



Harnessing the Power
of Hydraulics to Repair
Hydraulic Cylinders

HYDRAULIC CYLINDER REPAIR BENCH



PROFESSIONAL CYLINDER REPAIR

www.cylindercyclone.com



engineered
and
built by
**HYDRAULIC
SPECIALISTS**

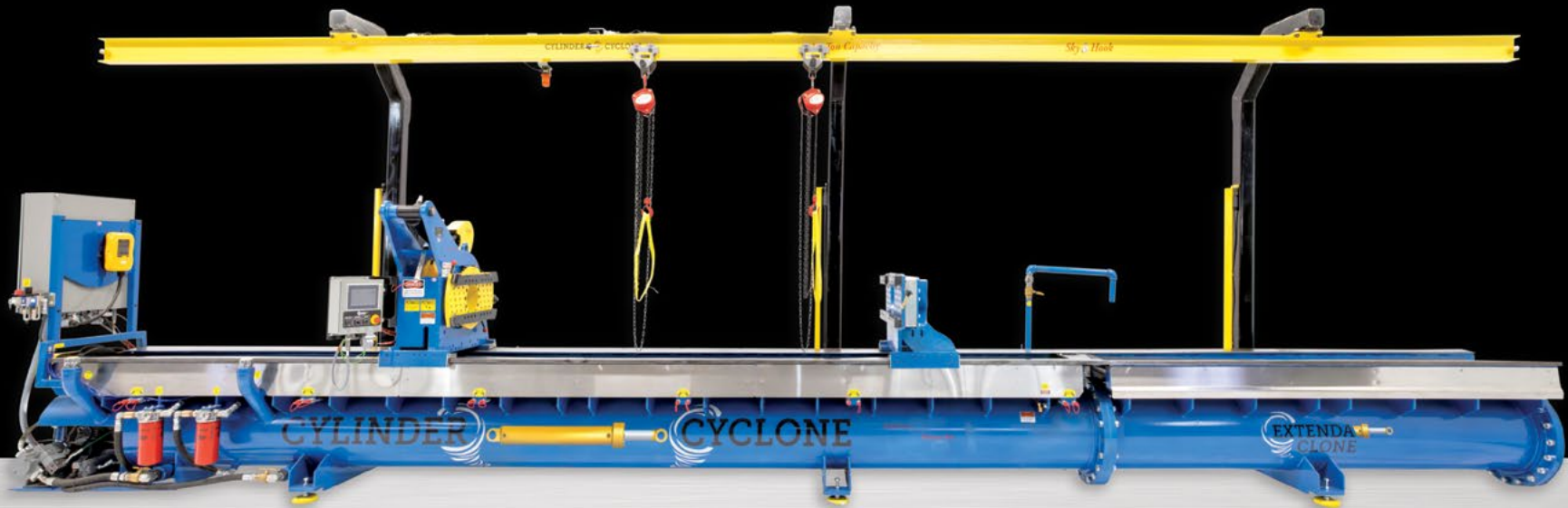
We live in the world of the machine shop and hydraulic repair. As our machine shop branched out into hydraulic cylinder repair we soon saw the need for a cylinder repair bench. Upon searching the available cylinder bench market we could not find one that satisfied our needs. One day a cousin who specialized in machine fabrication casually remarked, "You should build your bench on a pipe; that would easily handle the torque needed for your work."

That clicked, and we went to work! Building on our interest in development and having machinery that does the job properly, that pipe became an entire system of tooling. Soon we built a repair bench of our own and through trial and error our bench's abilities grew. In time we added electronics and many other safety features. Eventually we named it the Cylinder Cyclone, because it has the power to transform a worn out, leaky cylinder into perfect performance once again...all through the dynamic of hydraulic cylinder power.

Other shops saw our Cylinder Cyclone and purchased units from us. This interest led us to add more safety and time-saving features so cylinder repair shops can benefit from these improvements.

We now offer our Cylinder Cyclone to the cylinder repair industry in two models as well as a number of specialized upgrade options. Hydraulic shops have to meet the needs of their clients, and specialized equipment can make that job a breeze—through the Cylinder Cyclone.

Come take the tour of what we have to offer!



Cylinder Cyclone CC-2050-RPB

pictured with 12' Extenda-Clone

Why buy the Cylinder Cyclone?

What sets us apart from the competition?

- Fully bidirectional ratchet for loosening or tightening cylinder components—no need to turn anything around.
- Bidirectional full length push & pull on standard machines—powered by high performance ball screws.
- Rapid or incremental travel with precise force control—you control cylinder parts at the speed and force needed for each job
- Integrated pressure test—test the repairs before you take the cylinder off the machine! Pressure is variable from 0-4,000 PSI at high flow for additional speed.
- Digital readouts on all function—know exactly what the machine is doing for you at all times!
- Sky-Hook placement and stability—hangs the cylinder where you want it for perfect installation alignment.
- Wireless remote controls—operator stays back and out of danger while operating the machine.
- Custom made tooling—to expedite operations for any type of cylinder.
- ROI friendly—a machine that pays for itself and saves your customer money because it is designed right and equipped with efficient tooling!
- Expands your customer base—increase client's confidence that you can service their needs. A job done quickly, accurately and efficiently equals a returning happy customer.

MACHINE SPECIFICATIONS

For the CC-2050-RPB

Torque Capacity—50,000 foot pounds of loosening capacity and 37,500 foot pounds of tightening

For the CC-2060-RPB

Torque Capacity—60,000 foot pounds of loosening capacity and 50,000 foot pounds of tightening



Dimensions: 25' long, 54" wide, and 10'6" high (with Sky Hook)

Operating specifications: 12" radius swing and 20' center to center working length. The Cylinder Cyclone will fully function with cylinders up to 10' long (closed), and an 8" dia rod. (Working with oversized cylinders? We have extension and Oversized tail-stock options that handle 30' long and 15" dia rods. See page 10.

Weight (including system fluids): approximately 11,500 lbs

Oil Capacities: (On standard model without Extenda-clone attachments)

Cylinder Cyclone system: 30 gal

Pressure test system: 60 gal

Waste oil from cylinders: 250 gal (additional capacity with Extenda-clone attachments.)

Motor — 20 HP 208/230/460V 3 phase motor or VFD control for single phase



KEY FEATURES

AccuraTorque Head

The head stock that tightens and loosens nuts and other components on the cylinder being repaired.

Provides up to 50,000 (60,000*) foot pounds of loosening or 37,500 (50,000*) foot pounds to tighten nuts on cylinders with an infinite pressure control between 0 and 50,000 foot pounds of torque.

Fully bidirectional head rotation. Pressing a button reverses the direction of rotation without changing tooling or drive mechanism so a "sticky" nut can be worked on or off to prevent galling.

*on the CC-2060-RPB model

Rotation speed is completely controllable from the remote.

Torque can be preset from remote to insure proper torque as well as prevent over-tightening nuts. When machine is set properly, it will stall before destroying cylinder parts.

Tightening and loosening speeds of up to 30 rpm from the remote!

Deluxe torque readout for all functions of the operation. Direct reads of foot pounds of torque and pounds of linear push and pull.

KEY FEATURES

Hydraulic Pump Systems

Two separate systems to
give you complete control.



Main system of 2050/60 RPB model is operated by a pressure compensated closed center pump which operates from 0 to 20 gpm and 0-3,175 psi to give you a speedy and powerfully responsive machine. (Model CC-2060-PCB goes 0-3,400 psi)

Pressure testing system is a 5/16 gpm/ HiFlow pump.

Hydraulic system is protected by suction strainers and 10 micron return filters. It has screened and capped fill ports and is equipped with a low oil light and alarm system.

Rapid Travel Features

Rapid pull/push capability of up to 25 feet per minute for the full length with non-stop travel ability.

Rapid travel applies to both rotary and linear as well as infinite pressure control in both these categories.

0-20,000 foot lbs. of pull/push capability between the head and tail stock of the machine.



