

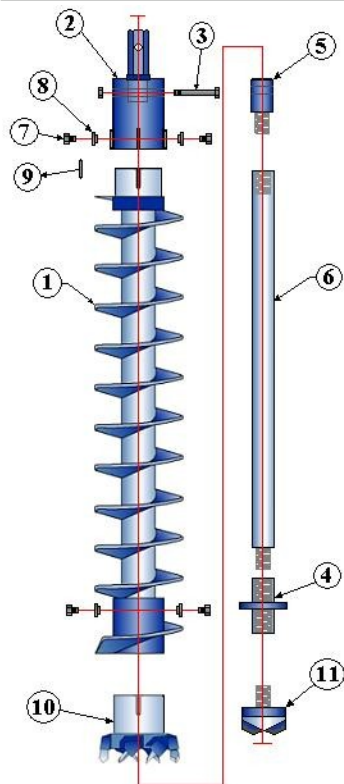


Hollow Stem Augers - Section 1

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Overview



Hollow Stem Augers are used extensively for **soil sampling** and **ground water monitoring** in industrial and commercial installations around the world. Unlike Solid Augers, drill rods can pass through the center of Hollow Stem Augers to take undisturbed soil samples for analysis or to install pipe for ground water monitoring. For ground water sampling, Hollow Stem Auger walls can be slotted, allowing water to pass through the center. Other applications demand that Hollow Stem Augers be used as **temporary casings** to prevent borehole walls from sloughing or caving in. Whatever the application, Mills Machine Company stands ready to meet our customers' needs.

Mills Machine Hollow Stem Augers are fully reversible through the use of drive keys that transfer the torque directly from auger to auger. The auger cutterhead has a slightly larger O.D. than the auger flighting to increase the life of the flighting edges and improve soil removal. The cutterhead and pilot bit break up and drill the material, while the auger flighting acts as a screw conveyor to move dirt from the bottom of the hole. The flighting pitch determines the efficiency and lifting speed of the auger.

Mills Machine Hollow Stem Auger Specifications

Mills Machine Co. has been manufacturing Hollow Stem Augers for over 20 years. Our augers feature either standard duty or heavy duty tapered tool joints, single or double lock bolt connections, and a double key or triple key drive system.

Mills Machine Hollow Stem Auger tubing and flighting are made from premium carbon steel, with 4142 heat-treated alloy steel tool joints. The flighting has continuous hardfacing, for durability, and is thicker than most of our competitors', with 3/8" thick being the standard for our stocked augers. Our stocked augers are 5 feet (1.5 meters) long and range from 2 1/4" I.D. to 12 1/4" I.D. (5 5/8" O.D. to 17" O.D.).

Mills Machine Standard Duty Hollow Stem Augers are designed for use in shallow hole applications and are recommended for depths up to seventy feet. For deeper drilling, Mills Machine Heavy Duty Hollow Stem Augers should be used.

Mills Machine Heavy Duty Hollow Stem Auger feature heavier, tapered tool joints and larger nuts, bolts, and drive keys. They are designed for use in depths exceeding 70 feet.

Variations in auger specifications are common. Mills Machine stands ready to meet those differences with a strong history of custom design and development that continues to establish us as a leader in the field. We carry an inventory of all the standard components and are ready to meet your special needs with a rapid design and delivery time.

Drilling Operation

For normal hole advancement, a pilot bit is inserted through the cutterhead to drill the center of the hole. The drill rod is bolted to the inside of the drive cap with a rod-to-cap adapter so that the pilot bit can turn in tandem with the augers.

Drill rods must be added each time an auger is added. In soft formations (dirt and sand), a tapered plug may be inserted into the end of the

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cutterhead to prevent material from going up inside the augers and to eliminate the use of drill rod. When the hole is completed, the plug may be knocked out the bottom of the auger string. The next step is to insert the monitoring screen and casing, which is then grouted into place to prevent contamination from the top of the hole.

Hollow Stem Auger Construction

The complete Hollow Stem Auger string is shown at the left. The numbers correspond with the numbers on each of the following pages of our stocked auger sizes. Our stocked hollow stem augers are 5 feet (1.5 meters) long and range from 2 1/4" I.D. to 12 1/4" I.D. (5 5/8" O.D. to 17" O.D.).

(1) The Hollow Stem Auger itself is made up of a premium carbon steel tube, 3/8" thick hard-faced carbon steel flighting, and 4142 heat-treated alloy steel tool joints. Mills Machine Standard Duty Hollow Stem Augers are designed for use in shallow hole applications up to 70 feet. For deeper drilling, Mills Machine Heavy Duty Hollow Stem Augers should be used, featuring heavier, tapered tool joints, larger bushing nuts, larger lock bolts, and larger drive keys, for added strength.

(2) The Auger Drive Cap connects the auger string to the rig's drive. It features a hex pin connection to match the rig's drive (1 5/8", 2", etc.) and box connection to match your auger string.

(3) The Nut & Bolt for the Rod-to-Cap Adapter holds the Rod-to-Cap Adapter in place inside of the drive cap.

(4) The Auger Pilot Bit Connector connects the internal drill rod to the auger pilot bit and also centers the pilot bit.

(5) The Rod-to-Cap-Adapter connects the drive cap to the drill rod string, enabling the drill rods and the pilot bit to turn in tandem with the auger string.

(6) Auger Drill Rod

(7) Auger Lock Bolts

(8) Auger Bushing Nuts

(9) Auger Drive Keys

(10) Auger Cutterheads cut the O.D. of the hole for the auger. Mills Machine cutterheads come in 6 different variations: Blade, Spade, Blade/Bullet, Spade/Bullet, Bullet, and 5-T. Read more about these in Section 2: Hollow Stem Auger Components, Auger Cutterheads.

(11) Auger Pilot Bits are connected to the drill rod with the Auger Pilot Bit Connector and fit into the center of the Auger Cutterhead to drill the center of the hole. Mills Machine pilot bits come in either Apex or Bullet types. Read more about these in Section 2: Hollow Stem Auger Components, Auger Pilot Bits.

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2 1/4" (57mm) Double Key Hollow Stem Auger -

All 2 1/4" (57mm) Double Key Hollow Stem Augers feature a continuous hardfaced flighting design, 3/8" (9.5mm) thick on the outer edge with a 5" pitch. The tool joints are made from 4142 alloy steel and feature single-bolt connections.

	Description	Part #	Weight	
			Lbs.	Kg.
Auger Section				
1	2 1/4" (57mm) DK Hollow Stem Auger 2 1/4" (57mm) I.D. x 5 5/8" (143mm) O.D. x 5' (1524mm)	A214200	52.0	23.5
2	2 1/4" (57mm) DK Drive Cap with 1 5/8" (41mm) Hex Pin	ADC214210	16.0	7.3
3	#2 Nut & Bolt for Rod-to-Cap Adapter	ANAB2	0.9	0.4
4	2 1/8" (54mm) Pilot Bit Connector (AW Box - A-Rod Box)	APBC218AWB	5.0	2.3
4	2 1/8" (54mm) Pilot Bit Connector (AWJ Box - A-Rod Box)	APBC218AWJB	5.0	2.3
5	Rod-to-Cap Adapter - AW Pin	ARCAAWP	3.0	1.4
5	Rod-to-Cap Adapter - AWJ Pin	ARCAAWJP	3.0	1.4
6	AW Drill Rod - 5' (1524mm)	ADR5AW	21.0	9.5
6	AWJ Drill Rod - 5' (1524mm)	ADR5AWJ	23.0	10.4
Auger Repair Parts				
1A	2 1/4" (57mm) DK Pin Tool Joint	ATJ2142P	6.0	2.7
1B	2 1/4" (57mm) DK Box Tool Joint	ATJ2142B	5.0	2.3
7	ALB2 Auger Lock Bolt	ALB2	0.3	0.1
8	ABN2 Auger Bushing Nut	ABN2	0.3	0.1
9	ADK1 Auger Drive Key	ADK1	0.3	0.1
Auger Cutterheads and Pilot Bits				
10	2 1/4" (57mm) DK Spade Cutterhead - 6 1/2" (165mm) O.D.	ACH214251	10.0	4.5
10	2 1/4" (57mm) DK Spade/Bullet Cutterhead - 6 1/2" (165mm) O.D.	ACH214261	9.0	4.1
10	2 1/4" (57mm) DK Bullet Cutterhead - 6 1/2" (165mm) O.D.	ACH214270	10.0	4.5
10	2 1/4" (57mm) DK 5-T Cutterhead - 6 1/2" (165mm) O.D.	ACH214271	0.0	0
11	2 1/8" (54mm) Apex Pilot Bit, A-Rod Pin	APB218APX	2.5	1.3

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3 1/4" (83mm) Double Key Hollow Stem Auger -

All 3 1/4" (83mm) Double Key Hollow Stem Augers feature a continuous hardfaced flying design, 3/8" (9.5mm) thick on the outer edge with a 5" pitch. The tool joints are made from 4142 alloy steel and feature single-bolt connections.

