



DITCH WITCH R300, R230, R150

# THE ZAHN™



 **Ditch Witch**<sup>®</sup>  
TheZahn.com

THE ZAHN. THE REVOLUTION IS HERE.



## THE ZAHN

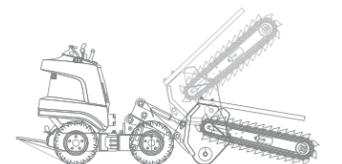
More power. More productivity. More speed. Simply put, the Zahn™ is the absolute greatest trencher ever made. And that says a lot coming from the company that invented the trencher.

But what makes the Zahn so breakthrough is its multi-function ability. In the past, when you bought versatility, or a machine with attachments, you expected to give up performance. But not with the Zahn. With its unique InterChange™ connection, the front end becomes the machine. Making it the best vibratory plow ever made. The best tool carrier ever made. The best backhoe ever made. And the best dumper, stump grinder, and tiller ever made.



## KEY FEATURES

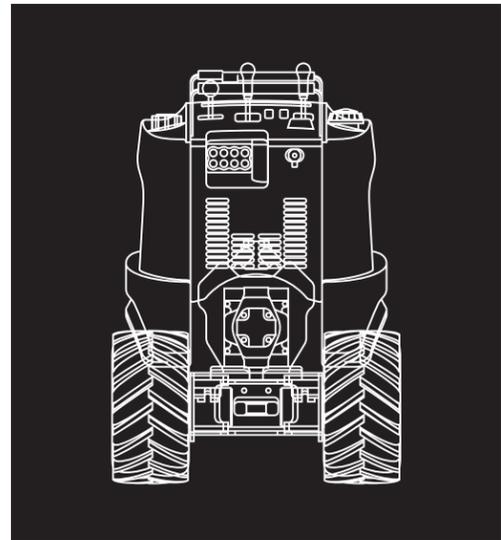
- Up to 30 horses of raw power.
- Unique InterChange connection (R230 and R300 only) enables the front end to become the machine and perform like a dedicated unit.
- Fully hydraulic, articulated steering provides unmatched maneuverability, enabling the operator to easily trench a curve.
- Ground speed of up to twice that of any pedestrian trencher, and faster than any mini skid steer on the market.
- Elevated operator work position offers an unobstructed view of the work, resulting in more accurate installations, increased productivity, and greater comfort.
- Compact size—models with 18-inch (457 mm) tires are only 36 inches (914 mm) wide—so the Zahn can get in, out, and around tight jobsites with ease.
- Each unit is incredibly well-balanced, its weight distributed to maximize the efficiency of trenching, backfilling, plowing, and any task it's given.
- Roomy, ride-on platform is designed to absorb shock, reduce fatigue, and keep the operator out of dirt, mud, and debris.



## THE ZAHN Power Units

Each Zahn power unit includes the engine, operator's console, and the articulation joint. The R230 and R300 units also have a unique InterChange connection that accepts up to seven types of front ends: trencher, plow, dumper, tiller, backhoe, stump grinder, and a tool carrier that can drive more than 40 quick-change attachments.

The 2WD R150 is essentially a dedicated trencher. The 2WD R230 and R300 accept two trencher front ends, while their 4WD counterparts accept all seven types of front ends—with more planned for the near future.



## KEY FEATURES

### THE ZAHN R300/R230

- The 4WD models accept all seven types of Zahn front ends, providing an unprecedented combination of power and versatility.
- High-performance, 30-hp (22.4 kW) or 23-hp (17.1 kW) Kohler gas engine enables truly dedicated performance from each front end.
- Selectable ground drive speed ranges enable the operator to choose the optimal speed and controllability for different applications.
- Multiple tire options for multiple tasks:
  - 18-inch (457 mm) air-filled tires.
  - 18-inch (457 mm) urethane-filled, flat-proof tires provide additional stability when trenching, tilling, etc.
  - 20-inch (508 mm) urethane-filled, flat-proof tires provide heavy-duty performance, maximum stability, and minimal tire deflection under load.
- Rear fenders deflect dirt and debris kicked up by the machine's tires, increasing operator comfort and safety.

### THE ZAHN R150

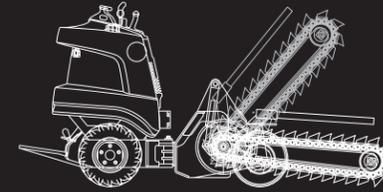
- Unbeatable combination of outstanding power, articulation, and compact size create one of the most innovative trenchers ever.
- 15-hp (11.2 kW) Honda gas engine efficiently utilizes horsepower; electronic throttle, auto choke (on electric-start models), and other features combine to provide outstanding power and performance.
- 18-inch (457 mm) air-filled tires.
- 18-inch (457 mm) urethane-filled, flat-proof tires provide additional stability when trenching.
- One ground drive speed optimized for trenching.

### ALL MODELS

- Soft-touch, color-coded, ergonomic controls are easy to grip, easy to learn, and provide smooth, easy operation.
- Standard cruise control, which locks in operating speeds, reduces operator fatigue and increases productivity.
- 11-gallon (41.6 L) fuel tank enables the operator to work all day without having to refuel; the tank's molded-in sight glass allows the operator to keep an eye on fuel consumption.
- Convenient cargo tray is large enough to store a water bottle, work gloves, cell phone or assorted tools.
- Units have an exclusive traction-assist feature that provides extra drawbar on demand, enabling the operator to push more, pull more, and traverse soft ground with minimal tire slippage.
- Dual wheels provide outstanding traction and stability, even on slopes; high-flotation tires distribute weight evenly, allowing the Zahn to traverse lawns and other delicate turf with minimal impact.

## THE ZAHN Trencher

With its power, compact size, and superior articulating ability, the Zahn trencher can trench a curve around a swimming pool, building or garden as easily as it can trench a straight line. The Zahn trencher transcends ordinary performance and enters a new realm of trenching.



