

**Specifications of the**

# **HYDRO-AX<sup>®</sup>**

# **721E**

**MULTIPURPOSE TRACTOR and ATTACHMENTS**

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Stump Grinder Attachment

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Sold & Serviced by:

**PRENTICE**

**HYDRO-AX**

**BLOUNT**

**BLOUNT, INC  
FORESTRY AND INDUSTRIAL  
EQUIPMENT DIVISION  
535 MACK TODD ROAD  
ZEBULON, NC 27597  
919 269 2474**

# HYDRO-AX® 721E Multipurpose Tractor



## ENGINE & DRIVE TRAIN

**ENGINE:** Equipped with electric starting, 105-amp alternator, hand throttle, dry type dual-element air cleaner and muffler.

Make .....	Cummins
Model .....	6CT 8.3
Horsepower .....	210 (157 kW)
Full Load governed RPM .....	2200
Number of Cylinders .....	6
Electric System .....	12 volt
Fuel Tank Capacity .....	100 gal. (379L)

**TRANSFER CASE:** 2-speed helical gear

**PARKING BRAKES:** Lever-operated, caliper type emergency/parking brake, cable actuated with disk located on driveline at transfer case.

**SERVICE BRAKES:** Hydrostatic-dynamic braking action, plus pedal-operated, enclosed, hydraulic wet-disk brakes located in the axles.

**AXLES:** HA2513 heavy duty inboard mounted planetary axles. Front axle hydraulic lock/unlock differential is standard equipment. No-Spin™ differential in rear axle.

Standard Front/Rear .....	HA2513/HA2513
Rear Axle Oscillation .....	± 15 degrees

### WHEELS & TIRES:

Standard Wheels .....	25 x 26 with reinforced flanges
Standard Tire .....	28L x 26 12PR
Optional Tires .....	up to 67 x 34-25



## STRUCTURAL MEMBERS & CONTROLS

**CAB:** ROPS/FOPS/OPS certified walk-thru cab equipped with tinted ¼" Lexan® all around, sliding side windows with screen guarding, sound dampening insulation on floor, side and roof panels, windshield wiper, 10# ABC fire extinguisher, adjustable-suspension seat with arm rests, seat belt, battery disconnect switch, circuit breakers.

**CONTROLS:** Hand throttle, steering wheel; pilot-operated foot pedals control forward & reverse motion. Rocker switch, joystick, and foot pedals control attachment functions.

**INSTRUMENTATION:** Gauges provided for engine oil pressure, engine coolant temperature, volts, engine hours, hydraulic oil temperature. Indicator lights provided for engine coolant temperature, low coolant level, low fuel level, low hydraulic fluid level, filter bypassing, park brake engaged, and differential lock engaged.

**GUARDING PACKAGE:** Engine hood protection guard; belly pan guard integral with frame, extended wrap-around-tank rear bumper, front and rear frame guards, spring loaded cable guards; pipe-cap type guards on wheels.



## HYDRAULIC & HYDROSTATIC SYSTEMS

**CONTROL:** Attachment is actuated by a pilot-operated six-way joystick and 2-way foot pedal.

### CYLINDERS:

Qty	Function	Bore	Rod	Stroke
2	Lift	4.5" (114 mm)	2.5" (64 mm)	22" (559 mm)
2	Tilt	3.5" (89 mm)	2.5" (64 mm)	31" (787 mm)
2	Steering	4" (102 mm)	2.5" (64 mm)	12" (305 mm)

**HYDROSTATIC PROPULSION:** Hydrostatic Transmission with variable displacement pump and variable displacement motor. Pilot-operated foot pedals control forward and reverse motion.

Maximum pump delivery .....	65 GPM (246 L/min)
Maximum operating pressure .....	5,500 psi (37,921 kPa)

**OIL COOLING:** "Ultra-Cooler" swings out for easy cleaning.

### PUMP DELIVERY

Lift, Tilt, Bunch, Gather & Steer .....	43 GPM at 2,500 psi (163 L/min @ 17,237 kPa)
Saw .....	43 GPM at 5,000 psi (163 L/min @ 34,474 kPa)
Stump Grinder, Rotary Ax .....	65 GPM at 5,500 psi (246 L/min @ 37,921 kPa)

**FILTRATION:** 7 micron filter elements

**HYDRAULIC OIL SHUTOFF:** Oil shutoff valves on reservoir outlet lines are interlocked with engine starter.

**RESERVOIR:** Includes clean-out / inspection covers

Capacity .....	100 gal. (379 L)
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**STEERING:** Hydrostatic, variable rate power steering provides easy maneuvering and quick response with 42 degrees of steering articulation.

