# FAIRWINDS MANUFACTURING TRENCHING CHAINS

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Contact Us: 724-662-5210

https://fairwindsmfg.com/trenching-chains/

## All about the 4501 Single Roller & 4502 Double Roller

### **K-Bracket Style**



FairWinds Manufacturing specializes in the production of 4-1/2" pitch trenching chains compatible with Vermeer, Trencor, or Tesmec trenching machines. Crafted from Alloy steel with heat-treated components, our chains are engineered to minimize journal wear and extend their lifespan. Fairwinds Manufacturing trenching chains have the following features that are not found in other 4-1/2 inch pitch trenching chains:

Distinguishing features of FairWinds Manufacturing trenching chains include:

- Each connecting link assembly functions as a master link, eliminating the need for unique master links. Our design features machined journal holes and ground journal pins held to precise tolerances for reliable press fits. Stainless steel retaining rings secure the connecting links, facilitating easy disassembly and assembly using hand tools.
- Roller link assemblies match the height of connecting links, eliminating the requirement for special wear strips to support top plate/bit holder assemblies. This streamlines the cost associated with top plate assemblies.
- Traditional bushings and rollers in roller links are replaced by a one-piece step bushing, enhancing chain performance.
- Outer connecting link side plates, or "K" brackets, feature machined top surfaces to ensure proper fitup with top plate/bit holder assemblies. The distance between top plate attachment holes in the K brackets is maintained within a close tolerance of + 0.025 inches to ensure precise fit-up with top plate assemblies.
- Bottom surfaces of roller link and connecting link side plates are machined to align within the same plane, minimizing initial wear as they contact wear strips in boom assemblies.
- Journal pins and holes are machined with precision tolerances and assembled with break-in lubricant to minimize initial wear and extend journal life over the chain's lifespan.
- Chain components are constructed from high-strength alloy steels, heat-treated to optimize wear resistance and strength. All side plates are 5/8 of an inch thick, and journal pins are 1-5/16 inches in diameter.

These features collectively result in a trenching chain that is easier and safer to maintain, offering extended lifespan and superior overall performance.





## All about the Rock Ripper



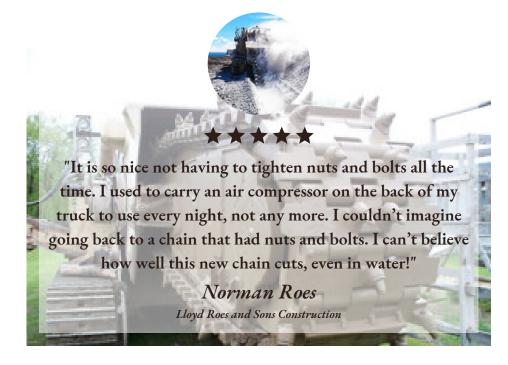
Instead of having the sprocket directly drive the chain, opt for a system where the sprocket drives the top plate. This is precisely what the Rock Ripper trenching chain accomplishes. By doing so, it creates a lower profile and a shorter lever arm to the pick point, providing sturdier support for the cut and greater impact to the rock. This innovation enables your machine to achieve cutting capabilities like never before.

The Rock Ripper trenching chain is comprised of multiple identical sections, each featuring one alloy link, one or two journal pins, and two retaining pins. Bit holding blocks are welded directly onto each link, eliminating the need for time-consuming replacement of nuts and bolts as required by competitor chains. The outcome is enhanced strength, increased durability, reduced maintenance, and a lower cost per length of trench formed.