	Description	Part #	Weight	
			Lbs.	Kg.
Auger Section				
1	3 1/4" (83mm) DK Hollow Stem Auger 3 1/4" (83mm) I.D. x 6 5/8" (168mm) O.D. x 5' (1524mm)	A314200	81.0	36.7
2	3 1/4" (83mm) DK Drive Cap with 1 5/8" (41mm) Hex Pin	ADC314210	22.0	10
2	3 1/4" (83mm) DK Drive Cap with 2" (51mm) Hex Pin	ADC314211	23.0	10.4
3	#3 Nut & Bolt for Rod-to-Cap Adapter	ANAB3	0.9	0.4
4	3 1/8" (79mm) Pilot Bit Connector (AW Box - 4 Thd N-Rod Box)	APBC318AWB	11.0	5
4	3 1/8" (79mm) Pilot Bit Connector (AWJ Box - 4 Thd N-Rod Box)	APBC318WJB	12.0	5.4
4	3 1/8" (79mm) Pilot Bit Connector (NW Box - 4 Thd N-Rod Box)	APBC318NW	8.0	3.6
4	3 1/8" (79mm) Pilot Bit Connector (NWJ Box - 4 Thd N-Rod Box)	APBC318NWJ	11.0	5
5	Rod-to-Cap Adapter - AW Pin	ARCAAWP	3.0	1.4
5	Rod-to-Cap Adapter - AWJ Pin	ARCAAWJP	3.0	1.4
5	Rod-to-Cap Adapter - NW Pin	ARCANWP	7.0	3.2
5	Rod-to-Cap Adapter - NWJ Pin	ARCANWJP	6.0	2.7
6	AW Drill Rod - 5' (1524mm)	ADR5AW	21.0	9.5
6	AWJ Drill Rod - 5' (1524mm)	ADR5AWJ	23.0	10.4
6	NW Drill Rod - 5' (1524mm)	ADR5NW	31.0	14.1
6	NWJ Drill Rod - 5' (1524mm)	ADR5NWJ	35.0	15.9
Auger Repair Parts				
1A	3 1/4" (83mm) DK Pin Tool Joint	ATJ3142P	7.0	3.2
1B	3 1/4" (83mm) DK Box Tool Joint	ATJ3142B	6.0	2.7
7	ALB2 Auger Lock Bolt	ALB2	0.3	0.1
8	ABN2 Auger Bushing Nut	ABN2	0.3	0.1
9	ADK1 Auger Drive Key	ADK1	0.3	0.1
Auger Cutterheads and Pilot Bits				
10	3 1/4" (83mm) DK Blade Cutterhead - 7 1/2" (190mm) O.D.	ACH314250	11.0	5
10	3 1/4" (83mm) DK Spade Cutterhead - 7 1/2" (190mm) O.D.	ACH314251	12.0	5.5
10	3 1/4" (83mm) DK Blade/Bullet Cutterhead - 7 1/2" (190mm) O.D.	ACH314260	14.0	6.4
10	3 1/4" (83mm) DK Spade/Bullet Cutterhead - 7 1/2" (190mm) O.D.	ACH314261	9.0	4.1
10	3 1/4" (83mm) DK Bullet Cutterhead - 7 1/2" (190mm) O.D.	ACH314270	10.0	4.5
10	3 1/4" (83mm) DK 5-T Cutterhead - 7 1/2" (190mm) O.D.	ACH314271	0.0	0
11	3 1/8" (79mm) Apex Pilot Bit, 4-Thrd N-Rod Pin	APB318APX	2.5	1.3
11	3 1/8" (79mm) Bullet Pilot Bit, 4-Thrd N-Rod Pin	APB318BUL	5.0	2.3

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3 3/4" (95mm) Double Key Hollow Stem Auger -

All 3 3/4" (95mm) Double Key Hollow Stem Augers feature a continuous hardfaced flying design, 3/8" (9.5 mm) thick on the outer edge with a 5" pitch. The tool joints are made from 4142 alloy steel and feature single-bolt connections.

	Description	Part #	Weight	
			Lbs.	Kg.
Auger Section				
1	3 3/4" (95mm) DK Hollow Stem Auger 3 3/4" (95mm) I.D. x 7 1/8" (181mm) O.D. x 5' (1524mm)	A334200	81.0	36.7
2	3 3/4" (95mm) DK Drive Cap with 1 5/8" (41mm) Hex Pin	ADC334210	22.0	10
2	3 3/4" (95mm) DK Drive Cap with 2" (51mm) Hex Pin	ADC334211	25.0	11.3
3	#4 Nut & Bolt for Rod-to-Cap Adapter	ANAB4	0.9	0.4
4	3 5/8" (92mm) Pilot Bit Connector (AW Box - 2 3/8" API Reg. Box)	APBC358AWB	8.0	3.6
4	3 5/8" (92mm) Pilot Bit Connector (AWJ Box - 2 3/8" API Reg. Box)	APBC358AWJB	11.0	5
4	3 5/8" (92mm) Pilot Bit Connector (NW Box - 2 3/8" API Reg. Box)	APBC358NWB	11.0	5
4	3 5/8" (92mm) Pilot Bit Connector (NWJ Box - 2 3/8" API Reg. Box)	APBC358NWJ	12.0	5.4
5	Rod-to-Cap Adapter - AW Pin	ARCAAWP	3.0	1.4
5	Rod-to-Cap Adapter - AWJ Pin	ARCAAWJP	3.0	1.4
5	Rod-to-Cap Adapter - NW Pin	ARCANWP	7.0	3.2
5	Rod-to-Cap Adapter - NWJ Pin	ARCANWJP	6.0	2.7
6	AW Drill Rod - 5' (1524mm)	ADR5AW	21.0	9.5
6	AWJ Drill Rod - 5' (1524mm)	ADR5AWJ	23.0	10.4
6	NW Drill Rod - 5' (1524mm)	ADR5NW	31.0	14.1
6	NWJ Drill Rod - 5' (1524mm)	ADR5NWJ	35.0	15.9
Auger Repair Parts				
1A	3 3/4" (95mm) DK Pin Tool Joint	ATJ3342P	6.0	2.7
1B	3 3/4" (95mm) DK Box Tool Joint	ATJ3342B	5.0	2.3
7	ALB2 Auger Lock Bolt	ALB2	0.3	0.1
8	ABN2 Auger Bushing Nut	ABN2	0.3	0.1
9	ADK1 Auger Drive Key	ADK1	0.3	0.1
Auger Cutterheads and Pilot Bits				
10	3 3/4" (95mm) DK Blade Cutterhead - 8 1/2" (216mm) O.D.	ACH334250	16.0	7.3
10	3 3/4" (95mm) DK Spade Cutterhead - 8 1/2" (216mm) O.D.	ACH334251	20.0	9.1
10	3 3/4" (95mm) DK Blade/Bullet Cutterhead - 8 1/2" (216mm) O.D.	ACH334260	20.0	9.1
10	3 3/4" (95mm) DK Spade/Bullet Cutterhead - 8 1/2" (216mm) O.D.	ACH334261	22.0	10
10	3 3/4" (95mm) DK Bullet Cutterhead - 8 1/2" (216mm) O.D.	ACH334270	22.0	10
10	3 3/4" (95mm) DK 5-T Cutterhead - 8 1/2" (216mm) O.D.	ACH334271	22.0	10
11	3 5/8" (92mm) Apex Pilot Bit, 2 3/8" API Reg. Pin	APB358APX	5.0	2.3
11	3 5/8" (92mm) Bullet Pilot Bit, 2 3/8" API Reg. Pin	APB358BUL	8.0	4.1

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3 3/4" (95mm) Double Key Heavy Duty Hollow Stem Auger -

All 3 3/4" (95mm) Double Key Heavy Duty Hollow Stem Augers feature a continuous hardfaced flighting design, 3/8" (9.5mm) thick on the outer edge with a 6" pitch. The heavy duty, tapered tool joints are made from 4142 alloy steel and feature double-bolt connections.

