

Augers

For skid-steer loaders, compact tractors, mini compact loaders, excavators, mini excavators, tractor loader backhoes and telehandlers



PALADIN LIGHT CONSTRUCTION

FEATURES:

- 5 to 60 GPM available
- augers available up to 48" diameter
- wide variety of auger diameters, lengths and style for every digging application
- extensions available for deeper digging
- various mounts available for most applications
- planetary and chain reduction auger drives available
- 2 speed auger drive available
- 2 year warranty; up to 3 years additional planetary warranty



Auger Drives

D450, X900, X1500

Model D450						
maximum auger diameter	12"		305 mm			
minimum hydraulic flow	5 GPM		19 lpm			
maximum hydraulic flow	10 GPM		38 lpm			
maximum continuous operating PSI	3000 PSI		207 bar			
output shaft options:	2" round		51 mm			
output speed			output torque			
flow	speed		pressure		torque	
GPM	LPM	RPM	PSI	BAR	Lb·Ft	N·m
5	19	65	2000	138	470	637
6	23	78	2500	172	587	796
7	26	91	3000	207	516	700
8	30	104				
9	34	117				
10	38	130				

D450 Features:

- direct drive
- maximum output torque 704 lb-ft.
- 12" maximum auger diameter
- 2" round round output shaft
- 2 year comprehensive warranty

Model X900 (Planetary Drive)						
maximum auger diameter	15"		381 mm			
minimum hydraulic flow	8 GPM		23 lpm			
maximum hydraulic flow	16 GPM		57 lpm			
maximum continuous operating PSI	3000 PSI		207 bar			
output shaft options:	2-9/16" round		65mm			
output speed			output torque			
flow	speed		pressure		torque	
GPM	LPM	RPM	PSI	BAR	Lb·Ft	N·m
8	30	61	2000	138	671	910
10	38	76	2500	172	849	1151
12	45	91	3000	207	1029	1395
14	53	106				
16	61	121				

X900 Features:

- available for mini loaders
- maximum output torque 1,029 lb-ft.
- 2-9/16" round output shaft
- dual pivot with lockout pin to single pivot
- maximum 3,000 PSI
- 15" maximum auger diameter
- 2 year comprehensive warranty
- 5 year warranty on planetary

Model X1500 (Planetary Drive)						
maximum auger diameter	30"		762 mm			
minimum hydraulic flow	8 GPM		30 lpm			
maximum hydraulic flow	16 GPM		61 lpm			
maximum continuous operating PSI	3000 PSI		207 bar			
output shaft options:	2-9/16" round		65 mm			
output speed			output torque			
flow	speed		pressure		torque	
GPM	LPM	RPM	PSI	BAR	Lb·Ft	N·m
8	30	30	2000	138	1315	1783
10	38	38	2500	172	1656	2245
12	45	45	3000	207	1998	2709
14	53	53				
16	61	61				

X1500 Features:

- available for mini loaders
- maximum output torque 1,998 lb-ft.
- 2-9/16" round output shaft
- dual pivot with lockout pin to single pivot
- maximum 3,000 PSI
- 30" maximum auger diameter
- 2 year comprehensive warranty
- 5 year warranty on planetary

Output speed and torque specifications are based on theoretical values and are provided for comparative purposes only.

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75 Series Auger Drives

X975, X1475, X1975, X2475 & 3K2

2 Year Comprehensive Warranty

The 75 Series Offers a 5 Year "No Hassle" Planetary Gearbox Warranty

All 75 Series hydraulic motor drives the auger through a sealed planetary gear reduction. The heavy duty all gear design gives these units a long life with minimal maintenance and service costs. 75 Series drive units are completely sealed with all moving components running in oil for total lubrication on a constant basis. All models feature reverse rotation for quick backout when obstructions are encountered. The systems' hydraulic relief valve protects the units from damage when the auger hits large immovable objects.