#### Specifications:

- Simplified and safer maintenance procedures
- · Cost-saving benefits, helping to maintain low overheads
- Improved design with 29 pieces consolidated into just 4
- Produces a stronger and more durable product
- Provides superior cutting performance and rigidity compared to other models
- Competitively priced to ensure affordability

If you would like to learn more about the Rock Ripper please call Mike Latchaw at 724-662-5210 or email at mike.latchaw@fairwindsmfg.com





## TRENCOR AND VERMEER

4501 and 4502



Choose which style and whether you need high or low. This will take you to the page you need

#### 4501 SINGLE ROLLER

- 4.125 High
- 3.5 Low

#### 4502 DOUBLE ROLLER

- 4.125 High
- 3.5 Low

Information we will need when you call to place an order		
<i>MACHINE:</i>		
HIGH OR LOW ROLLER:		
HOW MANY TOP PLATES:		





## 4501 Single Roller - High

## **K-Bracket Style**

Trencor and Vermeer



#### 4.125 Inch High Roller and Connecting Assemblies

One section = one top plate and two pins

50000-05002	Sales Sample; one chain section
50000-05026	13 section chain, 26 pitches
50000-05068	34 section chain, 68 pitches
50000-05074	37 section chain, 74 pitches
50000-05080	40 section chain, 84 pitches
50000-05084	42 section chain, 84 pitches
50000-05092	46 section chain, 92 pitches
50000-05102	51 section chain, 102 pitches
50000-05110	55 section chain, 110 pitches





## 4501 Single Roller - High

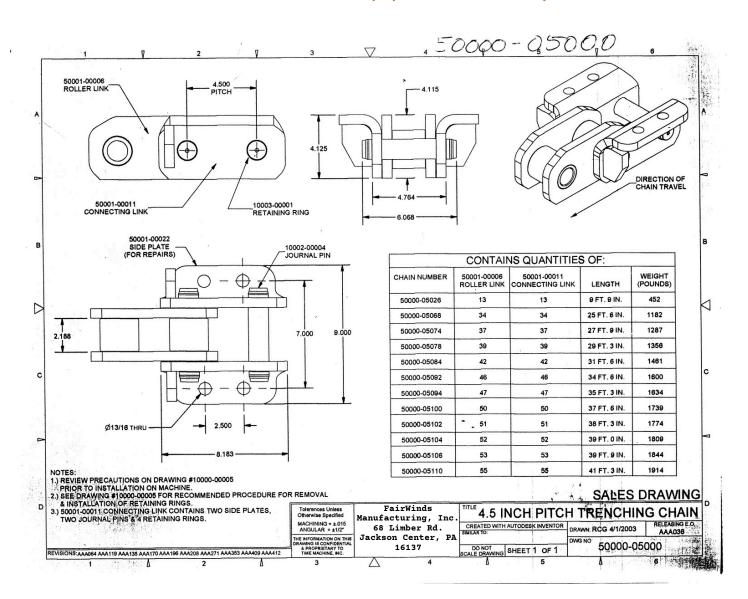
#### **K-Bracket Style**

Trencor and Vermeer



#### 4.125 Inch High Roller and Connecting Assemblies

One section = one top plate and two pins







## **4501 Single Roller - Low**

#### **K-Bracket Style**

Trencor and Vermeer



## 3.5 Inch High Roller Link Assembly,4.125 Inch High Connecting Link Assembly

#### One section = one top plate and two pins

50000-11002	Sales Sample; one chain section
50000-11068	34 section chain, 68 pitches
50000-11074	37section chain, 74 pitches
50000-11086	43 section chain, 86 pitches
50000-11092	46 section chain, 92 pitches





