

AUGERS & COMPONENTS DIGGER DERRICKS & PRESSURE DIGGERS



PALADIN UTILITY



PALADIN UTILITY

Pengo was established in 1950 near San Francisco, California to design and manufacture utility industry equipment to pull and tension high voltage transmissions lines. The company later developed augers to drill efficiently in conditions, which, at the time, were considered extremely difficult. Within a few years, Pengo held over 169 patents, most of which are still the basis for current drilling industry standards. The Aggressor[™] auger line is the latest patented product that has been chosen by the leading dealers, distributors, and OEM (Original Equipment Manufacturers).

Today, Pengo is the largest manufacturer of augers and related wear parts in the world, serving the utility, construction, agriculture, foundation, and major worldwide OEM customers. Our products are available through a network of over 500 dealers and OEM's. The product line has expanded to include forged, cast and fabricated bucket teeth in addition to a line of mini-loader attachments and foundation drilling tools and components. Pengo acquired CAM Manufacturing in May 2004. This added the conveyor screw product line and the ability to manufacturer heavy duty helical and sectional flighting.

With manufacturing and distribution points in California, Iowa, and Minnesota, we have several locations to serve you. Please call Sales at (800)599-0211 to talk with our representatives and see why at Pengo we are proud to say "We're Breaking New Ground."



Please call us at 800-599-0211 for the location of our nearest dealers or Regional Sales Manager.

Pengo Limited Warranty

Products manufactured by Pengo wear and are expendable in their function. Wear and tear and occasional breakage must, therefore, be expected.

Pengo products are warranted from defects in material and workmanship for a period of **Sixty (60) Days** from the date of invoice. Pengo will either replace or credit the defective part at it's option. Any labor and/or material required to remove or install parts is excluded under this Limited Warranty. Products that have been misused, misapplied, hardfaced, improperly welded, or otherwise installed contrary to instructions and specifications are not covered by this Limited Warranty.

Pengo reserves the right to make design, specification and prices changes without notice and obligations to the affect of such changes.

Pengo makes no other warranty. All other warranties, whether express, implied or statutory, such as warranties of merchantability of fitness for a particular purpose, are hereby excluded and disclaimed to the extent that they exceed the warranties expressly granted in this limited warranty. In no event shall Pengo be liable for consequential or incidental damages. Whether direct or indirect, claimed by the customer and/or any third parties.

Returns and Claims

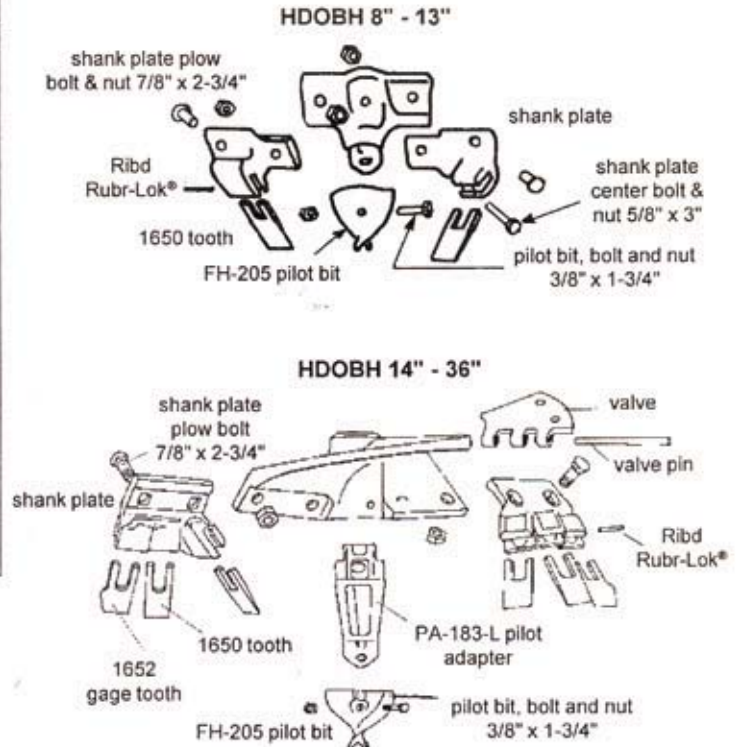
1. Pengo reserves the right to determine whether products claimed to be defective shall be inspected by our personnel in the field or returned to the factory. If judged by Pengo to be defective in material or workmanship, the product will be replaced or a credit issued at the option of Pengo.
2. Upon notification of defect, Pengo's Inside Sales Department will issue a Return Goods Authorization number (RGA). All returns for replacement or credit MUST be accompanied by a RGA number. Products returned without a RGA number will be rejected and returned to the sender freight collect.
3. All returns must be shipped "prepaid". Products shipped "collect" will be refused. Proof of purchase such as invoice number must accompany returns.
4. Slow moving dealer inventory may be returned once per calendar year. The net value cannot exceed 5% of the previous year's purchases. A 20% re-stocking charge will apply to the net value or returned products. All returns must be of current manufacture and in unused condition. Rusty or custom painted products will not be accepted for return.

Boring Heads - HD

For repair of Pengo and other brands of augers

HDOBH Boring Heads						
Description		Qty. Teeth per Auger	Approx. Wt.		Part No.	
in.	mm.		lbs.	kg.		
8	203	HDOBH-8	2	31	14.0	551465
9	229	HDOBH-9	2	32	14.5	551470
10	254	HDOBH-10	2	37	16.8	551475
11	279	HDOBH-11	4	47	21.3	551480
12	305	HDOBH-12	4	50	22.7	551485
13	330	HDOBH-13	4	51	23.1	551490
14	356	HDOBH-14	4	81	36.7	551495
16	406	HDOBH-16	4	88	39.9	551500
18	457	HDOBH-18	6	103	46.7	551505
20	508	HDOBH-20	6	110	49.8	551510
22	559	HDOBH-22	6	120	54.5	551515
24	610	HDOBH-24	7	132	59.8	551520
26	660	HDOBH-26	8	148	67.0	551525
30	762	HDOBH-30	8	179	81.1	551530
36	914	HDOBH-36	8	223	101.0	551535
42	1067	HDOBH-42	10	243	110.1	551536
48	1219	HDOBH-48	13	263	119.1	551537

To install: Align boring head with auger's flight edge and weld completely around center shaft and flight edge. Use a low hydrogen welding rod.



