

High Quality



ISO 9001
HIGH QUALITY
PRODUCTS

AUGER BITS

Quality tools from a world leader in
augerbit design and production



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KING DRILL

King Drill Precision Tools Co. is an industry leader in the design, production, and marketing of auger bit and accessory items. The name King Drill means the same as it did when our company was first founded over 45 years ago...*King Drill...* The King of Drill Bit.

Our basic business principle is to provide high quality products and quality services to meet our customers' requirements which we assure you of the best products and best services available anywhere.

Our company has included many new products in the catalog. King Drill's dedication to market research and product development has produced many fine products, such as our line of wooden auger bits, the new spear point bit, garden auger and etc. Research and development is an everyday part of our operation.

Our company has a wide range of products available for your selection. If you cannot find what you are looking for, please call our sales representative +886-4-25262165, fax number +886-4-25242895 or e-mail to our sales representative, sales@kingdrill.biz, hl@hualung.com.tw. We are able to design and produce custom-made products to meet your specific requirements.



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HEAVY DUTY SHIP AUGER



HL-741 NAILBUSTER

A
Series

- DOUBLE CUTTER HEAD PROVIDES FASTER DRILL MOVEMENT, EVEN THROUGH NAIL-EMBEDDED TIMBERS.
- FULL-LENGTH HEAT TREATMENT OF AUGER ENSURES DURABILITY.
- DOUBLE FLUTE EJECTS CHIPS FASTER.



The nailbuster auger bit is made for all wood boring applications including those through imbedded timbers. This auger requires less effort from the operator as the double cutter creates superior pulling power.

Regardless of the timber condition, this is the auger for a fast smooth cut.

HL-741L 18"OAL x 15" Twist

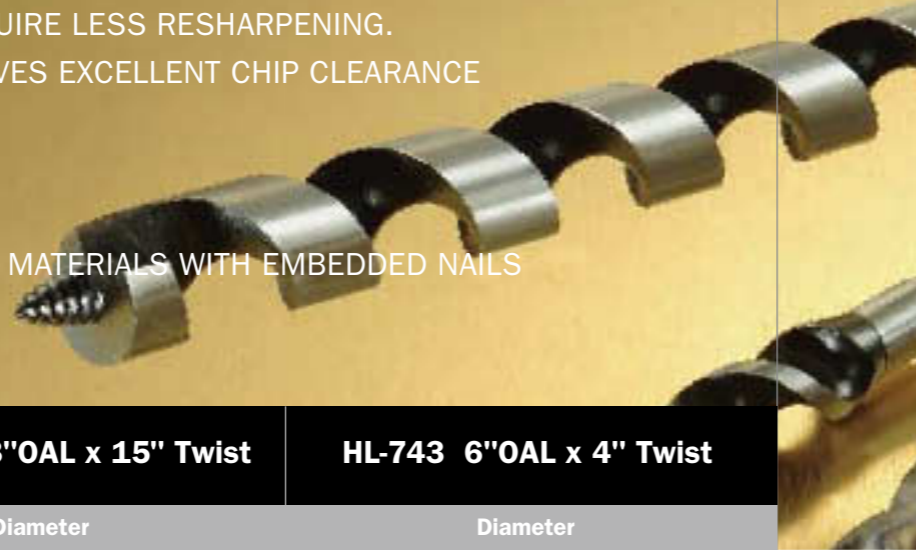
HL-741S 8"OAL x 5" Twist

Diameter	Shank Size	Diameter	Shank Size
11/16"	7/16"	11/16"	7/16"
3/4"	7/16"	3/4"	7/16"
13/16"	7/16"	13/16"	7/16"
7/8"	7/16"	7/8"	7/16"
15/16"	7/16"	15/16"	7/16"
1"	7/16"	1"	7/16"
1-1/8"	7/16"	1-1/8"	7/16"
1-1/4"	7/16"	1-1/4"	7/16"
1-3/8"	7/16"	1-3/8"	7/16"
1-1/2"	7/16"	1-1/2"	7/16"



HL-740 & HL-743 HEAVY DUTY SHIP AUGER (NAIL EATER)

