / 11 | 11 / 16 | 62 / 53 | 53 / 60 | 3.23 to 6.02 | 6.03 to 12.00 | 21.7 (59.1) | 7.1 x 2 | 113 (130) | 1.5 (2.1) |

Figures in parenthesis are data for geared trolley

*Minimum flange width for curved beam: 1 Ton Push and 1/8 to 1Ton Geared = 2.87 in.

CORD MODEL WITH PUSH OR GEARED TROLLEY—SPECIFICATIONS

| Cap. (Tons) | Product Code | Standard Lift (ft) | Cord L (ft) | Up/Down Speeds (ft/min @ 90 psi) | | Up/Down Air Consumption Rates (cubic ft/min @ 90 psi) | | Flange Width Adjustability B (in) | | Minimum* Allow. Radius for Curve (in) | Load Chain Diameter (mm) x Chain Fall Lines | Net Weight (lbs) | Weight for Additional One Foot of Lift (lbs) |
|----------------|------------------|--------------------------|-------------------|-------------------------------------|-----------|---|-----------|---|---|--|---|------------------------|---|
| | | | | No Load | Full Load | No Load | Full Load | Standard | Optional | | | | |
| 1/4 | TCRP(TCRG)250C | 10 | 7.5 | 68 / 44 | 52 / 51 | 63 / 49 | 48 / 57 | 2.28 to 4.00 (2.28 to 5.00) | 4.01 to 8.00 (5.01 to 8.00) OR 8.01 to 12.00 | 13.8 (51.2) | 6.3 x 1 | 74 (94) | 0.6 (1.2) |
| 1/2 | TCRP(TCRG)500C | | 7.5 | 68 / 44 | 37 / 57 | 63 / 49 | 48 / 57 | | | | 6.3 x 1 | 73 (94) | 0.6 (1.2) |
| 1 | TCRP(TCRG)1000C2 | | 7.5 | 34 / 22 | 19 / 29 | 63 / 49 | 48 / 57 | 2.28 to 5.00 | 5.01 to 8.00 OR 8.01 to 12.00 | 17.7 (51.2) | 6.3 x 2 | 91 (106) | 1.2 (1.8) |
| 1 | TCRP(TCRG)1000C | | 7.5 | 37 / 22 | 21 / 33 | 62 / 53 | 53 / 60 | | | | 7.1 x 1 | 89 (103) | 0.8 (1.4) |
| 2 | TCRP(TCRG)2000C2 | | 7.5 | 19 / 11 | 11 / 16 | 62 / 53 | 53 / 60 | 3.23 to 6.02 | 6.03 to 12.00 | 21.7 (59.1) | 7.1 x 2 | 111 (128) | 1.5 (2.1) |

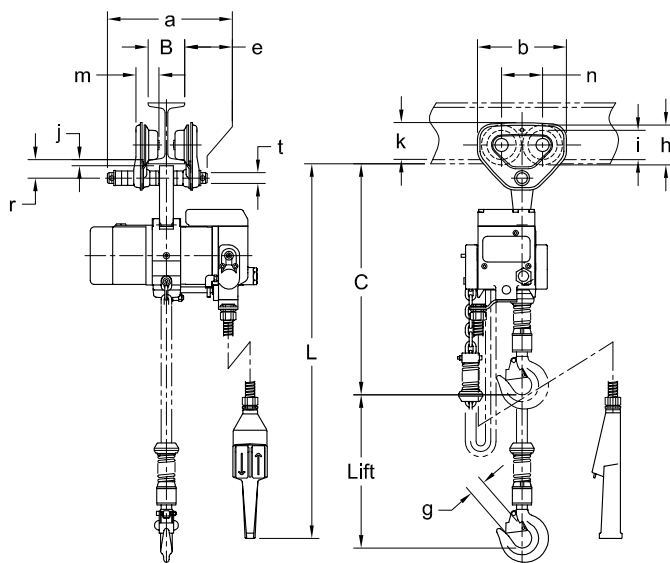
Figures in parenthesis are data for geared trolley

*Minimum flange width for curved beam: 1 Ton Push and 1/8 to 1Ton Geared = 2.87 in.

