1-800-HL TOOTH

10055 East 56th Street North, Tulsa, Oklahoma 74117

DESIGNED FOR
H&L 546 and 646 SERIES
UNIFORGED® TEETH

produced from High Silicon HL-400 Steels



# 646 & 546 SERIES MINING WHISLER SYSTEMS

© H&L Tooth Company 2015

QUALITY since 1931

YER 96.2006a



# Vertical Pin Tooth UPGRADES IMERIESS FLEXHOLS

- •Uniforged® 646 Series Mining Teeth for greater durability!
- •Solid Steel Hammerless attachment pin holds tight to the Adapter nose!
- Solid Steel Pin Insert assures alignment!

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646BT8 Self Locking Bolt



646CP8 Cap



Complete Assembly 646PN8



- •Uniforged® 546 Series Mining Teeth for greater durability!
- •Solid Steel Flexhol® assembles with a 6 pound hammer.
- •Flexible hole Insert assures Pin locking!

H&L® UNIFORGE® mining teeth are 100% checked for fit and 100% hardness inspected!

# **500 SERIES FORGED WHISLER STYLE MINING BASES**

#### Whisler 8 SIZE PIN INSERT **KEY AND CLAMP** WEAR CAP WEIGHT **Kilograms** K-508 SERIES 500.0# 235.0kgs 546PN 546HL N/C K-508 SERIES 500-8 475.0# 224.0kgs 546PN 546HL

N/C

500-8

500.0#

475.0#

235.0kgs

224.0kgs

K-508 SERIES

K-508 SERIES

#### Whisler 10 SIZE

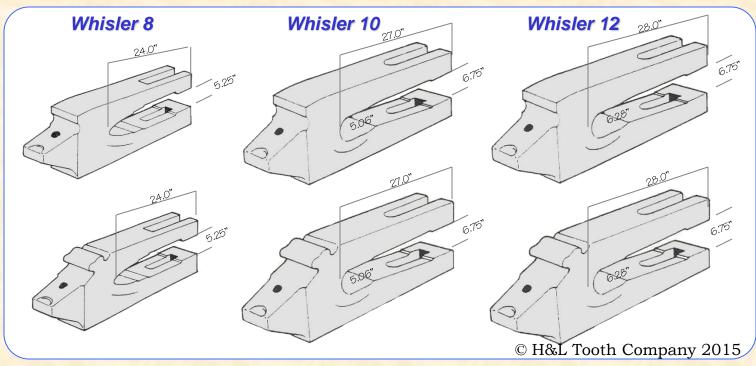
646PN8F

646PN8F

BASE NUMBER	TOOTH SERIES	PIN	INSERT	KEY AND CLAMP	WEAR CAP	WEIGHT	Kilograms
510-46	543 SERIES	543PN	543HL	K-510 SERIES	N/C	855.0#	392.0kgs
510-TWC-46	543 SERIES	543PN	543HL	K-510 SERIES	500-10/12	840.0#	381.0kgs
510-46	646 SERIES	646	PN8F	K-510 SERIES	N/C	855.0#	392.0kgs
510-TWC-46	646 SERIES	646	PN8F	K-510 SERIES	500-10/12	840.0#	381.0kgs

### Whisler 12 SIZE

BASE NUMBER	TOOTH SERIES	PIN	INSERT	KEY AND CLAMP	WEAR CAP	WEIGHT	Kilograms
512-E-46	546 SERIES	546PN	546HL	K-512 SERIES	N/C	855.0#	397.0kgs
512-TWC-46	546 SERIES	546PN	546HL	K-512 SERIES	500-10/12	840.0#	390.0kgs
512-E-46	646 SERIES	646	PN8F	K-512 SERIES	N/C	855.0#	397.0kgs
512-TWC-46	646 SERIES	646	PN8F	K-512 SERIES	500-10/12	840.0#	390.0kgs



# 546 SERIES FLEHOL® PIN AND INSERT



**BASE NUMBER** 

508-46

508-46

508-TWC-46

508-TWC-46

Shore hardness!