## **4501 Single Roller - Low**

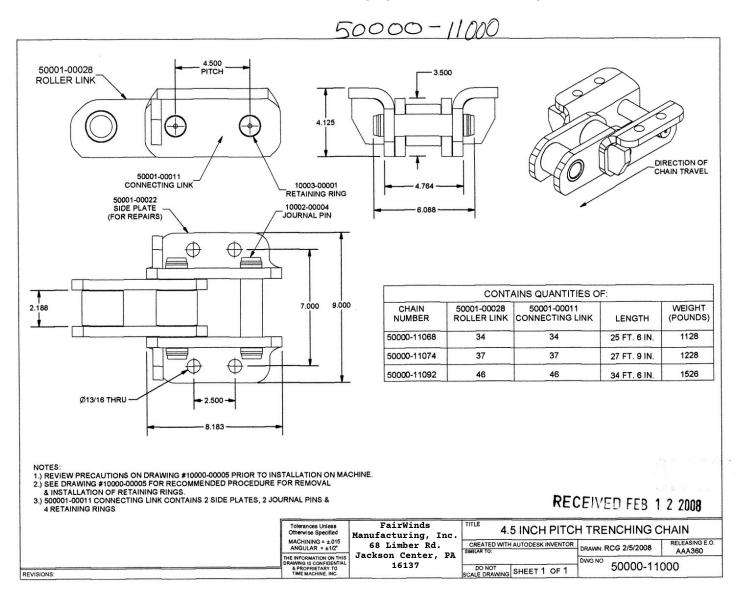
#### **K-Bracket Style**

Trencor and Vermeer Machines



#### 3.5 Inch High Roller Link Assembly, 4.125 Inch High Connecting Link Assembly

One section = one top plate and two pins







## 4502 Double Roller - High

#### **K-Bracket Style**

Trencor and Vermeer



#### 4.125 Inch High Roller and Connecting Link Assemblies

#### One section = one top plate and two pins

50000-06002	Sales Sample; one chain section	
50000-06080	40 section chain, 80 pitches	
50000-06086	43 section chain, 86 pitches	
50000-06098	49 section chain, 98 pitches	





## 4502 Double Roller - High

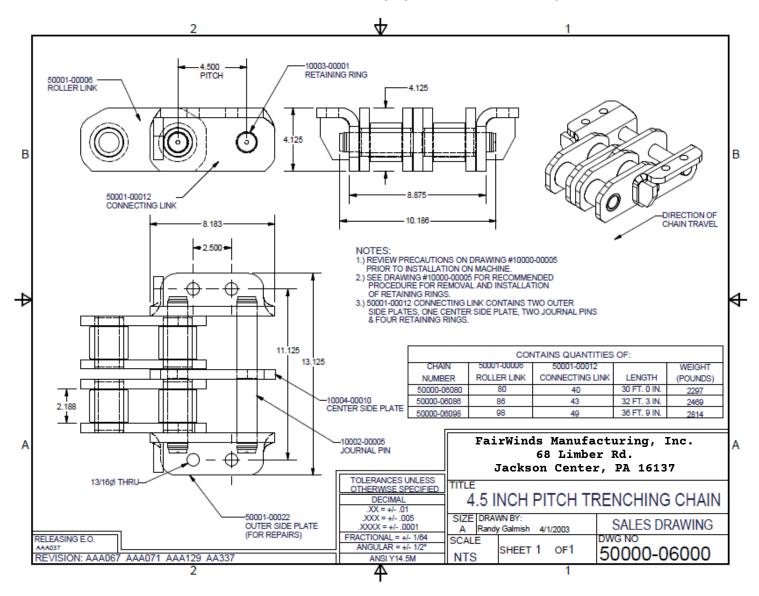
#### K-Bracket Style

Trencor and Vermeer



#### 4.125 Inch High Roller and Connecting Link Assemblies

One section = one top plate and two pins





#### **4502 Double Roller - Low**

#### K-Bracket Style

Trencor and Vermeer



#### 3.5 Inch High Roller Link Assembly, 4.125 Inch High Connecting Link Assembly

#### One section = one top plate and two pins

50000-13002	Sales Sample; one chain section
50000-13086	43 section chain, 86 pitches