Description	Part #	Weight	
		Lbs.	Kg.
Auger Section			
1 3 3/4" (95mm) DK HD Hollow Stem Auger 3 3/4" (95mm) I.D. x 7 1/8" (181mm) O.D. x 5' (1524mm)	A334200HD	84.0	38.1
2 3 3/4" (95mm) DK HD Drive Cap with 1 5/8" (41mm) Hex Pin	ADC334210HD	25.0	11.3
2 3 3/4" (95mm) DK HD Drive Cap with 2" (51mm) Hex Pin	ADC334211HD	28.0	12.7
3 #4 Nut & Bolt for Rod-to-Cap Adapter	ANAB4	0.9	0.4
4 3 5/8" (92mm) Pilot Bit Connector (AW Box - 2 3/8" API Reg. Box)	APBC358AWB	8.0	3.6
4 3 5/8" (92mm) Pilot Bit Connector (AWJ Box - 2 3/8" API Reg. Box)	APBC358AWJB	11.0	5
4 3 5/8" (92mm) Pilot Bit Connector (NW Box - 2 3/8" API Reg. Box)	APBC358NWB	11.0	5
4 3 5/8" (92mm) Pilot Bit Connector (NWJ Box - 2 3/8" API Reg. Box)	APBC358NWJ	12.0	5.4
5 Rod-to-Cap Adapter - AW Pin	ARCAAWP	3.0	1.4
5 Rod-to-Cap Adapter - AWJ Pin	ARCAAWJP	3.0	1.4
5 Rod-to-Cap Adapter - NW Pin	ARCANWP	7.0	3.2
5 Rod-to-Cap Adapter - NWJ Pin	ARCANWJP	6.0	2.7
6 AW Drill Rod - 5' (1524mm)	ADR5AW	21.0	9.5
6 AWJ Drill Rod - 5' (1524mm)	ADR5AWJ	23.0	10.4
6 NW Drill Rod - 5' (1524mm)	ADR5NW	31.0	14.1
6 NWJ Drill Rod - 5' (1524mm)	ADR5NWJ	35.0	15.9

Auger Repair Parts

1A 3 3/4" (95mm) DK HD Pin Tool Joint	ATJ3342PHD	8.0	3.6
1B 3 3/4" (95mm) DK HD Box Tool Joint	ATJ3342BHD	7.0	3.2
7 ALB3 Auger Lock Bolt	ALB3	0.4	0.2
8 ABN3 Auger Bushing Nut	ABN3	0.2	0.1
9 ADK2 Auger Drive Key	ADK2	0.3	0.1

Auger Cutterheads and Pilot Bits

10 3 3/4" (95mm) DK HD Blade Cutterhead - 8 1/2" (216mm) O.D.	ACH334250HD	16.0	7.3
10 3 3/4" (95mm) DK HD Spade Cutterhead - 8 1/2" (216mm) O.D.	ACH334251HD	20.0	9.1
10 3 3/4" (95mm) DK HD Blade/Bullet Cutterhead - 8 1/2" (216mm) O.D.	ACH334260HD	20.0	9.1
10 3 3/4" (95mm) DK HD Spade/Bullet Cutterhead - 8 1/2" (216mm) O.D.	ACH334261HD	22.0	10
10 3 3/4" (95mm) DK HD Bullet Cutterhead - 8 1/2" (216mm) O.D.	ACH334270HD	22.0	10
10 3 3/4" (95mm) DK HD 5-T Cutterhead - 8 1/2" (216mm) O.D.	ACH334271HD	22.0	10
11 3 5/8" (92mm) Apex Pilot Bit, 2 3/8" API Reg. Pin	APB358APX	5.0	2.3
11 3 5/8" (92mm) Bullet Pilot Bit, 2 3/8" API Reg. Pin	APB358BUL	8.0	4.1

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4 1/4" (108mm) Double Key Hollow Stem Auger -

All 4 1/4" (108mm) Double Key Hollow Stem Augers feature a continuous hardfaced flighting design, 3/8" (9.5mm) thick on the outer edge with a 5" (127mm) pitch. The tool joints are made from 4142 alloy steel and feature double-bolt connections.

	Description	Part #	Weight	
			Lbs.	Kg.
Auger Section				
1	4 1/4" (108mm) DK Hollow Stem Auger 4 1/4" (108mm) I.D. x 7 5/8" (194mm) O.D. x 5' (1524mm)	A414200	99.0	44.9
2	4 1/4" (108mm) DK Drive Cap with 1 5/8" (41mm) Hex Pin	ADC414210	22.0	10
2	4 1/4" (108mm) DK Drive Cap with 2" (51mm) Hex Pin	ADC414211	25.0	11.3
3	#4 Nut & Bolt for Rod-to-Cap Adapter	ANAB4	0.9	0.4
4	4 1/8" (105mm) Pilot Bit Connector (AW Box - 2 3/8" API Reg. Box)	APBC418AWB	8.0	3.6
4	4 1/8" (105mm) Pilot Bit Connector (AWJ Box - 2 3/8" API Reg. Box)	APBC418AWJB	11.0	5
4	4 1/8" (105mm) Pilot Bit Connector (NW Box - 2 3/8" API Reg. Box)	APBC418NWB	11.0	5
4	4 1/8" (105mm) Pilot Bit Connector (NWJ Box - 2 3/8" API Reg. Box)	APBC418NWJB	12.0	5.4
5	Rod-to-Cap Adapter - AW Pin	ARCAAWP	3.0	1.4
5	Rod-to-Cap Adapter - AWJ Pin	ARCAAWJP	3.0	1.4
5	Rod-to-Cap Adapter - NW Pin	ARCANWP	7.0	3.2
5	Rod-to-Cap Adapter - NWJ Pin	ARCANWJP	6.0	2.7
6	AW Drill Rod - 5' (1524mm)	ADR5AW	21.0	9.5
6	AWJ Drill Rod - 5' (1524mm)	ADR5AWJ	23.0	10.4
6	NW Drill Rod - 5' (1524mm)	ADR5NW	31.0	14.1
6	NWJ Drill Rod - 5' (1524mm)	ADR5NWJ	35.0	15.9
Auger Repair Parts				
1A	4 1/4" (108mm) DK Pin Tool Joint	ATJ4142P	8.0	3.6
1B	4 1/4" (108mm) DK Box Tool Joint	ATJ4142B	7.0	3.2
7	ALB2 Auger Lock Bolt	ALB2	0.3	0.1
8	ABN2 Auger Bushing Nut	ABN2	0.3	0.1
9	ADK1 Auger Drive Key	ADK1	0.3	0.1
Auger Cutterheads and Pilot Bits				
10	4 1/4" (108mm) DK Blade Cutterhead - 8 3/4" (222mm) O.D.	ACH414250	16.0	7.3
10	4 1/4" (108mm) DK Spade Cutterhead - 8 3/4" (222mm) O.D.	ACH414251	20.0	9.1
10	4 1/4" (108mm) DK Blade/Bullet Cutterhead - 8 3/4" (222mm) O.D.	ACH414260	20.0	9.1
10	4 1/4" (108mm) DK Spade/Bullet Cutterhead - 8 3/4" (222mm) O.D.	ACH414261	22.0	10
10	4 1/4" (108mm) DK Bullet Cutterhead - 8 3/4" (222mm) O.D.	ACH414270	22.0	10
10	4 1/4" (108mm) DK 5-T Cutterhead - 8 3/4" (222mm) O.D.	ACH414271	22.0	10
11	4 1/8" (105mm) Apex Pilot Bit, 2 3/8" API Reg. Pin	APB418APX	5.0	2.3
11	4 1/8" (105mm) Bullet Pilot Bit, 2 3/8" API Reg. Pin	APB418BUL	8.0	4.1

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1-8

4 1/4" (108mm) Double Key Heavy Duty Hollow Stem Auger -

All 4 1/4" (108mm) Double Key Heavy Duty Hollow Stem Augers feature a continuous hardfaced flying design, 3/8" (9.5mm) thick on the outer edge with a 6" pitch. The heavy duty, tapered tool joints are made from 4142 alloy steel and feature double-bolt connections.

	Description	Part #	Weight	
			Lbs.	Kg.
Auger Section				
1	4 1/4" (108mm) DK HD Hollow Stem Auger 4 1/4" (108mm) I.D. x 7 5/8" (194mm) O.D. x 5' (1524mm)	A414200HD	103.0	48.9
2	4 1/4" (108mm) DK HD Drive Cap with 1 5/8" (41mm) Hex Pin	ADC414210HD	25.0	11.3
2	4 1/4" (108mm) DK HD Drive Cap with 2" (51mm) Hex Pin	ADC414211HD	28.0	12.7
3	#4 Nut & Bolt for Rod-to-Cap Adapter	ANAB4	0.9	0.4
4	4 1/8" (105mm) Pilot Bit Connector (AW Box - 2 3/8" API Reg. Box)	APBC418AWB	8.0	3.6
4	4 1/8" (105mm) Pilot Bit Connector (AWJ Box - 2 3/8" API Reg. Box)	APBC418AWJB	11.0	5
4	4 1/8" (105mm) Pilot Bit Connector (NW Box - 2 3/8" API Reg. Box)	APBC418NWB	11.0	5
4	4 1/8" (105mm) Pilot Bit Connector (NWJ Box - 2 3/8" API Reg. Box)	APBC418NWJB	12.0	5.4
5	Rod-to-Cap Adapter - AW Pin	ARCAAWP	3.0	1.4
5	Rod-to-Cap Adapter - AWJ Pin	ARCAAWJP	3.0	1.4
5	Rod-to-Cap Adapter - NW Pin	ARCANWP	7.0	3.2
5	Rod-to-Cap Adapter - NWJ Pin	ARCANWJP	6.0	2.7
6	AW Drill Rod - 5' (1524mm)	ADR5AW	21.0	9.5
6	AWJ Drill Rod - 5' (1524mm)	ADR5AWJ	23.0	10.4
6	NW Drill Rod - 5' (1524mm)	ADR5NW	31.0	14.1
6	NWJ Drill Rod - 5' (1524mm)	ADR5NWJ	35.0	15.9
Auger Repair Parts				
1A	4 1/4" (108mm) DK HD Pin Tool Joint	ATJ4142PHD	12.0	7.6
1B	4 1/4" (108mm) DK HD Box Tool Joint	ATJ4142BHD	11.0	7.2
7	ALB3 Auger Lock Bolt	ALB3	0.4	0.2
8	ABN3 Auger Bushing Nut	ABN3	0.2	0.1
9	ADK2 Auger Drive Key	ADK2	0.3	0.1
Auger Cutterheads and Pilot Bits				
10	4 1/4" (108mm) DK HD Blade Cutterhead - 8 3/4" (222mm) O.D.	ACH414250HD	16.0	7.3
10	4 1/4" (108mm) DK HD Spade Cutterhead - 8 3/4" (222mm) O.D.	ACH414251HD	20.0	9.1
10	4 1/4" (108mm) DK HD Blade/Bullet Cutterhead - 8 3/4" (222mm) O.D.	ACH414260HD	20.0	9.1
10	4 1/4" (108mm) DK HD Spade/Bullet Cutterhead - 8 3/4" (222mm) O.D.	ACH414261HD	22.0	10
10	4 1/4" (108mm) DK HD Bullet Cutterhead - 8 3/4" (222mm) O.D.	ACH414270HD	22.0	10
10	4 1/4" (108mm) DK HD 5-T Cutterhead - 8 3/4" (222mm) O.D.	ACH414271HD	22.0	10
11	4 1/8" (105mm) Apex Pilot Bit, 2 3/8" API Reg. Pin	APB418APX	5.0	2.3
11	4 1/8" (105mm) Bullet Pilot Bit, 2 3/8" API Reg. Pin	APB418BUL	8.0	4.1