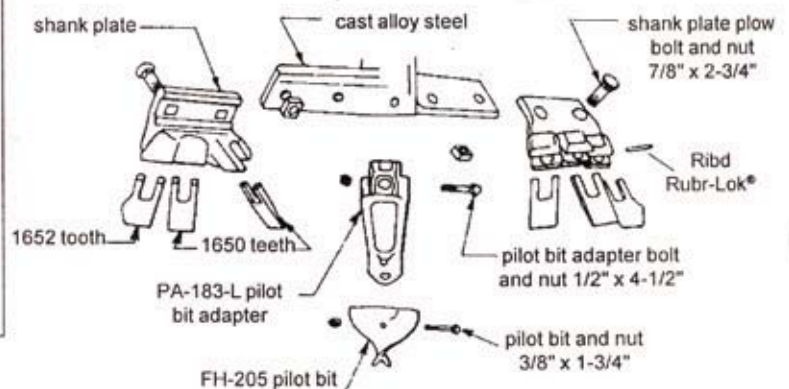
Boring Heads - MD

For repair of Pengo and other brands of augers

MDOBH Boring Heads						
Description		Qty. Teeth per Auger	Approx. Wt.		Part No.	
in.	mm.		lbs.	kg.		
8	203	MDOBH-8	2	41	18.5	552005
9	229	MDOBH-9	2	42	19.0	552010
10	254	MDOBH-10	2	47	21.3	552015
11	279	MDOBH-11	4	60	27.2	552020
12	305	MDOBH-12	4	64	29.0	552025
14	356	MDOBH-14	4	60	27.2	552030
16	406	MDOBH-16	4	61	27.6	552035
18	457	MDOBH-18	6	73	33.0	552040
20	508	MDOBH-20	6	75	34.0	552045
22	559	MDOBH-22	6	78	35.3	552050
24	610	MDOBH-24	7	90	40.8	552055
26	660	MDOBH-26	8	92	41.7	552060
27	686	MDOBH-27	8	109	49.4	552065
30	762	MDOBH-30	8	121	54.8	552070
36	914	MDOBH-36	8	140	63.4	552075
42	1067	MDOBH-42	10	160	72.5	552076
48	1219	MDOBH-48	13	180	81.5	552077

Cast alloy steel MDOBH heads provide the strength to support hard working shank plates, and protect the auger flight from being bent and distorted. Field replaceable teeth and fishtail bit are standard.

To Install: The MDOBH has an extended ramp on one side for welding to flight edge. Weld completely around center shaft and flight edge using a low hydrogen rod.



Replacement Parts



**Option # 1 - Dirt Head
(Compacted Soils, Clay soft shales)**

* Other Options Available

Replacement parts for Quick Change Dirt Heads	
Standard Dirt	
Part No.	Description
140080	1851 Dirt Tooth (Inside Pocket)
140085	1652 Gage Tooth(Outside Pocket)
137357	TF-600 Triflow Pilot Bit
151110	PA-183L Pilot Adapter

Replacement parts for Quick Change Dirt Heads	
Standard Carbide	
Part No.	Description
140400	1656 Carbide Tooth (Inside Pocket)
140417	1658 Carbide Gage Tooth(Outside Pocket)
131727	P-1656 Pilot Bit



**Option # 2 -
Step Rock Head
(Solid, non-fracturable rock)**

Replacement parts for Quick Change Step Rock Heads	
Part No.	Description
140115	PFC-5 Tooth
140119	PFC-5H Holder
151273	P-6000 Pilot Bit



**Option # 3 -
ROCK RIPPER®
(Fracturable Rock)**

Replacement parts for Rock Ripper® Heads	
Part No.	Description
134037	C-3LR Bullet Tooth
134039	C-10 Block
133520	RRP-API Bilot Bit



Replacement Teeth		
Part No.	Description	
140070	1650	Auger Tooth
140085	1652	Auger Tooth
140080	1851	Auger Tooth
140400	1656	Carbide Auger Tooth
140417	1658	Carbide Gage Tooth
140407	RB-56	Ridge Breaker Tooth
140072	1650-HF	Hard Faced Tooth
140270	2070	Auger Tooth
140490	2077	Carbide Auger Tooth
140495	2078	Carbide Gage Tooth
140510	16R55	Auger Tooth
170006	60	Taper Trencher Tooth
170020	70	Taper Trencher Tooth
170008	80	Taper Trencher Tooth
170034	211	Taper Gage Auger Tooth
134406	132	Auger Tooth
134411	134	Auger Tooth
134659	299	Taper Carbide Auger Tooth
140115	PFC-5	Carbide Rock Auger Tooth
140112	PFC-2	Carbide Rock Auger Tooth
140055	CB-10	Carbide Rock Auger Tooth
134037	C-3LR	Bullet Tooth
134052	C-31HD	Bullet Tooth



Rock Ripper® Bullet-Style Shank Plates & Pilot

New Style - Fits MD & HD Boring Head Base

The Rock Ripper® bolt-on shanks and pilot are computer designed to easily interchange with Pengo's standard shanks and pilot. Best suited for solid and fracturable rock as well as compacted soils.

The Rock Ripper® Series comes with standard Rock Ripper® teeth (bolts and nuts included).