Digital gauge readout of the force of lineal push or pull at all times.

Conveniently test cylinder seals before removing the cylinder from the bench. Pressure is variable adjustable from 0 to 4,000 psi at the push of a button on the remote. Pressure gauges reveal problem areas such as piston seal leaking, before the cylinder is removed from the bench.

Pressure test is 2 speed, high speed is 17 gpm, and low is 5 gpm.

When test indicates the cylinder is repaired, pushing the purge button on the bottom of the remote purges test oil from the cylinder for ease of handling and less mess.



KEY FEATURES

Pressure Test System

The head stock that tightens and loosens nuts and other components on the cylinder being repaired.

Miscellaneous Features

Quick tooling change out with finger operated quick release pins. This versatile system saves on time and makes an operator friendly system—most tooling is interchangeable between head and tail-stock eliminating the need for repetitive tooling. (See page 14 for full line of special made tooling.)

Resettable job timer is integrated with the touch screen and only runs while the machine is running. This timer serves for calculating an accurate bench use charge (which normally runs 4-6 times normal shop rate). Accurate calculations enable the shop to pay for the bench while giving the customer substantial savings over the cost of manually servicing a cylinder. (Using the Cylinder Cyclone often saves the customer about half of what was normal charge.)

The drain pan runs the full length of the machine with sloping rail ways to efficiently collect all waste oil and maintain a clean and safe work area.

Machine is lit with LED lighting system.

When machine is set properly, it will **stall before destroying** cylinder parts.

Electronic and Remote Controlled

The Cylinder Cyclone comes with state-of-the-art electronics.

Remote control gives the operator power over every operation of the machine, all the while standing at a safe distance. Each machine comes with two remote controls.



KEY FEATURES

Center Pipe Construction

A large pipe runs the entire length of the machine

The central pipe gives the machine the rigidity and stability to handle the torque of the most difficult cylinders. There is no need for prior floor preparation or for bolting the machine to the floor. All forces are entirely contained within the machine. Even in high torque circumstances the machine will not flex or twist. Need to move the Cylinder Cyclone to a new location? Simply unplug, relocate the machine and plug in again and you're ready to go. The pipe also provides three separate reservoirs. One reservoir (250 gallons) holds waste oil that naturally comes from working with repairing cylinders, and keeps it off your floor and tools. The second reservoir (30 gallons) is the hydraulic oil that runs the machine. The third reservoir (60 gallons) provides new oil for pressure testing cylinders which is filtered and returned to the reservoir.



Pressure test quick couplings at convenient locations so pressure tests can be done with relatively short hoses.



Sky Hook

Comprised of two rolling chain hoists hanging from integral overhead crane rail system

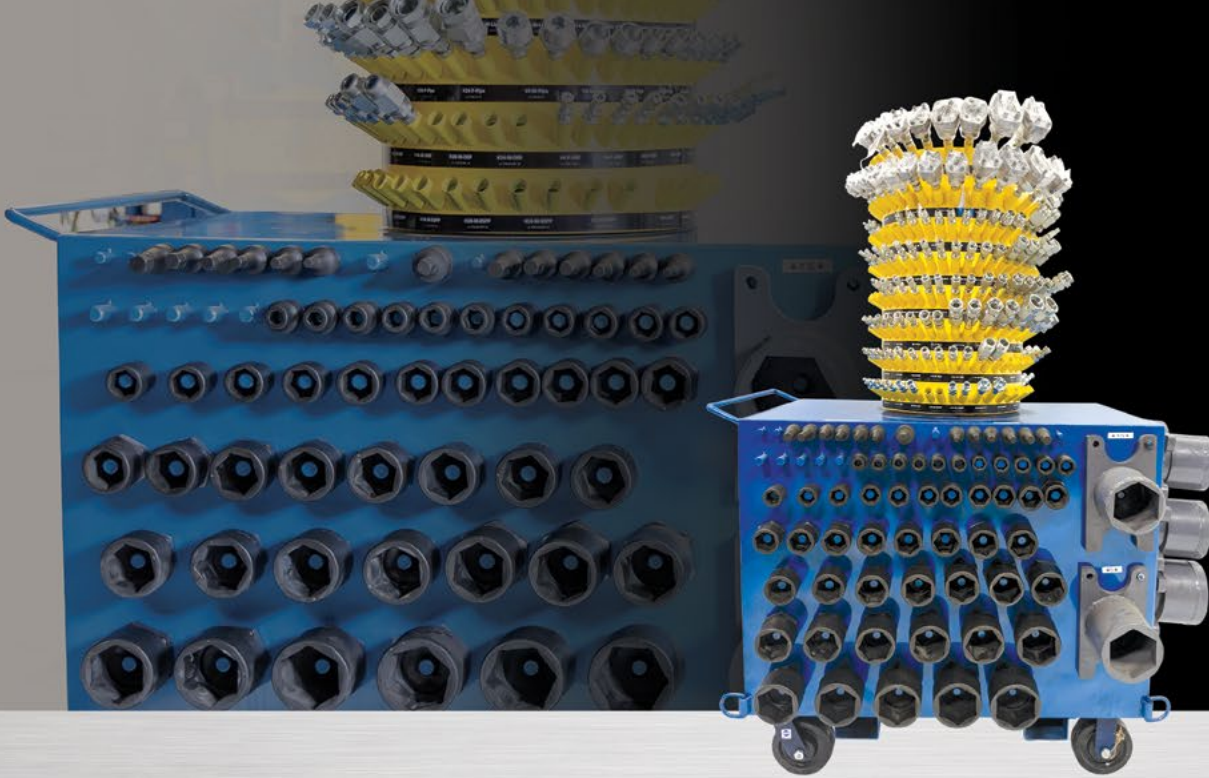
- Center lined to insure perfect alignment during assembly and disassembly.
- Overhead shop crane no longer is a necessity.
- Components hanging from straps on chain hoists insure fewer damaged parts.
- Sky Hook hoists are rated at 1 ton each so the system can safely handle cylinders that weigh up to 2 tons.
- Safety shut off is now a standard feature of the Sky Hook.



OPTIONAL ACCESSORIES

Tool Caddy

5' long and able to pass through a standard 2'8" (32"x80") door opening fully loaded



While the Cylinder Cyclone comes with basic tooling, there is an optional tool cart with a full line of accessories that is available for purchase. As photos indicate we offer a full line of sockets, custom designed spanner wrenches, quick couple pressure test fittings and other tooling.

Compact storage for most of the specialized tooling including

- $\frac{3}{4}$ " - 6 $\frac{1}{2}$ " sockets
- Socket drive system
- Eye grab cone system (3 sizes)
- Spanner mounting plates (2 sizes)
- Spanner jaws (external pin and hook) (5 sizes)
- Extra space in box and frame for additional tools
- Pressure test adaptor fittings and indexed storage
- Pressure test hoses
- Face Spanner (8 sizes)