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1-9

6 1/4" (159mm) Double Key Hollow Stem Auger -

All 6 1/4" (159mm) Double Key Hollow Stem Augers feature a continuous hardfaced flighting design, 3/8" (9.5mm) thick on the outer edge with a 6" (152mm) pitch. The tool joints are made from 4142 heat-treated alloy steel and feature double-bolt connections.

	Description	Part #	Weight	
			Lbs.	Kg.
Auger Section				
1	6 1/4" (159mm) DK Hollow Stem Auger 6 1/4" (159mm) I.D. x 9 5/8" (244mm) O.D. x 5' (1524mm)	A614200	131.0	59.4
2	6 1/4" (159mm) DK Drive Cap with 1 5/8" (41mm) Hex Pin	ADC614210	39.0	17.7
2	6 1/4" (159mm) DK Drive Cap with 2" (51mm) Hex Pin	ADC614211	42.0	19.1
3	#6 Nut & Bolt for Rod-to-Cap Adapter	ANAB6	1.3	0.4
4	6 1/8" (156mm) Pilot Bit Connector (AW Box - 3 1/2" API Reg. Box)	APBC618AWB	8.0	3.6
4	6 1/8" (156mm) Pilot Bit Connector (AWJ Box - 3 1/2" API Reg. Box)	APBC618AWJB	11.0	5
4	6 1/8" (156mm) Pilot Bit Connector (NW Box - 3 1/2" API Reg. Box)	APBC618NWB	11.0	5
4	6 1/8" (156mm) Pilot Bit Connector (NWJ Box - 3 1/2" API Reg. Box)	APBC618NWJB	12.0	5.4
5	Rod-to-Cap Adapter - AW Pin	ARCAAWP	3.0	1.4
5	Rod-to-Cap Adapter - AWJ Pin	ARCAAWJP	3.0	1.4
5	Rod-to-Cap Adapter - NW Pin	ARCANWP	7.0	3.2
5	Rod-to-Cap Adapter - NWJ Pin	ARCANWJP	6.0	2.7
6	AW Drill Rod - 5' (1524mm)	ADR5AW	21.0	9.5
6	AWJ Drill Rod - 5' (1524mm)	ADR5AWJ	23.0	10.4
6	NW Drill Rod - 5' (1524mm)	ADR5NW	31.0	14.1
6	NWJ Drill Rod - 5' (1524mm)	ADR5NWJ	35.0	15.9
Auger Repair Parts				
1A	6 1/4" (159mm) DK Pin Tool Joint	ATJ6142P	13.0	5.9
1B	6 1/4" (159mm) DK Box Tool Joint	ATJ6142B	12.0	5.4
7	ALB2 Auger Lock Bolt	ALB2	0.3	0.1
8	ABN2 Auger Bushing Nut	ABN2	0.3	0.1
9	ADK1 Auger Drive Key	ADK1	0.3	0.1
Auger Cutterheads and Pilot Bits				
10	6 1/4" (159mm) DK Blade Cutterhead - 11" (279mm) O.D.	ACH614250	23.0	10.4
10	6 1/4" (159mm) DK Spade Cutterhead - 11" (279mm) O.D.	ACH614251	22.0	10
10	6 1/4" (159mm) DK Blade/Bullet Cutterhead - 11" (279mm) O.D.	ACH614260	28.0	12.7
10	6 1/4" (159mm) DK Spade/Bullet Cutterhead - 11" (279mm) O.D.	ACH614261	27.0	12.2
10	6 1/4" (159mm) DK Bullet Cutterhead - 11" (279mm) O.D.	ACH614270	29.0	13.2
10	6 1/4" (159mm) DK 5-T Cutterhead - 11" (279mm) O.D.	ACH6142718	0.0	
11	6 1/8" (156mm) Apex Pilot Bit, 3 1/2" API Reg. Pin	APB618APX	0.0	
11	6 1/8" (156mm) Bullet Pilot Bit, 3 1/2" API Reg. Pin	APB618BUL	0.0	

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1-10

6 1/4" (159mm) Double Key Heavy Duty Hollow Stem Auger -

All 6 1/4" (159mm) Double Key Heavy Duty Hollow Stem Augers feature a continuous hardfaced flying design, 3/8" (9.5mm) thick on the outer edge with a 6" (152mm) pitch. The heavy duty, tapered tool joints are made from 4142 heat-treated alloy steel and feature double-bolt connections.

	Description	Part #	Weight	
			Lbs.	Kg.
Auger Section				
1	6 1/4" (159mm) DK HD Hollow Stem Auger 6 1/4" (159mm) I.D. x 9 5/8" (244mm) O.D. x 5' (1524mm)	A614200HD	135.0	61.2
2	6 1/4" (159mm) DK HD Drive Cap with 1 5/8" (41mm) Hex Pin	ADC614210HD	40.0	18.1
2	6 1/4" (159mm) DK HD Drive Cap with 2" (51mm) Hex Pin	ADC614211HD	43.0	19.5
3	#6 Nut & Bolt for Rod-to-Cap Adapter	ANAB6	1.3	0.4
4	6 1/8" (156mm) Pilot Bit Connector (AW Box - 3 1/2" API Reg. Box)	APBC618AWB	8.0	3.6
4	6 1/8" (156mm) Pilot Bit Connector (AWJ Box - 3 1/2" API Reg. Box)	APBC618AWJB	11.0	5
4	6 1/8" (156mm) Pilot Bit Connector (NW Box - 3 1/2" API Reg. Box)	APBC618NWB	11.0	5
4	6 1/8" (156mm) Pilot Bit Connector (NWJ Box - 3 1/2" API Reg. Box)	APBC618NWJB	12.0	5.4
5	Rod-to-Cap Adapter - AW Pin	ARCAAWP	3.0	1.4
5	Rod-to-Cap Adapter - AWJ Pin	ARCAAWJP	3.0	1.4
5	Rod-to-Cap Adapter - NW Pin	ARCANWP	7.0	3.2
5	Rod-to-Cap Adapter - NWJ Pin	ARCANWJP	6.0	2.7
6	AW Drill Rod - 5' (1524mm)	ADR5AW	21.0	9.5
6	AWJ Drill Rod - 5' (1524mm)	ADR5AWJ	23.0	10.4
6	NW Drill Rod - 5' (1524mm)	ADR5NW	31.0	14.1
6	NWJ Drill Rod - 5' (1524mm)	ADR5NWJ	35.0	15.9

Auger Repair Parts

1A	6 1/4" (210mm) DK HD Pin Tool Joint	ATJ6142PHD	13.0	5.9
1B	6 1/4" (210mm) DK HD Box Tool Joint	ATJ6142BHD	12.0	5.4
7	ALB3 Auger Lock Bolt	ALB3	0.4	0.2
8	ABN3 Auger Bushing Nut	ABN3	0.2	0.1
9	ADK2 Auger Drive Key	ADK2	0.3	0.1

Auger Cutterheads and Pilot Bits

10	6 1/4" (159mm) DK HD Blade Cutterhead - 11" (279mm) O.D.	ACH614250HD	23.0	10.4
10	6 1/4" (159mm) DK HD Spade Cutterhead - 11" (279mm) O.D.	ACH614251HD	22.0	10
10	6 1/4" (159mm) DK HD Blade/Bullet Cutterhead - 11" (279mm) O.D.	ACH614260HD	28.0	12.7
10	6 1/4" (159mm) DK HD Spade/Bullet Cutterhead - 11" (279mm) O.D.	ACH614261HD	27.0	12.2
10	6 1/4" (159mm) DK HD Bullet Cutterhead - 11" (279mm) O.D.	ACH614270HD	29.0	13.2
10	6 1/4" (159mm) DK HD 5-T Cutterhead - 11" (279mm) O.D.	ACH614271HD8	0.0	
11	6 1/8" (156mm) Apex Pilot Bit, 3 1/2" API Reg. Pin	APB618APX	0.0	
11	6 1/8" (156mm) Bullet Pilot Bit, 3 1/2" API Reg. Pin	APB618BUL	0.0	

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1-11

7 1/4" (184mm) Double Key Heavy Duty Hollow Stem Auger -

All 7 1/4" (184mm) Double Key Hollow Stem Augers feature a continuous hardfaced flighting design, 3/8" (9.5mm) thick on the outer edge with a 6" (152mm) pitch. The heavy duty, tapered tool joints are made from 4142 alloy steel and feature double-bolt connections.