### TRAVEL SPEEDS, FORWARD & REVERSE

(with 28L x 26 tires)

Low Range, infinitely variable .....	0 to 4.6 mph (0 to 7.4 km/h)
High Range, infinitely variable .....	0 to 14.6 mph (0 to 23.5 km/h)



## TRACTOR OPERATING WEIGHT

(with full hydraulic fluid; less attachment)

721E Tractor .....	26,100 lbs (11,839 kg)
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## OPTIONAL EQUIPMENT

- 9-way adjustable luxury seat
- Air Conditioner/Heater Combination
- Axles & Tires (see Drive Train)
- Engine: John Deere 6076A Diesel Engine (215 hp [160 kW])
- Road Ready Package including beacon light, horn, running lights, rear stop & tail lights, front & rear turn signals, and side marker lights
- Lighting Package: four halogen floodlights in front and two in rear grille with Lexan® protective covers
- Tilt Cab: Provides access to hydrostatic & steering components
- Tilt/telescopic steering column
- Quick-Tach Mounting Frame: Permits fast attachment hook-up
- Hydraulic winch, two speed, free spooling
- Tinted ½" Lexan®
- AM/FM cassette stereo
- Tire seal
- Clutch for pump drive
- Cold Weather Start Kit
- Backup Alarm
- Dual-purpose Tachometer

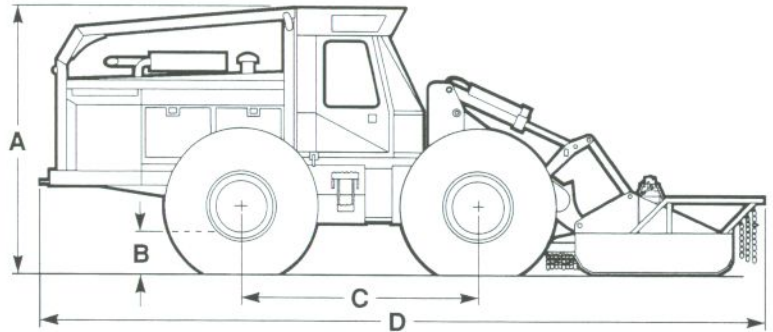
# HYDRO-AX<sup>®</sup> 721E Multipurpose Tractor

## BASIC DIMENSIONS and WEIGHT of 721E TRACTOR with ATTACHMENT

### BASIC DIMENSIONS OF TRACTOR with ROTARY AX

#### HYDRO-AX 721E with ROTARY AX

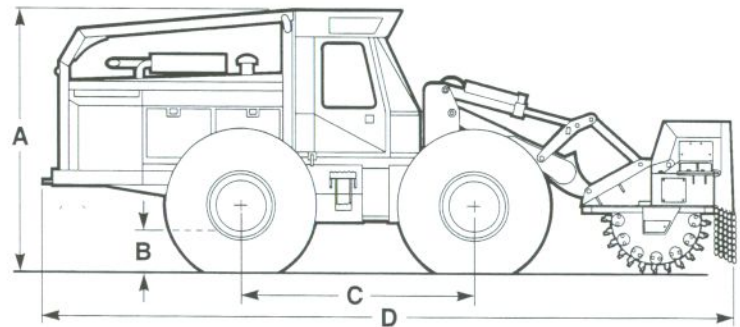
A	Height	10' 4"	(315 cm)
B	Ground Clearance	21"	(53 cm)
C	Wheelbase	9' 10"	(300 cm)
D	Length	28' 1"	(856 cm)
Width with 28L tires		9' 8"	(295 cm)
Weight with Attachment		30,850 lbs.	(13,933 kg)
Weight on front axle		16,150 lbs.	(7,326 kg)
Weight on rear axle		14,700 lbs.	(6,668 kg)