### SPECIFICATIONS

DIMENSIONS	U.S.	METRIC
Mobile Length	90.5 in	2.30 m
Mobile Height	53.5 in	1.36 m
Width	36 in	914 mm

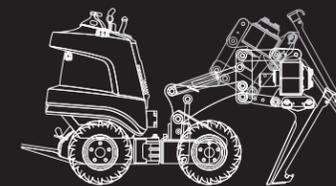


### KEY FEATURES

- Design concentrates weight on the digging chain so it penetrates the ground easier, enhancing overall stability.
- Hydraulic drive eliminates maintenance of chains, belts and linkages, and allows the use of a reversible digging chain that dislodges rocks and other debris without manual assistance.
- Two-wheel-drive models accept chains up to 8 inches (203 mm) wide, while the 4WD model accepts up to a 12-inch (305 mm) chain, so you can dig trenches for virtually any application.
- A hydraulic auger that runs independent of the headshaft is standard equipment on 4WD trenchers and optional on 2WD trenchers; this feature reduces the amount of carryover, increasing productivity.
- Trench depth indicator (2WD models only) allows the operator to continually monitor the depth of the trench from the comfort of the operator's station, reducing operator fatigue and increasing productivity.
- (Photograph A) Optional Roto Witch® enables boring under sidewalks and other obstacles, reducing jobsite restoration.
- (Photograph B) Remote grease fittings are located in one easily accessible spot, minimizing maintenance and downtime.

## THE ZAHN Plow

The Zahn plow is a utility contractor's dream come true. With its extraordinary power, remarkable articulating ability and lightweight, compact size, you can install utility and communications cable and conduit in tight spaces, around troublesome obstacles, and under delicate turf.



### SPECIFICATIONS

DIMENSIONS	U.S.	METRIC
Mobile Length	104.8 in	2.66 m
Mobile Height	56 in	1.42 m
Width	36 in	914 mm



### KEY FEATURES

- Variable blade pitch allows operator to change the angle of the leading edge of the blade to be more or less aggressive, to match soil conditions.
- Accepts standard Ditch Witch vibratory plow blades, eliminating the need to purchase new blades.
- Optional sod cutter and skid shoes provide greater versatility and minimize restoration.
- (Photograph A) Ergonomically designed operator's station features soft-touch, color-coded controls that are easy to learn and provide smooth, easy operation.
- (Photograph B) Optional reel carrier provides efficient installation of cable.
- Units have an exclusive traction-assist feature that provides extra drawbar on demand, enabling the operator to push more, pull more, and traverse soft ground with minimal tire slippage.
- 11-gallon (41.6 L) fuel tank enables the operator to work all day without having to refuel; the tank's molded-in sight glass allows the operator to keep an eye on fuel consumption.
- Standard cruise control, which locks in operating speeds, reduces operator fatigue and increases productivity.
- Soft-touch, color-coded, ergonomic controls are easy to grip, easy to learn, and provide smooth, easy operation.
- Convenient cargo tray is large enough to store a water bottle, work gloves, cell phone or assorted tools.

## THE ZAHN Tool Carrier

With a front-end tool carrier, the R300 and R230 are the most versatile members of the Zahn family. The high- and low-lift tool carriers are capable of driving more than 40 quick-change attachments. And with the Zahn's elevated platform, you'll have a bird's-eye view of the task at hand.



### SPECIFICATIONS

DIMENSIONS	U.S.	METRIC
Mobile Length - High Lift	91.5 in	2.32 m
Mobile Length - Low Lift	79.2 in	2.01 m
Mobile Height	53.5 in	1.36 m
Width	36 in	914 mm

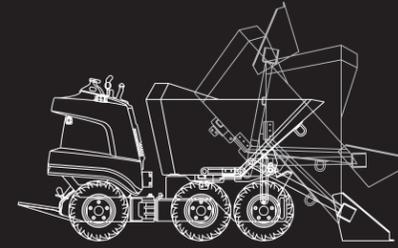


### KEY FEATURES

- The high-lift-arm's 73-inch (1.85 m) hinge pin height provides the flexibility to perform an extensive range of tasks.
- 4-bar linkage on bucket curl increases the high-lift-arm's rollback and dump angles so it can move materials more efficiently.
- (Photograph A) Kickstand provides quick and easy attachment to and removal from the power unit, increasing productivity.
- (Photograph B) Standard mini skid steer-type attachment plate (optional with low-lift model) provides maximum versatility by enabling the tool carrier to accept more than 40 quick-change attachments.
- The high-lift-arm's optional hydraulic self-leveling kit—an exclusive feature in this class—ensures that the attachment is level, so work can be more accurate and efficient.
- Units have an exclusive traction-assist feature that provides extra drawbar on demand, enabling the operator to push more, pull more, and traverse soft ground with minimal tire slippage.
- 11-gallon (41.6 L) fuel tank enables the operator to work all day without having to refuel; the tank's molded-in sight glass allows the operator to keep an eye on fuel consumption.
- Standard cruise control, which locks in operating speeds, reduces operator fatigue and increases productivity.
- Soft-touch, color-coded, ergonomic controls are easy to grip, easy to learn, and provide smooth, easy operation.
- Convenient cargo tray is large enough to store a water bottle, work gloves, cell phone or assorted tools.

## THE ZAHN Dumper

Worried about moving large amounts of material with a compact machine? Take a load off your mind. Both the small and large Zahn dumpers feature extremely durable, all-steel tubs that can handle rock, gravel, concrete, demolition debris, and every conceivable type of jobsite material.



