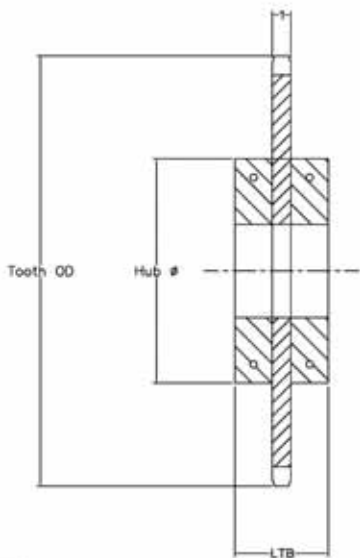


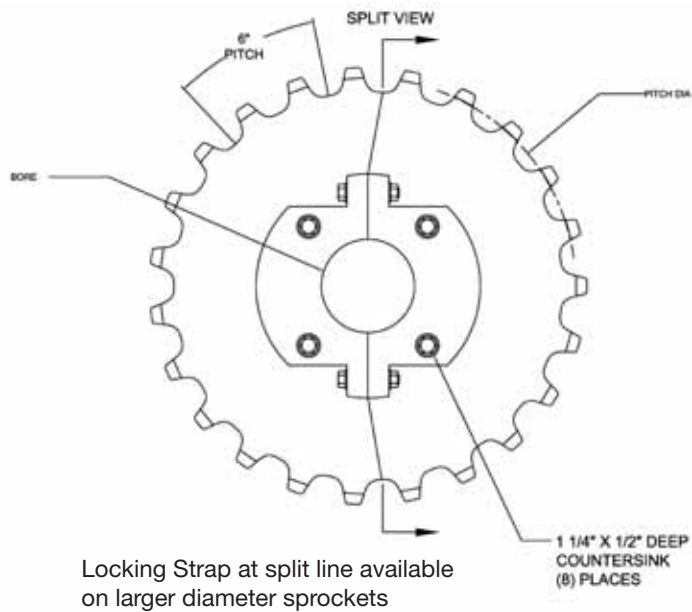
Sprockets



Allied-Locke Industries superior **non-metallic 715/720 series sprockets** are split for easy installation and removal. Standard sprockets are normally sold in the Hunting Tooth (HT) design, but can be non Hunting Tooth if desired. Hunting Tooth design means that the sprocket will have an odd number of teeth and $\frac{1}{2}$ the chain pitch meaning the chain touches every tooth after 2 revolutions of the sprocket rather than every revolution. This doubles the life of the sprocket. The non-metallic sprockets are normally made of either Nylon materials or UHMW-PE with stainless steel hardware. These sprockets are available with chainsaver rims so wear is reduced on both the chain and the sprocket.



NOTES
HUB BOLTS- (8) $\frac{1}{2}$ -13 X 3" ST. ST.



Locking Strap at split line available on larger diameter sprockets

1 1/4" X 1/2" DEEP COUNTERSINK (8) PLACES

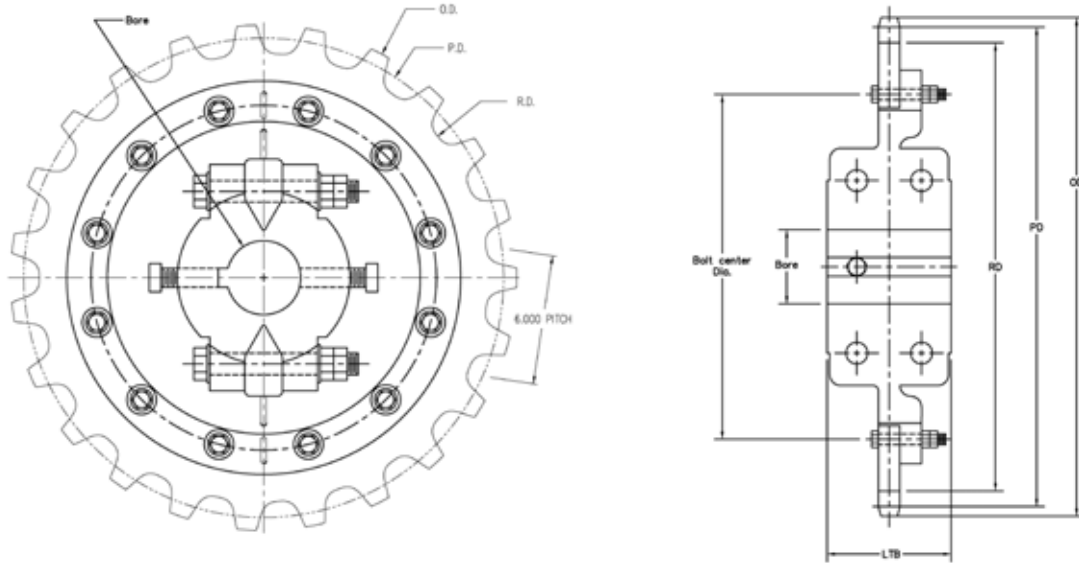
Non-Chainsaver style Shown

Hunting Tooth Collector Sprocket Info.