NOTE: Output shaft options 2" (51 mm) round 2-9/16" (65 mm) round 2" (51 mm) hexagon

Model X975							
maximum auger diameter		24"		610 mm			
minimum hydraulic flow		6 GPM		30 lpm			
maximum hydraulic flow		15 GPM		57 lpm			
maximum continuous operating PSI		3000 PSI		207 bar			
output shaft options:		2" round, 2-9/16" round 2" hex					
output speed			output torque				
flow	speed		pressure		torque		
GPM	LPM	= RPM	PSI	Bar	= Lb-Ft	N·m	
6	23	36	2000	141	1000	1356	
8	30	47	2500	176	1277	1731	
10	38	60	3000	211	1500	2034	
12	45	71					
15	57	89					

Model X1475							
maximum auger diameter		30"		762 mm			
minimum hydraulic flow		10 GPM		38 lpm			
maximum hydraulic flow		25 GPM		95 lpm			
maximum continuous operating PSI		3000 PSI		207 bar			
output shaft options:		2" round, 2-9/16" round, 2" hex					
output speed			output torque				
flow	speed		pressure		torque		
GPM	LPM	= RPM	PSI	Bar	= Lb-Ft	N·m	
10	38	38	2000	138	1600	2169	
12	45	45	2500	172	2000	2712	
14	53	53	3000	207	2377	3223	
16	61	60					
18	68	68					
20	76	75					
25	95	94					

Model X1975							
maximum auger diameter		36"		914 mm			
minimum hydraulic flow		15 GPM		57 lpm			
maximum hydraulic flow		30 GPM		114 lpm			
maximum continuous operating PSI		3000 PSI		207 bar			
output shaft options:		2" round, 2-9/16" round, 2" hex					
output speed			output torque				
flow	speed		pressure		torque		
GPM	LPM	= RPM	PSI	Bar	= Lb-Ft	N·m	
15	57	49	2000	138	1856	2516	
18	68	58	2500	172	2328	3156	
20	76	65	3000	207	2769	3754	
22	83	71					
24	91	78					
26	98	84					
28	106	90					
30	114	97					

Model X2475							
maximum auger diameter		36"		914 mm			
minimum hydraulic flow		20 GPM		76 lpm			
maximum hydraulic flow		35 GPM		132 lpm			
maximum continuous operating PSI		3000 PSI		207 bar			
output shaft options:		2" round, 2-9/16" round, 2" hex					
output speed			output torque				
flow	speed		pressure		torque		
GPM	LPM	= RPM	PSI	Bar	= Lb-Ft	N·m	
20	76	52	2000	141	2308	3129	
22	83	57	2500	176	2895	3925	
24	91	63	3000	211	3451	4686	
26	98	68					
28	106	78					
30	114	68					
35	132	73					

The 3K2 - 2 speed auger drive offers one drive for maximum productivity in changing soil and job site conditions and up to twice the productivity of single speed drives for less than 20% initial additional investment.

Model 3K2 (Two Speed)							
				high speed/low torque		15 GPM	20 RPM
						57 (lpm)	(76 lpm)
maximum auger diameter		36" 914 mm		auger RPM		59 81	
minimum hydraulic flow		10 GPM 38 lpm		torque ft. lbs. @ 3000 PSI		2,053 2,053	
maximum hydraulic flow		25 GPM 95 lpm		low speed/high torque			
max. continuous operating PSI		3000 PSI 207 bar		auger RPM		37 48	
output shaft options:		2-9/16" round 2" hex		torque ft. lbs. @ 3000 PSI		2,923 2,923	
		(manual & electric shift available)					

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C Series Auger Drives

C920, C1420, C1920

2 year comprehensive warranty available on all C Series Chain Drives

Millen C Series Drive units are designed for lighter usage. Research, development and nationally conducted on-site testing have proven the C Series rugged design and construction. Fixed chain centers eliminate adjustments while the floating drive sprocket insures constant chain alignment. The hardened drive sprocket resists wear and helps to assure a trouble free life. Spring loaded, double lipped seals guard against contamination or failure.