### SPECIFICATIONS

DIMENSIONS	U.S.	METRIC
Mobile Length - Large	103 in	2.62 m
Mobile Length - Small	86.9 in	2.21 m
Mobile Height	80.3 in	2.04 m
Width	36 in	914 mm

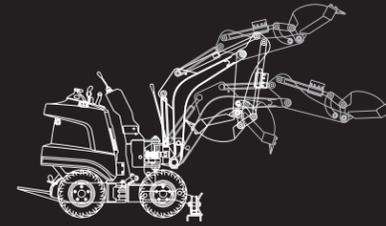


### KEY FEATURES

- Large dumper's 20-cu-ft (0.57 m<sup>3</sup>) and 3000-lb (1360.8 kg) payload capacity means fewer work cycles and outstanding productivity; ideal for open construction sites where moving large amounts of debris is required.
- Small dumper's 12-cu-ft (0.34 m<sup>3</sup>) and 1800-lb (816.5 kg) payload capacity is ideal for small to medium construction tasks in tight jobsites.
- (Photograph A) Dual-element remote air cleaner (standard on R230 and R300) provides outstanding filtration even in dusty conditions.
- Optional self-loading capability reduces labor and cycle times and increases productivity.
- Color-coded hose connections make it easy to attach the front end to the power unit, for greater convenience and productivity.
- (Photograph B) Convenient cargo tray is large enough to store a water bottle, work gloves, cell phone, keys, and/or assorted tools.
- Units have an exclusive traction-assist feature that provides extra drawbar on demand, enabling the operator to push more, pull more, and traverse soft ground with minimal tire slippage.
- 11-gallon (41.6 L) fuel tank enables the operator to work all day without having to refuel; the tank's molded-in sight glass allows the operator to keep an eye on fuel consumption.

## THE ZAHN Backhoe

The highly productive Zahn backhoe features a flat bottom depth of more than five feet (1.52 m), so it can do the work of a mini excavator while working in tight spaces, and with greater mobility. The backhoe is controlled from the operator's station, which reduces operator fatigue and improves visibility.



### SPECIFICATIONS

DIMENSIONS	U.S.	METRIC
Mobile Length	110 in	2.79 m
Mobile Height	75.5 in	1.92 m
Width	36 in	914 mm



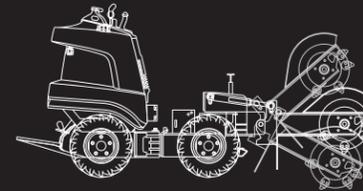
### KEY FEATURES

- (Photograph A) Integrated backfill blade and stabilizers increase the unit's stability as well as its efficiency of jobsite restoration.
- (Photograph B) Color-coded hose connections make it easy to attach the front end to the power unit, for greater convenience and productivity.
- 11-gallon (41.6 L) fuel tank enables the operator to work all day without having to refuel; the tank's molded-in sight glass allows the operator to keep an eye on fuel consumption.
- Soft-touch, color-coded, ergonomic controls are easy to grip, easy to learn, and provide smooth, easy operation.
- Convenient cargo tray is large enough to store a water bottle, work gloves, cell phone or assorted tools.



## THE ZAHN Stump Grinder

With the Zahn stump grinder, it doesn't matter where the stump is. With its maneuverable 4WD tires, narrow width, and the power unit's incredible articulation, the Zahn stump grinder can get into position fast and make short work of stumps of up to 24" (610 mm) high and 36" (914 mm) in diameter.



### SPECIFICATIONS

DIMENSIONS	U.S.	METRIC
Mobile Length	108.6 in	2.76 m
Mobile Height	53.5 in	1.36 m
Width	36 in	914 mm

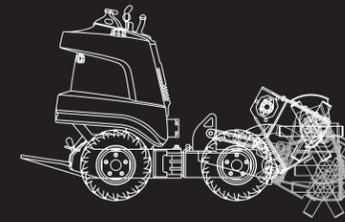


### KEY FEATURES

- Low-maintenance hydraulic wheel has no belts, gears, or pulleys to adjust, minimizing maintenance and downtime.
- Reversible wheel can dislodge stump debris without manual assistance, further reducing downtime.
- Color-coded hose connections make it easy to attach the front end to the power unit, for greater convenience and productivity.
- (Photograph A) A choice of 18- or 20-inch tires, air- or urethane-filled, depending on jobsite conditions and traction requirements.
- (Photograph B) The 11-gallon (41.6 L) fuel tank enables you to work all day without having to refuel; with the tank's molded-in sight glass, you can keep a close eye on fuel consumption.
- Soft-touch, color-coded, ergonomic controls are easy to grip, easy to learn, and provide smooth, easy operation.
- Convenient cargo tray is large enough to store a water bottle, work gloves, cell phone or assorted tools.

## THE ZAHN Tiller

At only 36" (914 mm) wide, the Zahn tiller can easily pass through a standard yard gate and maneuver in the tightest spaces. Both the R300 and R230 supply plenty of power to prepare the toughest of soils, and the tiller's offset capability enables the operator to confidently till right next to a fence or wall.



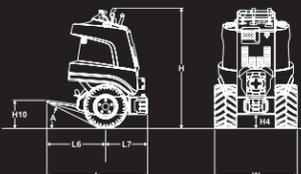
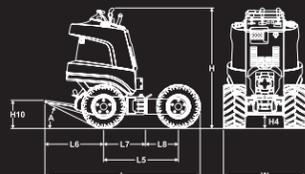
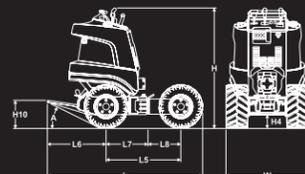
### SPECIFICATIONS

DIMENSIONS	U.S.	METRIC
Mobile Length	91.6 in	2.33 m
Mobile Height	53.5 in	1.36 m
Width	36 in	914 mm



### KEY FEATURES

- Hydraulically driven tiller minimizes maintenance and downtime.
- Reversing capability enables operator to dislodge rocks and other debris without manual aid, further reducing downtime.
- Color-coded hose connections make it easy to attach the front end to the power unit, for greater convenience and productivity.
- (Photograph A) Tiller's offset capability enables the operator to confidently till right next to a fence or wall.
- (Photograph B) Optional, adjustable-depth skid shoes enable operator to vary tilling depth, increasing the unit's versatility.
- Units have an exclusive traction-assist feature that provides extra drawbar on demand, enabling the operator to push more, pull more, and traverse soft ground with minimal tire slippage.
- 11-gallon (41.6 L) fuel tank enables the operator to work all day without having to refuel; the tank's molded-in sight glass allows the operator to keep an eye on fuel consumption.
- Standard cruise control, which locks in operating speeds, reduces operator fatigue and increases productivity.