	Description	Part #	Weight	
			Lbs.	Kg.
Auger Section				
1	7 1/4" (184mm) DK HD Hollow Stem Auger 7 1/4" (184mm) I.D. x 11" (279mm) O.D. x 5' (1524mm)	A714200HD	0.0	
2	7 1/4" (184mm) DK HD Drive Cap with 2" (51mm) Hex Pin	ADC714211HD	39.0	17.6
3	#7 Nut & Bolt for Rod-to-Cap Adapter	ANAB7	1.0	0.5
4	7 1/8" (181mm) Pilot Bit Connector (NW Box - 3 1/2" API Reg. Box)	APBC718NWB	11.0	5.0
4	7 1/8" (181mm) Pilot Bit Connector (NWJ Box - 3 1/2" API Reg. Box)	APBC718NWJB	12.0	5.4
5	Rod-to-Cap Adapter - NW Pin	ARCANWP	7.0	3.2
5	Rod-to-Cap Adapter - NWJ Pin	ARCANWJP	6.0	2.7
6	NW Drill Rod - 5' (1524mm)	ADR5NW	31.0	14.1
6	NWJ Drill Rod - 5' (1524mm)	ADR5NWJ	35.0	15.9
Auger Repair Parts				
1A	7 1/4" (184mm) DK HD Pin Tool Joint	ATJ7142PHD	12.0	5.4
1B	7 1/4" (184mm) DK HD Box Tool Joint	ATJ7142BHD	11.0	5.0
7	ALB3 Auger Lock Bolt	ALB3	0.4	0.2
8	ABN3 Auger Bushing Nut	ABN3	0.2	0.1
9	ADK2 Auger Drive Key	ADK2	0.3	0.1
Auger Cutterheads and Pilot Bits				
10	7 1/4" (184mm) DK HD Blade Cutterhead - 12" (310mm) O.D.	ACH714250HD	33.0	15.0
10	7 1/4" (184mm) DK HD Spade Cutterhead - 12" (310mm) O.D.	ACH714251HD	33.0	15.0
10	7 1/4" (184mm) DK HD Blade/Bullet Cutterhead - 12" (310mm) O.D.	ACH714260HD	38.0	17.2
10	7 1/4" (184mm) DK HD Spade/Bullet Cutterhead - 12" (310mm) O.D.	ACH714261HD	35.0	15.9
10	7 1/4" (184mm) DK HD Bullet Cutterhead - 12" (310mm) O.D.	ACH714270HD	35.0	15.9
11	7 1/8" (181mm) Apex Pilot Bit, 3 1/2" API Reg. Pin	APB718APX	22.0	10.0
11	7 1/8" (181mm) Bullet Pilot Bit, 3 1/2" API Reg. Pin	APB718BUL	27.0	12.2

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1-12

8 1/4" (210mm) Double Key Heavy Duty Hollow Stem Auger -

All 8 1/4" (210mm) Double Key Hollow Stem Augers feature a continuous hardfaced flighting design, 3/8" (9.5 mm) thick on the outer edge with a 6" (152mm) pitch. The heavy duty, tapered tool joints are made from 4142 alloy steel and feature double-bolt connections.

Description	Part #	Weight	
		Lbs.	Kg.
Auger Section			
1 8 1/4" (210mm) DK HD Hollow Stem Auger 8 1/4" (210mm) I.D. x 12" (305mm) O.D. x 5' (1524mm)	A814200HD	183.0	83.0
2 8 1/4" (210mm) DK HD Drive Cap with 2" (51mm) Hex Pin	ADC814211HD	42.0	19.1
3 #4 Nut & Bolt for Rod-to-Cap Adapter	ANAB4	0.9	0.4
4 8 1/8" (206mm) Pilot Bit Connector (NW Box - 3 1/2" API Reg. Box)	APBC818NWB	11.0	5.0
4 8 1/8" (206mm) Pilot Bit Connector (NWJ Box - 3 1/2" API Reg. Box)	APBC818NWJB	12.0	5.4
5 Rod-to-Cap Adapter - NW Pin	ARCANWP	7.0	3.2
5 Rod-to-Cap Adapter - NWJ Pin	ARCANWJP	6.0	2.7
6 NW Drill Rod - 5' (1524mm)	ADR5NW	31.0	14.1
6 NWJ Drill Rod - 5' (1524mm)	ADR5NWJ	35.0	15.9
Auger Repair Parts			
1A 8 1/4" (210mm) DK HD Pin Tool Joint	ATJ8142PHD	13.0	5.9
1B 8 1/4" (210mm) DK HD Box Tool Joint	ATJ8142BHD	12.0	5.4
7 ALB3 Auger Lock Bolt	ALB3	0.4	0.2
8 ABN3 Auger Bushing Nut	ABN3	0.2	0.1
9 ADK2 Auger Drive Key	ADK2	0.3	0.1
Auger Cutterheads and Pilot Bits			
10 8 1/4" (210mm) DK HD Blade Cutterhead - 13" (330mm) O.D.	ACH814250HD	35.0	15.9
10 8 1/4" (210mm) DK HD Spade Cutterhead - 13" (330mm) O.D.	ACH814251HD	35.0	15.9
10 8 1/4" (210mm) DK HD Blade/Bullet Cutterhead - 13" (330mm) O.D.	ACH814260HD	40.0	18.1
10 8 1/4" (210mm) DK HD Spade/Bullet Cutterhead - 13" (330mm) O.D.	ACH814261HD	37.0	16.8
10 8 1/4" (210mm) DK HD Bullet Cutterhead - 13" (330mm) O.D.	ACH814270HD	37.0	16.8
11 8 1/8" (206mm) Apex Pilot Bit, 3 1/2" API Reg. Pin	APB818APX	22.0	10.0
11 8 1/8" (206mm) Bullet Pilot Bit, 3 1/2" API Reg. Pin	APB818BUL	27.0	12.2

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1-13

3 1/4" (83mm) Triple Key Hollow Stem Auger -

All 3 1/4" (83mm) Triple Key Hollow Stem Augers feature a continuous hardfaced flighting design, 3/8" (9.5mm) thick on the outer edge with a 5" (117mm) pitch. The tool joints are made from 4142 alloy steel and feature double-bolt connections.

	Description	Part #	Weight	
			Lbs.	Kg.
Auger Section				
1	3 1/4" (83mm) TK Hollow Stem Auger 3 1/4" (83mm) I.D. x 6 5/8" (169mm) O.D. x 5' (1525mm)	A314300	81.0	36.7
2	3 1/4" (83mm) TK Drive Cap with 1 5/8" (41mm) Hex Pin	ADC314310	21.0	9.5
2	3 1/4" (83mm) TK Drive Cap with 2" (51mm) Hex Pin	ADC314311	25.0	11.3
3	#3 Nut & Bolt for Rod-to-Cap Adapter	ANAB3	0.9	0.4
4	3 1/8" (79mm) Pilot Bit Connector (AW Box - 4 Thd N-Rod Box)	APBC318AWB	11.0	5
4	3 1/8" (79mm) Pilot Bit Connector (AWJ Box - 4 Thd N-Rod Box)	APBC318WJB	12.0	5.4
4	3 1/8" (79mm) Pilot Bit Connector (NW Box - 4 Thd N-Rod Box)	APBC318NW	8.0	3.6
4	3 1/8" (79mm) Pilot Bit Connector (NWJ Box - 4 Thd N-Rod Box)	APBC318NWJ	11.0	5
5	Rod-to-Cap Adapter - AW Pin	ARCAAWP	3.0	1.4
5	Rod-to-Cap Adapter - AWJ Pin	ARCAAWJP	3.0	1.4
5	Rod-to-Cap Adapter - NW Pin	ARCANWP	7.0	3.2
5	Rod-to-Cap Adapter - NWJ Pin	ARCANWJP	6.0	2.7
6	AW Drill Rod - 5' (1524mm)	ADR5AW	21.0	9.5
6	AWJ Drill Rod - 5' (1524mm)	ADR5AWJ	23.0	10.4
6	NW Drill Rod - 5' (1524mm)	ADR5NW	31.0	14.1
6	NWJ Drill Rod - 5' (1524mm)	ADR5NWJ	35.0	15.9
Auger Repair Parts				
1A	3 1/4" (83mm) TK Pin Tool Joint	ATJ3143P	6.0	2.7
1B	3 1/4" (83mm) TK Box Tool Joint	ATJ3143B	5.0	2.3
7	ALB1 Auger Lock Bolt	ALB1	0.3	0.1
8	ABN1 Auger Bushing Nut	ABN1	0.2	0.1
9	ADK1 Auger Drive Key	ADK1	0.3	0.1
Auger Cutterheads and Pilot Bits				
10	3 1/4" (83mm) TK Blade Cutterhead - 7 1/2" (190mm) O.D.	ACH314350	11.0	5.0
10	3 1/4" (83mm) TK Spade Cutterhead - 7 1/2" (190mm) O.D.	ACH314351	12.0	5.5
10	3 1/4" (83mm) TK Blade/Bullet Cutterhead - 7 1/2" (190mm) O.D.	ACH314360	14.0	6.4
10	3 1/4" (83mm) TK Spade/Bullet Cutterhead - 7 1/2" (190mm) O.D.	ACH314361	12.0	5.5
10	3 1/4" (83mm) TK Bullet Cutterhead - 7 1/2" (190mm) O.D.	ACH314370	12.0	5.5
10	3 1/4" (83mm) TK 5-T Cutterhead - 7 1/2" (190mm) O.D.	ACH314371	0.0	
11	3 1/8" (79mm) Apex Pilot Bit, 4-Thrd N-Rod Pin	APB318APX	2.5	1.3
11	3 1/8" (79mm) Bullet Pilot Bit, 4-Thrd N-Rod Pin	APB318BUL	5.0	2.3