Lazy Susan

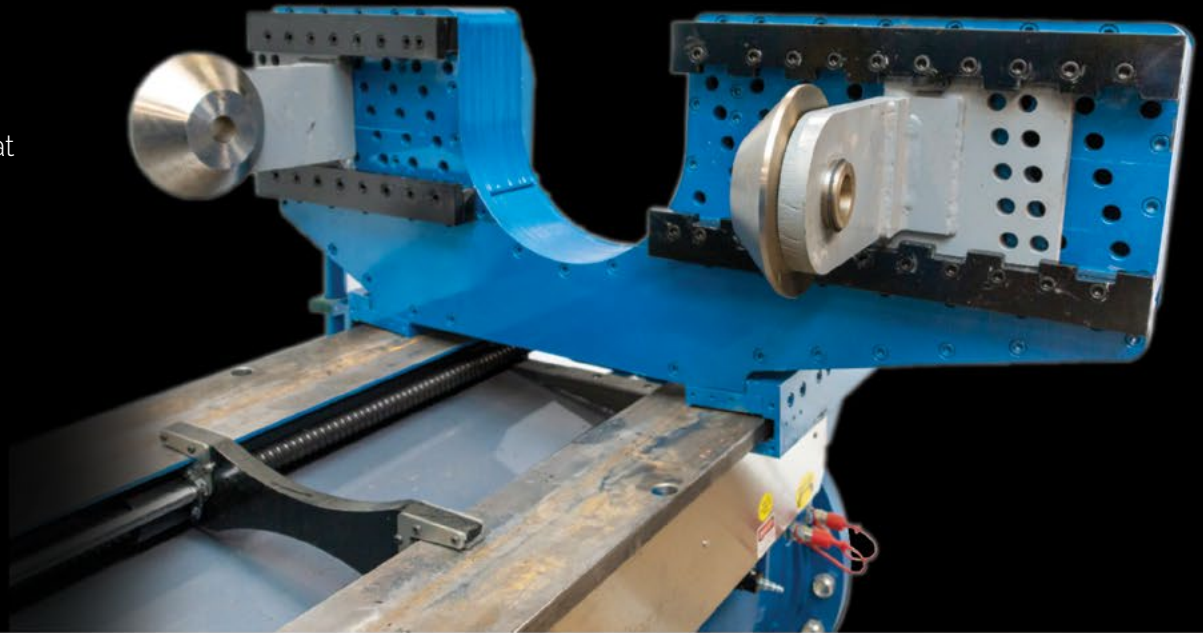


OPTIONAL ACCESSORIES

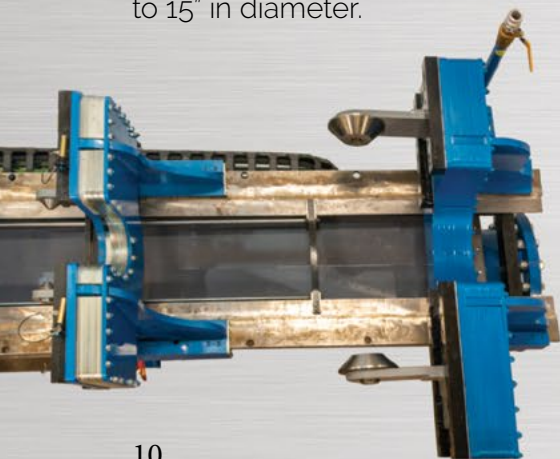
We have received some requests for accessories that accommodate larger cylinders. The following two adaptations enable the Cylinder Cyclone to service larger cylinders.

Oversized Tailstock

The Oversized Tailstock is an option for shops that need to service larger cylinders.



In this picture you can see the difference in size between the normal tailstock and the Oversized Tailstock. The Oversized Tailstock can accommodate cylinders up to 15" in diameter.



The Extenda Clone

The Extenda Clone is a simple add on that enables shops to serve longer cylinders. It can be purchased in the 12' extension (pictured) or in the 24' extension. The picture on page 3 is with the 12' extension and enables shops to serve cylinders 18' long and the 24' extension serves cylinders up to 30' long!



TOOLING PACKAGES

In order to simplify the purchasing process, we have created "packages" with sets of tooling designed to meet specific shops. Find the package that meets your shop and you will find purchasing simplified.

A - Basic Startup Package
B - Basic Plus Package
C - Elite Package
D - Platinum Package

R - Replacement Parts

For the latest pricing on all parts and packages, or to print out a Purchase Order, see www.cylindercyclone.com/packages

| ITEM NUMBER | DESCRIPTION |
|---------------|---|
| CC-2050RPB | Model 2050 RPB - Stand-alone |
| CC-2060RPB | Model 2060 RPB - Upgrade Stand-alone |
| CC-2050RPB-B | Model 2050 RPB - Standard Model with Basic Tooling |
| CC-2060RPB-B | Model 2060 RPB - Upgrade Model with Basic Tooling |
| CC-2050RPB-BP | Model 2050 RPB - Standard Model with Basic Plus Tooling |
| CC-2060RPB-BP | Model 2060 RPB - Upgrade Model with Basic Plus Tooling |
| CC-2050RPB-E | Model 2050 RPB - Standard Model with Elite Tooling |
| CC-2060RPB-E | Model 2060 RPB - Upgrade Model with Elite Tooling |
| CC-2050RPB-P | Model 2050 RPB - Standard Model with Platinum Tooling |
| CC-2060RPB-P | Model 2060 RPB - Upgrade Model with Platinum Tooling |

CYLINDER CYCLONE MACHINE &...

BASIC TOOLING

Designed for the small shop on a limited budget which services small and medium sized cylinders.

| ITEM NUMBER | DESCRIPTION |
|--------------|--|
| CC-2050RPB-B | Model 2050 RPB: Standard Model up to 50,000 ft lb. pressure w/ Basic Tooling |
| CC-2060RPB-B | Model 2060 RPB: Upgrade Model up to 60,000 ft lb. pressure w/ Basic Tooling |

MASTER DRIVE SYSTEM

| | |
|----------------------|------------------------|
| CC-T-3"-ADP-1" DRIVE | 1" Square Socket Drive |
| CC-T-3-SKT-DR-1 | 3" Hex Master Drive |

PIPE VISE JAWS

| | |
|------------------|-----------------------|
| CC-T-PV-KWIK-NUT | Pipe Vise Kwik Nut |
| CC-T-M-PV-JAWS-2 | Medium Pipe Vise Jaws |

FACE SPANNER WRENCHES

| | |
|------------------|-------------------------------|
| CC-T-FSP-3/8-1/2 | Face Spanner 3/8" - 1/2" Pins |
|------------------|-------------------------------|

ADJUSTABLE WRENCH

| | |
|-----------------|--------------------------|
| CC-T-ADJ-WRENCH | Adjustable from 2" to 7" |
|-----------------|--------------------------|

PRESSURE TEST HOSES

| | |
|-----------------------|------------------------------|
| CC-PT-HOSE-ASSEMBLY-2 | Standard Pressure Test Hoses |
|-----------------------|------------------------------|

CONES AND CONE HOLDERS

| | |
|----------------------|-----------------------|
| CC-T-L-CONE HOLDER-4 | Large Cone Holder |
| CC-T-L-CONE-SET-C-4 | 5" Cones |
| CC-T-1x5x20-ACME-2 | For "B" and "C" Cones |
| CC-T-1-5-ACME NUT-4 | Acme Nuts |

CYLINDER CYCLONE MACHINE &... BASIC PLUS TOOLING

Suited for the shop that services cylinders 7" bore and under in an agriculture or medium industrial setting.

| ITEM NUMBER | DESCRIPTION |
|---------------|---|
| CC-2050RPB-BP | Model 2050 RPB: Standard Model up to 50,000 ft lb. pressure w/ Basic Plus Tooling |
| CC-2060RPB-BP | Model 2060 RPB: Upgrade Model up to 60,000 ft lb. pressure w/ Basic Plus Tooling |

MASTER DRIVE SYSTEM

| | |
|----------------------|------------------------|
| CC-T-3"-ADP-1" DRIVE | 1" Square Socket Drive |
| CC-T-3-SKT-DR-1 | 3" Hex Master Drive |

PIPE VISE JAWS

| | |
|------------------|-----------------------|
| CC-T-PV-KWIK-NUT | Pipe Vise Kwik Nut |
| CC-T-M-PV-JAWS-2 | Medium Pipe Vise Jaws |

FACE SPANNER WRENCHES

| | |
|------------------|-------------------------------|
| CC-T-FSP-3/8-1/2 | Face Spanner 3/8" - 1/2" Pins |
|------------------|-------------------------------|

JAW SPANNER OPTIONS

| | |
|----------------------|--|
| CC-T-S-SPAN-1 | Small Base Tool Without Jaws |
| CC-T-SP-S-HOOK-2 | Set of External Hook Spanners |
| CC-T-SP-S-PIN-.312-2 | Set of External Pin Spanners With 5/16" Pins |