## SPECIFICATIONS

### R300

### R230

### R150

DIMENSIONS*	WITH 18 X 9.5-8 TIRES		WITH 18 X 9.5-8 TIRES		WITH 18 X 9.5-8 TIRES	
	U.S.	METRIC	U.S.	METRIC	U.S.	METRIC
L MOBILE LENGTH	70 IN	1.78 M	70 IN	1.78 M	43 IN	1.09 M
L5 WHEELBASE	34.2 IN	869 MM	34.2 IN	869 MM	N/A	N/A
L6 TRACTOR BACK TO REAR AXLE	26.8 IN	681 MM	26.8 IN	681 MM	26.8 IN	681 MM
L7 REAR AXLE TO ATTACHMENT MOUNTING	19.2 IN	488 MM	19.2 IN	488 MM	19.2 IN	488 MM
L8 ATTACHMENT MOUNTING TO FRONT AXLE	15.0 IN	381 MM	15.0 IN	381 MM	N/A	N/A
H MOBILE HEIGHT	53.5 IN	1.36 M	53.5 IN	1.36 M	53.5 IN	1.36 M
H4 GROUND CLEARANCE	5.3 IN	135 MM	5.3 IN	135 MM	5.3 IN	135 MM
H10 PLATFORM HEIGHT	10.7 IN	272 MM	10.7 IN	272 MM	10.7 IN	272 MM
W WIDTH	36 IN	914 MM	36 IN	914 MM	36 IN	914 MM
A ANGLE OF DEPARTURE	25°		25°		25°	
MASS	1290 LB	585 KG	1290 LB	585 KG	968/1010 LB	439/458 KG
VEHICLE CLEARANCE CIRCLE (SAE) WALL TO WALL RIGHT TURN, 18 X 9.5-8 TIRES LEFT TURN, 18 X 9.5-8 TIRES	11.3 FT 10.5 FT	3.44 M 3.20 M	11.3 FT 10.5 FT	3.44 M 3.20 M	N/A N/A	N/A N/A
<b>OPERATION</b>						
GROUND DRIVE SPEED, FORWARD						
LOW	3.5 MPH	5.6 KM/H	3.5 MPH	5.6 KM/H	3.3 MPH	5.3 KM/H
HIGH	5.9 MPH	9.5 KM/H	5.9 MPH	9.5 KM/H	3.3 MPH	5.3 KM/H
GROUND DRIVE SPEED, REVERSE						
LOW	3.5 MPH	5.6 KM/H	3.5 MPH	5.6 KM/H	3.3 MPH	5.3 KM/H
HIGH	5.9 MPH	9.5 KM/H	5.9 MPH	9.5 KM/H	3.3 MPH	5.3 KM/H
<b>POWER PLANT</b>						
ENGINE	KOHLER CH750S		KOHLER CH23S		HONDA IGX440	
FUEL	GASOLINE		GASOLINE		GASOLINE	
COOLING MEDIUM	AIR		AIR		AIR	
NUMBER OF CYLINDERS	2		2		1	
DISPLACEMENT	45.6 IN <sup>3</sup>	747 CC	41.1 IN <sup>3</sup>	674 CC	26.7 IN <sup>3</sup>	438 CC
BORE	3.30 IN	83 MM	3.15 IN	80 MM	3.46 IN	88 MM
STROKE	2.70 IN	69 MM	2.64 IN	67 MM	2.84 IN	72.1
MANUFACTURER'S POWER RATING	30 HP	22.4 KW	23 HP	17.2 KW	15 HP	9.5 KW
RATED SPEED	3600 RPM		3600 RPM		3600 RPM	
<b>POWER TRAIN</b>						
PARKING BRAKE	MECHANICAL, HAND OPERATED		MECHANICAL, HAND OPERATED		MECHANICAL, HAND OPERATED	
SERVICE BRAKE	GROUND DRIVE SPEED/DIRECTION CONTROL BRAKES MACHINE HYDRAULICALLY WHEN MOVED TO NEUTRAL POSITION		GROUND DRIVE SPEED/DIRECTION CONTROL BRAKES MACHINE HYDRAULICALLY WHEN MOVED TO NEUTRAL POSITION		GROUND DRIVE SPEED/DIRECTION CONTROL BRAKES MACHINE HYDRAULICALLY WHEN MOVED TO NEUTRAL POSITION	

\*UNLESS OTHERWISE SPECIFIED, ALL FIGURES ARE FOR STANDARD EQUIPMENT ONLY. SPECIFICATIONS ARE CALLED OUT ACCORDING TO SAE RECOMMENDED PROCEDURES. DUE TO SELECTED OPTIONS, DELIVERED EQUIPMENT MAY NOT NECESSARILY MATCH THAT DESCRIBED. SPECIFICATIONS ARE GENERAL AND SUBJECT TO CHANGE WITHOUT NOTICE. IF EXACT MEASUREMENTS ARE REQUIRED, EQUIPMENT SHOULD BE WEIGHED AND MEASURED.