#### **4502 Double Roller - Low**

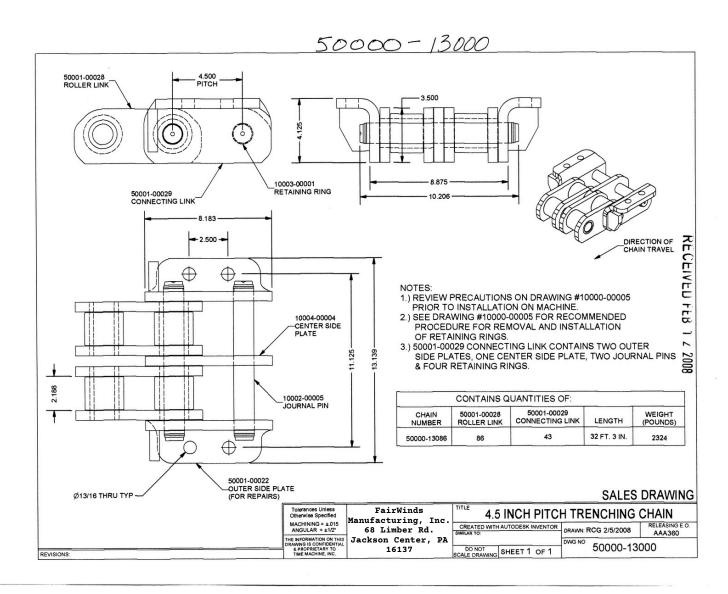
#### K-Bracket Style

Trencor and Vermeer



3.5 Inch High Roller Link Assembly, 4.125 Inch High Connecting Link Assembly

One section = one top plate and two pins







#### **TESMEC MACHINES**

#### 4501 and 4502



Choose which style and whether you need high or low. This will take you to the page you need

#### 4501 SINGLE ROLLER

- 4.125 High
- 3.5 Low

#### 4502 DOUBLE ROLLER

- 4.125 High
- 3.5 Low

Information we will need when you call to place an order		
<i>MACHINE:</i>		
HIGH OR LOW ROLLER:		
HOW MANY TOP PLATES:		





## 4501 Single Roller - High

#### **K-Bracket Style**

Tesmec



#### 4.125 Inch High Roller and Connecting Assemblies

#### One section = one top plate and two pins

50000-09002	Sales Sample; one chain section
50000-09062	31 section chain, 62 pitches
50000-09066	33 section chain, 66 pitches
50000-09068	34 section chain, 68 pitches
50000-09074	37 section chain, 74 pitches
50000-09076	38 section chain, 76 pitches
50000-09078	39 section chain, 78 pitches
50000-09082	41 section chain, 82 pitches
50000-09090	45 section chain, 90 pitches
50000-09092	46 section chain, 92 pitches
50000-09098	49 section chain, 98 pitches
50000-09102	51 section chain, 102 pitches
50000-09120	60 section chain, 120 pitches