ROCK RIPPER®

PULVERIZES ROCK LIKE NOTHING ELSE

Description		Part No.
Shank & Pilot Kit	RRK-16	133634
Shank - Left	RRS-16-1	134673
Shank - Right	RRS-16-2	134674
Shank & Pilot Kit	RRK-18	134719
Shank - Left	RRS-18-1	134569
Shank - Right	RRS-18-2	134566
Shank & Pilot Kit	RRK-20	134720
Shank - Side 1	RRS-20-1	134717
Shank - Side 2	RRS-20-2	134718
Shank & Pilot Kit	RRK-24	134697
Shank - Left	RRS-24-1	134695
Shank - Right	RRS-24-2	134696
Rock Ripper® MD Pilot Bit	RRK-MD	134675
Rock Ripper® Teeth	C-3LR-94*	134037

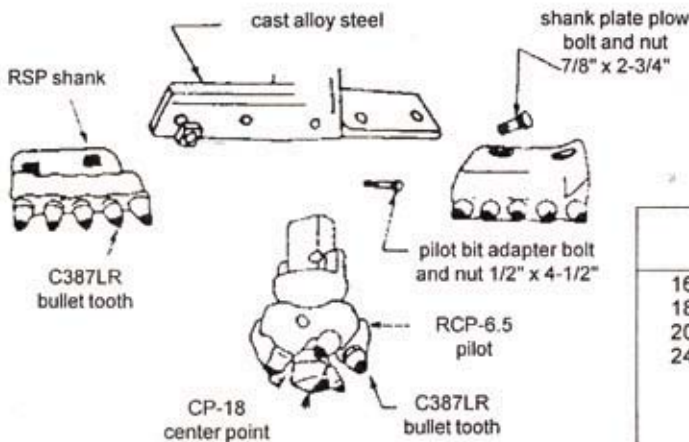
*SOLD IN QUANTITY OF 75 PIECES ONLY

Kennametal-Type Shank Plates & Pilot

Fits MD & HD Boring Head Base

Rock tooling bolts onto the standard MDOBH and HDOBH head and allows you to drill in permafrost, concrete and most fracturable rock.

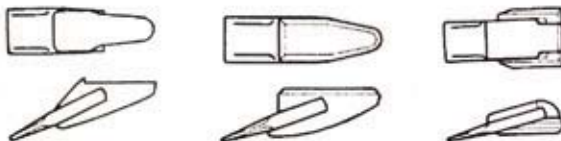
Shanks and pilot manufactured by Pengo for Pengo MD and HD heads.



Description	Qty.	Approx. Wt.		Part No.	
		Teeth	lbs.		kg.
16" Diameter Shank Kit	RSK-16	13	43.5	20	554230
18" Diameter Shank Kit	RSK-18	15	48.5	22	554231
20" Diameter Shank Kit	RSK-20	15	51.5	24	554232
24" Diameter Shank Kit	RSK-24	17	56.5	26	554233
16" Shank Plate	RSP-16	4	12.5	6	554240
18" Shank Plate	RSP-18	5	15.0	7	554241
20" Shank Plate	RSP-20	5	16.5	8	554242
24" Shank Plate	RSP-24	6	19.0	9	554243
6-1/2" Center Point	RCP-6.5	5	18.5	8	132116
Conical Tooth	C-87-LR	-	0.6	.02	134063
Conical Tooth	C-387-LR	-	0.5	.02	134064

Tooth Holders

Description	A"	B"	C"	Approx. Wt.		Part No.
				lbs.	kg.	
WT-50	25	5	1-7/8	2.5	1.1	158115
CWT-50	20	5-1/4	2	3.4	1.5	158125
FA-50	15	3-1/2	3	2.6	1.2	158105
BT-100	0	3-1/8	2	1.6	0.7	157300
1XS	0	3-3/4	2-1/2	1.6	0.7	157010