Model C920							
maximum auger diameter		24"		457 mm			
minimum hydraulic flow		6 GPM		23 lpm			
maximum hydraulic flow		15 GPM		57 lpm			
maximum continuous operating PSI		3000 PSI		207 bar			
output shaft options:		2" round, 2-9/16" round 2" hex					
output speed			output torque				
flow		speed	pressure		torque		
GPM	LPM	RPM	PSI	Bar	Lb·Ft	N·m	
6	23	38	2000	138	973	1319	
8	30	50	2500	173	1216	1648	
10	38	63	3000	207	1460	1979	
12	45	75					
15	57	94					

C920 Features:

- fixed chain centers
- floating drive sprocket
- maximum output torque 1,460 lb-ft.
- 6 to 15 GPM
- 24" maximum auger diameter
- output shafts available:
2" (51 mm) round output shaft
2-9/16" (65 mm) round output shaft
2" (51 mm) hex output shaft

Model C1420							
maximum auger diameter		30"		762 mm			
minimum hydraulic flow		10 GPM		38 lpm			
maximum hydraulic flow		25 GPM		95 lpm			
maximum continuous operating PSI		3000 PSI		207 bar			
output shaft options:		2" round, 2-9/16" round 2" hex					
output speed			output torque				
flow		speed	pressure		torque		
GPM	LPM	RPM	PSI	Bar	Lb·Ft	N·m	
10	38	41	2000	138	1510	2047	
12	45	49	2500	173	1888	2559	
14	53	57	3000	207	2265	3071	
16	61	64					
18	68	73					
20	76	81					
25	95	101					

C1420 Features:

- fixed chain centers
- floating drive sprocket
- maximum output torque 2,265 lb-ft.
- 10 to 25 GPM
- 30" maximum auger diameter
- output shafts available:
2" (51 mm) round
2-9/16" (65 mm) round
2" (51 mm) hex

Model C1920							
maximum auger diameter		36"		762 mm			
minimum hydraulic flow		15 GPM		57 lpm			
maximum hydraulic flow		30 GPM		114 lpm			
maximum continuous operating PSI		3000 PSI		207 bar			
output shaft options:		2" round, 2-9/16" round 2" hex					
output speed			output torque				
flow		speed	pressure		torque		
GPM	LPM	RPM	PSI	Bar	Lb·Ft	N·m	
15	57	48	2000	138	1895	2569	
18	68	58	2500	173	2369	3212	
20	76	65	3000	207	2843	3254	
22	83	71					
24	91	78					
26	98	84					
28	106	91					
30	114	97					

C1920 Features:

- fixed chain centers
- floating drive sprocket
- maximum output torque 2,843 lb-ft.
- 15 to 30 GPM
- 36" maximum auger diameter
- output shafts available:
2" (51 mm) round
2-9/16" (65 mm) round
2" (51 mm) hex

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Auger Drives

X3450/RX3450, X4450/RX4450

2 Year Comprehensive Warranty
Drain Line Required

Model X3450 / RX3450						
maximum auger diameter	36"		914 mm			
minimum hydraulic flow	25 GPM		95 lpm			
maximum hydraulic flow	45 GPM		170 lpm			
maximum continuous operating PSI	3000 PSI		207 bar			
maximum working back pressure	400 PSI		28 bar			
output shaft options:	2" hex		51 mm			
output speed				output torque		
flow	speed		pressure		torque	
GPM	LPM	RPM	PSI	Bar	Lb·Ft	N·m
25	95	56	2000	138	2727	3697
30	114	67	2500	172	3409	4622
35	132	79	3000	207	4091	5547
40	151	90				
45	170	101				

X3450 / RX3450 Features:

- planetary gear reduction output
- maximum output torque 4,091 lb-ft.
- 36" maximum auger diameter
- 2" Hex Output Shaft
- RX includes relief valve to limit to 3000 PSI

Model X4450 / RX4450						
maximum auger diameter	48"		1219 mm			
minimum hydraulic flow	30 GPM		114 lpm			
maximum hydraulic flow	60 GPM		227 lpm			
maximum continuous operating PSI	3000 PSI		207 bar			
maximum working back pressure	400 PSI		28 bar			
output shaft options:	2" hex		51 mm			
output speed				output torque		
flow	speed		pressure		torque	
GPM	LPM	RPM	PSI	Bar	Lb·Ft	N·m
30	114	52	2000	138	3504	4751
35	132	61	2500	172	4380	5938
40	151	70	3000	207	5256	7125
45	170	79				
50	189	87				
55	208	96				
60	227	105				