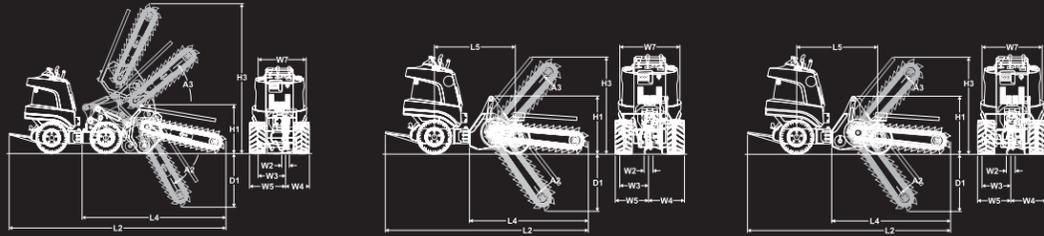
## SPECIFICATIONS

### R300

### R230

### R150

TIRES/PRESSURE	WITH 18 X 9.5-8 TIRES		WITH 18 X 9.5-8 TIRES		WITH 18 X 9.5-8 TIRES	
	U.S.	METRIC	U.S.	METRIC	U.S.	METRIC
18 X 9.5-8, 2 PLY, BAR LUG	12 PSI	82.7 KPA	12 PSI	82.7 KPA	12 PSI	82.7 KPA
TIRE ASSEMBLY MASS	22 LB	9.98 KG	22 LB	9.98 KG	22 LB	9.98 KG
URETHANE FILLED 18 X 9.5-8, 2 PLY, BAR LUG	N/A	N/A	N/A	N/A	N/A	N/A
TIRE ASSEMBLY MASS	36 LB	16.33 KG	36 LB	16.33 KG	36 LB	16.33 KG
URETHANE FILLED 20 X 10-8, PLY, BAR LUG	N/A	N/A	N/A	N/A	N/A	N/A
TIRE ASSEMBLY MASS	49 LB	22.23 KG	49 LB	22.23 KG	N/A	N/A
18 X 8.5-8, PLY, TURF	22 PSI	151.7 KPA	22 PSI	151 KPA	22 PSI	KPA
TIRE ASSEMBLY MASS	20 LB	9.07 KG	20 LB	9.07 KG	20 LB	9.07 KG
<b>HYDRAULIC SYSTEM</b>						
AUXILIARY: GEAR PUMP						
FLOW RATE	12 GPM	46 L/MIN	12 GPM	46 L/MIN	7.4 GPM	28 L/MIN
PRESSURE	3000 PSI	207 BAR	3000 PSI	207 BAR	3000 PSI	207 BAR
GROUND DRIVE: HYDROSTAT						
FLOW RATE	19.3 GPM	73 L/MIN	19.3 GPM	73 L/MIN	11.4 GPM	43.2 L/MIN
PRESSURE	3500 PSI	241 BAR	3500 PSI	241 BAR	1800 PSI	124 BAR
<b>FLUID CAPACITIES</b>						
FUEL TANK	10.9 GAL	41.3 L	10.9 GAL	41.3 L	10.9 GAL	41.3 L
ENGINE OIL, INCLUDING FILTER	2 QT	1.9 L	2 QT	1.9 L	1.6 QT	1.1 L
HYDRAULIC RESERVOIR	7.7 GAL	29.1 L	7.7 GAL	29.1 L	7.7 GAL	29.1 L
TOTAL HYD. SYSTEM VOLUME	8.5 GAL	32.2 L	8.5 GAL	32.2 L	8.5 GAL	32.2 L
<b>BATTERY</b>						
SAE RESERVE CAPACITY RATING	32 MIN		32 MIN		R150E ONLY	
SAE COLD CRANK RATING @ 0°F (-18°C)	200 AMPS		200 AMPS		200 AMPS	