ADJUSTABLE WRENCH

| | |
|-----------------|--------------------------|
| CC-T-ADJ-WRENCH | Adjustable from 2" to 7" |
|-----------------|--------------------------|

PRESSURE TEST HOSES

| | |
|-----------------------|------------------------------|
| CC-PT-HOSE-ASSEMBLY-2 | Standard Pressure Test Hoses |
|-----------------------|------------------------------|

CONES AND CONE HOLDERS

| | |
|----------------------|-----------------------|
| CC-T-L-CONE HOLDER-4 | Large Cone Holder |
| CC-T-L-CONE-SET-C-4 | 5" Cones |
| CC-T-1x5x20-ACME-2 | For "B" and "C" Cones |

| | |
|---------------------|-----------|
| CC-T-1x5-ACME NUT-4 | Acme Nuts |
|---------------------|-----------|

MEDIUM SOCKET SIZES

| | |
|-----------------|---|
| CC-T-3"-SKT SET | 2 1/16 - 2 13/16 - every 1/16 increment |
|-----------------|---|

ELITE TOOLING



Geared to shops with a high volume of agriculture and medium to large industrial cylinders servicing up to 15" bore. Suggestion: To service cylinders over 15" order the oversized tailstock.

| ITEM NUMBER | DESCRIPTION |
|--------------|---|
| CC-2050RPB-E | Model 2050 RPB - Standard Model up to 50,000 ft lb. pressure with Elite Tooling |
| CC-2060RPB-E | Model 2060 RPB - Upgrade Model up to 60,000 ft lb. pressure with Elite Tooling |

| ITEM NUMBER | DESCRIPTION |
|-------------|-------------|
|-------------|-------------|

MASTER DRIVE SYSTEM

| | |
|----------------------|--------------------------------|
| CC-T-3"-ADP-1" DRIVE | 1" Square Socket Drive |
| CC-T-3-SKT-DR-1 | 3" Hex Master Drive |
| CC-T-4-SKT-DR-1 | 4" Hex Socket Drive Plate Assy |
| CC-T-5-SKT-DR-1 | 5" Hex Socket Drive Plate Assy |

PIPE VISE JAWS

| | |
|--------------------|---|
| CC-T-PV-KWIK-NUT | Pipe Vise Kwik Nut |
| CC-T-M-PV-JAWS-2 | Medium Pipe Vise Jaws |
| CC-T-S-PV-JAWS-2 | Small Pipe Vise Jaws |
| CC-T-S-SER: JAWS-4 | Replaceable Hardened Tool Steel Jaws (set of 4) |
| CC-T-L-PV-JAWS-2 | Large Pipe Vise Jaws |

SPANNER WRENCHES & JAW OPTIONS for Spanner Wrenches

| | |
|---------------------|-------------------------------|
| CC-T-S-SPAN-1 | Small Base Tool Without Jaws |
| CC-T-L-SPAN-2 | Large Base Tool Without Jaws |
| CC-T-S-FSP-1/4-5/16 | Face spanner 1/4"-5/16" Pins |
| CC-T-FSP-3/8-1/2 | Face Spanner 3/8" - 1/2" Pins |
| CC-T-FSP-5/8-3/4 | 5/8"-3/4" Face Spanner Set |

| ITEM NUMBER | DESCRIPTION |
|-------------|-------------|
|-------------|-------------|

CC-T-SP-SET Complete Set of all Spanner Jaws

REPLACEMENT PINS FOR SPANNER JAWS

| | |
|--------------------|--------|
| CC-T-SP-DOWEL .250 | Qty: 4 |
| CC-T-SP-DOWEL .312 | Qty: 4 |
| CC-T-SP-DOWEL .375 | Qty: 6 |
| CC-T-SP-DOWEL .500 | Qty: 2 |

ADJUSTABLE WRENCH

CC-T-ADJ-WRENCH Adjustable from 2" to 7"

PRESSURE TEST HOSES

CC-PT-HOSE-ASSEMBLY-2 Standard Pressure Test Hoses

CONES AND CONE HOLDERS

| | |
|-------------------------|--------------------------------|
| CC-T-L-CONE HOLDER-4 | Large Cone Holder |
| CC-T-L-CONE-SET-C-4 | 5" Cones |
| CC-T-1x5x20-ACME-2 | For "B" and "C" Cones |
| CC-T-1x5-ACME-4 | Acme Nuts |
| CC-T-XL-CONE HOLDER - 4 | Extra Large Cone Holder |
| CC-T-XL-CONE-SET-D-4 | Includes 4 1/4" to 8" diameter |
| CC-T-S-CONE HOLDER -4 | Small Cone Holder |

| ITEM NUMBER | DESCRIPTION |
|-------------|-------------|
|-------------|-------------|

CC-T-S-4 CONE SET A 1/2" to 2 1/2" dia. Cones

CC-T-.5x10x13-ACME-2 For "A" cones only

CC-T-.5x10-ACME NUT-4 Acme Nuts

CC-T-1.5x4x22-ACME-2 For "D" cones only

CC-T-1.5x4-ACME NUT-4 For "D" cones only

SMALL SOCKET SIZES

CC-T-SKT-1-9021 Entire Small Socket Set

MEDIUM SOCKET SIZES

CC-T-3"-SKT SET Entire Medium Socket Set

LARGE SOCKET SIZES

CC-T-XL-SKT-4 3/4 4 3/4" Socket

CC-T-XL-SKT-5 5" Socket

SOCKET ADAPTERS

CC-T ADP-4008AB Socket Adapter



CYLINDER CYCLONE MACHINE &... PLATINUM TOOLING

Geared to shops with a high volume of agriculture and large industrial cylinders servicing up to 15" bore. Suggestion: To service cylinders over 15" order the oversized tailstock.

| ITEM NUMBER | DESCRIPTION |
|--------------|--|
| CC-2050RPB-P | Model 2050 RPB - Standard Model up to 50,000 ft lb. pressure with Platinum Tooling |
| CC-2060RPB-P | Model 2060 RPB - Upgrade Model up to 60,000 ft lb. pressure with Platinum Tooling |

| ITEM NUMBER | DESCRIPTION |
|---|---|
| TOOL CADDY CART | |
| Tool box and fittings lazy Susan; room for over 300 fittings | |
| MASTER DRIVE SYSTEM | |
| CC-T-3"-ADP-1" DRIVE | 1" Square Socket Drive |
| CC-T-3-SKT-DR-1 | 3" Hex Master Drive |
| CC-T-4-SKT-DR-1 | 4" Hex Socket Drive Plate Assy |
| CC-T-5-SKT-DR-1 | 5" Hex Socket Drive Plate Assy |
| PIPE VISE JAWS | |
| CC-T-PV-KWIK-NUT | Pipe Vise Kwik Nut |
| CC-T-M-PV-JAWS-2 | Medium Pipe Vise Jaws |
| CC-T-S-PV-JAWS-2 | Small Pipe Vise Jaws |
| CC-T-S-SER: JAWS-4 | Replaceable Hardened Tool Steel Jaws for med. & small series (set of 4) |
| CC-T-L-PV-JAWS-2 | Large Pipe Vise Jaws |
| CC-T-L-SER: JAWS-4 | Replaceable hardened tool steel jaws, large series (set of 4) |
| FACE SPANNER WRENCHES & JAW OPTIONS for Spanner Wrenches | |
| CC-T-S-SPAN-1 | Small Base Tool Without Jaws |
| CC-T-L-SPAN-2 | Large Base Tool Without Jaws |
| CC-T-S-FSP -1/4-5/16 | Face spanner 1/4"-5/16" Pins |
| CC-T-FSP-3/8-1/2 | Face Spanner 3/8" - 1/2" Pins |
| CC-T-FSP-5/8-3/4 | 5/8" - 3/4 Face Spanner |
| CC-T-SP-SET | Complete Set of all Spanner Jaws |