WT-50

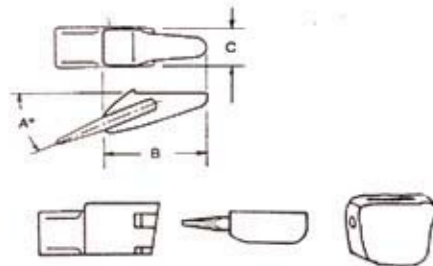
CWT-50

FA-50

BT-100

1XS

For Repair of Leading Edges



Shank Plates & Valves

Shank Plates and Bolts (teeth not included)									Valves				Valve Hinge Pins			
Description			Qty.	Qty. Teeth	Qty. Bolts	Approx. Wt.		Part	Description	Approx. Wt.		Part	Description	Approx. Wt.		Part
in.	mm.		Reqd.	Per Shank	Per Shank	lbs.	kg.	No.		lbs.	kg.	No.		lbs.	kg.	No.
8	203	810X	-	1	1	5.5	2.6	131854	-	-	-	-	-	-	-	-
9	229	810X	-	1	1	5.8	2.6	131854	-	-	-	-	-	-	-	-
10	254	810X	-	1	1	5.8	2.6	131854	-	-	-	-	-	-	-	-
11	279	12X	-	2	1	11.0	5.0	131770	-	-	-	-	-	-	-	-
12	305	12X	-	2	1	11.0	5.0	131770	-	-	-	-	-	-	-	-
13	330	12X	-	2	1	11.0	5.0	131770	-	-	-	-	-	-	-	-
8	203	80X	2	1	1*	6.0	3	132199	-	-	-	-	-	-	-	-
9	229	90X	2	1	1*	6.0	3	132396	-	-	-	-	-	-	-	-
10	254	100X	2	1	1*	7.0	3	132079	-	-	-	-	-	-	-	-
11	279	110X	2	2	1*	10.5	4	132079	-	-	-	-	-	-	-	-
12	305	120X	2	2	1*	12.0	5	131771	-	-	-	-	-	-	-	-
13	330	130X	2	2	1*	12.0	5	132743	-	-	-	-	-	-	-	-
14	356	145X	2	2	2	10.5	4	131788	14-V	2.5	1.1	156700	13-VP	4 oz.	0.1	158649
15	381	145X	2	2	2	10.5	4	131788	15-V	2.5	1.1	156700	14-VP	4 oz.	0.1	158671
16	406	16X-1	1	2	2	9.5	4	131790	16-V	2.5	1.1	156710	15-VP	5 oz.	0.2	158650
		16X-2	1	2	2	9.5	4	131791	16-VP				16-VP			
18	457	18X-1	1	3	2	14.0	6	131732	18-V	3.5	1.6	156720		5 oz.	0.2	158651
		18X-2	1	3	2	14.0	6	131733	18-VP				18-VP			
20	508	20X-1	1	3	2	14.0	6	131866	20-V	3.8	1.7	156730		5 oz.	0.2	158652
		20X-2	1	3	2	14.0	6	131867	20-VP				20-VP			
22	559	22X-1	1	3	3	16.0	7	131974	22-V	4.3	1.9	156740		8 oz.	0.2	158653
		22X-2	1	3	3	16.0	7	131975	22-VP				22-VP			
24	610	24X-1	1	3	3	18.0	8	131872	24-V	5.0	2.3	156750		8 oz.	0.2	158654
		24X-2	1	4	3	18.0	8	131873	24-VP				24-VP			
26	620	267X-1	1	4	4	20.5	9	131976	26-V	6.3	2.8	156760		8 oz.	0.2	158672
		267X-2	1	4	4	20.5	9	131977	26-VP				26-VP			
27	686	28X-1	1	4	4	20.5	9	131976	27-V	6.3	2.8	156760		11 oz.	0.2	158673
		28X-2	1	4	4	20.5	9	131977	27-VP				27-VP			
28	711	28X-1	1	4	4	22.5	10	155960	28-V	8.3	3.8	156770		11 oz.	0.3	158674
		28X-2	1	4	4	22.5	10	155970	28-VP				28-VP			
30	762	30X-1	1	4	4	25.5	11	131878	30-V	8.8	4.0	156790		16 oz.	0.3	158655
		30X-2	1	4	4	25.5	11	131879	30-VP				30-VP			
36	914	36X-1	1	4	4	32.0	15	131884	36-V	19.0	8.6	156810		16 oz.	0.5	158656
		36X-2	1	4	4	32.0	15	131885	36-VP				36-VP			
42	1067	42X-1	1	5	4	39.0	18	131978	42-V	19.0	8.6	156835		16 oz.		158656
		42X-2	1	5	4	39.0	18	131979	42-VP				42-VP			
48	1219	36X-1	1	4	4	32.0	15	131804								
		36X-2	1	4	4	32.0	15	131805	48-V	9.5	4.3	156840		1.2	0.6	158658
		48X-1	1	2	22	12.0	5	132107	48-VP				48-VP			
		48X-2	1	3	4	12.0	5	132108								
54	1372	36X-1	1	4	4	32.0	15	131884								
		36X-2	1	4	3	32.0	15	131885	54-V	12.0	5.5	156845		1.5	0.7	158659
		54X-1	1	3	3	18.0	8	131980	54-VP				54-VP			
		54X-2	1	4	3	18.0	8	156050								
60	1524	36X-1	1	4	4	32.0	15	131884								
		36X-2	1	4	4	32.0	15	131985								
		60X-1	1	2	2	12.0	5	Center 156980	60-V	14.5	6.6	156846		1.6	0.7	158660
		60X-2	1	3	2	12.0	5	Center 156050	60-VP				60-VP			
		60X-1	1	2	2	14.0	6	Outside 156080								
		60X-2	1	2	2	14.0	6	Outside 156090								
66	1676	36X-1	1	4	4	32.0	15	131884								
		36X-2	1	4	4	32.0	15	131885								
		66X-1	1	2	2	12.0	5	Center 131980	66-V	17.0	7.7	156847		1.8	0.8	158661
		66X-2	1	3	2	12.0	5	Center 156050	66-VP				66-VP			
		66X-1	1	3	3	21.5	10	Outside 156080								
		66X-2	1	3	3	21.5	10	Outside 156090								
72	1829	36X-1	1	4	4	32.0	15	131884								
		36X-2	1	4	4	32.0	15	131885								
		72X-1	1	3	2	12.0	8	Center 131980	72-V	20.0	9.1	156848		2.0	1.0	158662
		72X-2	1	3	2	12.0	8	Center 156050	72-VP				72-VP			
		72X-1	1	3	3	21.5	10	Outside 156080								
		72X-2	1	3	-	21.5	10	Outside 156090								

Spare nut and bolt for shank plate: 7/8 x 2-3/4 *Center Bolt: 5/8 x 3

1650 Series Replacement Teeth

Description	Part No.	Application	Installation in-head	Installation in P-1650	Unit Wt. lbs. kg.	
dirt	1650*	140070	ordinary digging	all pockets	yes	1.0 0.5
hardfaced 1-side	1650-HF	140071	abrasive soil, impact	all pockets, HF-up	yes, HF-up	1.0 0.5
hardfaced 2-sides	1650-HFF	140072	abrasive soil, impact	all pockets	yes	1.2 0.6
hardfaced w/ carbide chips 1-side	1650-HFTC	140075	loose, abrasive soil	all pockets HF-up	yes, HF-up	1.3 0.7
hardfaced w/ carbide chips 2-sides	1650-HFFTC	140076	loose, abrasive soil	all pockets	yes	1.3 0.7
tungsten carbide (round)	1656	140400	high abrasion, frozen soil, low impact	all pockets	yes	1.3 0.7
tungsten carbide (flat)	1654	140406	high abrasion, frozen soil, low impact	all pockets	yes	1.2 0.6
tungsten carbide (flat)	1656F	140471	high abrasion, frozen soil, low impact	all pockets	yes	1.1 0.5
chisel-point	8550*	140100	rock, compacted soil	inside	inside	1.3 0.5
hardfaced 1-side chisel point	8550-HF	140100	high abrasion, compacted soil	pocket only,	pocket only,	1.0 0.5
tungsten carbide chisel point	8556	140105	abrasive soil, frozen ground	rib up	rib up	1.1 0.5
tungsten carbide round tooth	1640	140540	rock, abrasive soil, frozen ground	inside pocket only	inside pk only	1.4 0.7
bident (combination dirt/chisel point)	1851*	140080	dirt			1.2 0.6
hardfaced 1-side bident	1851-HF	140081	abrasive soil, impact	all pockets rib up	yes, rib up	1.2 0.6
hardfaced 2-sides bident	1851-HFF	140088	abrasive soil, impact			1.3 0.6
carbide chips hardfaced on bident	1851-HFTC	140083	loose abrasive soil (sand)			1.4 0.7
gage tooth	1652	140085	dirt	outside pockets	two outer	1.1 0.5
hardfaced gage	1652-HF	140086	abrasive soil, impact	only, flange out	pockets only,	1.1 0.5
carbide gage	1658	140417	highly abrasive soil, frozen ground		flange out	1.3 0.7
Ridge Breaker carbide tooth	RB-56	140407	high abrasion, frozen soil, low impact	all pockets	yes	1.3 0.7
Ridge Breaker carbide gage tooth	RB-58	140408	high abrasion, frozen soil, low impact	outside pockets	flange out	1.3 0.7
4' length	Ribd-Rubr-Lok	137601	Use for installing teeth. See instructions below			0.2 0.1
soft steel hammer	SH-85	137735				4.2 1.9
drift punch	1225	137750	For removing worn teeth. See instructions			0.8 0.4