- MADE OF CONTROLLED HEAT TREATED HIGH CARBON STEEL.
- SELF FEEDING SCREW POINT, WITH ONE CUTTING EDGE AND SIDE LIP FOR FAST, EFFORTLESS BORING IN WOOD.
- HARDENED CUTTING EDGES REQUIRE LESS RESHARPENING.
- LARGE, WIDE THROAT DESIGN GIVES EXCELLENT CHIP CLEARANCE FROM DEEP HOLES.
- QUICK-CHANGE SHANK (7/16").
- HEX SHANK IS ALSO AVAILABLE.
- CAPABLE OF BORING COMPOSITE MATERIALS WITH EMBEDDED NAILS

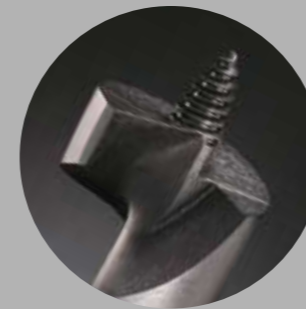


HL-740 18"OAL x 15" Twist	HL-743 6"OAL x 4" Twist
Diameter	Diameter
9/16" (14.2mm)	11/16" (17.5mm)
5/8" (16.0mm)	3/4" (19.1mm)
11/16" (17.5mm)	13/16" (20.6mm)
3/4" (19.1mm)	7/8" (22.2mm)
13/16" (20.6mm)	15/16" (23.8mm)
7/8" (22.2mm)	1" (25.4mm)
15/16" (23.8mm)	1-1/16" (27.0mm)
1" (25.4mm)	1-1/8" (28.6mm)
1-1/16" (27.0mm)	1-1/4" (31.8mm)
1-1/8" (28.6mm)	1-3/8" (35.0mm)
1-1/4" (31.8mm)	1-1/2" (38.1mm)
1-3/8" (35.0mm)	
1-1/2" (38.1mm)	



HL-403M & 457M NAILBOMBER

- MOLYBDENUM COATED FOR COOLER RUNNING.
- CUTS NAILS.
- MANUFACTURED FROM HIGHER GRADE STEEL.
- GLIDES THROUGH WOOD WITH LESS BINDING, BORES FASTER.
- EJECTS CHIPS FASTER.
- STAYS SHARPER LONGER.
- NO RUN OUT, MACHINED ON A TRUE CENTER.



Molybdenum Coated: molybdenum cools and lubricates the bit. The bit stays sharper longer because the heat treatment lasts longer. The bit ejects chips and bores faster than ordinary bits and binds less, even in wet or resinous woods.

Deeper lands: for a stronger less flexible bit.

Extensions: two recesses on shank to receive extension set screws.

HL-403M 18"OAL x15" Twist

Diameter	Hex Shank Size	Diameter	Hex Shank Size
1/2"	5/16"	15/16"	7/16"
9/16"	5/16"	1"	7/16"
5/8"	7/16"	1-1/8"	7/16"
11/16"	7/16"	1-1/4"	7/16"
3/4"	7/16"	1-3/8"	7/16"
13/16"	7/16"	1-1/2"	7/16"
7/8"	7/16"		

HL-457M 8"OAL x 5" Twist

Diameter	Hex Shank Size	Diameter	Hex Shank Size
3/8"	5/16"	7/8"	7/16"
7/16"	5/16"	15/16"	7/16"
1/2"	5/16"	1"	7/16"
9/16"	5/16"	1-1/8"	7/16"
5/8"	7/16"	1-1/4"	7/16"
11/16"	7/16"	1-3/8"	7/16"
3/4"	7/16"	1-1/2"	7/16"
13/16"	7/16"		

HEX



FISH-BIT



HL-777, HL-782S FISH BITS HL-777 GUIDE

- FLEXIBLE SHAFT
- DRILLS HOLES DOWN THE LENGTH OF WALL CAVITIES
- FISH EYE HOLES AT BOTH ENDS
- BULK PROGRAM AVAILABLE



HL-777



HL-782S



HL-777 Guide

Unique flexible self feeding bits up to 72" long suitable for drilling holes down the length of wall cavities and through hidden studs with no damage to wall board, plaster or any exterior finish.

A self-feeding screw point and an insulated steering guide helps the operator to start and steer the bit while it is hidden inside the wall cavity.

This bit has a hole at the tip and the shank, which allows you to fish wire inside the wall cavity from either direction after drilling.