| ITEM NUMBER | DESCRIPTION |
|---|--------------------------------|
| REPLACEMENT PINS for Face spanner | |
| CC-T-SP-DOWEL .250 | Qty: 4 |
| CC-T-SP-DOWEL .312 | Qty: 4 |
| CC-T-SP-DOWEL .375 | Qty: 6 |
| CC-T-SP-DOWEL .500 | Qty: 2 |
| REPLACEMENT PIN HOLDERS for face spanner | |
| CC-T-SP-DOWEL 1/4"PAD-2 | Set of 2 |
| CC-T-SP-DOWEL 5/16"PAD-2 | Set of 2 |
| CC-T-SP-DOWEL 3/8"PAD-2 | Set of 2 |
| CC-T-SP-DOWEL 1/2"PAD-2 | Set of 2 |
| ADJUSTABLE WRENCH | |
| CC-T-ADJ-WRENCH | Adjustable from 2" to 7" |
| PRESSURE TEST HOSES | |
| CC-PT-HOSE-ASSEMBLY-2 | Standard Pressure Test Hoses |
| CONES AND CONE HOLDERS | |
| CC-T-S-CONE HOLDER -4 | Small Cone Holder |
| CC-T-L-CONE HOLDER-4 | Large Cone Holder |
| CC-T-XL-CONE HOLDER - 4 | Extra Large Cone Holder |
| CC-T-S CONE SET A-4 | 1/2" to 2 1/2" dia. Cones |
| CC-T-XL-CONE-SET-D-4 | Includes 4 1/4" to 8" diameter |
| CC-T-L-CONE-SET-C-4 | Includes 1" to 5" diameter |
| CONE DRAW BOLT ONLY | |
| CC-T-.5x10x13-ACME-2 | For "A" cones only |

| ITEM NUMBER | DESCRIPTION |
|--------------------------------|----------------------------------|
| CC-T-1x5x20-ACME-2 | For "B" & "C" cones only |
| CC-T-1.5x4-ACME-2 | For "D" cones only |
| REGULAR ACME NUTS | |
| CC-T-.5x10-ACME NUT-4 | Acme Nuts |
| CC-T-1x5-ACME NUT-4 | Acme Nuts |
| CC-T-1.5x4-ACME NUT-4 | Acme Nuts |
| SMALL SOCKET SIZES | |
| CC-T-SKT-1-9021 | Entire Small Socket Sets |
| MEDIUM SOCKET SIZES | |
| CC-T-MD-SKT SET | Entire Medium Socket Set |
| LARGE SOCKET SIZES | |
| CC-T-XL-SKT-SET | Entire Large Socket Set |
| SQUARE NUT DRIVE PLATES | |
| CC-T-105MM | Square nut drive plate |
| SOCKET ADAPTERS | |
| CC-T ADP-4008AB | Socket Adapter |
| HEX ALLEN WRENCHES | |
| CC-T-3/4-HEX-MM-8196MH | Complete Metric Set |
| CC-T-3/4-HEX-STD-8096H | Complete Standard Set |
| STANDARD QUICK COUPLERS | |
| CC-PTA-SET | Complete D Set of Quick Couplers |

COMPLETE TOOLING LIST

(Current tool prices available online)

The following pages contain all the different tooling options for the Cylinder Cyclone. You can order the specific extra tools that you know you will need. The letters below tell you which package each tool is included in.

- A - Basic Startup Package
- B - Basic Plus Package
- C - Elite Package
- D - Platinum Package
- R - Replacement Parts

TAIL STOCK & EXTENDACLONE

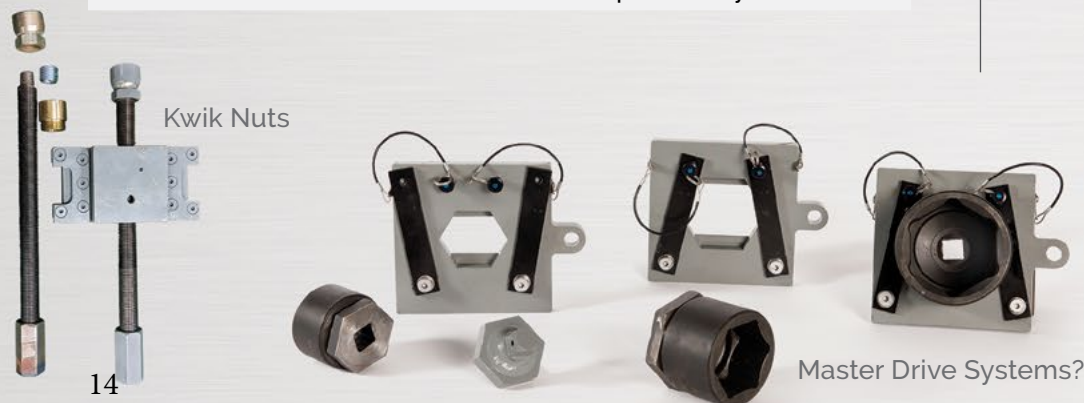
| ITEM NUMBER | DESCRIPTION |
|-------------|--|
| CC-OTS | Oversized Tailstock - accommodates a 15" diameter rod |
| CC-EC12 | ExtendaClone—extend the length of the machine by 12 feet to 37 feet long |
| CC-EC24 | ExtendaClone—extend the length of the machine by 24 feet to 49 feet long |

TOOL CADDY CART

| ITEM NUMBER | DESCRIPTION |
|----------------|--|
| CC- TOOL CADDY | Tool Cart with tool box and fitting lazy Susan for 300+ fittings |

MASTER DRIVE SYSTEM

| ITEM NUMBER | PKG | DESCRIPTION |
|----------------------|---------|--|
| CC-T-3"-ADP-1" DRIVE | A,B,C,D | 3" HEX with 1" sq socket drive adapter |
| CC-T-3-SKT-DR-1 | A,B,C,D | 3" HEX socket drive plate assembly |
| CC-T-4-SKT-DR-1 | C,D | 4" HEX socket drive plate assembly |
| CC-T-5-SKT-DR-1 | C,D | 5" HEX socket drive plate assembly |



Adjustable Wrench

ADJUSTABLE WRENCH

| ITEM NUMBER | PKG | DESCRIPTION |
|-----------------|---------|--------------------------|
| CC-T-ADJ-WRENCH | A,B,C,D | Adjustable from 2" to 7" |

PRESSURE TEST HOSES

| ITEM NUMBER | PKG | DESCRIPTION |
|-----------------------|---------|------------------------------|
| CC-PT-HOSE-ASSEMBLY-2 | A,B,C,D | Standard Pressure Test Hoses |



PIPE VISE JAWS

| ITEM NUMBER | PKG | DESCRIPTION |
|--------------------|---------|--|
| CC-T-PV-KWIK-NUT | A,B,C,D | Pipe Vise Kwik Nut |
| CC-T-S-PV-JAWS-2 | C,D | Small Pipe Vise Jaws |
| CC-T-M-PV-JAWS-2 | A,B,C,D | Med. pipe vise jaws |
| CC-T-S-SER: JAWS-4 | C,D,R | Replaceable hardened tool steel jaws (set of 4) |
| CC-T-L-PV-JAWS-2 | C,D | Large Pipe Vise Jaws |
| CC-T-L-SER.-JAWS-4 | D,R | Replaceable hardened tool steel jaws for the large series (set of 4) |