### BASIC DIMENSIONS of TRACTOR with STUMP GRINDER

#### HYDRO-AX 721E with STUMP GRINDER

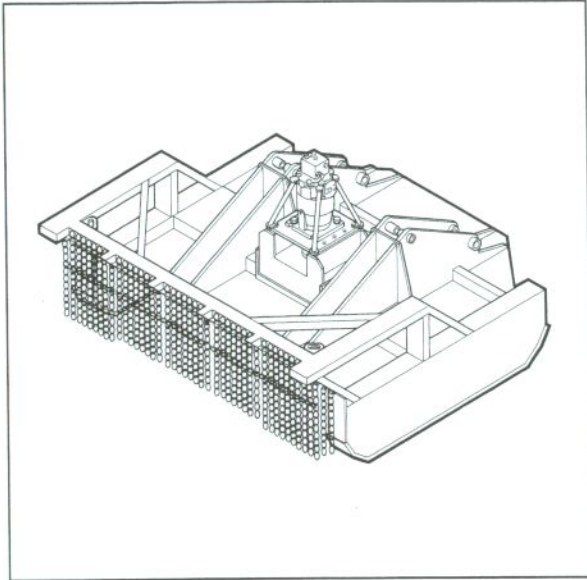
A	Height	10' 4"	(315 cm)
B	Ground Clearance	21"	(53 cm)
C	Wheelbase	9' 10"	(300 cm)
D	Length	27' 3"	(831 cm)
Width with 28L tires		9' 8"	(295 cm)
Weight with Attachment		30,500 lbs.	(13,835 kg)
Weight on front axle		16,400 lbs.	(7,439 kg)
Weight on rear axle		14,100 lbs.	(6,396 kg)



# HYDRO-AX® 721E Multipurpose Tractor

## ROTARY AX ATTACHMENT

- BRUSH CUTTER CLEARS AN 8 FOOT WIDE PATH.
- BI-ROTATIONAL HYDROSTATIC MOTOR allows control of discharged material.
- DISCHARGE CONTAINMENT AREA contains material longer for better mulch action.
- CUTS & MULCHES SINGLE TREES up to 7 in. diameter.



### SPECIFICATIONS

#### Hydrostatic Motor

Maximum Pressure ..... 5,500 psi (37,921 kPa)  
 Maximum Flow ..... 65 gpm (246 L/min)

#### Cutter Head

Width overall ..... 8 feet (244 cm)  
 Blade RPM ..... 950  
 Blades ..... 1 1/4" (3.2 cm), 37 lbs. (17 kg)  
 Free swinging, mounted to rotor bar

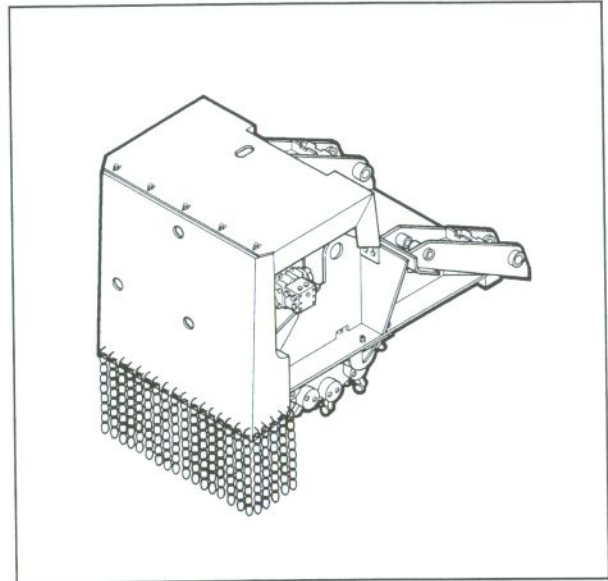
Number of Blades ..... Two  
 Cutting Direction ..... Bi-rotational

#### Weight

Total ..... 4,750 lbs. (2,155 kg)

## STUMP GRINDER ATTACHMENT

- CUTTER WHEEL PATH is 13 inches wide with single pass grinding depth of 18 inches.
- HYDROSTATIC MOTOR turns two 36 in. diameter cutter wheels with 48 replaceable teeth and 48 replaceable tooth holders.



### SPECIFICATIONS

#### Hydrostatic Motor

Maximum Pressure ..... 5,500 psi (37,921 kPa)  
 Maximum Flow ..... 65 gpm (246 L/min)

#### Drive

Direct-Chain ..... Triple #100  
 Chain Adjustment ..... Positive Mechanical  
 with Positive Alignment  
 Coupler ..... Heavy Duty Roller Chain

#### Cutting Wheel

Diameter ..... 36 in. (91 cm)  
 Cutting Width ..... 13 in. (33 cm)  
 RPM ..... 950  
 Number of Discs ..... Two  
 Teeth  
 Standard ..... 48 with Induction-bonded Carbide  
 wear surface  
 Option ..... 48 with Alloy Steel Hardfaced  
 wear surface

#### Weight

Total ..... 4,400 lbs. (1,996 kg)