HL-777 Fish Bits
OAL: 18", 24", 36", 54", 72"

HL-782S Fish Bits Extensions
OAL: 36", 52", 72"

Diameter	Shank Size	Diameter	Shank Size
1/4"	3/16"	7/16"	3/16"
3/8"	3/16"	5/8"	1/4"
1/2"	3/16"		
9/16"	3/16"		
3/4"	1/4"		
1"	1/4"		



HL-779

HL-779 SPEAR POINT BIT

HL-779 Spear Point Bit
OAL: 18", 24", 36", 52", 72"

Diameter	Shank with 3 flats
1/4"	3/16"
3/8"	3/16"
1/2"	3/16"
3/4"	3/16"



POWER AUGER BITS



HL-526 & HL-527 AUGER BITS

C

Series



- DESIGNED AND MANUFACTURED TO MEET THE NEED FOR EFFICIENT DRILLING AND LONG SERVICE LIFE.
- THE AUGER BITS ARE PRECISION MACHINED FROM HIGH QUALITY MATERIAL, ENSURING HIGHLY ACCURATE CONCENTRICITY.
- ACCURATE FLUTE SPIRAL DESIGN GIVES CLEAR AND EFFICIENT DRILLING PERFORMANCE.
- A WIDE RANGE OF MODELS FOR CHOICE.
- POPULAR ITEMS ARE IN STOCK FOR QUICK DELIVERY.

HL-526

Unit m/m

Diameter	C ∅	Twist	Length	HEX	Diameter	C ∅	Twist	Length	HEX
6.0	6.0	100	160	HEX	20.0	10.0	140	210	8.6
7.0	7.0	100	170	6.0	21.0	10.0	140	210	8.6
8.0	7.0	100	170	6.0	22.0	10.0	140	210	8.6
9.0	7.0	110	180	6.0	23.0	10.0	140	210	8.6
10.0	7.0	120	190	6.0	24.0	10.0	140	210	8.6
11.0	7.0	120	190	6.0	25.0	10.0	140	210	8.6
12.0	7.0	120	190	6.0	26.0	10.0	140	210	8.6
13.0	7.0	120	190	6.0	27.0	10.0	140	210	8.6
14.0	10.0	130	200	8.6	28.2	10.0	140	210	8.6
15.0	10.0	130	200	8.6	30.0	10.0	140	210	8.6
16.0	10.0	130	200	8.6	32.0	10.0	140	210	8.6
17.2	10.0	130	200	8.6	35.0	12.0	140	210	10.2
18.0	10.0	130	200	8.6	38.0	12.0	140	210	10.2
19.0	10.0	130	200	8.6					

HEX

C ∅



HL-527 OAL-400mm Twist-300mm

Unit m/m

Diameter	C ∅	HEX	Diameter	C ∅	HEX
6.0		HEX	20.0	13.0	12.0
8.0	7.0	HEX	22.0	13.0	12.0
10.0	10.0	8.6	24.0	13.0	12.0
12.0	10.0	8.6	25.0	13.0	12.0
13.0	13.0	12.0	26.0	13.0	12.0
14.0	13.0	12.0	28.0	13.0	12.0
16.0	13.0	12.0	32.0	13.0	12.0
18.0	13.0	12.0	35.0	13.0	12.0
19.0	13.0	12.0	38.0	13.0	12.0

HL-702 & HL-505 IMPACT & SDS AUGER BITS

- BLACK OXIDE FLUTES
 - SELF-FEEDING SCREW POINT
 - PACKED IN A REUSABLE STORAGE TUBE OR SLIDING CARD
- SINGLE SPUR OPPOSITE CUTTING LIP FOR CLEAN ENTRANCE AND EXIT HOLES AND A SELF-FEED SCREW POINT FOR FAST, EFFORTLESS BORING..



HL-702 Impact Shank				HL-505 SDS Shank		
Diameter	Twist	Length	HEX	Diameter	Twist	Length
6.0	50	90	6.2	6.0	140	205
7.0	50	90	6.2	8.0	140	205
8.0	50	90	6.2	10.0	140	205
9.0	60	100	6.2	12.0	140	205
10.0	60	100	6.2	14.0	140	205
11.0	60	100	6.2	16.0	140	205
12.0	60	100	6.2	18.0	140	205
13.0	70	120	6.2	20.0	140	205
13.5	70	120	6.2	22.0	140	205
14.0	70	120	6.2	24.0	140	205
15.0	70	120	6.2	30.0	140	205
16.0	70	120	6.2	10.0	300	400
17.0	70	120	6.2			
18.0	70	120	6.2			
20.0	80	130	9.0			
21.0	80	130	9.0			
22.0	80	130	9.0			
24.0	80	130	9.0			
27.0	80	130	9.0			
30.0	80	130	9.0			
33.0	90	140	9.0			
36.0	90	140	9.0			