Replaceable Steel Jaws

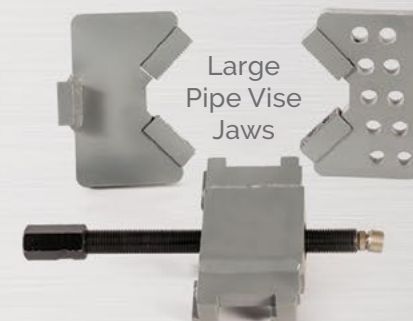


Pressure Test Hoses



Replacement Arms for Master Drives

Small Pipe Vise Jaws



SMALL SOCKET SIZES

| ITEM NUMBER | PKG | ITEM NUMBER | PKG | ITEM NUMBER | PKG |
|-----------------|-----|-------------|-----|---------------|-----|
| CC-T-SKT-1-9021 | C,D | SKT-1 3/16" | | SKT-1 1 1/16" | |
| SKT-3/4" | | SKT-1 1/4" | | SKT-1 3/4" | |
| SKT-13/16" | | SKT-1 5/16" | | SKT-1 13/16" | |
| SKT-7/8" | | SKT-1 3/8" | | SKT-1 7/8" | |
| SKT-15/16" | | SKT-1 7/16" | | SKT-1 15/16" | |
| SKT-1" | | SKT-1 1/2" | | SKT-2" | |
| SKT-1 1/16" | | SKT-1 9/16" | | | |
| SKT-1 1/8" | | SKT-1 5/8" | | | |



Need Name



SOCKETS FOR ACCURATORQUE

MEDIUM SOCKET SIZES (w/master drive system)

| ITEM NUMBER | PKG | ITEM NUMBER | PKG |
|----------------------|-----|----------------------|-----|
| CC-T-MD-SKT-SET | C,D | CC-T-4"-SKT-2 7/8" | |
| CC-T-3"-SKT-2 1/16" | B | CC-T-4"-SKT-2 15/16" | |
| CC-T-3"-SKT-2 1/8" | B | CC-T-4"-SKT-3" | |
| CC-T-3"-SKT-2 3/16" | B | CC-T-4"-SKT-3 1/8" | |
| CC-T-3"-SKT-2 1/4" | B | CC-T-4"-SKT-3 1/4" | |
| CC-T-3"-SKT-2 5/16" | B | CC-T-4"-SKT-3 3/8" | |
| CC-T-3"-SKT-2 7/16" | B | CC-T-4"-SKT-3 1/2" | |
| CC-T-3"-SKT-2 1/2" | B | CC-T-4"-SKT-3 5/8" | |
| CC-T-3"-SKT-2 9/16" | B | CC-T-4"-SKT-3 3/4" | |
| CC-T-3"-SKT-2 5/8" | B | CC-T-4"-SKT-3 7/8" | |
| CC-T-3"-SKT-2 11/16" | B | CC-T-4"-SKT-4" | |
| CC-T-3"-SKT-2 3/4" | B | CC-T-5"-SKT-4 1/8" | |
| CC-T-3"-SKT-2 13/16" | | CC-T-5"-SKT-4 1/4" | |

LARGE SOCKET SIZES

| ITEM NUMBER | PKG | ITEM NUMBER | PKG |
|--------------------|-----|--------------------|-----|
| CC-T-XL-SKT-SET | | CC-T-XL-SKT-5 3/4" | D |
| CC-T-XL-SKT-4 3/4" | | CC-T-XL-SKT-6" | D |
| CC-T-XL-SKT-5" | C,D | CC-T-XL-SKT-6 1/4" | D |
| CC-T-XL-SKT-5 1/4" | D | CC-T-XL-SKT-6 1/2" | D |
| CC-T-XL-SKT-5 1/2" | D | | |

Sockets
for Accuratorque





SQUARE NUT DRIVE PLATES

| ITEM NUMBER | PKG |
|-------------|-----|
| CC-T-105MM | D |

SOCKET ADAPTERS

| | |
|-----------------|-----|
| CC-T-ADP-4008AB | C,D |
|-----------------|-----|

Socket
Adapter

HEX ALLEN WRENCHES

| ITEM NUMBER |
|-------------------------------------|
| CC-T-3/4-HEX-MM-8196MH COMPLETE SET |
| CC-T-3/4-HEX-STD-8096H COMPLETE SET |
| BOTH SETS (PKG D) |
| CC-T-ADP-4008AB SOCKET ADAPTER |
| 3912M-HEX-12MM |
| 3914M-HEX-14MM |
| 3917M-HEX-17MM |
| 3919M-HEX-19MM |

| ITEM NUMBER |
|-----------------|
| 3922M-HEX-22MM |
| 3924M-HEX-24MM |
| 3196F-HEX-1/2" |
| 3918F-HEX-5/16" |
| 3920-HEX-5/8" |
| 3924-F-HEX-3/4" |
| 3924-F-HEX-7/8" |
| 3932F-HEX-1" |



Socket
Set

SPANNER WRENCHES

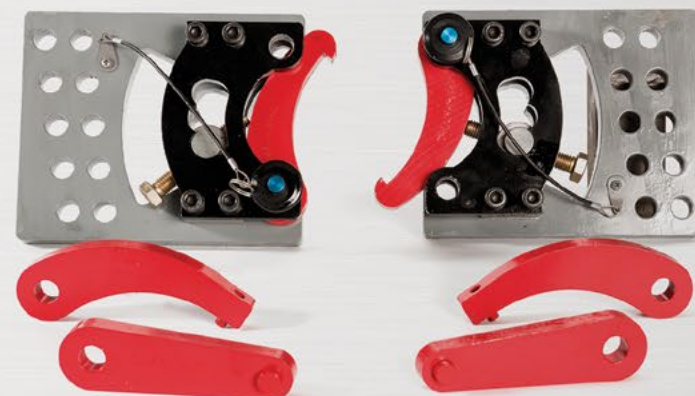
| ITEM NUMBER | PKG | DESCRIPTION |
|---------------------|---------|--------------------------------|
| CC-T-S-SPAN-1 | B,C,D | Small base tool without jaws |
| CC-T-L-SPAN-2 | C,D | Large base tool without jaws |
| CC-T-S-FSP-1/4-5/16 | C,D | Face spanner 1/4" - 5/16" Pins |
| CC-T-S-FSP-3/8-1/2 | A,B,C,D | Face spanner 3/8" - 1/2" Pins |
| CC-T-FSP-5/8 - 3/4 | C,D | 5/8" - 3/4 Face spanner set |
| CC-T-FSP-1-1 1/4 | | 1-1 1/4" Face spanner set |