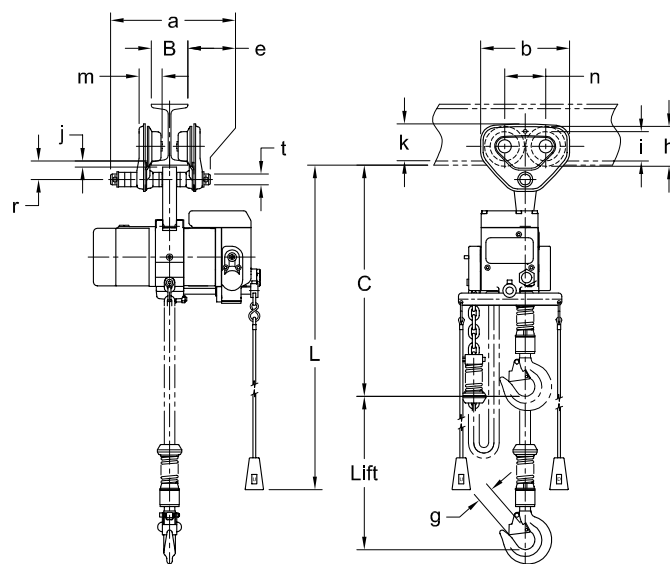
TCR Air Powered Hoists with Air Powered, Push and Geared Trolleys

PENDANT AND CORD MODEL WITH PUSH TROLLEY—DIMENSIONS

| Cap. (Tons) | Product Code | Headroom C (in) | a (in) | b (in) | e (in) | g (in) | h (in) | i (in) | j (in) | k (in) | m (in) | n (in) | r (in) | t (in) |
|----------------|-----------------|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1/4 | TCRP250C/P | 18.6 | 8.0 | 7.2 | 1.8 | 1.1 | 3.2 | 2.36 | 0.5 | 3.0 | 1.9 | 3.3 | 1.5 | 0.87 |
| 1/2 | TCRP500C/P | 18.6 | 8.0 | 7.2 | 1.8 | 1.1 | 3.2 | 2.36 | 0.5 | 3.0 | 1.9 | 3.3 | 1.5 | 0.87 |
| 1 | TCRP1000C2/P2 | 21.3 | 9.8 | 9.3 | 2.2 | 1.1 | 4.2 | 2.80 | 0.9 | 3.7 | 2.2 | 4.4 | 2.0 | 0.98 |
| 1 | TCRP1000C/P | 19.2 | 9.8 | 9.3 | 2.2 | 1.1 | 4.2 | 2.80 | 1.0 | 3.7 | 2.2 | 4.4 | 2.0 | 0.98 |
| 2 | TCRP2000C2/P2 | 21.9 | 11.8 | 11.0 | 2.7 | 1.1 | 5.0 | 3.35 | 1.0 | 4.4 | 2.8 | 5.2 | 2.4 | 1.26 |