## 4501 Single Roller - High

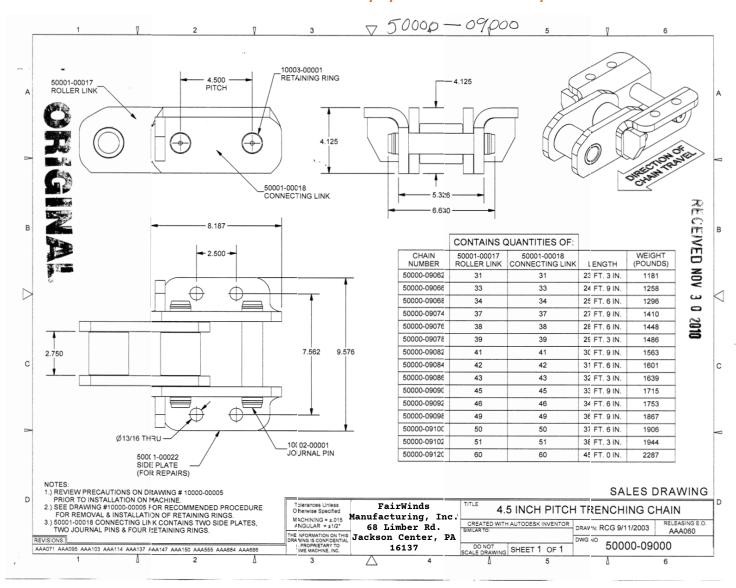
## K-Bracket Style

Tesmec



#### 4.125 Inch High Roller and Connecting Assemblies

#### One section = one top plate and two pins







## **4501 Single Roller - Low**

#### **K-Bracket Style**

Tesmec



#### 3.5 Inch High Roller Link Assembly, 4.125 Inch High Connecting Link Assembly

#### One section = one top plate and two pins

50000-12002	Sales Sample; one chain section	
50000-12076	38 section chain, 76 pitches	
50000-12090	45 section chain, 90pitches	
50000-12108	54 section chain, 108 pitches	





## **4501 Single Roller - Low**

## **K-Bracket Style**

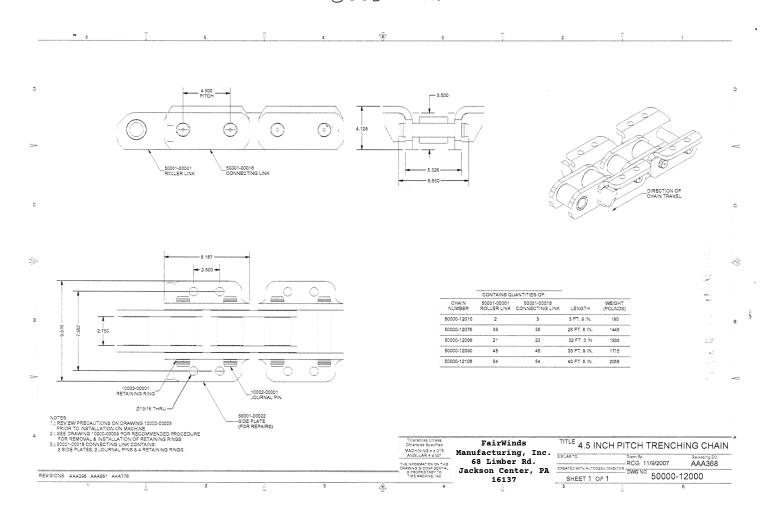
Tesmec



#### 3.5 Inch High Roller Link Assembly, 4.125 Inch High Connecting Link Assembly

One section = one top plate and two pins

50000 - 12000







## 4502 Double Roller - High

#### K-Bracket Style

Tesmec



#### 4.125 Inch High Roller and Connecting Link Assemblies

#### One section = one top plate and two pins

50000-10002	Sales Sample; one chain section
50000-10076	38 section chain, 76 pitches
50000-10080	40 section chain, 80 pitches
50000-10092	46 section chain, 92 pitches
50000-10094	47 section chain, 94 pitches