## SPECIFICATIONS

### ZAHN TRENCHER 4-WHEEL DRIVE

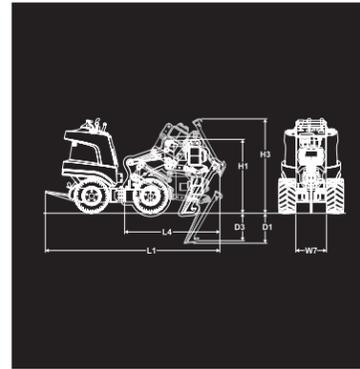
### ZAHN TRENCHER HEADSHAFT AUGER

### ZAHN TRENCHER INDEPENDENT AUGER

DIMENSIONS*	WITH 36" BOOM 8" CHAIN		WITH 24" BOOM 4" CHAIN		WITH 24" BOOM 4" CHAIN	
	U.S.	METRIC	U.S.	METRIC	U.S.	METRIC
L MOBILE LENGTH	126 IN	3.20 M	90.5 IN	2.30 M	90.5 IN	2.30 M
L2 MAX LENGTH	142.8 IN	3.63 M	104.5 IN	2.65 M	104.5 IN	2.65 M
L4 ATTACHMENT LENGTH	58.5 IN	1.49 M	58.5 IN	1.49 M	58.5 IN	1.49 M
L5 WHEELBASE	34.2 IN	869 MM	44.2 IN	1.12 M	44.2 IN	1.12 M
H MOBILE HEIGHT	65 IN	1.65 M	53.5 IN	1.36 M	53.5 IN	1.36 M
H1 TIE-DOWN HEIGHT	30.5 IN	775 MM	31.7 IN	805 MM	31.7 IN	805 MM
H3 MAX ATTACHMENT HEIGHT	101 IN	2.57 M	49.3 IN	1.25 M	49.3 IN	1.25 M
D1 OPERATING DEPTH (MAX)	48 IN	1.22 M	36 IN	914 MM	36 IN	914 MM
W WIDTH	36 IN	915 MM	36 IN	914 MM	36 IN	914 MM
W2 CUTTING WIDTH	4 IN - 12 IN	102 - 305 MM	4 IN - 8 IN	102 - 203 MM	4 IN - 8 IN	102 - 203 MM
W3 SPOILS WIDTH	16 IN	406 MM	13.8 IN	351 MM	16 IN	406 MM
W4 CENTERLINE OF TRENCH LEFT	14 IN	356 MM	18.5 IN	470 MM	18.5 IN	470 MM
W5 CENTERLINE OF TRENCH RIGHT	22 IN	560 MM	17.5 IN	445 MM	17.5 IN	445 MM
W7 ATTACHMENT WIDTH	30.5 IN	775 MM	34 IN	864 MM	33 IN	838 MM
A ANGLE OF DEPARTURE	25°		25°		25°	
A2 ATTACHMENT TRAVEL DOWN (RECOMMENDED)	60°		60°		60°	
A3 ATTACHMENT TRAVEL UP (RECOMMENDED)	40°		50°		50°	
UNIT MASS	1953 LB	885.9 KG	1438 LB	652.3 KG	1488 LB	674.9 KG
ATTACHMENT MASS W/36" BOOM AND 8" CHAIN	462 LB	209.6 KG	420 LB	190.5 KG	440 LB	199.6 KG
<b>HEADSHAFT SPEEDS</b> (@ 3600-RPM ENGINE)						
LOW SPEED / HIGH TORQUE	165 RPM		165 RPM		165 RPM	
MEDIUM SPEED / MEDIUM TORQUE	207 RPM		207 RPM		207 RPM	
HIGH SPEED / LOW TORQUE	260 RPM		260 RPM		260 RPM	
<b>POWERTRAIN</b>						
DIGGING CHAIN DRIVE	HYDRAULIC DIRECT DRIVE		HYDRAULIC DIRECT DRIVE		HYDRAULIC DIRECT DRIVE	
DIGGING CHAIN	33,000 LB OR 35,000 LB		33,000 LB OR 35,000 LB		33,000 LB OR 35,000 LB	
SPOILS HANDLING DRIVE	HYDRAULIC, INDEPENDENT		MECHANICAL, ATTACH TO HEADSHAFT		HYDRAULIC, INDEPENDENT	
CHAIN DRIVE SPROCKET	FORGED AND TEMPERED		FORGED AND TEMPERED		FORGED AND TEMPERED	
<b>OPERATION</b>						
DIGGING CHAIN SPEED						
MINIMUM	230 FT/MIN	70.1 M/MIN	290 FT/MIN	88.4 M/MIN	230 FT/MIN	70.1 M/MIN
MAXIMUM	290 FT/MIN	88.4 M/MIN	364 FT/MIN	111 M/MIN	364 FT/MIN	111 M/MIN
TRENCH CLEANER TYPE	MECHANICAL		MECHANICAL		MECHANICAL	
MINIMUM	4 IN	102 MM	4 IN	102 MM	4 IN	102 MM
MAXIMUM	12 IN	305 MM	8 IN	203 MM	8 IN	203 MM
SPOILS HANDLING	SINGLE OPEN END AUGER		SINGLE OPEN END AUGER		SINGLE OPEN END AUGER	
AUGER SIZE	6.18" OD X 2" ID X 17.25" LONG		18" OD X 2" ID X 8.7" LONG		6.18" OD X 2" ID X 17.25" LONG	
<b>TIRES/PRESSURE</b>						
URETHANE-FILLED TRAIL WHEEL	N/A	N/A	16 X 6.5-8, PLY, BAR LUG		16 X 6.5-8, PLY, BAR LUG	
TIRE ASSEMBLY MASS	N/A	N/A	18 LB	8.16 KG	18 LB	8.16 KG

\*UNLESS OTHERWISE SPECIFIED, ALL FIGURES ARE FOR STANDARD EQUIPMENT ONLY. SPECIFICATIONS ARE CALLED OUT ACCORDING TO SAE RECOMMENDED PROCEDURES. DUE TO SELECTED OPTIONS, DELIVERED EQUIPMENT MAY NOT NECESSARILY MATCH THAT DESCRIBED. SPECIFICATIONS ARE GENERAL AND SUBJECT TO CHANGE WITHOUT NOTICE. IF EXACT MEASUREMENTS ARE REQUIRED, EQUIPMENT SHOULD BE WEIGHED AND MEASURED.

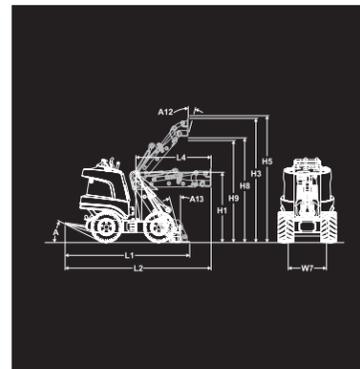
## ZAHN VIBRATORY PLOW



DIMENSIONS	U.S.	METRIC
L MOBILE LENGTH	104.8 IN	2.66 M
L1 TIE-DOWN LENGTH	101.8 IN	2.59 M
L4 ATTACHMENT LENGTH	55.5 IN	1.41 M
H MOBILE HEIGHT	56 IN	1.42 M
H1 TIE-DOWN HEIGHT	43 IN	1.09 M
H3 MAX ATTACHMENT HEIGHT	56 IN	1.41 M
D1 OPERATING DEPTH	20 IN	508 MM
D3 COVER DEPTH	18 IN	457 MM
W WIDTH	36 IN	914 MM
W7 ATTACHMENT WIDTH	18 IN	457 MM
A ANGLE OF DEPARTURE	25°	
A1 ANGLE OF APPROACH	30°	
UNIT MASS	1839 LB	834.2 KG
ATTACHMENT MASS W/BLADE	348 LB	157.9 KG

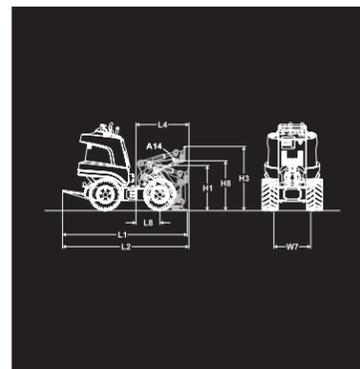
OPERATION	U.S.	METRIC
PLOW VIBRATOR FORCE @ 1600 RPM	4600 LB	20.46 KN
MAXIMUM MATERIAL DIAMETER		
PULLED	3 IN	76 MM
FED	1 IN	25 MM