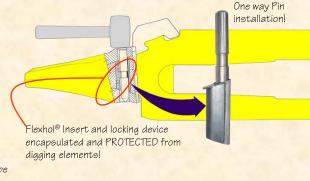
**TOOTH SERIES** 

546 SERIES

546 SERIES

646 SERIES

646 SERIES



SERIES	<i>FLEXHOL</i>	HEAVY DUTY	SEVERE DUTY
546	PIN	546PN	546PNOB
546	INSERT	546HL	546HLOB

# **500 SERIES WEDGE KEYS AND CLAMPS**

#### WHISLER 8 SIZE DESCRIPTION WEIGHT # WEIGHT KGS CLAMPS WEIGHT # WEIGHT KGS PART# K-508-5 EXTRA LONG OVER SIZED 35.0# 16.0KGS K-508-9 47.0# 21.0KGS K-508-4 .25" OVER SIZED 35.0# 16.0KGS K-508-9 47.0# 21.0KGS K-508-9 K-508-3 STANDARD WEDGE KEY 31.0# 14.0KGS 47.0# 21.0KGS K-508-9 47.0# 21.0KGS K-508-2 .25" UNDER SIZED 27.0# 12.0KGS K-508-1 EXTRA LONG UNDER SIZED 32.0# 14.0KGS K-508-9 53.0# 21.0KGS

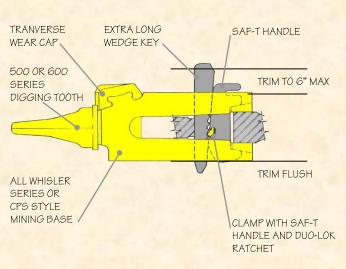
#### WHISLER 10 SIZE

PART#	DESCRIPTION	WEIGHT#	WEIGHT KGS	CLAMPS	WEIGHT#	WEIGHT KGS
K-510-5	-510-5 EXTRA LONG OVER SIZED		21.0KGS	K-510-9	53.0#	24.0KGS
K-510-4	.25" OVER SIZED	36.0#	16.0KGS	K-510-9	53.0#	24.0KGS
K-510-3	K-510-3 STANDARD WEDGE KEY		15.0KGS	K-510-9	53.0#	24.0KGS
K-510-2	.25" UNDER SIZED	30.0#	14.0KGS	K-510-9	53.0#	24.0KGS
K-510-1	EXTRA LONG UNDER SIZED	45.0#	20.0KGS	K-510-9	53.0#	24.0KGS

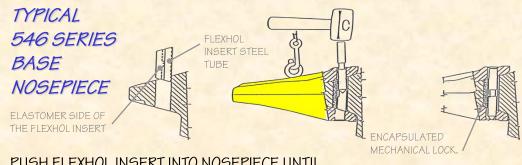
#### **WHISLER 12 SIZE**

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	PART#	DESCRIPTION	WEIGHT#	WEIGHT KGS	CLAMPS	WEIGHT#	WEIGHT KGS
	K-512-5	EXTRA LONG OVER SIZED	46.0#	21.0KGS	K-512-9	62.0#	28.0KGS
	K-512-4	.25" OVER SIZED	40.0#	18.0KGS	K-512-9	62.0#	28.0KGS
	K-512-3	STANDARD WEDGE KEY	38.0#	17.0KGS	K-512-9	62.0#	28.0KGS
	K-512-2	.25" UNDER SIZED	36.0#	16.0KGS	K-512-9	62.0#	28.0KGS
	K-512-1	EXTRA LONG UNDER SIZED	46.0#	21.0KGS	K-512-9	62.0#	28.0KGS

#### © H&L Tooth Company 2015



# **546 SERIES INSTALLATION AND REMOVAL**

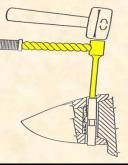


INSERT FLEXHOL SOLID STEEL PIN AS SHOWN AND DRIVE PIN WITH HAMMER (4.0# MINIMUM). Continue to drive pin into insert sleeve until lock has engaged groove locks in the steel pin. PIN WILL BE FLUSH WITH THE TOP OF THE TOOTH BOSS!