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1-14

4 1/4" (108mm) Triple Key Hollow Stem Auger -

All 4 1/4" (108mm) Triple Key Hollow Stem Augers feature a continuous hardfaced flying design, 3/8" (9.5mm) thick on the outer edge with a 5" (117mm) pitch. The tool joints are made from 4142 alloy steel and feature double-bolt connections.

	Description	Part #	Weight	
			Lbs.	Kg.
Auger Section				
1	4 1/4" (108mm) TK Hollow Stem Auger 4 1/4" (108mm) I.D. x 7 5/8" (194mm) O.D. x 5' (1525mm)	A414300	103.0	46.7
2	4 1/4" (108mm) TK Drive Cap with 1 5/8" (41mm) Hex Pin	ADC414310	26.0	11.8
2	4 1/4" (108mm) TK Drive Cap with 2" (51mm) Hex Pin	ADC414311	30.0	13.6
3	#4 Nut & Bolt for Rod-to-Cap Adapter	ANAB4	0.9	0.4
4	4 1/8" (105mm) Pilot Bit Connector (AW Box - 2 3/8" API Reg. Box)	APBC418AWB	8.0	3.6
4	4 1/8" (105mm) Pilot Bit Connector (AWJ Box - 2 3/8" API Reg. Box)	APBC418AWJB	11.0	5
4	4 1/8" (105mm) Pilot Bit Connector (NW Box - 2 3/8" API Reg. Box)	APBC418NWB	11.0	5
4	4 1/8" (105mm) Pilot Bit Connector (NWJ Box - 2 3/8" API Reg. Box)	APBC418NWJB	12.0	5.4
5	Rod-to-Cap Adapter - AW Pin	ARCAAWP	3.0	1.4
5	Rod-to-Cap Adapter - AWJ Pin	ARCAAWJP	3.0	1.4
5	Rod-to-Cap Adapter - NW Pin	ARCANWP	7.0	3.2
5	Rod-to-Cap Adapter - NWJ Pin	ARCANWJP	6.0	2.7
6	AW Drill Rod - 5' (1524mm)	ADR5AW	21.0	9.5
6	AWJ Drill Rod - 5' (1524mm)	ADR5AWJ	23.0	10.4
6	NW Drill Rod - 5' (1524mm)	ADR5NW	31.0	14.1
6	NWJ Drill Rod - 5' (1524mm)	ADR5NWJ	35.0	15.9
Auger Repair Parts				
1A	4 1/4" (105mm) TK Pin Tool Joint	ATJ4143P	8.0	3.6
1B	4 1/4" (105mm) TK Box Tool Joint	ATJ4143B	8.0	3.6
7	ALB1 Auger Lock Bolt	ALB1	0.3	0.1
8	ABN1 Auger Bushing Nut	ABN1	0.2	0.1
9	ADK1 Auger Drive Key	ADK1	0.3	0.1
Auger Cutterheads and Pilot Bits				
10	4 1/4" (108mm) TK Blade Cutterhead - 8 3/4" (222mm) O.D.	ACH414350	12.0	5.4
10	4 1/4" (108mm) TK Spade Cutterhead - 8 3/4" (222mm) O.D.	ACH414351	14.0	6.4
10	4 1/4" (108mm) TK Blade/Bullet Cutterhead - 8 3/4" (222mm) O.D.	ACH414360	18.0	8.2
10	4 1/4" (108mm) TK Spade/Bullet Cutterhead - 8 3/4" (222mm) O.D.	ACH414361	16.0	7.3
10	4 1/4" (108mm) TK Bullet Cutterhead - 8 3/4" (222mm) O.D.	ACH414370	16.0	7.3
10	4 1/4" (108mm) TK 5-T Cutterhead - 8 3/4" (222mm) O.D.	ACH414371	0.0	
11	4 1/8" (105mm) Apex Pilot Bit, 2 3/8" API Reg. Pin	APB418APX	5.0	2.3
11	4 1/8" (105mm) Bullet Pilot Bit, 2 3/8" API Reg. Pin	APB418BUL	8.0	4.1

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1-15

4 1/4" (108mm) Triple Key Heavy Duty Hollow Stem Auger -

All 4 1/4" (108mm) Triple Key Heavy Duty Hollow Stem Augers feature a continuous hardfaced flighting design, 3/8" (9.5mm) thick on the outer edge with a 6" pitch. The heavy duty, tapered tool joints are made from 4142 alloy steel and feature double-bolt connections.

	Description	Part #	Weight	
			Lbs.	Kg.
Auger Section				
1	4 1/4" (108mm) TK HD Hollow Stem Auger 4 1/4" (108mm) I.D. x 7 5/8" (194mm) O.D. x 5' (1525mm)	A414300HD	107.0	48.5
2	4 1/4" (108mm) TK HD Drive Cap with 1 5/8" (41mm) Hex Pin	ADC414310HD	25.0	11.3
2	4 1/4" (108mm) TK HD Drive Cap with 2" (51mm) Hex Pin	ADC414311HD	28.0	12.7
3	#4 Nut & Bolt for Rod-to-Cap Adapter	ANAB4	0.9	0.4
4	4 1/8" (105mm) Pilot Bit Connector (AW Box - 2 3/8" API Reg. Box)	APBC418AWB	8.0	3.6
4	4 1/8" (105mm) Pilot Bit Connector (AWJ Box - 2 3/8" API Reg. Box)	APBC418AWJB	11.0	5
4	4 1/8" (105mm) Pilot Bit Connector (NW Box - 2 3/8" API Reg. Box)	APBC418NWB	11.0	5
4	4 1/8" (105mm) Pilot Bit Connector (NWJ Box - 2 3/8" API Reg. Box)	APBC418NWJB	12.0	5.4
5	Rod-to-Cap Adapter - AW Pin	ARCAAWP	3.0	1.4
5	Rod-to-Cap Adapter - AWJ Pin	ARCAAWJP	3.0	1.4
5	Rod-to-Cap Adapter - NW Pin	ARCANWP	7.0	3.2
5	Rod-to-Cap Adapter - NWJ Pin	ARCANWJP	6.0	2.7
6	AW Drill Rod - 5' (1524mm)	ADR5AW	21.0	9.5
6	AWJ Drill Rod - 5' (1524mm)	ADR5AWJ	23.0	10.4
6	NW Drill Rod - 5' (1524mm)	ADR5NW	31.0	14.1
6	NWJ Drill Rod - 5' (1524mm)	ADR5NWJ	35.0	15.9
Auger Repair Parts				
1A	4 1/4" (105mm) TK HD Pin Tool Joint	ATJ4143PHD	8.0	3.6
1B	4 1/4" (105mm) TK HD Box Tool Joint	ATJ4143BHD	8.0	3.6
7	ALB3 Auger Lock Bolt	ALB3	0.4	0.2
8	ABN3 Auger Bushing Nut	ABN3	0.2	0.1
9	ADK2 Auger Drive Key	ADK2	0.3	0.1
Auger Cutterheads and Pilot Bits				
10	4 1/4" (108mm) TK HD Blade Cutterhead - 8 3/4" (222mm) O.D.	ACH414350HD	16.0	7.3
10	4 1/4" (108mm) TK HD Spade Cutterhead - 8 3/4" (222mm) O.D.	ACH414351HD	20.0	9.1
10	4 1/4" (108mm) TK HD Blade/Bullet Cutterhead - 8 3/4" (222mm) O.D.	ACH414360HD	20.0	9.1
10	4 1/4" (108mm) TK HD Spade/Bullet Cutterhead - 8 3/4" (222mm) O.D.	ACH414361HD	22.0	10
10	4 1/4" (108mm) TK HD Bullet Cutterhead - 8 3/4" (222mm) O.D.	ACH414370HD	22.0	10
10	4 1/4" (108mm) TK HD 5-T Cutterhead - 8 3/4" (222mm) O.D.	ACH414371HD	0.0	
11	4 1/8" (105mm) Apex Pilot Bit, 2 3/8" API Reg. Pin	APB418APX	5.0	2.3
11	4 1/8" (105mm) Bullet Pilot Bit, 2 3/8" API Reg. Pin	APB418BUL	8.0	4.1

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6 5/8" (169mm) Triple Key Hollow Stem Auger -

All 6 5/8" (169mm) Triple Key Hollow Stem Augers feature a continuous hardfaced flighting design, 3/8" (9.5mm) thick on the outer edge with a 6" (152mm) pitch. The tool joints are made from 4142 heat-treated alloy steel and feature double-bolt connections.