* sold in packages of 50 only



Installation Instructions

1. Cut Ribd-Rubr Lock® as long as the tooth is wide at the tangs.

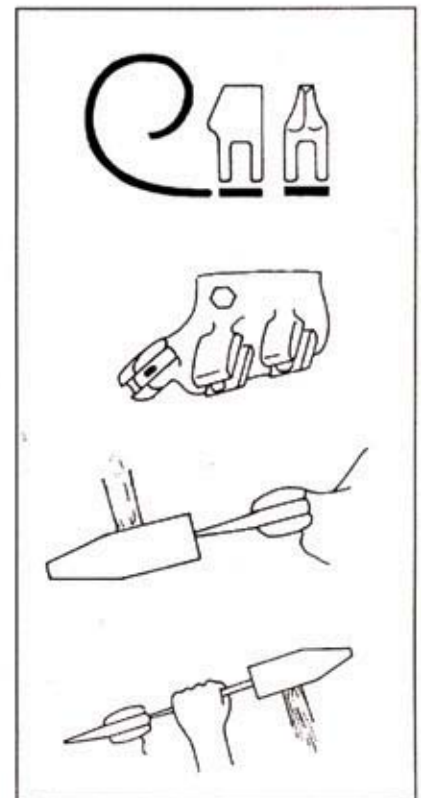
2. Insert evenly in holder. Note: water may be used as a lubricant to install Ribd-Rubr-Lok®, but NEVER use grease or oil.

3. Drive tooth fully in until seated in holder, using Pengo's SH-85 soft steel hammer. Compression of Ribd-Rubr-Lok® holds tooth firmly in pocket.

For tungsten carbide teeth; cushion carbides with softwood board before driving fully in.

4. Remove worn teeth with drift punch. Replace Ribd-Rubr-Lok® only if damaged.

Caution: Always wear eye protection when installing and removing teeth.



Pilot Bits

Description	Part No.	Screw Diameter	Approx. Wt. lbs. kg.		Used With	
SB-25 SB-25C SB-25HF SB-25CXC SB-25HFTC	131740 132135 132266 132758 132590	2-1/2"	0.8	0.4	Pengo® CS series augers	
SB-30 SB-30C SB-30HF SB-30CXC SB-30HFTC	131766 131764 132359 131765 133250	3" bolt & nut	1.0 0.1	0.5 .05		
SB-35 SB-35C SB-35HF SB-35CXC SB-35HFTC	133402 133403 133405 133404 133406	3-1/2"	2.0	0.9	Pengo® LD series augers	
SB-45 SB-45C SB-45HF SB-45CXC SB-45HFTC	133407 133408 133410 133409 133411	4-1/2"	3.0 0.1	1.4 .05		
3/8 x 1-1/2"	151671	spare bolt/nut	0.1	.05	SB-25-45	
SB-50 SB-50C SB-50HF SB-50CXC SB-50HFTC	131728 131751 132937 132423 132624	5"	3.0	1.4	Pengo® MD & HD series augers	
SB-60 SB-60C SB-60HF SB-60CXC SB-60HFTC	132029 132803 133251 133252 133254	6"	4.0	1.8		
SB-70 SB-70C SB-70HF SB-70CXC SB-70HFTC	132185 132368 132960 133255 133256	7"	4.0	1.8		
SB-80 SB-80C SB-80HF SB-80CXC SB-80HFTC	133579 132638 132257 133258 133259	8"	5.0	2.3		
SB-90 SB-90C SB-90HF SB-90CXC SB-90HFTC	132552 133260 132898 133261 133271	9"	5.0	2.3		
SB-100 SB-100C SB-100HF SB-100CXC SB-100HFTC	132363 132903 132747 133262 133272	10"	7.0	3.2		
FH-205 FH-205C FH-205HF FH-205CXC FH-205HFTC	157382 132260 131725 132825 132504	5"	3.0	1.4		
3/8 X 1-3/4"	151670	spare bolt/nut	0.1	.05		SB-50-100

Screw Bits

Pengo screw bits are specially designed to eliminate a dead spot at hole center and bore clean holes through semi-consolidated clay, loam, soft shale and similar formations. Carbide faced screw bits are for consolidated rock and abrasive soil, where impact is minimal. Hard-faced bits are for abrasive, high impact conditions.

SB-25



SB-35HF

SB-25C



SB-45

SB-HFTC



SB-80

SB-CXC



375-TCH-171

Carbide Drill Heads

Pengo® TCH series drill heads are recommended for all types of hard, uniform formations such as frozen ground, quartz and cemented conglomerates. TCH heads are designed to grind away non-fracturable rock by destroying its cohesive strength.

