



CWS INDUSTRIES (MFG) CORP.

# Straight Dozers

Straight Dozer Groups operate only in the straight position. They are able to Tilt when equipped with one tilt cylinder or Tip and Tilt when equipped with two.

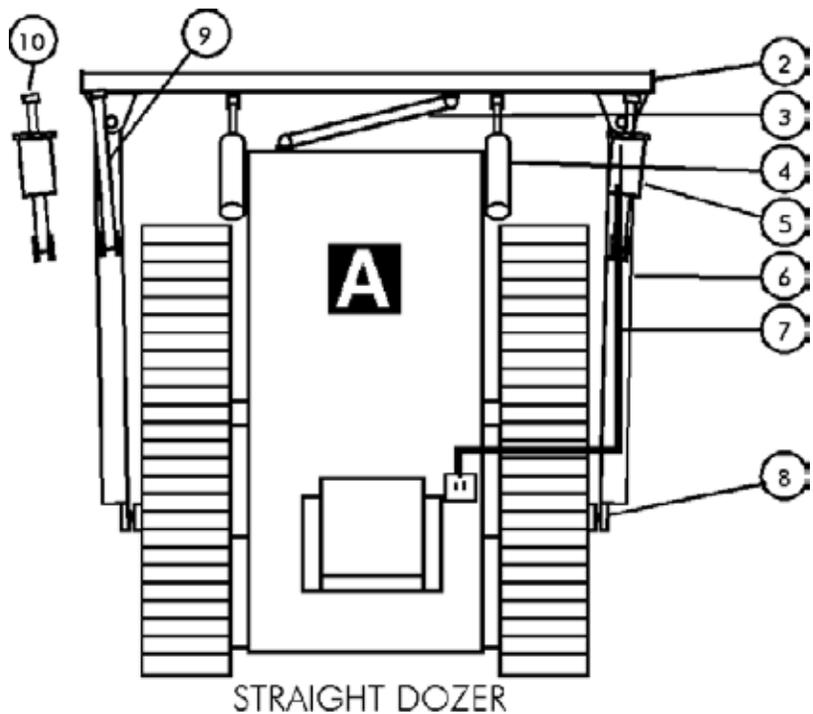
Three types of push groups are shown here:

- A ) Tag Link Style
- B ) Diagonal Brace Group Style
- C ) Uni-Joint Style

## PARTS:

- 1 ) Diagonal  
Brace Group
- 1a) Uni-Joint  
Push Group
- 2 ) Straight  
Blade
- 3 ) Tag Link
- 4 ) Dozer Lift  
Cylinders
- 5 ) Single Tilt  
Cylinder
- 6 ) Push Arms
- 7 ) Hydraulic  
Lines out side of  
tractor to Tilt  
Cylinder
- 8 ) Dozer  
Mounting  
Trunnions

## Tag Link Style



Tractor shown with Caterpillar's Tag Link Style Push Group

The Tag Link serves to transfer any side loads on the blade directly to the nose of the tractor. Ball joints at each end of the Tag Link, allow the blade to lift, tilt and tip.

9 ) Fixed Tilt Strut

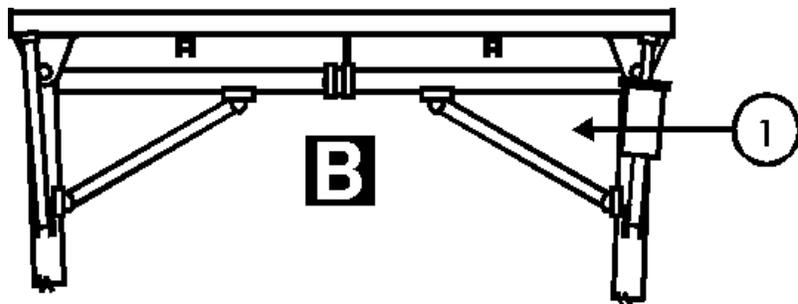
10) Optional Second Tilt Cylinder for Tip



**NOTES:**

- Dozer Mounting Trunnions, Dozer Lift Cylinders, Control Valve and Piping within the machine for Tilt Cylinders is not part of standard Dozer Groups.
- When ordering "blades only" to go with O.E.M. push groups, hookup parts between the blade and the push group are not usually included as standard.
- Only specially built tractors are able to use the "Tag link" style of push group. All other tractors must use either the Diagonal Brace Group or Uni-Joint Style Push Group.
- Three different styles of blades are available:
  - i ) Straight - best for large objects
  - ii ) Semi-U - slightly dished to hold granular material in at the

**Diagonal Brace Group Style (K-Brace Version)**



Diagonal braces transfer side load from the blade to the push arms. Moving joints at allow the blade to tilt and tip.

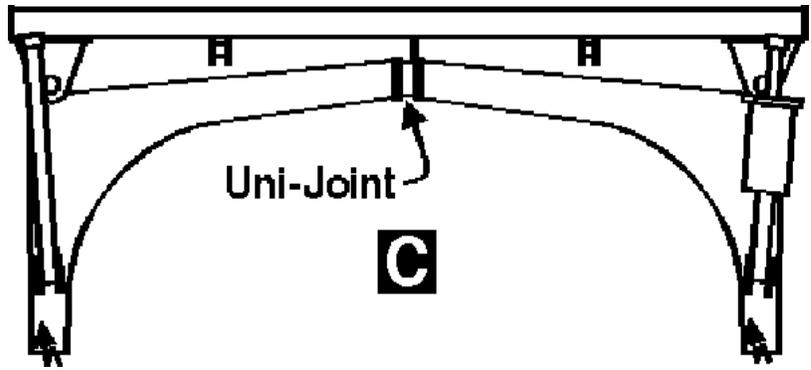


**Uni-Joint Style**

ends

iii ) U-Blade -  
deeply dished for  
pushing large  
quantities of  
granular  
materials

Special versions  
off these three  
basic style are  
built for Soils,  
Rock, Coal,  
Woodchips,  
Sulfur, etc. Many  
combinations of  
moldboard size,  
shape and wear  
materials  
customize each  
basic blade for  
the conditions it  
will work in.



Stiff cornered push frames transfer side loads from the blade directly to the tractor. A flexible coupling joins the two arms together allowing the flexing needed between them for tilt and tip