## 4502 Double Roller - High

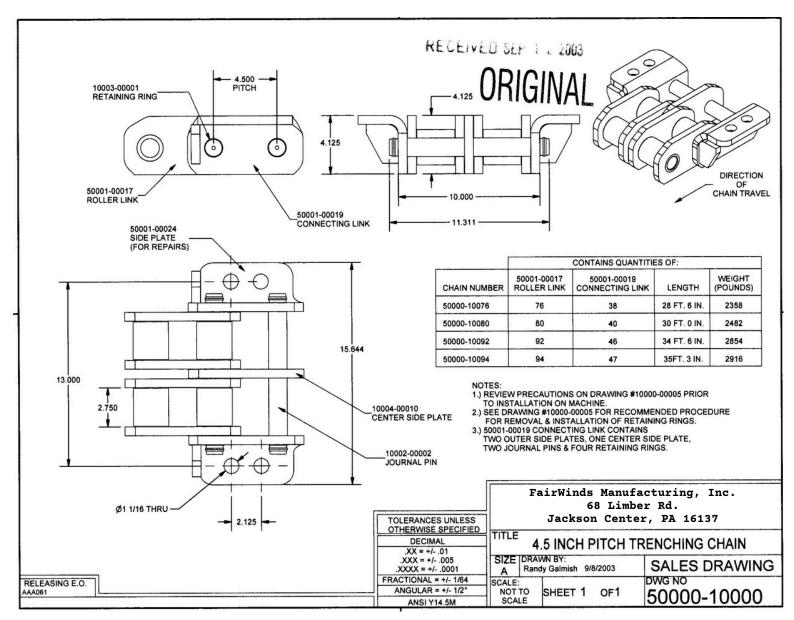
#### K-Bracket Style

Tesmec



#### 4.125 Inch High Roller and Connecting Link Assemblies

One section = one top plate and two pins







#### **4502 Double Roller - Low**

#### K-Bracket Style

Tesmec



#### 3.5 Inch High Roller Link Assembly, 4.125 Inch **High Connecting Link Assembly**

#### One section = one top plate and two pins

50000-14002	Sales Sample; one chain section
50000-14080	40 section chain, 80 pitches
50000-14092	46 section chain, 92 pitches