	Description	Part #	Weight	
			Lbs.	Kg.
Auger Section				
1	6 5/8" (169mm) TK Hollow Stem Auger 6 5/8" (169mm) I.D. x 10 1/8" (257mm) O.D. x 5' (1524mm)	A658300	143.0	64.9
2	6 5/8" (169mm) TK Drive Cap with 1 5/8" (41mm) Hex Pin	ADC658310	47.0	21.3
2	6 5/8" (169mm) TK Drive Cap with 2" (51mm) Hex Pin	ADC658311	50.0	22.7
3	#6 Nut & Bolt for Rod-to-Cap Adapter	ANAB6	1.3	0.4
4	6 1/2" (165mm) Pilot Bit Connector (AW Box - 3 1/2" API Reg. Box)	APBC612AWB	64.0	29
4	6 1/2" (165mm) Pilot Bit Connector (AWJ Box - 3 1/2" API Reg. Box)	APBC612AWJB	64.0	29
4	6 1/2" (165mm) Pilot Bit Connector (NW Box - 3 1/2" API Reg. Box)	APBC612NWB	64.0	29
4	6 1/2" (165mm) Pilot Bit Connector (NWJ Box - 3 1/2" API Reg. Box)	APBC612NWJB	64.0	29
5	Rod-to-Cap Adapter - AW Pin	ARCAAWP	3.0	1.4
5	Rod-to-Cap Adapter - AWJ Pin	ARCAAWJP	3.0	1.4
5	Rod-to-Cap Adapter - NW Pin	ARCANWP	7.0	3.2
5	Rod-to-Cap Adapter - NWJ Pin	ARCANWJP	6.0	2.7
6	AW Drill Rod - 5' (1524mm)	ADR5AW	21.0	9.5
6	AWJ Drill Rod - 5' (1524mm)	ADR5AWJ	23.0	10.4
6	NW Drill Rod - 5' (1524mm)	ADR5NW	31.0	14.1
6	NWJ Drill Rod - 5' (1524mm)	ADR5NWJ	35.0	15.9
Auger Repair Parts				
1A	6 5/8" (168mm) TK Pin Tool Joint	ATJ6583P	13.0	5.9
1B	6 5/8" (168mm) TK Box Tool Joint	ATJ6583B	12.0	5.4
7	ALB1 Auger Lock Bolt	ALB1	0.3	0.1
8	ABN1 Auger Bushing Nut	ABN1	0.2	0.1
9	ADK1 Auger Drive Key	ADK1	0.3	0.1
Auger Cutterheads and Pilot Bits				
10	6 5/8" (169mm) TK Blade Cutterhead - 11 1/2" (292mm) O.D.	ACH658350	28.0	12.7
10	6 5/8" (169mm) TK Spade Cutterhead - 11 1/2" (292mm) O.D.	ACH658351	25.0	11.8
10	6 5/8" (169mm) TK Blade/Bullet Cutterhead - 11 1/2" (292mm) O.D.	ACH658360	33.0	15
10	6 5/8" (169mm) TK Spade/Bullet Cutterhead - 11 1/2" (292mm) O.D.	ACH658361	30.0	13.6
10	6 5/8" (169mm) TK Bullet Cutterhead - 11 1/2" (292mm) O.D.	ACH658370	34.0	15.4
10	6 5/8" (169mm) TK 5-T Cutterhead - 11 1/2" (292mm) O.D.	ACH6583718	0.0	
11	6 1/2" (165mm) Apex Pilot Bit, 3 1/2" API Reg. Pin	APB612APX	15.0	6.8
11	6 1/2" (165mm) Bullet Pilot Bit, 3 1/2" API Reg. Pin	APB612BUL	20.0	9.1

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1-17

6 5/8" (169mm) Triple Key Heavy Duty Hollow Stem Auger -

All 6 5/8" (169mm) Triple Key Heavy Duty Hollow Stem Augers feature a continuous hardfaced flighting design, 3/8" (9.5mm) thick on the outer edge with a 6" (152mm) pitch. The heavy duty, tapered tool joints are made from 4142 heat-treated alloy steel and feature double-bolt connections.

	Description	Part #	Weight	
			Lbs.	Kg.
Auger Section				
1	6 5/8" (169mm) TK HD Hollow Stem Auger 6 5/8" (169mm) I.D. x 10 1/8" (257mm) O.D. x 5' (1524mm)	A658300HD	145.0	65.8
2	6 5/8" (169mm) TK HD Drive Cap with 1 5/8" (41mm) Hex Pin	ADC658310HD	48.0	21.8
2	6 5/8" (169mm) TK HD Drive Cap with 2" (51mm) Hex Pin	ADC658311HD	51.0	23.1
3	#6 Nut & Bolt for Rod-to-Cap Adapter	ANAB6	1.3	0.4
4	6 1/2" (165mm) Pilot Bit Connector (AW Box - 3 1/2" API Reg. Box)	APBC612AWB	64.0	29
4	6 1/2" (165mm) Pilot Bit Connector (AWJ Box - 3 1/2" API Reg. Box)	APBC612AWJB	64.0	29
4	6 1/2" (165mm) Pilot Bit Connector (NW Box - 3 1/2" API Reg. Box)	APBC612NWB	64.0	29
4	6 1/2" (165mm) Pilot Bit Connector (NWJ Box - 3 1/2" API Reg. Box)	APBC612NWJB	64.0	29
5	Rod-to-Cap Adapter - AW Pin	ARCAAWP	3.0	1.4
5	Rod-to-Cap Adapter - AWJ Pin	ARCAAWJP	3.0	1.4
5	Rod-to-Cap Adapter - NW Pin	ARCANWP	7.0	3.2
5	Rod-to-Cap Adapter - NWJ Pin	ARCANWJP	6.0	2.7
6	AW Drill Rod - 5' (1524mm)	ADR5AW	21.0	9.5
6	AWJ Drill Rod - 5' (1524mm)	ADR5AWJ	23.0	10.4
6	NW Drill Rod - 5' (1524mm)	ADR5NW	31.0	14.1
6	NWJ Drill Rod - 5' (1524mm)	ADR5NWJ	35.0	15.9
Auger Repair Parts				
1A	6 5/8" (168mm) TK HD Pin Tool Joint	ATJ6583PHD	16.0	7.3
1B	6 5/8" (168mm) TK HD Box Tool Joint	ATJ6583BHD	13.0	5.8
7	ALB3 Auger Lock Bolt	ALB3	0.4	0.2
8	ABN3 Auger Bushing Nut	ABN3	0.2	0.1
9	ADK3 Auger Drive Key	ADK3	0.3	0.1
Auger Cutterheads and Pilot Bits				
10	6 5/8" (169mm) TK HD Blade Cutterhead - 11 1/2" (292mm) O.D.	ACH658350HD	29.0	13.2
10	6 5/8" (169mm) TK HD Spade Cutterhead - 11 1/2" (292mm) O.D.	ACH658351HD	26.0	11.8
10	6 5/8" (169mm) TK HD Blade/Bullet Cutterhead - 11 1/2" (292mm) O.D.	ACH658360HD	34.0	15.4
10	6 5/8" (169mm) TK HD Spade/Bullet Cutterhead - 11 1/2" (292mm) O.D.	ACH658361HD	30.0	13.6
10	6 5/8" (169mm) TK HD Bullet Cutterhead - 11 1/2" (292mm) O.D.	ACH658370HD	34.0	15.4
10	6 5/8" (169mm) TK HD 5-T Cutterhead - 11 1/2" (292mm) O.D.	ACH6583718HD	0.0	
11	6 1/2" (165mm) Apex Pilot Bit, 3 1/2" API Reg. Pin	APB612APX	15.0	6.8
11	6 1/2" (165mm) Bullet Pilot Bit, 3 1/2" API Reg. Pin	APB612BUL	20.0	9.1

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1-18

8 1/4" (210mm) Triple Key Heavy Duty Hollow Stem Auger -

All 8 1/4" (210mm) Triple Key Heavy Duty Hollow Stem Augers feature a continuous hardfaced flighting design, 3/8" (9.5mm) thick on the outer edge with a 6" (152mm) pitch. The heavy duty, tapered tool joints are made from 4142 alloy steel and feature double-bolt connections.

