Hammerless Top Pin Connection

Caterpillar's K-series to Corporation and leased

Caterpillar® (Esco®) K-Series System



Patented by Esco Corporation

Caterpillar® K-Series® System					
Size	A	В	С		
K-80	3.15"				
K-90	3.45"				
K-100	3.78"				
K-110	4.44"	3.50"	5.50"		
K-130					
K-150					
K-170					

Caterpillar's K-series tooth system was patented by Esco® Corporation and leased to Caterpillar® Tractor Company.

K-series GET are available from Caterpillar® Dealers only.

This product design is not offered by the H&L Tooth Company at this time.

C B A

H&L® Mining 600-Series Tooth System



H&L® Flexhol® Series System				
Size	Α	В	С	
646	6.90"	7.10"	7.25"	

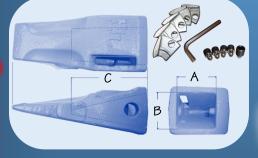
H&L's "VP*", Vertical Pin, was first introduced into the mining field in 1980, original patent #4,516,340. The Flexpin® was replaced with a hammerless *Insert and pin*. The new design uses a solid steel insert to attach the tooth to the mining base adapter nose. It utilizes the 46 series mining Whisler system nosepiece connection for the installation of a 646 series Mining tooth. H&L's 646 system is produced in Tulsa Oklahoma, Made in the USAI.

Installation of the hammerless Insert into the mining adapter-to-tooth assembly then place the Cap on the insert body through the tooth hole. Thread the bolt into the Insert body, connecting the Cap to the Insert assembly

Fair Possibility

Good Possibility

H&L® Kliploc® Hammerless System



H&L® Kliploc® System				
Size	A	В	С	
233	1.81"	1.93"	2.75"	

Patented by H&L Tooth Company

The 233 series Kliploc® system was designed to replace the sixty year old 23/230 tooth system. The original patent was granted in 2006 (8,347,530). This hammerless system changes the original 230 series horizontal side Flexpin® connection to a vertical clip installation without the need to change the existing adapters on the bucket.

Hammerless Top Pin Connection

C

Low Possibility

Hendrix® "J-Bolt" Hammerless System



The J-Bolt connection has been obsolete for many years. Very few aftermarket manufacturers exist today.

Hendrix® J-Bolt					
Size	A	В	С		
A-104	2.31"	2.56"	3.75"		
A-204	3.12"	3.31"	5.12"		
A-404	3.38"	4.06"	5.31"		
204	3.12"	3.12"	5.62"		
304	3.12"	3.44"	5.94"		
604	3.69"	4.06"	6.69"		
804	3.94"	4.25"	6.38"		

This product design is not offered by the H&L Tooth Company at this time.