#### 4502 Double Roller - Low

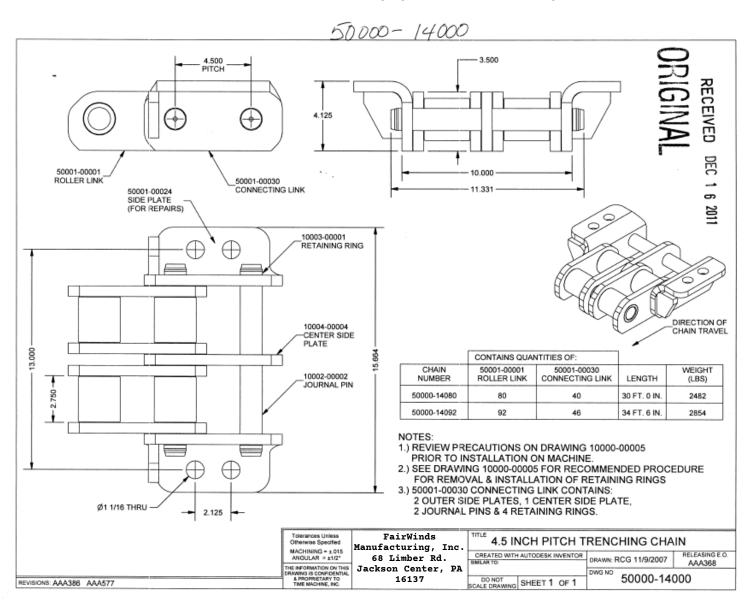
## K-Bracket Style

Tesmec



#### 3.5 Inch High Roller Link Assembly, 4.125 Inch High Connecting Link Assembly

One section = one top plate and two pins



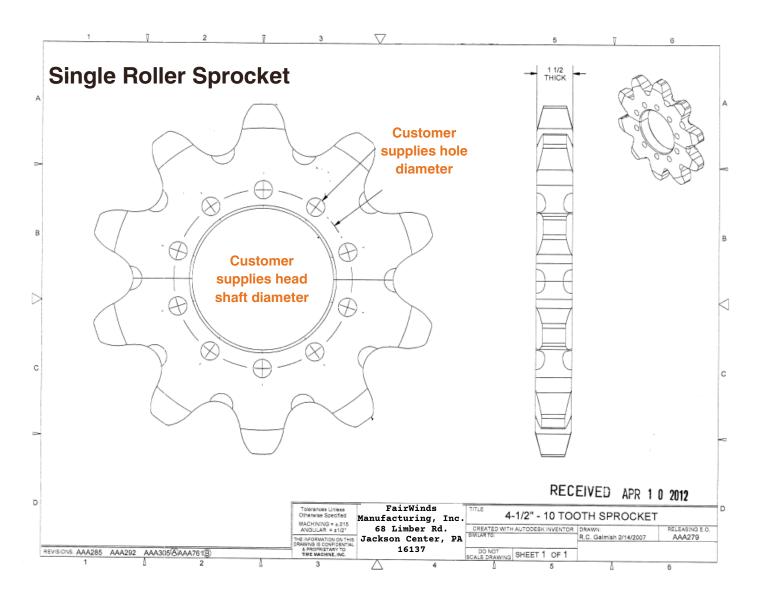


## **Sprockets**

## **Single and Double**



Our trenching chain sprockets are designed using solid modeling software for longer engagement for perfect mate between sprocket and chain. Fashioned from high-quality alloy steel and through-hardened, they promise extended longevity, enduring the rigors of demanding trenching operations with ease. Proudly manufactured in the USA at FairWinds, each sprocket embodies precision engineering and American craftsmanship. Designed with meticulous attention to detail, the pitch of the sprocket perfectly aligns with that of the chain, ensuring seamless compatibility and smooth operation, making them the reliable choice for your trenching needs.

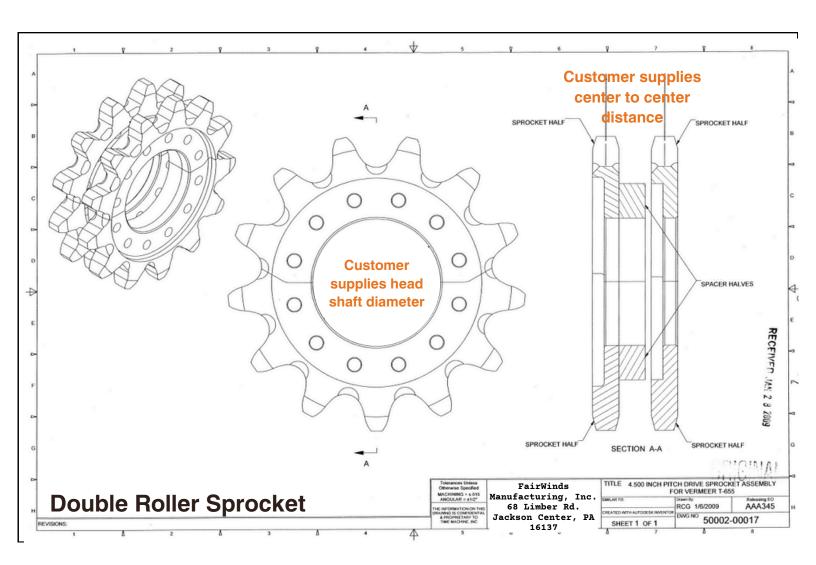




## **Sprockets**

## **Single and Double**





When calling, please have this information available:

- Machine Make
- Number of teeth
- Head shaft /sprocket bore diameter
- Hole diameter
- · Mounting hole diameter
- Number of mounting holes
- Bolt circle (BC) diameter of mounting holes
- Center to Center distance for a double roller.







#### INFORMATION REQUIRED FOR INQUIRY

Scan and forward this completed worksheet and any relevant photos, questions, or remarks

Jordan: 724-893-4904 | Jordan.Latchaw@FairWindsMFG.com Mike: 814-673-1578 | Mike.Latchaw@FairWindsMFG.com Chuck: 724-992-2202 | Charles.Latchaw@FairWindsMFG.com

Company Name:	_
Contact Name:	
Phone Number:	
Location:	
Bare Chai	n Questions:
1. What manufacturer's machine and model is	the chain being used on?
2.What model is the chain being used on?	
3.Is it a single roller (4501) or double roller (45	502) Chain?
4. How many top plates (stations) will the chai	n use?
	orocket questions below
Sprocket Questions:	Top Plate Questions:
1.OEM part number	1. How wide is your trench?
2. Number of teeth	2. How thick are your top plates?
3. Head shaft diameter	
4. Hole diameter	
5. Mounting hole diameter	
6. Number of mounting holes	FairWinds Manufacturing, Inc.
7. BC diameter of mounting holes (Bolt Circle) 8. Center to Center distance	Manufacturing, Inc.

(For DOUBLE ROLLER only)