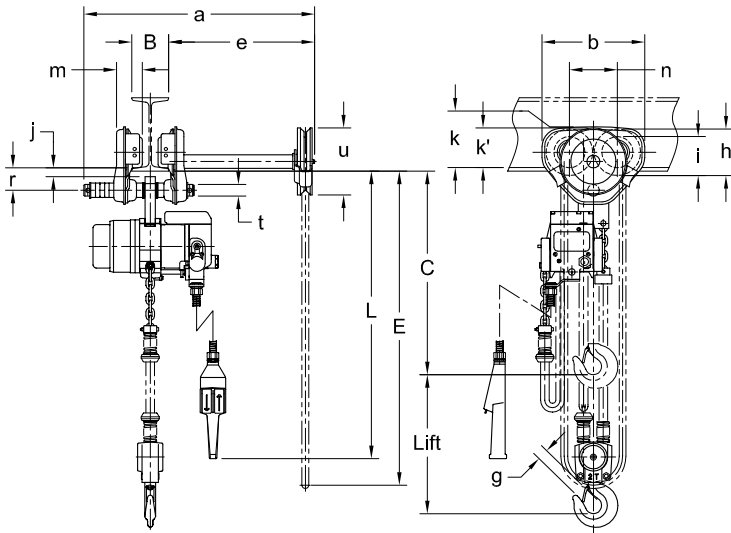
TCRP500P



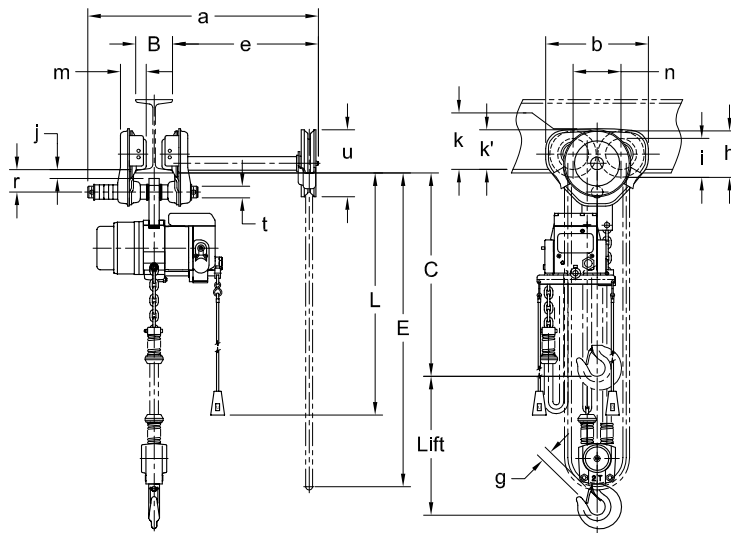
TCRP500C

PENDANT AND CORD MODEL WITH GEARED TROLLEY—DIMENSIONS

| Cap. (Tons) | Product Code | Headroom C (in) | E (ft) | a (in) | b (in) | e (in) | g (in) | h (in) | i (in) | j (in) | k (in) | k' (in) | m (in) | n (in) | r (in) | t (in) | u (in) |
|----------------|-----------------|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|-----------|
| 1/4 | TCRG250C/P | 19.0 | 10.5 | 20.9 | 9.3 | 13.3 | 1.1 | 4.2 | 2.80 | 1.0 | 3.7 | 4.2 | 2.2 | 4.4 | 2.0 | 0.98 | 7.2 |
| 1/2 | TCRG500C/P | 19.0 | 10.5 | 20.9 | 9.3 | 13.3 | 1.1 | 4.2 | 2.80 | 1.0 | 3.7 | 4.2 | 2.2 | 4.4 | 2.0 | 0.98 | 7.2 |
| 1 | TCRG1000C2/P2 | 21.3 | 10.5 | 20.9 | 9.3 | 13.3 | 1.1 | 4.2 | 2.80 | 0.9 | 3.7 | 4.2 | 2.2 | 4.4 | 2.0 | 0.98 | 7.2 |
| 1 | TCRG1000C/P | 19.2 | 10.5 | 20.9 | 9.3 | 13.3 | 1.1 | 4.2 | 2.80 | 1.0 | 3.7 | 4.2 | 2.2 | 4.4 | 2.0 | 0.98 | 7.2 |
| 2 | TCRG2000C2/P2 | 21.9 | 10.5 | 24.8 | 11.0 | 13.3 | 1.1 | 5.0 | 3.35 | 1.0 | 4.4 | 4.3 | 2.8 | 5.2 | 2.4 | 1.26 | 7.2 |



TCRG2000P2



TCRG2000C2