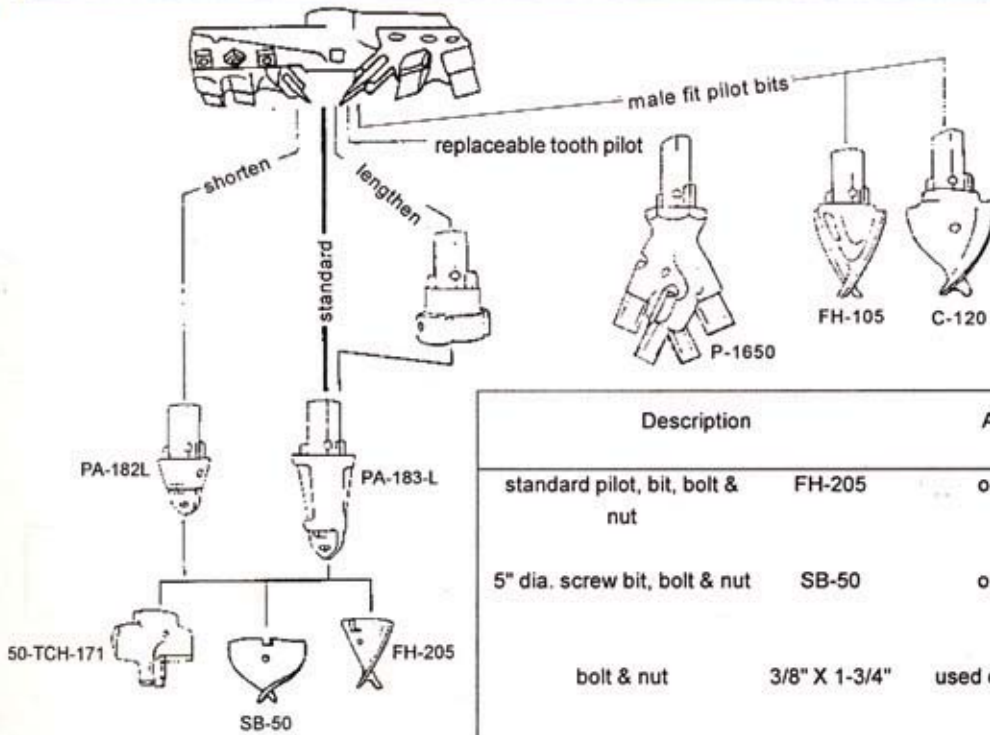
Warning: Avoid impact or dropping auger onto carbides, as they may shatter.

Description	Part No.	Diameter in.	Approx. Wt.		Used on LD & CS augers
			lbs.	kg.	
250-TCH-171*	132748	2-1/4	1.5	0.7	Used on MD & HD augers
375-TCH-171**	132355	3-3/4	3.3	1.5	
45-TCH-171**	199205	4-1/2	4.6	2.1	Used on MD & HD augers
50-TCH-171	133266	5	6.0	2.7	
55-TCH-171	133267	5-1/2	6.5	3.0	
65-TCH-171	133268	6-1/2	8.0	3.6	
85-TCH-171	133269	8-1/2	9.5	4.3	
95-TCH-171	133270	9-1/2	10.6	4.8	nut & bolt
3/8 X 3"	151672	-	0.1	0.5	

* Has 13/16" hex shank. All others fit L-series drivelugs

** L & M Drivelugs

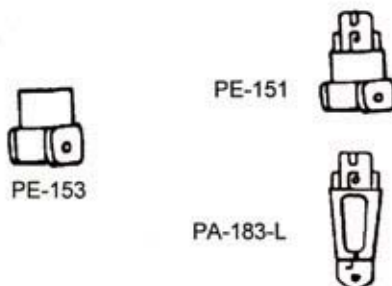
Pilot Bits



Alternate Pilot Bits and Adapters for Pengo MDOBH & HDOBH Heads

Description	Application	Approx. Wt.		Part No.	
		lbs.	kg.		
standard pilot, bit, bolt & nut	FH-205	ordinary dirt	3.0	1.4	157382
5" dia. screw bit, bolt & nut	SB-50	ordinary dirt	3.0	1.4	131728
bolt & nut	3/8" X 1-3/4"	used on above pilots	0.1	0.05	151670
5" carbide tipped drill head, bolt & nut	50-TCH-171	concrete, stone frozen ground	6.0	2.7	133267
bolt & nut	3/8 X 3"	used on above pavement	0.1	0.05	151672
replaceable tooth pilot, bolt & nut	P-1650	compacted soil, fracturable rock	20.0	9.1	131726
hardpan pilot, bit, bolt & nut	FH-105	dirt - install into head no adapter required	9.0	4.1	131729
cone pilot bit, bolt & nut	C-120	dirt - install into head no adapter required	8.0	3.6	131730
bolt & nut	1/2" X 4-1/2"	used on above pilots	0.5	0.2	151680

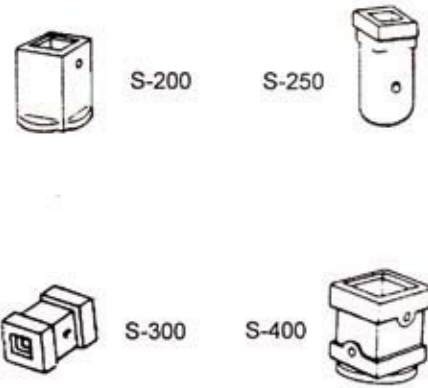
Pilot Bit Adapters



Description	Part No.	Approx. Wt.		
		lbs.	kg.	
Standard bit extension and bolt & nut	PE-151	10.5	4.9	152145
Pilot Bit Adapter	PE-153	10.5	4.9	152150
pilot bit adapter and bolt & nut	PA-183-L	8.3	3.8	151110
pilot bit adapter and bolt & nut	PA-182-L	4.3	1.9	151100
bolt & nut	1/2" X 4-1/2"	0.5	0.2	151680
repair drivelug	141-L	1.4	0.6	151970

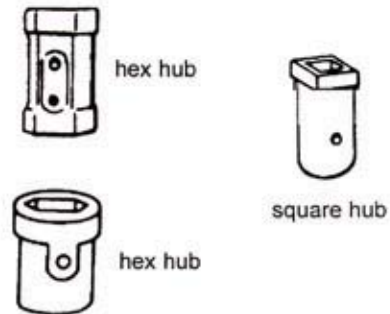
Hubs-HD

Description		Approx. Wt.		Part No.
		lbs.	kg.	
hub for 2" (51 mm) sq. drive	S-200	19.0	8.6	153990
hub for 2-1/4" (57 mm) sq. drive	S-225	17.5	7.9	154000
hub for 2-1/2" (64 mm) sq. drive	S-250	21.5	9.2	154010
hub for 3" (76 mm) sq. drive	S-300	40.0	17.2	154020
hub for 3-1/2" (89 mm) sq. drive	S-350	43.0	18.1	154030
hub for 4" (102 mm) sq. Kelly	S-400	65.0	29.0	154050
hub for 4-1/4" (108 mm) sq. Kelly	S-425	83.0	37.6	154231
hub for 4-1/2" (114 mm) sq. Kelly (Highway)	S-450H	51.0	23.1	154241
hub for 4-1/2" (114 mm) sq. Kelly	S-450	63.0	28.5	154246
Hub-drive/adaptor for attaching your auger to any size Kelly bar	Available on special order. Prices quoted on request.			