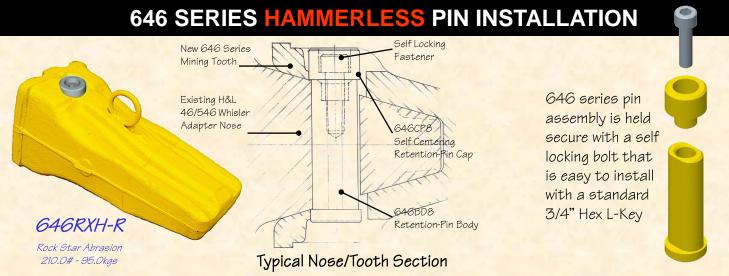
PUSH FLEXHOL INSERT INTO NOSEPIECE UNTIL INSERT IS FLUSH WITH TOP OF THE NP SURFACE.

POSITION ONE OF THE H&L FORGED 500 SERIES MINING TEETH OVER THE NOSEPIECE.

TO REMOVE FLEXHOL PIN USE X-2846 REMOVER TOOL. AFTER LOCK HAS DISENGAGED GROOVE SLOT OF THE STEEL PIN, CONTINUE TO DRIVE PIN UNTIL IT CLEARS NOSEPIECE AND TOOTH.



ALL PERSONS PERFORMING
MAINTENANCE WORK SHOULD
WEAR OSHA APPROVED HARD HAT,
SAFETY GLASSES, SAFETY
SHOES AND WORK GLOVES!



# **H&L® TOOTH COMPANY Vertical-Pin TOOTH SYSTEMS**

H&L Teeth are UNIFORGED® in the USA from high silicon Chromium-Moly-Nickel alloy steels, enhancing durability and long life!



# SP style... Flexhol 546SP and Hammerless 646SP

Sharp Penetrating Tooth

Centerline general purpose tooth for general duty mining applications. Paneled design for penetration.

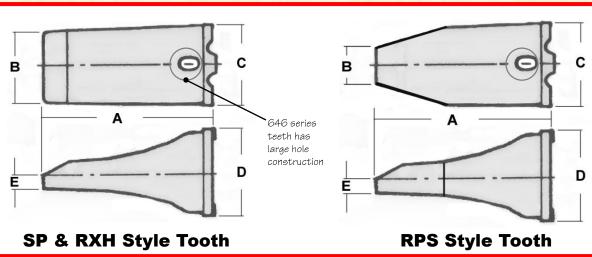
#### Flexhol 546RXH and RXH style... **Hammerless 646RXH**

Rock Extra Heavy Tooth Heavier tooth design for severe duty front end loaders and shovels. Provides greater wear material for enhanced life.

## RPS style... Flexhol 546RPS and Hammerless 646RPS

Rock Penetrating Star Tooth Provides high wear material and is paneled for self-sharpening. Narrow tooth width provides greater penetration.

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PART #	LENGTH "A"	WIDTH "B"	TOOTH "C"	HEIGHT "D"	END "E"	WEIGHT
546SP-R	20.00"/508mm	8.00"/203mm	9.00"/229mm	10.00"/254mm	1.50"/38mm	185#/84kgs
546RPS-R	20.00"/508mm	3.50"/89mm	9.00"/229mm	10.00"/254mm	1.50"/38mm	185#/84kgs
546RXH-R	20.00"/508mm	8.00"/203mm	9.00"/229mm	10.00"/254mm	1.50"/38mm	215#/98kgs
646SP-R	20.00"/508mm	8.00"/203mm	9.00"/229mm	10.00"/254mm	1.50"/38mm	185#/84kgs
646RPS-R	20.00"/508mm	3.50"/89mm	9.00"/229mm	10.00"/254mm	1.50"/38mm	185#/84kgs
646RXH-R	20.00"/508mm	8.00"/203mm	9.00"/229mm	10.00"/254mm	1.50"/38mm	215#/98kgs