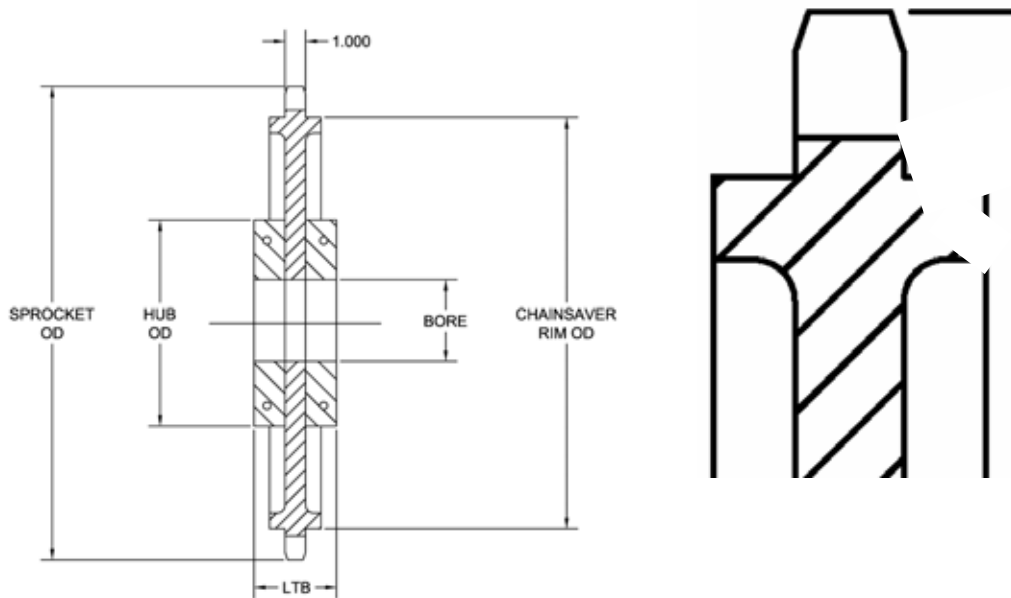
Number of Teeth	Pitch Diameter
HT13	12.89"
HT17	16.59"
HT19	18.45"
HT21	20.33"
HT23	22.21"
HT25	24.01"

Sprockets

Allied-Locke Industries also produces a **combination cast iron body with UHMW segmented teeth**. This allows for the replacement of the sprocket teeth when they become worn and not the entire sprocket as with the solid non-metallic sprocket on page 29.



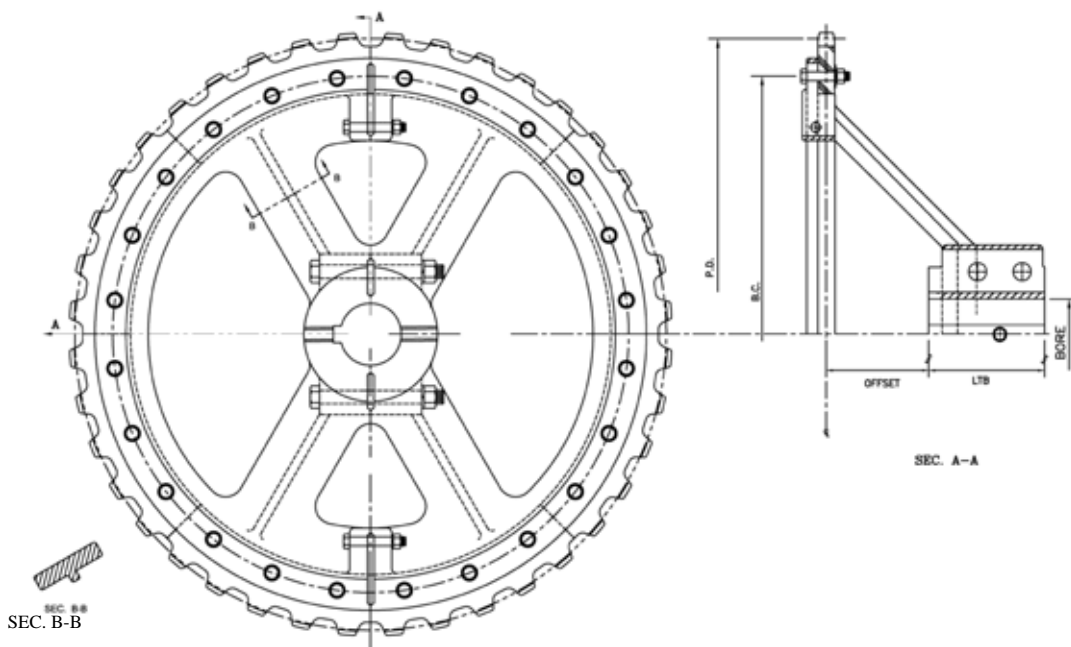
Chainsaver rims are an option that Allied-Locke Industries offers on our collector sprockets. It is basically a flange that the chain sidebar can rest on while the chain barrel is in the teeth of the sprocket. The flange is situated such that there is an even load distribution along the sidebars of the chain.