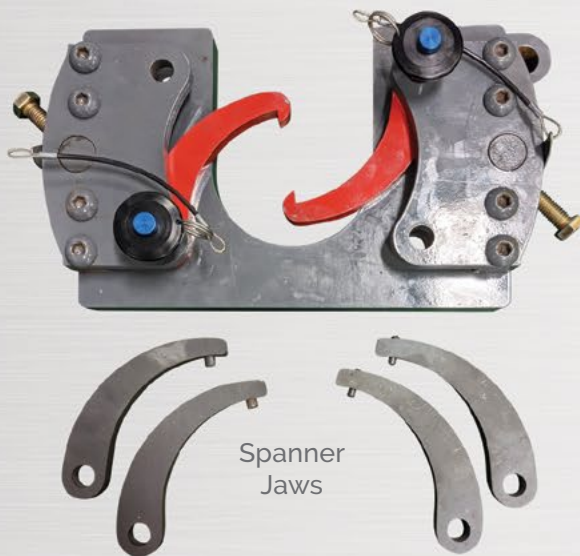
Face Spanner Set



Face Spanner Sets



Spanner Jaws w/ Spanner Arms



Spanner Jaws



Special Spanner Jaws for
Cylinders over 18" diameter

JAW OPTIONS FOR SPANNER WRENCHES

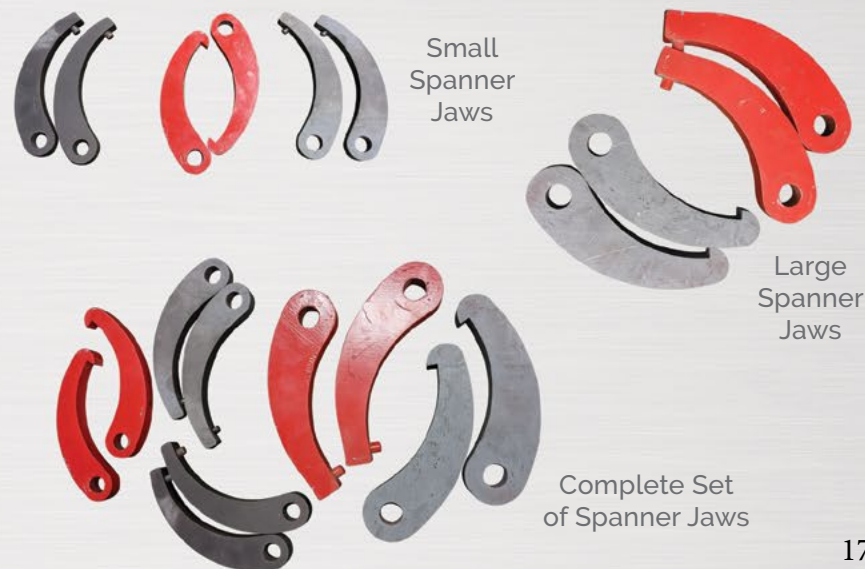
| ITEM NUMBER | PKG | DESCRIPTION |
|----------------------|-----|--|
| CC-T-SP-SET | C,D | Complete set of all spanner jaws, small & large |
| CC-T-SP-S-HOOK-2 | B | Set of external small hook spanners |
| CC-T-SP-S-PIN-.312-2 | B | Set of external small pin spanners with 5/16" pins |
| CC-T-SP-S-PIN-.250-2 | B | Set of external small pin spanners with 1/4" pins |
| CC-T-SP-S-SET | | Complete set of small spanner jaws |
| CC-T-SP-L-HOOK-2 | | Set of external large hook spanners |
| CC-T-SP-L-PIN-.375-2 | | Set of external large pin spanners with 3/8" pins |
| CC-T-SP-L-SET | | Complete set of large spanner jaws |

REPLACEMENT SPANNER PIN HOLDERS

| ITEM NUMBER | PKG |
|------------------------|------|
| CC-T-S-FSP-1/4"PAD-2 | D, R |
| CC-T-S-FSP-5/16"PAD-2 | D, R |
| CC-T-S-FSP-3/8"PAD-2 | D, R |
| CC-T-S-FSP-1/2"PAD-2 | D, R |
| CC-T-S-FSP-5/8"PAD-2 | R |
| CC-T-S-FSP-3/4"PAD-2 | R |
| CC-T-S-FSP-1"PAD-2 | R |
| CC-T-S-FSP-1 1/4"PAD-2 | R |

REPLACEMENT PINS FOR SPANNER JAWS

| ITEM NUMBER | PKG |
|--------------------------|-------|
| CC-T-SP- DOWEL .250 EACH | C,D,R |
| CC-T-SP- DOWEL .312 EACH | C,D,R |
| CC-T-SP- DOWEL .375 EACH | C,D,R |
| CC-T-SP- DOWEL .500 EACH | C,D,R |
| CC-T-SP- DOWEL .625 EACH | R |
| CC-T-SP- DOWEL .750 EACH | R |
| CC-T-SP- DOWEL 1.00 EACH | R |
| CC-T-SP- DOWEL 1.25 EACH | R |



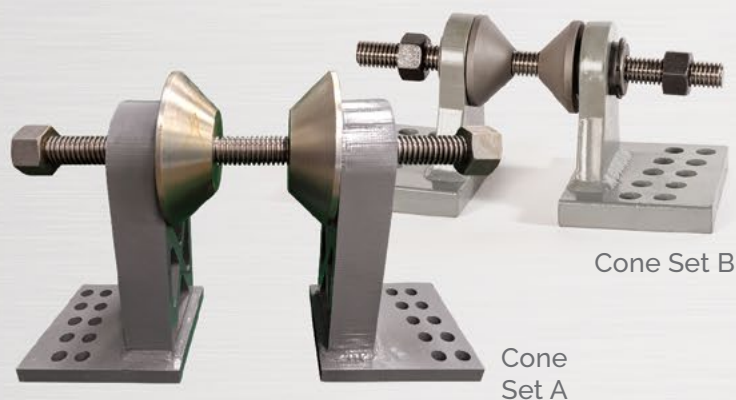
Small
Spanner
Jaws

Large
Spanner
Jaws

Complete Set
of Spanner Jaws

CONE AND CONE HOLDER ASSEMBLIES

| ITEM NUMBER | PKG | DESCRIPTION |
|-------------------------|-------------|---------------------------------|
| CC-T-XL CONE HOLDER - 4 | C,D | Extra Large Cone Holder |
| CC-T-XL-CONE-SET-D-4 | C,D | Includes 4 ¼" to 8" diameter |
| CC-T-L CONE HOLDER - 4 | A,B, C,D | Large Cone Holder |
| CC-T-L CONE-SET-C-4 | A,B, C,D | Includes 1" through 5" diameter |
| CC-T-S CONE HOLDER - 4 | C,D | Small Cone Holder |
| CC-T-S-4 CONE SET A | C,D | ½" to 2 ½" dia. cones |



Cone Set B

Cone Set A

CONE DRAW BOLT ONLY

| ITEM NUMBER | PKG | DESCRIPTION |
|----------------------|---------|-----------------------|
| CC-T-.5X10X13-ACME-2 | C,D | For "A" cones only |
| CC-T-1X5X16-ACME-2 | C,D | For "B" and "C" cones |
| CC-T-1X5X20-ACME-2 | A,B,C,D | For "B" and "C" cones |
| CC-T-1.5X4X22-ACME-2 | D | For "D" cones only |

REGULAR ACME NUTS

| ITEM NUMBER | DESCRIPTION |
|-----------------------|------------------------|
| CC-T-.5X10-ACME NUT-4 | C,D |
| CC-T-1X5-ACME NUT-4 | A,B, C,D |
| CC-T-1.5X4-ACME NUT-4 | D |
| CC-T-7/8 WRENCH | 7/8" Slugging wrench |
| CC-T-1 5/8 WRENCH | 1 5/8" Slugging wrench |
| CC-T-2 3/8 WRENCH | 2 3/8" Slugging wrench |



Wrenches

QUICK COUPLERS

Complete Quick Coupler Set
(includes 2 of each)

CC-PTA-SET [D](#)

Male National Pipe
thread quick coupler pressure
test adapter fittings

CC-PTA-M-P-#4 [D](#)

CC-PTA-M-P-#6 [D](#)

CC-PTA-M-P-#8 [D](#)

CC-PTA-M-P-#12 [D](#)

CC-PTA-M-P-#16 [D](#)

CC-PTA-M-P-#20 [D](#)

CC-PTA-M-P-#24 [D](#)

Female National Pipe
thread quick coupler pressure
test adapter fittings

CC-PTA-F-P-#4 [D](#)

CC-PTA-F-P-#6 [D](#)

CC-PTA-F-P-#8 [D](#)

CC-PTA-F-P-#12 [D](#)

CC-PTA-F-P-#16 [D](#)

CC-PTA-F-P-#20 [D](#)

CC-PTA-F-P-#24 [D](#)

Code #61 4 bolt flange
pressure test adapter

CC-PTA-CODE 61-#8 [D](#)

CC-PTA-CODE 61-#12 [D](#)

CC-PTA-CODE 61-#16 [D](#)

CC-PTA-CODE 61-#20 [D](#)

CC-PTA-CODE 61-#24 [D](#)

CC-PTA-CODE 61-#32 [D](#)

Code #62 4 bolt flange
pressure test adapter

CC-PTA-CODE 62-#12 [D](#)

CC-PTA-CODE 62-#16 [D](#)

CC-PTA-CODE 62-#20 [D](#)

CC-PTA-CODE 62-#24 [D](#)

CC-PTA-CODE 62-#32

Male British Standard
parallel pipe "BSPP" adapter

CC-PTA-M-BSPP-#4 [D](#)