HL-705 & HL-500 POWER AUGER BITS

- SINGLE SPUR: CUTS THE OUTLINE OF THE HOLE AND HELPS THE BIT STAY STRAIGHT.
- SCREW POINT: PROVIDES HOLE LOCATION AND ALLOWS SELF-FEEDING INTO THE WOOD.
- CUTTING LIP: UNIQUE CUTTING LIP WHICH ACTS AS A HORIZONTAL CUTTER AND ASSISTS IN CHIPPING OUT OF THE FLAKES IN THE WOOD HOLE.
- SPIRAL FLUTE: ASSISTS IN EJECTING THE WOOD CHIPS AWAY FROM THE CUTTER.



HL-705				HL-500 OAL-500mm Twist-400mm	
Diameter	Twist	Length	HEX	Diameter	HEX
8.0	165	225	6.35	10.0	8.7
10.0	190	250	6.35	12.0	8.7
12.0	200	270	8.70	13.0	11.0
14.0	210	290	8.70	14.0	11.0
16.0	240	290	8.70	16.0	11.0
18.0	240	330	8.70	18.0	11.0
20.0	240	330	8.70	20.0	11.0
22.0	240	330	8.70	22.0	11.0
25.0	240	330	8.70	25.0	11.0
30.0	240	330	11.0	30.0	11.0
32.0	240	330	11.0	32.0	11.0
35.0	240	330	11.0	35.0	11.0
				38.0	11.0



HL-715, HL-357, HL-735 POWER SHIP AUGER BITS

- HEX AND IMPACT SHANK BOTH AVAILABLE.
- MADE OF HIGH QUALITY TOOL STEEL.
- SINGLE TWIST TYPE WITH SINGLE CUTTING EDGE AND CUTTING LIP.
- HEAT TREATED AND TEMPERED FULL LENGTH FOR EXTRA SAFETY AND LONG LIFE.
- RECOMMENDED FOR HEAVY CONSTRUCTION AND REPAIR WORK PERFORMED IN MINES OR ON DOCKS AND BRIDGES.



HL-715 3-sided flat shank 6" OAL x 4" Twist			HL-357 Hex shank 8" OAL x 6" Twist			HL-735 Hex shank 17" OAL x 12" Twist		
Diameter	Diameter	HEX	Diameter	HEX		Diameter	HEX	
1/2" (13.0mm)	9/16" (14.2mm)	11.0	1/4" (6.35mm)	5.8				
9/16" (14.2mm)	5/8" (16.0mm)	11.0	5/16" (8.0mm)	7.0				
5/8" (16.0mm)	11/16" (17.5mm)	11.0	3/8" (9.5mm)	8.0				
11/16" (17.5mm)	3/4" (19.1mm)	11.0	7/16" (11.2mm)	8.0				
3/4" (19.1mm)	13/16" (20.6mm)	11.0	1/2" (13.0mm)	8.0				
13/16" (20.6mm)	7/8" (22.2mm)	11.0	9/16" (14.2mm)	11.0				
7/8" (22.2mm)	15/16" (23.8mm)	11.0	5/8" (16.0mm)	11.0				
15/16" (23.8mm)	1" (25.4mm)	11.0	11/16" (17.5mm)	11.0				
1" (25.4mm)	1-1/16" (27mm)	11.0	3/4" (19.1mm)	11.0				
1-1/16" (27.0mm)	1-1/8" (28.6mm)	11.0	13/16" (20.6mm)	11.0				
1-1/8" (28.6mm)	1-1/4" (31.8mm)	11.0	7/8" (22.2mm)	11.0				
1-1/4" (31.8mm)	1-3/8" (35.0mm)	11.0	15/16" (23.8mm)	11.0				
1-3/8" (35.0mm)	1-1/2" (38.1mm)	11.0	1" (25.4mm)	11.0				
1-1/2" (38.1mm)			1-1/16" (27.0mm)	11.0				
			1-1/8" (28.6mm)	11.0				
			1-1/4" (31.8mm)	11.0				
			1-3/8" (35.0mm)	11.0				
			1-1/2" (38.1mm)	11.0				



HL-725 POWER SHIP AUGER BIT WITH IMPACT SHANK

- ELECTRICIAN HEAD TYPE FOR QUICK-CHANGE CHUCK (NO SPUR)
- FOR LINEMAN AND GENERAL CONSTRUCTION WORK
- 7/16" IMPACT SHANK