Sprockets



One style of **driven sprocket**, also known as a bull gear, for the H78 chain that Allied-Locke Industries offers is the combination cast iron hub with attached UHMW-PE segmented teeth. Cast iron hubs are stronger than non-metallic hubs so there is little to no danger of the keyway being worn out. These sprockets can be fit to any need with a variety of offsets and pitch diameters.

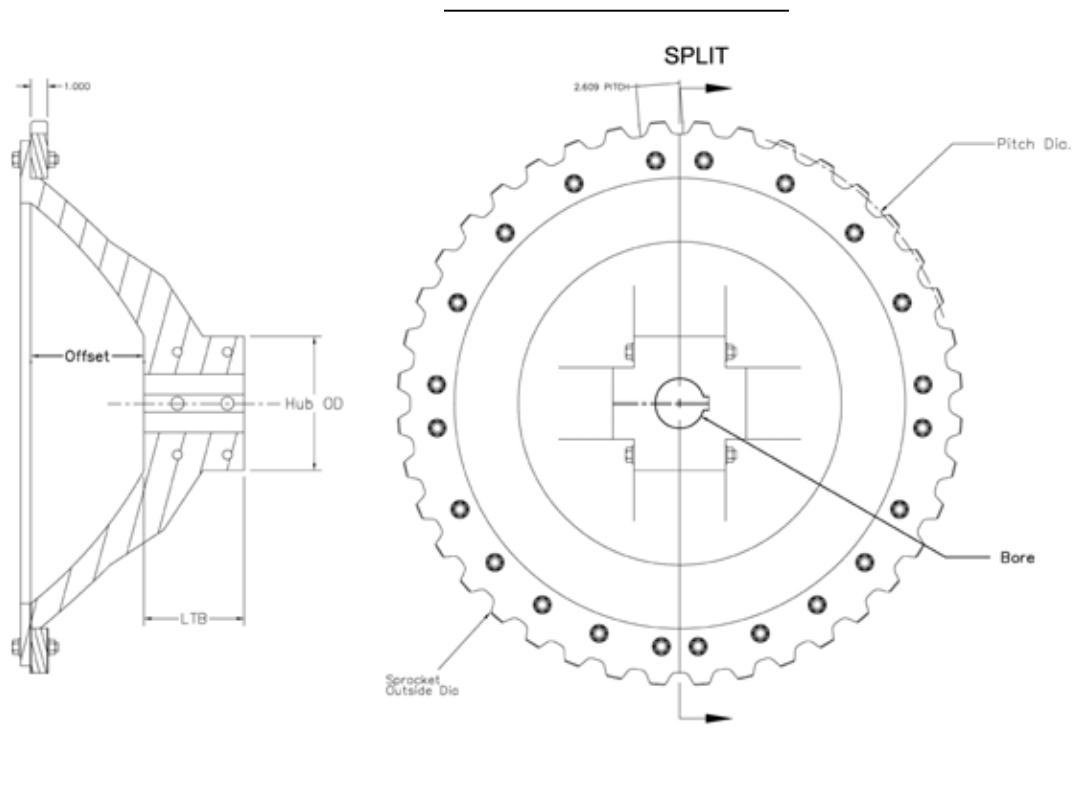


Drive Sprocket Info.

Number of Teeth	Pitch Diameter (Inches)
30	73.0
40	119.0
41	123.0
42	125.0
43	128.0
48	153.0

Sprockets

Allied-Locke Industries also offers bull drive gears for the H78 drive chain in a light **non-metallic** variety as well. They are often cast from Nylon or polyurethane so they are lighter and resistant to corrosion. Bigger offset non-metallic bull sprockets come with segmental teeth attachments so that replacing worn teeth is easy, while the smaller bull sprockets tend to be cast with solid teeth. When teeth are attached in segments, UHMW or various other non-metallic materials can be used for the teeth.