Hubs-MD

Description		Approx. Wt.		Part No.
		lbs.	kg.	
hub for 2" (51 mm) hex drive	H-200	6.5	3.0	154121
hub for 2-1/4" (57 mm) hex drive	H-225	12.8	5.8	154160
hub for 2-1/2" (64 mm) hex drive	H-250	11.0	5.0	154141
hub for 2-5/8" (67 mm) hex drive	H-262	10.5	4.9	154151
hub for 2" (51 mm) sq. drive	H-200	19.0	9.0	153990
hub for 2-1/4" (57 mm) sq. drive	H-225	17.5	8.0	154000
conn. pin for 2-1/4", 2-1/2", 2-5/8" hex; 2-1/4" sq. hub	3/4" X 6"	0.6	0.3	159965



Hubs Adapters -MD

Description		Approx. Wt.		Part No.
		lbs.	kg.	
2" hex hub x 2-9/16" round stem	200HX-256RD	14.9	6.8	557154
2" hex hub x 2-1/2" hex stem	200HX-250HX	18.3	8.4	132609
2" hex hub x 2-5/8" hex stem	200HX-262HX	19.8	9.1	133379
2-1/2" hex hub x 2" hex stem	250HX-200HX	23.6	10.8	132419
2-1/2" hex hub x 2-5/8" hex stem	200HX-262HX	28.8	13.2	132984
2-1/2" hex hub x 2" sq. stem	200HX-200S	29.4	13.5	132946
2-1/2" hex hub x 2-1/2" sq. stem	200HX-250S	29.4	13.5	132969

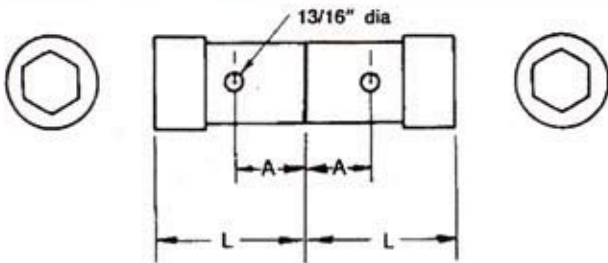
Extension Shafts - MD



Telescoping Extension

Description		Approx. Wt.		Part No.
		lbs.	kg.	
2x72" hex extension	H-200-72X	77	35	557147
2-1/4" x 72" hex extension	H-225-72X	102	47	557140
2-1/2" x 72" hex extension	H-250-72X	127	58	557131
2-1/2" x 60" hex extension	H-250-60X	108	49	557130
2-1/2" x 48" hex extension	H-250-48X	90	41	557129
2-1/2" x 36" hex extension	H-250-36X	72	33	557128
2-1/2" x 24" hex extension	H-250-24X	54	25	557127
2-1/2" x 12" hex extension	H-250-12X	35	16	557126
2-5/8" x 72" hex extension	H-262-72X	138	63	557124
2-5/8" x 60" hex extension	H-262-60X	117	54	134231
2-5/8" x 48" hex extension	H-262-48X	97	44	557122
2-5/8" x 36" hex extension	H-262-36X	77	35	557121
2-5/8" x 24" hex extension	H-262-24X	56	26	557120
2-5/8" x 12" hex extension	H-262-12X	36	17	557119
2" x 72" hex bar	HX-200	71	33	151125
2-1/4" x 72" hex bar	HX-225	89	41	151126
2-1/2" x 72" hex bar	HX-250	111	51	151127
2-5/8" x 72" hex bar	HX-262	122	56	151128

Hex Couplers - MD

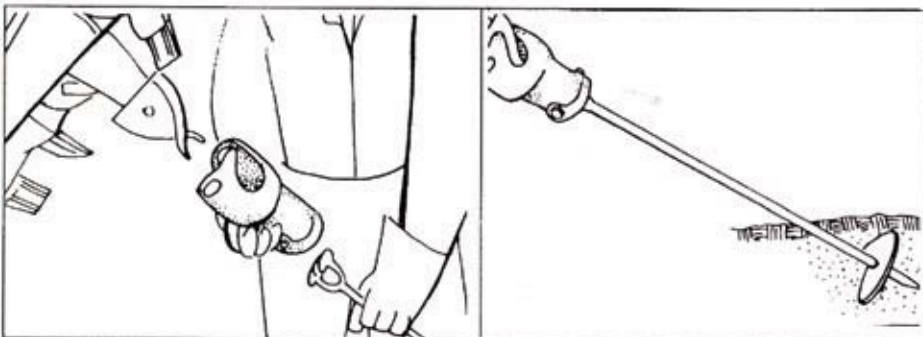


Description		A	L	Approx. Wt.		Part No.
				lbs.	kg.	
2" x 2"	H-200-C	3"	16"	13"	5.9	553400
2-1/4" x 2-1/4"	H-225-C	3"	12"	25"	11.3	553401
2-1/2" x 2-1/2"	H-250-C	5"	16"	22"	9.9	553402
2-5/8" x 2-5/8"	H-262-C	5"	16"	21"	9.5	553403

Screw Anchor Tool - MD

The SAT screw anchor tool is used for installing anchors, without having to remove the auger. Slip the tool over the pilot bit. (FH-205, FH-105, C-120, SB-50) as shown. Insert the thimble (eye) of the anchor into the end of the SAT-80. Screw anchor onto the ground.