HL-725 18" OAL x 15" Twist

Diameter	Diameter
5/8"	1"
11/16"	1-1/16"
3/4"	1-1/8"
13/16"	1-1/4"
7/8"	1-3/8"
15/16"	1-1/2"

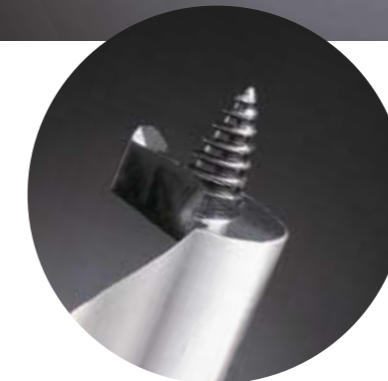


HL-727

HL-725

HL-727 POWER POLE BITS

- SINGLE FLUTE, SINGLE SPUR AND CUTTING EDGE DESIGN FOR FASTER AND CLEANER BORING IN ALL TYPES OF SOFT OR HARD WOODS.
- RECOMMENDED FOR BORING THROUGH CREOSOTED POLES AND CONSTRUCTION TIMBERS. MAKES A SMOOTH, CLEAN HOLE FOR INSTALLING BOLTS AND PINS.
- HEX SHANK (7/16")



HL-727 23" OAL x 18" Twist

Diameter	Diameter
9/16"	7/8"
5/8"	15/16"
11/16"	1"
3/4"	1-1/16"
13/16"	



HL-765 PIPE BITS

- MADE OF CONTROLLED HEAT TREATED CARBON STEEL.
- DOUBLE TWIST DESIGN WITH DOUBLE SPURS, DOUBLE CUTTERS, AND EXTENSION LIP AND FEED SCREW FOR FASTER, SMOOTHER AND CLEANER CUT.
- SHARP CUTTING SPURS AND LIPS CAN BE QUICKLY RESHARPENED FOR FAST, EFFICIENT PRODUCTION



HL-765 6" OAL x 4" Twist
Unit m/m

Diameter	Diameter
3/4"	1-1/4"
7/8"	1-3/8"
1"	1-1/2"
1-1/8"	

HL-770 ELECTRICIAN'S POWER BITS

HEX



- DOUBLE TWIST DESIGN WITH A SINGLE SPUR, A SINGLE CUTTER AND A SCREW POINT.
- SHANK WITH 2 RECESSES FOR USE WITH POWER BIT EXTENSIONS.
- SPECIALLY DESIGNED TO FIT IN BETWEEN BUILDING STUDS FOR THE INSTALLATION OF CONDUIT AND WIRE



HL-770 8.5"OAL x5.5" Twist
Unit m/m

Diameter	HEX
5/8"	8.0
11/16"	8.0
3/4"	8.0
13/16"	8.0
7/8"	8.0
1"	8.0
1-1/8"	11.0
1-1/4"	11.0

HL-782 EXTENSIONS

- PROVIDED WITH 2 SET SCREWS & HEX WRENCH.
- FITS MOST BORING TOOLS WITH 1/4", 5/16" & 7/16" HEX SHANKS.
- 1/4" EXTENSIONS REQUIRE BITS 1/2" OR LARGER.
- 5/16" EXTENSIONS REQUIRE BITS 5/8" OR LARGER.
- 7/16" EXTENSIONS REQUIRE BITS 7/8" OR LARGER.



HL782

We offer the largest selection of extensions. lengths from 9-1/2" through 24"



HL-782

Size	Shank Size
1/4"x12"	1/4"
1/4"x18"	1/4"
5/16"x12"	5/16"
5/16"x18"	5/16"
5/16"x24"	5/16"
7/16"x9.5"	7/16"
7/16"x12"	7/16"
7/16"x18"	7/16"
7/16"x24"	7/16"