X4450 / RX4450 Features:

- planetary gear reduction
- maximum output torque 5,256 lb-ft.
- 48" maximum auger diameter
- 2" hex output shaft
- RX includes relief valve to limit to 3000 PSI

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Auger Drives

X8000/RX8000, X14K2/RX14K2

2 Year Comprehensive Warranty
Drain Line Required

M cMillen's X8000 is the most powerful single speed drive unit. This unit features a double planetary drive and output torque of 8,000 ft lbs at 3000 PSI with 40 GPM. Built to withstand 18,000 lbs of shaft pullout, pressure and side loads.

Model X8000 / RX8000							
maximum auger diameter		48"		1219 mm			
minimum hydraulic flow		30 GPM		114 lpm			
maximum hydraulic flow		50 GPM		189 lpm			
maximum working back pressure		500 PSI		35 bar			
maximum continuous operating PSI		3000 PSI		207 lpm			
output shaft options:		2½" hex, 2-5/8" hex					
output speed			output torque				
flow		speed		pressure		torque	
GPM	LPM	RPM	PSI	Bar	Lb·Ft	N·m	
30	114	28	2400	166	7027	9527	
40	151	38	2750	190	8137	11032	
50	189	50	3000	207	8433	11434	

- X8000 / RX8000 Features :**
- maximum output torque 8,433 lb-ft.
 - 48" maximum auger diameter
 - output shafts available:
2-1/2" (64 mm) hex
2-5/8" (67 mm) hex
 - 2 year comprehensive warranty

M cMillen's 14K2 Auger Drive is a heavy duty **two-speed shift on demand** drive unit. One of the main features of this extremely powerful drive unit is the **Power-On Demand Shifting**. As the ground conditions become more difficult, requiring higher torque, the unit senses it through the hydraulic pressure in the system and kicks the higher torque into gear. The X14K2 withstands 18,000 lbs of shaft pullout, pressure and side loads. At 14,000 ft lbs of torque, this drive unit has a higher torque rating than the comparable units currently on the market.

Model 14K2 / RX14K2 (2 Speed)							
maximum auger diameter		48"		1219 mm			
minimum hydraulic flow		40 GPM		151 lpm			
maximum hydraulic flow		55 GPM		208 lpm			
maximum continuous operating PSI		2400 PSI		166 bar			
maximum working back pressure		500 PSI		25 bar			
output shaft options:		2½" hex, 2-5/8" hex					
output speed			output torque				
flow		speed		pressure		torque	
GPM	LPM	low RPM	high RPM	PSI	Bar	high Lb·Ft	low N·m
40	151	19	41	2400	169	14440	19573
50	227	24	51			7027	9527

- X14K2 / RX14K2 Features:**
- 2 speed shift on demand
 - power on demand shifting
 - maximum output torque 14,440 lb-ft.
 - 48" Maximum Auger Diameter
 - 2-1/2" hex & 2-5/8" Hex output shafts
 - RX includes relief valve to limit to 2400 PSI
 - 2 year comprehensive warranty

**Use McMillen's heavy duty "MDC" or medium duty "MDF" augers for X8000 and X14K2 auger drives.*

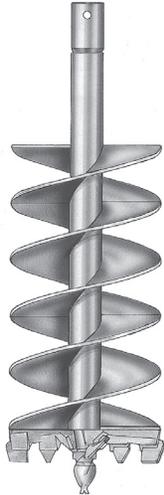
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Augers

2 year warranty on all Augers

Heavy Duty - HDC Style Augers

For difficult ground conditions, compacted soils, heavy clay, asphalt, frozen ground & fracturable rock



Diameter IN	MM	Tooth
		QTY
6"	152	2
8"	203	4
9"	229	4
10"	254	4
12"	305	4
15"	381	6
16"	406	6
18"	457	6
20"	508	6
24"	610	8
30"	762	10
36"	914	12
42"	1067	16
48"	1219	18