## ZAHN HIGH-LIFT TOOL CARRIER



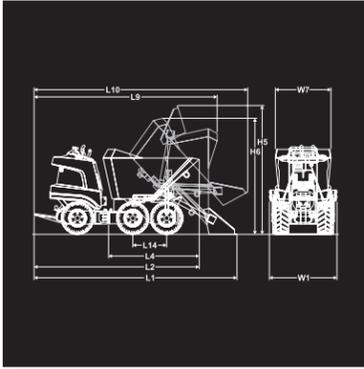
DIMENSIONS	U.S.	METRIC
L MOBILE LENGTH	91.5 IN	2.32 M
L1 TIE-DOWN LENGTH	29.8 IN	757 MM
L2 MAX LENGTH	91.5 IN	2.32 M
L4 ATTACHMENT LENGTH	45.7 IN	1.16 M
H MOBILE HEIGHT	53.5 IN	1.36 M
H1 TIE-DOWN HEIGHT	46.1 IN	1.17 M
H3 MAX ATTACHMENT HEIGHT	81.8 IN	2.08 M
H5 MAX BUCKET HEIGHT	96 IN	2.44 M
H8 HINGE PIN HEIGHT	73 IN	1.85 M
H9 DUMP CLEARANCE	55.5 IN	1.41 M
W WIDTH	36 IN	914 MM
W7 ATTACHMENT WIDTH	23 IN	584 MM
A ANGLE OF DEPARTURE	25°	
A12 DUMP ANGLE	53°	
A13 ROLLBACK ANGLE	18°	
UNIT MASS	1663 LB	754 KG
ATTACHMENT MASS	373 LB	169 KG
TIPPING CAPACITY	800 LB	362.9 KG
RATED OPERATING CAPACITY (50% OF TIPPING CAPACITY)	400 LB	181.4 KG

## ZAHN LOW-LIFT TOOL CARRIER



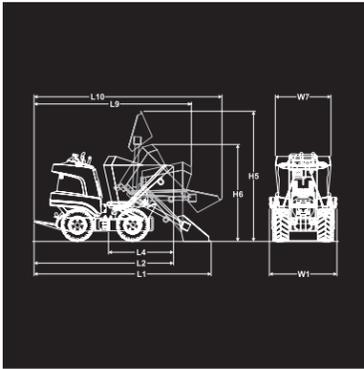
DIMENSIONS	U.S.	METRIC
L MOBILE LENGTH	79.2 IN	2.01 M
L1 TIE-DOWN LENGTH	76.8 IN	1.95 M
L2 MAX LENGTH	79.2 IN	2.01 M
L4 ATTACHMENT LENGTH	33.3 IN	846 MM
L8 ATTACHMENT MOUNTING TO FRONT AXLE	15.0 IN	381 MM
H MOBILE HEIGHT	53.5 IN	1.36 M
H1 TIE-DOWN HEIGHT	27.1 IN	688 MM
H3 MAX ATTACHMENT HEIGHT	39.0 IN	991 MM
H8 HINGE PIN HEIGHT	31.3 IN	795 MM
W WIDTH	36 IN	914 MM
W7 ATTACHMENT WIDTH	23 IN	584 MM
A ANGLE OF DEPARTURE	25°	
A14 ATTACHMENT ANGLE	70°	
UNIT MASS	1562 LB	709 KG
ATTACHMENT MASS	272 LB	123.4 KG

## ZAHN LARGE DUMPER



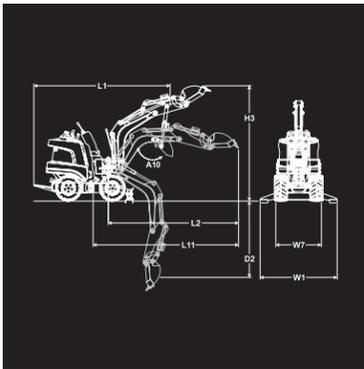
DIMENSIONS*		U.S.	METRIC
L	MOBILE LENGTH	103 IN	2.62 M
L1	TIE-DOWN LENGTH	128.9 IN	3.27 M
L2	MAX LENGTH	103 IN	2.62 M
L4	ATTACHMENT LENGTH	56.8 IN	1.44 M
L9	MAX DUMPING LENGTH (W/OUT BUCKET)	111.5 IN	2.83 M
L10	MAX DUMPING LENGTH (W/BUCKET)	141.8 IN	3.60 M
H	MOBILE HEIGHT	80.3 IN	2.04 M
H5	MAX BUCKET HEIGHT	80.3 IN	2.04 M
H6	DUMP HEIGHT	71.8 IN	1.82 M
W	WIDTH	36 IN	914 MM
W1	MAX WIDTH	43.3 IN	1.10 M
W7	ATTACHMENT WIDTH	35 IN	889 MM
A	ANGLE OF DEPARTURE	25°	
VOLUME		20 FT <sup>3</sup>	0.57 M <sup>3</sup>
PAYLOAD MASS		3000 LB	1360.8 KG
UNIT MASS (W/BUCKET)		2213 LB	1003.8 KG
ATTACHMENT MASS (W/BUCKET)		923 LB	418.7 KG
VEHICLE CLEARANCE CIRCLE (SAE) WALL TO WALL			
RIGHT TURN, 18 X 9.5-8 TIRES		153.6 IN	3.90 M
LEFT TURN, 18 X 9.5-8 TIRES		142.8 IN	3.63 M

## ZAHN SMALL DUMPER



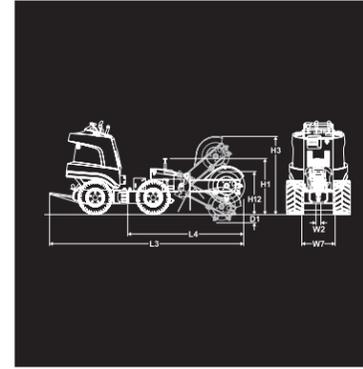
DIMENSIONS		U.S.	METRIC
L	MOBILE LENGTH	86.9 IN	2.21 M
L1	TIE-DOWN LENGTH	113.2 IN	2.88 M
L2	MAX LENGTH	86.9 IN	2.21 M
L4	ATTACHMENT LENGTH	40.5 IN	1.03 M
L9	MAX DUMPING LENGTH (W/OUT BUCKET)	95.3 IN	2.42 M
L10	MAX DUMPING LENGTH (W/BUCKET)	125.9 IN	3.20 M
H	MOBILE HEIGHT	80.3 IN	2.04 M
H5	MAX BUCKET HEIGHT	80.3 IN	2.04 M
H6	DUMP HEIGHT	59.6 IN	1.51 M
W	WIDTH	36 IN	914 MM
W1	MAX WIDTH	43.3 IN	1.10 M
W7	ATTACHMENT WIDTH	35 IN	889 MM
A	ANGLE OF DEPARTURE	25°	
A1	ANGLE OF APPROACH	30°	
VOLUME		12 FT <sup>3</sup>	0.34 M <sup>3</sup>
PAYLOAD MASS		1800 LB	816.5 KG
UNIT MASS (W/OUT BUCKET)		1711 LB	776.1 KG
ATTACHMENT MASS (W/OUT BUCKET)		421 LB	191 KG
VEHICLE CLEARANCE CIRCLE (SAE) WALL TO WALL			
RIGHT TURN, 18 X 9.5-8 TIRES		140.4 IN	3.57 M
LEFT TURN, 18 X 9.5-8 TIRES		130.8 IN	3.32 M