HL-782SDS EXTENSIONS

SDS SHANK-FIT SDS DRILL CHUCKS, RECEIVE STANDARD ARBOR SHANKS



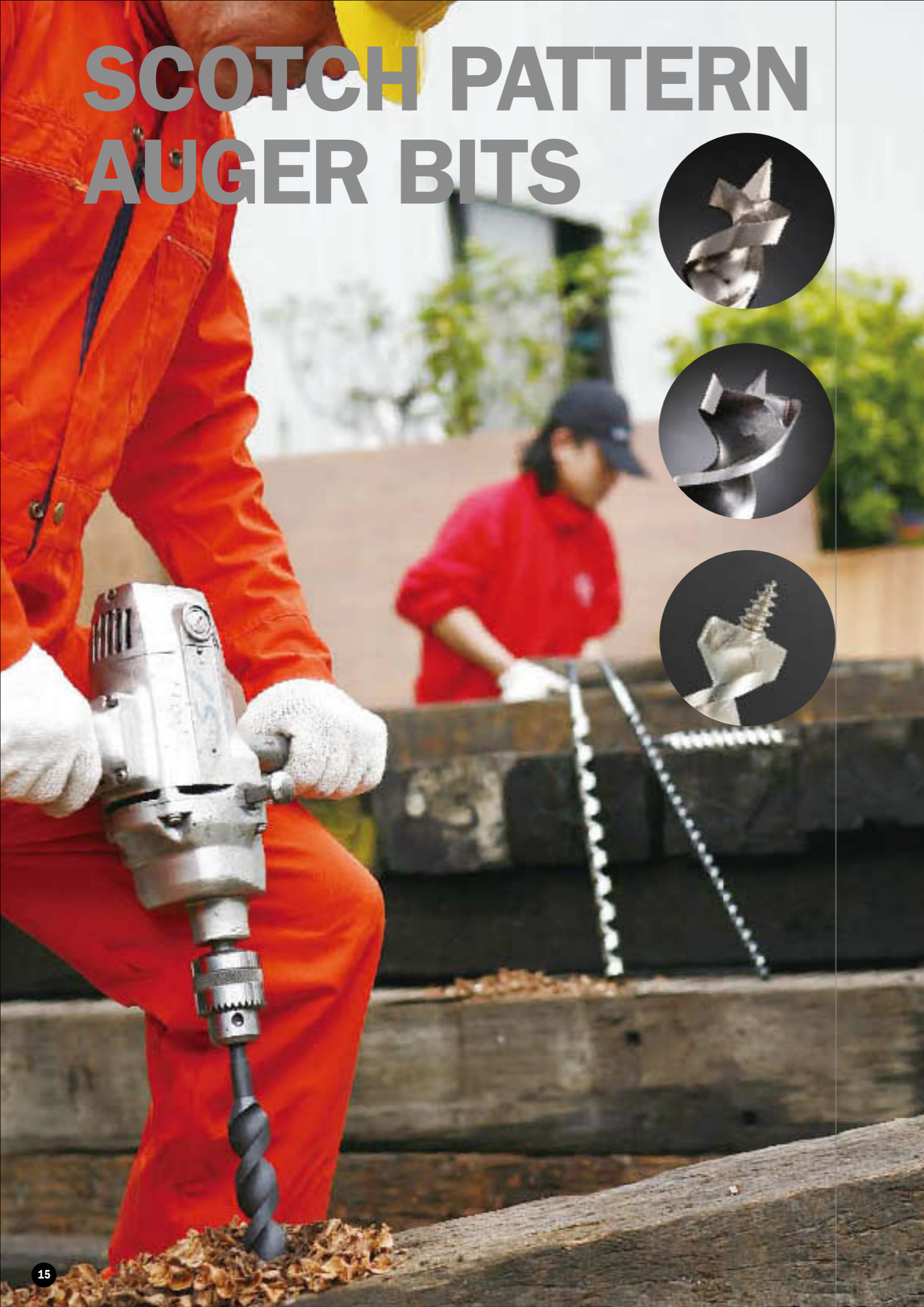
HL782 SDS Extension

HL-782 SDS

Size	Shank Size
3/8"x9-1/2"	3/8" SDS
7/16"x9-1/2"	3/8" SDS



SCOTCH PATTERN AUGER BITS



HL-3213

SCOTCH PATTERN AUGER BITS

D

Series

MAINLY USED ON THE RAILWAY'S HARDWOODS.