HDC Features:

- heavy duty cast steel boring head
- hardened drive-in gage teeth (outside positions)
- hardened drive-in wisdom teeth (inside positions)
- hardened fishtail point
- heavy-duty, double flighting
- collars available in 2" round, 2-9/16" round, and 2" hex
- available in 3', 4', 5' & 6' lengths

Medium Duty - HDF Style Augers

For light to moderate ground conditions



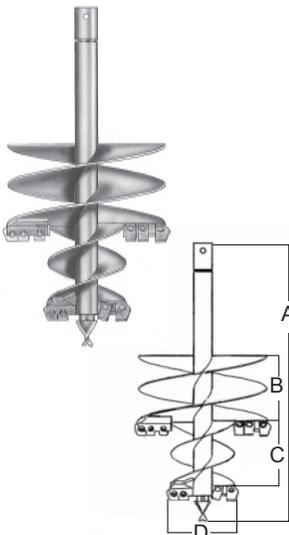
Diameter IN	MM	Tooth
		QTY
4"	102	NA
6"	152	2
8"	203	2
9"	229	3
10"	254	3
12"	305	4
15"	381	5
16"	406	5
18"	457	6
20"	507	6
24"	610	8
30"	762	9
36"	914	11

HDF Features:

- fabricated boring head
- hardened bolt-on gage teeth (outside positions)
- hardened bolt-on wisdom teeth (inside positions)
- hardened fishtail point
- heavy duty double flighting
- collars available in 2" round, 2-9/16" round, and 2" hex
- available in 3', 4', 5' & 6' lengths

HTF Style Auger - Tree Auger

For tree and shrub planting



Diameter IN	MM	Tooth QTY	Auger Size	Dimensional Information			
				A overall	B flighting	C flighting	D Pilot Dia.
18"	457	7	4'	48"	18"	7"	9"
24"	610	10	4'	48"	12"	12"	12"
30"	762	11	4'	48"	15"	8"	15"
36"	914	13	4'	48"	18"	6"	18"
42"	1067	15	4'	48"	11"	6"	18"
48"	1219	17	4'	48"	12"	6"	24"

HTF Features:

- 2 diameter design
- fabricated boring head
- hardened bolt-on gage teeth (outside positions)
- hardened bolt-on wisdom teeth (inside positions)
- hardened fishtail point
- heavy-duty double flighting
- collars available in 2" round, 2-9/16" round, and 2" hex
- available in 4' length

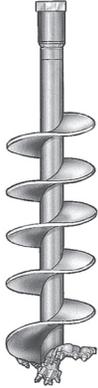
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Augers

2 year warranty available

Rock Augers - Bullet Tooth Style

For solid, fracturable rock, frozen ground & compacted soils



Diameter		Tooth
IN	MM	QTY
6"	152	6
9"	229	8
10"	254	8
12"	305	12
16"	406	16
18"	457	18
20"	508	20
24"	610	24
30"	762	30
36"	914	36

Rock Auger Features:

- bullet style teeth
- fabricated boring head
- heavy duty single flighting
- 2" hexagon collar **ONLY**
- available in 4' length
- 3/4" thick bottom flight
- hardfaced outer edge

Agricultural PTO Augers

Designed to fit all PTO drive units with 2" round output shafts



Diameter		Tooth
IN	MM	QTY
6"	152	2
9"	229	2
12"	305	4
14"	325	5
18"	457	6
24" tree	610	9

Agricultural PTO Auger Features:

- fabricated boring head
- hardened bolt-on gage teeth (outside)
- hardened bolt-on wisdom teeth (inside)
- hardened fishtail point
- heavy-duty double flighting
- PTO augers available in 42"/48" length

Medium Duty - MDF Style Augers

For light to moderate ground conditions

MDF Auger Features:

- fabricated boring head
- outside bolt-on gage teeth & wisdom teeth
- standard or carbide teeth and point available
- heavy-duty, 5/16" thick flighting
- available with standard or carbide wear components
- heavy-duty center shaft, 3 3/4" tubing x 5/16" wall
- collars available in 2 1/2" hexagon and 2-5/8" hexagon



Heavy Duty - MDC Style Augers

For difficult ground conditions, compacted soils, heavy clay, asphalt, frozen ground & fracturable rock

MDC Auger Features:

- heavy-duty cast steel boring head
- outside drive-in gage teeth & inside wisdom teeth
- standard or carbide teeth and point available
- heavy-duty, 5/16" thick flighting
- available with standard or carbide wear components
- heavy-duty center shaft, 3 3/4" tubing x 5/16" wall
- collars available in 2 1/2" hexagon and 2-5/8" hexagon



Diameter		Flighting	Tooth	Overall
IN	MM	Length	QTY	Length
8"	203	40" or 60"	2	103"
9"	229	40" or 60"	2	103"
10"	254	40" or 60"	2	103"
12"	305	40" or 60"	4	103"
14"	325	40" or 60"	4	103"
16"	406	40" or 60"	4	103"
18"	457	40" or 60"	6	103"
20"	508	40" or 60"	6	103"
24"	610	40" or 60"	7	103"
30"	762	40" or 60"	8	103"
36"	914	40" or 60"	8	103"
42"	1067	40" or 60"	10	103"
48"	1219	40" or 60"	13	103"

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Auger Accessories

Auger Adaptors

Output Shaft Size			Collar Opening Size		
IN	Type	MM	IN	Type	MM
2"	round	51	2"	hexagon	51
2"	hexagon	51	2"	round	51
2"	round	51	2-9/16"	round	65
2-9/16"	round	65	2"	round	51
2"	hexagon	51	2-9/16"	round	65
2-9/16"	round	65	2"	hexagon	51
2"	hexagon	51	2½"	hexagon	64
2½"	hexagon	64	2"	hexagon	51

Adaptors couple McMillen® Drive Units to competitive augers or McMillen Augers to competitive drive units. Determine drive unit output shaft and collar opening sizes and types (round or hexagon) to select proper adaptor.

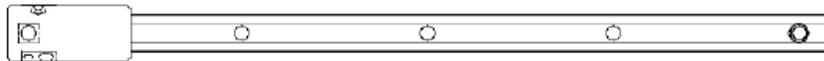
Fixed Length Auger Extensions



Ext. Length	2"	2-9/16"	2"	2½"	2-5/8"
IN	MM	round	round	hex	hex
12"	305	R2	R256	H2	
18"	457	R2	R256	H2	
24"	610	R2	R256	H2	
48"	1219	R2	R256	H2	
72"	1829	R2	R256	H2	H25 H265

Fixed length auger extensions extended the augers digging depth to exactly the length of the extension. McMillen® Fixed Length Extensions are available with 2" round, 2-9/16" round, 2" hexagon, 2½" hexagon, or 2-5/8" hexagon collars. These extensions do not store within the auger.

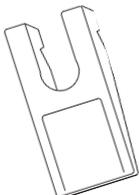
Variable Length Auger Extensions



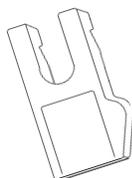
Ext. Length	2"	2-9/16"	2"	2½"	2-5/8"
IN	MM	round	round	hex	hex
12"	305	R2	R256	H2	
18"	457	R2	R256	H2	
24"	610	R2	R256	H2	
48"	1219	R2	R256	H2	
72"	1829	R2	R256	H2	H25 H265

Variable length auger extensions store inside the center tube of the augers that are 10" diameter or larger. Extension increments are every 6" on 12" through 24" extensions and every 12" on 48" and 72" extensions. Variable Length Extensions are available with 2" round, 2-9/16" round, 2" hexagon, 2½" hexagon, or 2-5/8" hexagon collars.

Wisdom Tooth
(part #22168)



Gage Tooth
(part #22169)



Fishtail (female)
(part #22171)



Fishtail (male)
(part #22190)



Carbide Tooth
(part #22186)



Chisel Tooth
(part #22181)



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