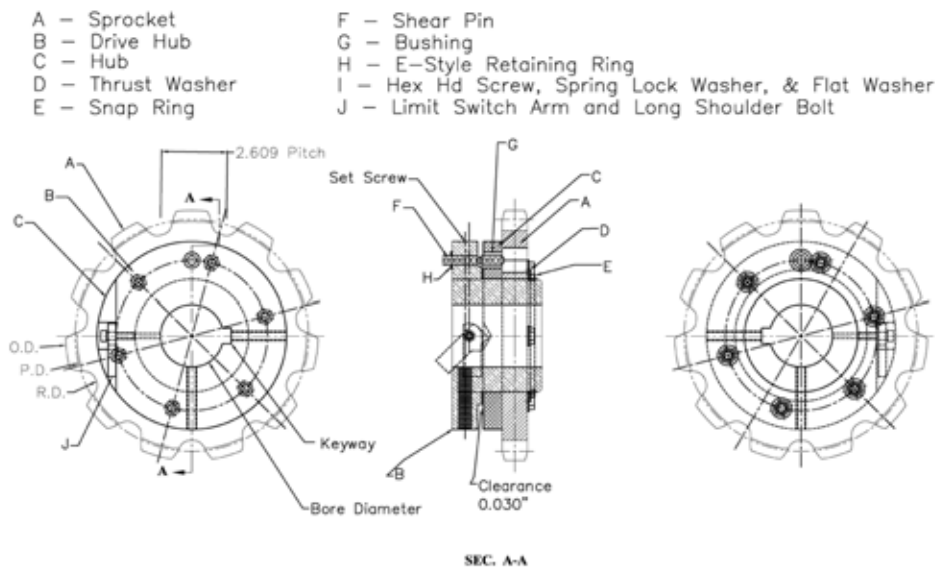


Keyways for all sprockets are normally bored to standard sizes unless otherwise specified.

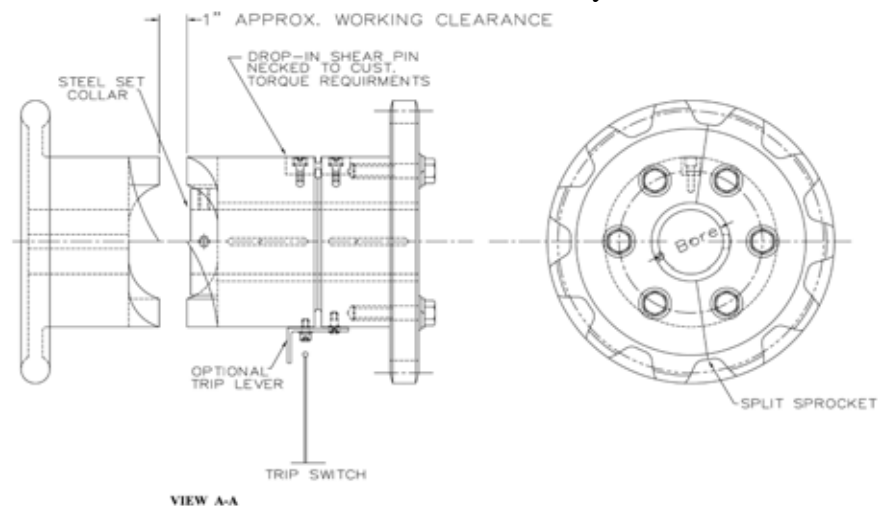
Bore size (Inches)	Standard Keyway (Inches)
1 5/16-1 3/8	5/16 x 5/32
1 7/16-1 3/4	3/8 x 3/16
1 13/16-2 1/4	1/2 x 1/4
2 15/16-2 3/4	5/8 x 5/16
2 13/16-3 1/4	3/4 x 3/8
3 5/16-3 3/4	7/8 x 7/16
3 13/16-4 1/2	1 x 1/2
4 9/16-5 1/2	1-1/4 x 7/16

Non-Metallic Drive Sprocket – Shear Pin

Allied-Locke Industries non-metallic H78 shear pin sprocket assemblies are easy and reliable. The drive hub and hub are normally made of nylon-6 and the sprocket teeth which bolt to the hub are normally made of nylon or UHMW-PE. The hub can also be made from UHMW or cast iron while the sprocket teeth can be made from cast iron or steel. Shear pins can be provided and sized for any torque requirements to protect the H78 drive chain and sprocket from overload conditions. The assembly can be made with or without a limit switch arm which will trip a sensor when the sprocket becomes free. Jaw clutch and handwheel assemblies are also available. These come as a standard with a spiral jaw so it permits engagement when the clutch is in motion and can be made from the same materials as the basic shear pin assembly.



Basic Shear Pin Assembly



Basic Jaw Clutch/ Handwheel Assembly Designs not limited to that shown

Torque Limiters of Ball Detent design also available