- MADE OF QUALITY CARBON TOOL STEEL. HEAT-TREATED AND TEMPERED FULL LENGTH FOR EXTRA DURABILITY AND LONG LIFE.
- DOUBLE TWIST, DOUBLE CUT.
- SUITABLE FOR USE ON HARDWOOD
- HEX SHANK, IMPACT SHANK OR D-SHANK ARE AVAILABLE

HEX



HL-3213 Quick Change Shank

L-Length
Unit m/m

Diameter	Hex ⁺⁰ / _{-0.125}	L 210 _{±3} mmL	L 250 _{±3} mmL	L 300 _{±3} mmL	L 350 _{±3} mmL	L 500 _{±3} mmL	L 550 _{±3} mmL
12.0	9.8						
13.0	9.8						
14.0	11.0						
15.0	11.0						
16.0	11.0						
17.0	11.0						
18.0	11.0	Twist 140 ±2 mmL	Twist 180 ±2 mmL	Twist 230 ±2 mmL	Twist 280 ±2 mmL	Twist 250 ±2 mmL	Twist 450 ±2 mmL
19.0	11.0						
20.0	11.0						
21.0	11.0						
22.0	11.0						
24.0	11.0						
25.0	11.0						
32.0	11.0						

HL-785 ELECTRICIAN'S PATTERN AUGER BITS



DOUBLE SPUR
DOUBLE CUT
DOUBLE TWIST



HL-785 ELECTRICIAN'S PATTERN AUGER BITS

Diameter	Length
1- 3/4"	225mm

PS, OTHER SIZES ARE AVAILABLE

HL-780M GENERAL PURPOSE MASONRY BITS



Heavy duty carbide tip can be used for rotary drilling or for delivering hammer drill blows with a rotary action.



HL-780M GENERAL PURPOSE MASONRY BITS

Diameter	Length
3/8"	18"

HL-780 BELL HANGER DRILLS



- HIGH CARBON STEEL.
- FISH EYE HOLE FOR PULLING WIRE.
- PACKAGED / BULK PROGRAM AVAILABLE.

HIGH CARBON STEEL DRILLS FOR BORING WOOD AND FISHING WIRES.

FISH EYE HOLE PROVIDED NEAR TIP OF FLUTES TO AID PULLING WIRE AFTER COMPLETION OF DRILLING.

TWO RECESSES IN SHANK TO ALLOW FOR EXTENSION SET SCREWS (BITS 5/8" AND OVER).



HL-780 OAL: 12", 18", 24", & 30"

Size	Shank Size	Size	Shank Size	Size	Shank Size
3/16"x12"	1/8" rnd.	3/16"x18"	1/8" rnd.	13/16"x18"	7/16" Hex
1/4"x12"	1/4" rnd.	1/4"x18"	1/4" rnd.	7/8"x18"	7/16" Hex
5/16"x12"	5/16"rnd.	5/16"x18"	5/16"rnd.	15/16"x18"	7/16" Hex
3/8"x12"	3/8" rnd.	3/8"x18"	3/8" rnd.	1"x18"	7/16" Hex
7/16"x12"	3/8" rnd.	7/16"x18"	3/8" rnd.	1/4"x24"	1/4" rnd.
1/2"x12"	3/8" rnd.	1/2"x18"	3/8" rnd.	5/16"x24"	5/16" rnd.
9/16"x12"	3/8" rnd.	9/16"x18"	3/8" rnd.	3/8"x24"	3/8" rnd.
5/8"x12"	7/16" Hex	5/8"x18"	7/16" Hex	1/2"x24"	3/8" rnd.
11/16"x12"	7/16" Hex	11/16"x18"	7/16" Hex	1/4"x30"	1/4" rnd.
3/4"x12"	7/16" Hex	3/4"x18"	7/16" Hex	3/8"x30"	3/8" rnd.