CC-PTA-M-BSPP-#6 [D](#)

CC-PTA-M-BSPP-#8 [D](#)

CC-PTA-M-BSPP-#10

CC-PTA-M-BSPP-#12 [D](#)

CC-PTA-M-BSPP-#16 [D](#)

CC-PTA-M-BSPP-#20

Female British Standard
parallel pipe "BSPP" adapter

CC-PTA-F-BSPP-#4 [D](#)

CC-PTA-F-BSPP-#6 [D](#)

CC-PTA-F-BSPP-#8 [D](#)

CC-PTA-F-BSPP-#10

CC-PTA-F-BSPP-#12 [D](#)

CC-PTA-F-BSPP-#16 [D](#)

CC-PTA-F-BSPP-#20

Male "O" ring boss
quick coupler pressure test
adapter fittings

CC-PTA-M-ORB-#4 [D](#)

CC-PTA-M-ORB-#5

CC-PTA-M-ORB-#6 [D](#)

CC-PTA-M-ORB-#8 [D](#)

CC-PTA-M-ORB-#10 [D](#)

CC-PTA-M-ORB-#12 [D](#)

CC-PTA-M-ORB-#16 [D](#)

CC-PTA-M-ORB-#20 [D](#)

CC-PTA-M-ORB-#24 [D](#)

CC-PTA-M-ORB-#32

QUICK COUPLERS CONTINUED



Male "O" ring flat face seal pressure test adapter fittings

| | |
|------------------|---|
| CC-PTA-M-ORF-#4 | D |
| CC-PTA-M-ORF-#6 | D |
| CC-PTA-M-ORF-#8 | D |
| CC-PTA-M-ORF-#10 | D |
| CC-PTA-M-ORF-#12 | D |
| CC-PTA-M-ORF-#16 | D |
| CC-PTA-M-ORF-#20 | |
| CC-PTA-M-ORF-#24 | |

Female "O" ring face seal pressure test adapter fittings

| | |
|------------------|---|
| CC-PTA-F-ORF-#4 | D |
| CC-PTA-F-ORF-#6 | D |
| CC-PTA-F-ORF-#8 | D |
| CC-PTA-F-ORF-#10 | D |
| CC-PTA-F-ORF-#12 | D |
| CC-PTA-F-ORF-#16 | D |
| CC-PTA-F-ORF-#20 | |

Male JIC Quick coupler pressure test adapter fitting

| | |
|------------------|---|
| CC-PTA-M-JIC-#4 | D |
| CC-PTA-M-JIC-#5 | |
| CC-PTA-M-JIC-#6 | D |
| CC-PTA-M-JIC-#8 | D |
| CC-PTA-M-JIC-#10 | D |
| CC-PTA-M-JIC-#12 | D |
| CC-PTA-M-JIC-#16 | D |
| CC-PTA-M-JIC-#20 | D |
| CC-PTA-M-JIC-#24 | |

Female JIC Quick coupler pressure test adapter fitting

| | |
|------------------|---|
| CC-PTA-F-JIC-#4 | D |
| CC-PTA-F-JIC-#5 | |
| CC-PTA-F-JIC-#6 | D |
| CC-PTA-F-JIC-#8 | D |
| CC-PTA-F-JIC-#10 | D |
| CC-PTA-F-JIC-#12 | D |
| CC-PTA-F-JIC-#16 | D |
| CC-PTA-F-JIC-#20 | D |
| CC-PTA-F-JIC-#24 | |

Male Metric pressure test adapter fittings (Light, DIN)

| | |
|---------------------|---|
| CC-PTA-M-L-M10-1.25 | |
| CC-PTA-M-L-M12X1.5 | D |
| CC-PTA-M-L-M14 | D |
| CC-PTA-M-L-M16 | D |
| CC-PTA-M-L-M18 | D |
| CC-PTA-M-L-M22 | D |
| CC-PTA-M-L-M24 | D |
| CC-PTA-M-L-M26 | D |
| CC-PTA-M-L-M30 | D |
| CC-PTA-M-L-M36 | D |

Female Metric pressure test adapter fittings light (DIN)

| | |
|--------------------|---|
| CC-PTA-F-L-M12.1.5 | D |
| CC-PTA-F-L-M14 | D |
| CC-PTA-F-L-M16 | D |
| CC-PTA-F-L-M18 | D |
| CC-PTA-F-L-M22 | D |
| CC-PTA-F-L-M26 | D |
| CC-PTA-F-L-M30 | D |
| CC-PTA-F-L-M36 | D |
| CC-PTA-F-L-M45 | |
| CC-PTA-F-L-M52 | |

Male Metric pressure test adapter fittings (Heavy, DIN)

| | |
|----------------|--|
| CC-PTA-M-H-M14 | |
| CC-PTA-M-H-M16 | |
| CC-PTA-M-H-M18 | |
| CC-PTA-M-H-M20 | |
| CC-PTA-M-H-M22 | |
| CC-PTA-M-H-M30 | |
| CC-PTA-M-H-M36 | |
| CC-PTA-M-H-M42 | |
| CC-PTA-M-H-M52 | |

Female Metric pressure test adapter fittings (Heavy, DIN)

| | |
|----------------|---|
| CC-PTA-F-H-M14 | |
| CC-PTA-F-H-M16 | |
| CC-PTA-F-H-M18 | |
| CC-PTA-F-H-M20 | D |
| CC-PTA-F-H-M22 | |
| CC-PTA-F-H-M24 | |
| CC-PTA-F-H-M30 | |
| CC-PTA-F-H-M36 | |
| CC-PTA-F-H-M42 | |
| CC-PTA-F-H-M52 | |

Female Komatsu pressure test adapter fittings

| | |
|-----------------|--|
| CC-PTA-F-KOM-14 | |
| CC-PTA-F-KOM-18 | |
| CC-PTA-F-KOM-22 | |
| CC-PTA-F-KOM-24 | |
| CC-PTA-F-KOM-30 | |
| CC-PTA-F-KOM-33 | |

Male Komatsu pressure test adapter fittings


| | |
|------------------------|--|
| CC-PTA-M-KOM-14 | |
| CC-PTA-M-KOM-16 | |
| CC-PTA-M-KOM-18 | |
| CC-PTA-M-KOM-22 | |
| CC-PTA-M-KOM-24 | |
| CC-PTA-M-KOM-30 | |
| CC-PTA-M-KOM-33 | |
| CC-PTA-M-KOM-FLANGE-10 | |

Male Kobelco pressure test adapter fittings

| | |
|-----------------|--|
| CC-PTA-M-KOB-30 | |
| CC-PTA-M-KOB-36 | |
| CC-PTA-M-KOB-45 | |




SAFETY FEATURES




Completely remote
controlled— no manual
controls




Chain shields on all chains



Crane overload safety
(on all posts) provides
instant shutoff on overloads



Tool retaining safety latch
on all headstock plates.



Electric and air lockout—
electricity and air
automatically turn off when
machine is being serviced.



COST ANALYSIS/ROI

“How does the Cylinder Cyclone pay for itself?”

The Cylinder Cyclone has an hour meter that is activated each time the motor is started.

We recommend clearing the meter before each job and charging 5 to 6 times your regular shop rate for the time registered on the meter when you have completed the project.

For example: If you have a shop rate of \$60 per hour. Multiply that times 5 = \$300. Your meter will likely say .35 hrs of run time to reseat and pressure test an average excavator cylinder.

This comes out to \$105 per cylinder. If you service two cylinders per day, it is conceivable to have an income of \$210 per day. With a 250 work-day-year, this produces \$52,500 per year.

This would pay off the machine and Basic start up tooling package in 1.62 years.

Of course this is not counting the hourly rate you are charging for your employee or the extra work you can run though your shop because of the time saved.

Designed and Manufactured in the USA.
www.cylindercyclone.com
info@cylindercyclone.com

Brochure 07-2020