Description	Approx. Wt.		Part No.
	lbs.	kg.	
SAT-80	16.0	7.3	157530

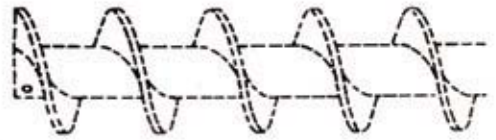


Caution: the SAT-80 is for use only on pressure diggers and only for installation, never for removal of anchors. Failure to meet these precautions may cause safety hazards.

Continuous Flight Sections

For Horizontal and Vertical Drilling

Any length and diameter section can be manufactured to your specifications. Call Pengo's sales department for a quote on price and delivery.



Drilling Components

For Continuous Flight Augers

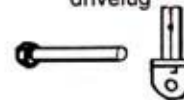
Weld Type Drivelug				
Description	Approx. Wt.		Used on	Part No.
	lbs.	kg.		
140-S	0.5	0.2	SB-25 OR SB-30	151940
141-M	1.0	0.4	SB-35 OR SB-45	151950
141-L	1.4	0.65	SB-50 OR SB-100, 375-TCH-171 TO 95-TCH-171	151970



drive pin



drivelug

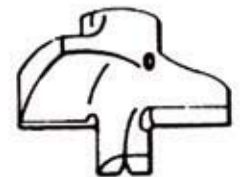


bolt & nut

Drivelug with Shank						
Description	Shank Connector		Approx. Wt.		Used on	Part No.
	in.	mm.	lbs.	kg.		
13/16 hex	21	SHX-140-S	0.6	0.3	SB-25 or SB-30	151980
1-1/8 hex	29	MHX-140-S	1.0	0.5	SB-25 or SB-30	151990
1-1/8 hex	29	MHX-141-M	1.6	0.7	SB-35 or SB-45	152000
1-5/8 hex	41	LHX-141-M	3.1	1.4	SB-35 or SB-45	152020
1-1/8 hex	29	MHX-141-L	2.3	1.0	SB-50 to SB-100,	152010
1-5/8 hex	41	LHX-141-L	3.8	1.7	375-TCH-171 to 95-TCH-171	152030

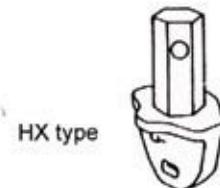


screw bit

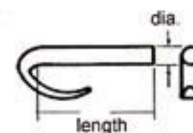


TCH head

Drive Pins								
Description	Auger Diam.		Dimensions		Fits Shank & Socket Size	Approx. Wt.		Part No.
	in.	mm.	dia.	OAL lgth.		lbs.	mm.	
2	51	DP-2	3/8"	1-1/2"	13/16 hex 21	0.1	0.04	157779
3	76	DP-3	1/2"	2"	1-1/8 hex 29	0.2	0.09	157780
4	102	DP-4	5/8"	2-3/4"	1-5/8 hex 41	0.3	0.14	157781
4-1/2	114	DP-4	5/8"	2-3/4"	1-5/8 hex 41	0.3	0.14	157781
5-1/2	140	DP-4	5/8"	2-3/4"	1-5/8 hex 41	0.3	0.14	157781
6-3/8	162	DP-5	5/8"	3-1/2"	1-5/8 hex 41	0.4	0.18	157782
7-3/8	187	DP-5	5/8"	3-1/2"	1-5/8 hex 41	0.4	0.18	157782
7-5/8	200	DP-5	5/8"	3-1/2"	1-5/8 hex 41	0.4	0.18	157782
8-7/8	225	DP-5	5/8"	3-1/2"	1-5/8 hex 41	0.4	0.18	157782
10-1/2	267	DP-5	5/8"	3-1/2"	1-5/8 hex 41	0.4	0.18	157782

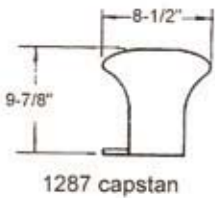
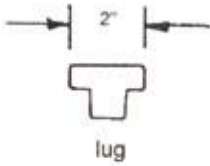
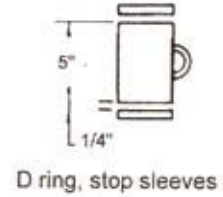
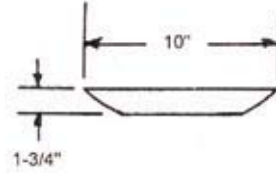
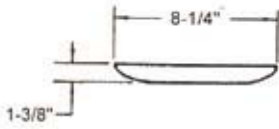


HX type



Storage Accessories

Optional unless noted below. These components come loose on the shaft, or can be located to customer's specifications.



Description		Approx. Wt.		Part No.
		lbs.	kg.	
dish	3-3/4 I.D. x 8-1/4 O.D.	4.5	2.0	151731
dish	3 I.D. x 8-1/4 O.D.	4.5	2.0	151732
dish	3-3/4 x 10 O.D.	6.8	3.0	151735
capstan	1287	21.0	9.5	151750
w/stop sleeves	D-ring	5.8	3.0	151760
sprocket	AS-35	4.8	2.0	151780
	2" lug	-	-	157700
	4" lug	-	-	157704

Notes:



PENGO - IOWA (Headquarters)

500 East Highway 10

Laurens, IA 50554 U.S.A.

(800) 599-0211 ● (712) 845-2540 ● Fax (712) 845-2497

E-mail: sales@pengoattachments.com

Visit us on the web: www.pengoattachments.com

PENGO - CALIFORNIA

1541 "M" Street

Newman, CA 95360 U.S.A.

(209) 862-1504 ● Fax (209) 862-1520

E-mail: sales@pengoattachments.com

PENGO - MINNESOTA

13369 - 60th ST., SW

Cokato, MN 55321 U.S.A.

(800) 421-0877 ● Fax (320) 286-5583

E-mail: sales@pengoattachments.com

PENGO AUTHORIZED DISTRIBUTOR