## ZAHN BACKHOE



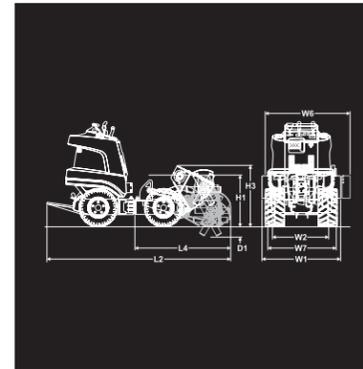
DIMENSIONS		U.S.	METRIC
L	MOBILE LENGTH	110 IN	2.79 M
L1	TIE DOWN LENGTH	110 IN	2.79 M
L2	MAX LENGTH	116.5 IN	2.96 M
L11	MAX REACH	97.5 IN	2.48 M
H	MOBILE HEIGHT	75.5 IN	1.92 M
H1	TIE DOWN HEIGHT	72.5 IN	1.84 M
H3	MAX ATTACHMENT HEIGHT	91.5 M	2.32 M
H12	ATTACHMENT CLEARANCE	24.3 IN	617 MM
D	DEPTH	65 IN	1.66 M
D2	2' FLAT BOTTOM DEPTH	61 IN	1.55 M
W	WIDTH	36 IN	914 MM
W1	MAX WIDTH	60.3 IN	1.53 M
W7	ATTACHMENT WIDTH	35.5 IN	902 MM
A	ANGLE OF DEPARTURE	25°	
A1	ANGLE OF APPROACH	36°	
A10	BUCKET ROTATION	176°	
UNIT MASS		2218 LB	1006 KG
ATTACHMENT MASS		928 LB	421 KG
<b>GENERAL</b>			
SWING ARC		170°	

## ZAHN STUMP GRINDER



DIMENSIONS		U.S.	METRIC
L	MOBILE LENGTH	108.6 IN	2.76 M
L2	MAX LENGTH	115 IN	2.92 M
L4	ATTACHMENT LENGTH	69 IN	1.75 M
H	MOBILE HEIGHT	53.5 IN	1.36 M
H1	TIE DOWN HEIGHT	33.2 IN	843 MM
H3	MAX ATTACHMENT HEIGHT	45.9 IN	1.17 M
H12	ATTACHMENT CLEARANCE	24.3 IN	617 MM
D1	OPERATING DEPTH	8 IN	203 MM
W	WIDTH	36 IN	914 MM
W2	CUTTING WIDTH	3 IN	76 MM
W7	ATTACHMENT WIDTH	20 IN	508 MM
A	ANGLE OF DEPARTURE	25°	
A1	ANGLE OF APPROACH	33°	
SWING ARC		88°	
MAXIMUM OFFSET FROM CENTER WHEN SWUNG RIGHT		34.3 IN	871 MM
MAXIMUM OFFSET FROM CENTER WHEN SWUNG LEFT		34.3 IN	871 MM
CUTTING DIAMETER		20 IN	508 MM
TEETH		12	
MAXIMUM RPM		1125 RPM	
UNIT MASS		1730 LB	784.7 KG
ATTACHMENT MASS		440 LB	199.6 KG

## ZAHN TILLER



DIMENSIONS		U.S.	METRIC
L	MOBILE LENGTH	91.6 IN	2.33 M
L2	MAX LENGTH	96.1 IN	2.44 M
L4	ATTACHMENT LENGTH	50 IN	1.27 M
H	MOBILE HEIGHT	53.5 IN	1.36 M
H1	TIE DOWN HEIGHT	27.5 IN	700 MM
H3	MAX ATTACHMENT HEIGHT	31.8 IN	808 MM
W	WIDTH	36 IN	914 MM
W1	MAX WIDTH W/OPTIONAL SKIDS	37.8 IN	960 MM
W2	CUTTING WIDTH	30.1 IN	765 MM
W6	OFFSET WIDTH W/OPTIONAL SKIDS	43.9 IN	1.12 M
W7	ATTACHMENT WIDTH	36 IN	914 MM
A	ANGLE OF DEPARTURE	25°	
A1	ANGLE OF APPROACH	25°	
CUTTING DIAMETER		19 IN	483 MM
TINES		24	
MAXIMUM RPM		160 RPM	
UNIT MASS		1732 LB	785.6 KG
ATTACHMENT MASS		442 LB	200.5 KG



THE CHARLES MACHINE WORKS, INC. DITCH WITCH WORLDWIDE HEADQUARTERS PERRY, OK 73077-0066 U.S.A.

TOLL FREE 800 654 6481 PHONE 580 336 4402 FAX 580 336 3458 INTERNATIONAL FAX 580 572 3561

FOR INFORMATION ON DITCH WITCH FINANCIAL SERVICES, GIVE US A CALL

TO FIND THE DEALER NEAREST YOU, VISIT [DITCHWITCH.COM](http://DITCHWITCH.COM)

GROUNDBREAKING™ EQUIPMENT FROM THE COMPANY THAT LAUNCHED THE INDUSTRY

COMPACT UTILITY | TRENCHERS | HDD | ELECTRONICS

CERTIFIED QUALITY  
MANAGEMENT SYSTEM  
ISO 9001:2000

LFCMWL2051-0907-1