GARDEN AUGER BITS



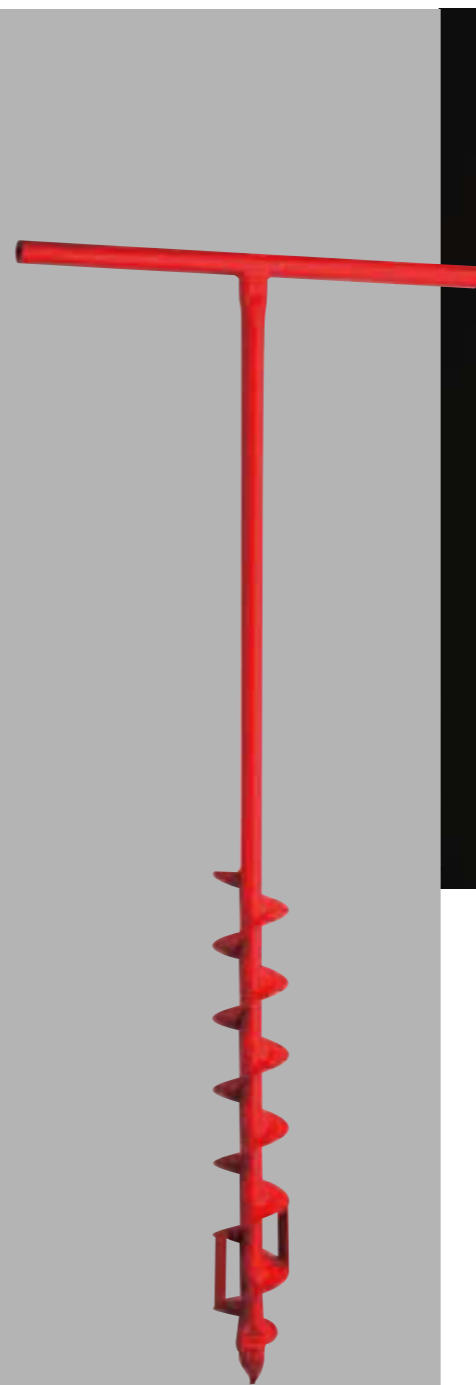
HL-CAS Series, HL-CAP Series GARDEN AUGER BITS

USES FOR THE 1.25" AND 1.5" DIAMETER GARDEN AUGERS INCLUDE:

- DEEP ROOT WATERING
- ROOT FERTILIZING
- DRILLING PILOT HOLES FOR EASIER DRIVING OF TREE STAKES AND FERTILIZER STAKES
- PLANTING TERMITE BAIT
- SMALLER DIAMETER PLANTING LIKE IVY OR VEGETABLE SEEDS

E

Series



HL-CAP Series



HL-CAS Series
with Cutter

HL-CAS Series

HL-CAS Series
OAL-18" 23"37"

HL-CAP Series
OAL-1050mm

Diameter	Diameter
1-1/4"	70mm
1-1/2"	90mm
1-3/4"	
2"	
2-3/4"	
3"	

HL-791 & HL-3223 EYED AUGERS

F

Series

- DOUBLE OR SINGLE TWIST FOR HAND OPERATION
- AN AUGER HANDLE/T BAR IS PLACED THROUGH THE EYE AND THE AUGER IS TURNED BY HAND TO BORE.
- BORING A WIDE RANGE OF HOLES IN HARDWOODS IN A VARIETY OF LOCATIONS, ESPECIALLY WHERE ELECTRIC POWER IS NOT AVAILABLE.



HL-791 Lewis Type Eyed Auger

Diameter	Twist	Length
3/8" - 1-1/2"	7" - 9"	18" - 20"
(10 - 38mm)	(180 - 230mm)	(450 - 500mm)

HL-3223 Screw Eyed Auger

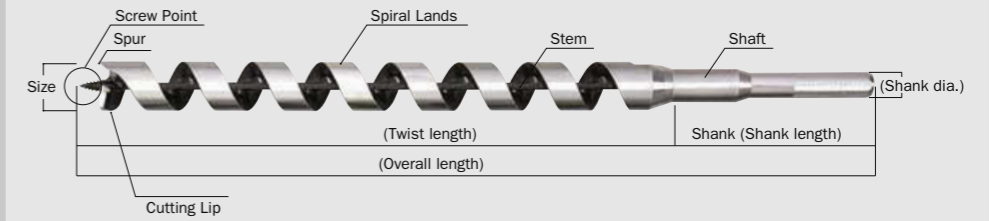
Diameter	Twist	Length
3/8" - 2"	9" - 10"	23" - 24"
(10 - 50mm)	(230 - 280mm)	(580 - 600mm)



• How to use an auger bit & a ship auger:

Fasten an auger firmly on to an electric drill. Equipped with a screw point, the auger bit cuts in smoothly without slipping out of place. Do not push auger bits forcibly to prevent the stronger resistance and lose its working efficiency.

Parts of a Auger Bit



Parts of a Ship Auger



• Safety Instructions:

1. Always use tools in compliance with the tool manufacturers' instructions.
2. Be careful to keep long hair and loose clothing away from turning tools and equipment.
3. When drilling through holes, do not allow the drill bit to protrude beyond far side of the hole three times the bit's diameter. For example, a 1/2" diameter auger bits should not protrude beyond the material more than 1-1/2" (3 x 1/2"). Further protrusion can cause whipping action which will cause the bit to fail and a potential injury to the operator and others.