Description	Part #	Weight	
		Lbs.	Kg.
Auger Section			
1 8 1/4" (210mm) TK HD Hollow Stem Auger 8 1/4" (210mm) I.D. x 12" (305mm) O.D. x 5' (1524mm)	A814300HD	183.0	83.0
2 8 1/4" (210mm) TK HD Drive Cap with 2" (51mm) Hex Pin	ADC814311HD	71.0	32.2
3 #3 Nut & Bolt for Rod-to-Cap Adapter	ANAB3	0.9	0.4
4 8 1/8" (206mm) Pilot Bit Connector (NW Box - 3 1/2" API Reg. Box)	APBC818NWB	11.0	5.0
4 8 1/8" (206mm) Pilot Bit Connector (NWJ Box - 3 1/2" API Reg. Box)	APBC818NWJB	12.0	5.4
5 Rod-to-Cap Adapter - NW Pin	ARCANWP	7.0	3.2
5 Rod-to-Cap Adapter - NWJ Pin	ARCANWJP	6.0	2.7
6 NW Drill Rod - 5' (1524mm)	ADR5NW	31.0	14.1
6 NWJ Drill Rod - 5' (1524mm)	ADR5NWJ	35.0	15.9
Auger Repair Parts			
1A 8 1/4" (210mm) TK HD Pin Tool Joint	ATJ8143PHD	13.0	5.9
1B 8 1/4" (210mm) TK HD Box Tool Joint	ATJ8143BHD	12.0	5.4
7 ALB3 Auger Lock Bolt	ALB3	0.4	0.2
8 ABN3 Auger Bushing Nut	ABN3	0.2	0.1
9 ADK1-S Auger Drive Key	ADK1-S	0.3	0.1
Auger Cutterheads and Pilot Bits			
10 8 1/4" (210mm) TK HD Blade Cutterhead - 13" (330mm) O.D.	ACH814350HD	35.0	15.9
10 8 1/4" (210mm) TK HD Spade Cutterhead - 13" (330mm) O.D.	ACH814351HD	35.0	15.9
10 8 1/4" (210mm) TK HD Blade/Bullet Cutterhead - 13" (330mm) O.D.	ACH814360HD	40.0	18.1
10 8 1/4" (210mm) TK HD Spade/Bullet Cutterhead - 13" (330mm) O.D.	ACH814361HD	37.0	16.8
10 8 1/4" (210mm) TK HD Bullet Cutterhead - 13" (330mm) O.D.	ACH814370HD	37.0	16.8
11 8 1/8" (206mm) Apex Pilot Bit, 3 1/2" API Reg. Pin	APB818APX	22.0	10.0
11 8 1/8" (206mm) Bullet Pilot Bit, 3 1/2" API Reg. Pin	APB818BUL	27.0	12.2

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1-19

10 1/4" (260mm) Triple Key Heavy Duty Hollow Stem Auger -

All 10 1/4" (260mm) Triple Key Heavy Duty Hollow Stem Augers feature a continuous hardfaced flying design, 3/8" (9.5mm) thick on the outer edge with a 7 1/2" (191mm) pitch. The heavy duty, tapered tool joints are made from 4142 alloy steel and feature double-bolt connections.

	Description	Part #	Weight	
			Lbs.	Kg.
Auger Section				
1	10 1/4" (260mm) TK HD Hollow Stem Auger 10 1/4" (260mm) I.D. x 14 1/2" (362mm) O.D. x 5' (1524mm)	A1014300HD	265.0	120.2
2	10 1/4" (260mm) TK HD Drive Cap with 3 1/4" (83mm) Auger Connector	ADC101433HD	84.0	38.1
2	10 1/4" (260mm) TK HD Drive Cap with 4 1/4" (108mm) Auger Connector	ADC101434HD	86.0	39
3	#4 Nut & Bolt for Rod-to-Cap Adapter	ANAB4	0.9	0.4
4	10 1/8" (257mm) Pilot Bit Connector (NW Box - 3 1/2" API Reg. Box)	APBC1018NWB	36.0	16.3
4	10 1/8" (257mm) Pilot Bit Connector (NWJ Box - 3 1/2" API Reg. Box)	APBC1018NWJB	36.0	16.3
5	Rod-to-Cap Adapter - NW Pin	ARCANWP	7.0	3.2
5	Rod-to-Cap Adapter - NWJ Pin	ARCANWJP	6.0	2.7
6	NW Drill Rod - 5' (1524mm)	ADR5NW	31.0	14.1
6	NWJ Drill Rod - 5' (1524mm)	ADR5NWJ	35.0	15.9
Auger Repair Parts				
1A	10 1/4" (260mm) TK HD Pin Tool Joint	ATJ10143PHD	32.0	14.1
1B	10 1/4" (260mm) TK HD Box Tool Joint	ATJ10143BHD	31.0	14.0
7	ALB4 Auger Lock Bolt	ALB4	0.4	0.2
8	ABN3-M Auger Bushing Nut	ABN3-M	0.2	0.1
9	ADK3 Auger Drive Key	ADK3	0.3	0.1
Auger Cutterheads and Pilot Bits				
10	10 1/4" (260mm) TK HD Blade Cutterhead - 15" (381mm) O.D.	ACH1014350HD	52.0	23.6
10	10 1/4" (260mm) TK HD Spade Cutterhead - 15" (381mm) O.D.	ACH1014351HD	48.0	21.8
10	10 1/4" (260mm) TK HD Blade/Bullet Cutterhead - 15" (381mm) O.D.	ACH1014360HD	55.0	24.9
10	10 1/4" (260mm) TK HD Spade/Bullet Cutterhead - 15" (381mm) O.D.	ACH1014361HD	54.0	24.5
10	10 1/4" (260mm) TK HD Bullet Cutterhead - 15" (381mm) O.D.	ACH1014370HD	56.0	25.4
11	10 1/8" (257mm) Apex Pilot Bit, 3 1/2" API Reg. Pin	APB1018APX	33.0	15.0
11	10 1/8" (257mm) Bullet Pilot Bit, 3 1/2" API Reg. Pin	APB1018BUL	46.0	20.9

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12 1/4" (311mm) Triple Key Heavy Duty Hollow Stem Auger -

All 12 1/4" (311mm) Triple Key Heavy Duty Hollow Stem Augers feature a continuous hardfaced flying design, 3/8" (9.5mm) thick on the outer edge with a 7 1/2" (191mm) pitch. The heavy duty, tapered tool joints are made from 4142 alloy steel and feature double-bolt connections.

	Description	Part #	Weight	
			Lbs.	Kg.
Auger Section				
1	12 1/4" (311mm) TK HD Hollow Stem Auger 12 1/4" (311mm) I.D. x 17" (432mm) O.D. x 5' (1524mm)	A1214300HD	365.0	83
2	12 1/4" (311mm) TK HD Drive Cap with 3 1/4" (83mm) Auger Connector	ADC121433HD	90.0	40.8
2	12 1/4" (311mm) TK HD Drive Cap with 4 1/4" (108mm) Auger Connector	ADC121434HD	91.0	41.3
3	#4 Nut & Bolt for Rod-to-Cap Adapter	ANAB4	0.9	0.4
4	12 1/8" (308mm) Pilot Bit Connector (NW Box - 3 1/2" API Reg. Box)	APCB1218NWB	46.0	20.9
4	12 1/8" (308mm) Pilot Bit Connector (NWJ Box - 3 1/2" API Reg. Box)	APCB1218NWJB	46.0	20.9
5	Rod-to-Cap Adapter - NW Pin	ARCANWP	7.0	3.2
5	Rod-to-Cap Adapter - NWJ Pin	ARCANWJP	6.0	2.7
6	NW Drill Rod - 5' (1524mm)	ADR5NW	31.0	14.1
6	NWJ Drill Rod - 5' (1524mm)	ADR5NWJ	35.0	15.9

Auger Repair Parts

1A	12 1/4" (311mm) TK HD Pin Tool Joint	ATJ12143PHD	13.0	5.9
1B	12 1/4" (311mm) TK HD Box Tool Joint	ATJ12143BHD	12.0	5.4
8	ABN3-M Auger Bushing Nut	ABN3-M	0.2	0.1
9	ADK3 Auger Drive Key	ADK3	0.3	0.1
7	ALB4 Auger Lock Bolt	ALB4	0.4	0.2

Auger Cutterheads and Pilot Bits

10	12 1/4" (311mm) TK HD Blade Cutterhead - 17 3/4" (451mm) O.D.	ACH1214350HD	80.0	36.3
10	12 1/4" (311mm) TK HD Spade Cutterhead - 17 3/4" (451mm) O.D.	ACH1214351HD	74.0	33.6
10	12 1/4" (311mm) TK HD Blade/Bullet Cutterhead - 17 3/4" (451mm) O.D.	ACH1214360HD	69.0	31.3
10	12 1/4" (311mm) TK HD Spade/Bullet Cutterhead - 17 3/4" (451mm) O.D.	ACH1214361HD	78.0	35.4
10	12 1/4" (311mm) TK HD Bullet Cutterhead - 17 3/4" (451mm) O.D.	ACH1214370HD	69.0	31.3
11	12 1/8" (308mm) Apex Pilot Bit, 3 1/2" API Reg. Pin	APB1218APX	48.0	21.8
11	12 1/8" (308mm) Bullet Pilot Bit, 3 1/2" API Reg. Pin	APB1218BUL	61.0	27.7

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