

ENVOLTZ



RHINO 24K SERIES

RIM DRIVE UNDERGROUND PULLER

RHINO 24K FEATURES

OVERVIEW

THE ENVOLTZ RHINO 24K RIM DRIVE PULLER IS A SELF-PROPELLED, SELF-LOADING UNDERGROUND PULLER THAT SELF-ADJUSTS TO VARIOUS REEL SIZES TO PROVIDE 24K PULLING CAPACITY VIA A FRICTION RIM DRIVE SYSTEM. WITH INNOVATIONS SUCH AS DIRECT DRIVES, ADVANCED CONTROLS, INTUITIVE USER INTERFACE, FAIL-SAFE BRAKING, AND USER FRIENDLY REMOTE CONTROL, ENVOLTZ HAS BUILT A SAFE, VERSATILE WORKHORSE FOR THE TOUGHEST JOBS.



SELF-PROPELLED

- DIRECT DRIVE PLANETARY/HYDRAULIC MOTOR ASSEMBLY
- NO CHAINS OR UNCESSARY BEARINGS
- INTEGRATED SPRING APPLIED/HYDRAULIC RELEASE BRAKE
- 180 DEGREE ROTARY ACTUATOR STEERING
- HEAVY DUTY, FOAM FILLED TIRE
- PROPORTIONAL SPEED CONTROL FOR SMOOTH OPERATION
- CAN BE DRIVEN FORWARD OR BACKWARDS UP 10% GRADE
- QUICKLY HITCH TO TOW TRUCK IN SECONDS



SELF-LOADING

- HYDRAULICALLY ACTUATED INDEPENDENT REEL LIFTS
- MULTI-POCKET MANDREL RACK FOR RANGE OF REEL SIZES
- RACK CLEARLY LABELED FOR EACH REEL SIZE
- HYDRAULIC CONTROLLED AUTOMATIC REEL LIFT LOCK
- EASY TO INSTALL MANDREL BLOCK AND LOCK BAR
- MACHINED HEAVY DUTY NYLATRON MANDREL BUSHINGS
- 2-1/2" OR 3" ETD 150 MACHINED REEL MANDREL
- TAPERED CENTERING CONES AND LOCKING COLLARS



SELF-ADJUSTING

- MOTOR ENCLOSURE SLIDES VIA HYDRAULIC CYLINDER TO ADJUST TO REEL SIZE
- INDEPENDENT DRIVE ARMS CAN BE POSITIONED HYDRAULICALLY FOR QUICK AND EASY SETUP
- COUNTERBALANCE VALVE AND ACCUMULATORS FOR CONTANT PRESSURE ON REEL RIM FLANGE
- DIRECT DRIVE (NO CHAINS) FOR EACH RIM DRIVE WHEEL
- LARGE DIAMETER HIGH FRICTION RUBBER DRIVE WHEELS



ADVANCED CONTROLS



- CURBSIDE CONSOLE WITH MAIN 12" TOUCHSCREEN HMI, 4.3" ENGINE HMI, PROPORTIONAL JOYSTICK, AND DATA PORT
- INTUITIVE USER INTERFACE FOR FUNCTION CONTROL, REAL TIME MACHINE STATUS, DIAGNOSTICS, AND SETTINGS
- DATA LOGGING AVAILABLE VIA DATA USB PORT
- E-STOP AT MAIN CONTROL AND AT CORNERS OF MACHINE
- ALL COMPONENTS RUGGED AND IP67 RATED
- PROGRAMMING IN HOUSE, CUSTOM UI OPTIONS AVAILABLE

FUNCTIONAL ACCESSORIES



- ENVOLTZ GAME CONTROLLER STYLE REMOTE FOR FULL OPERATION, REAL TIME MACHINE STATUS, AND E-STOP
- REMOTE USES READILY AVAILABLE MILWAUKEE M18 BATTERIES (CHARGER AND BATTERIES PROVIDED)
- RADIO TETHER IN CASE OF SIGNAL ISSUES/DEAD BATTERY
- CURBSIDE AND STREET SIDE WEATHERPROOF TOOLBOXES
- GUARDING RESTRICTS ACCESS TO ROTATING COMPONENTS
- WORK AND GROUND LIGHTS FOR NIGHTTIME OPERATION

ELECTRIFICATION READY



- RHINO CAN BE POWERED EITHER WITH KUBOTA 49HP FINAL TIER 4 DIESEL ENGINE OR THE 50HP ENVOLTZ E-CELL
- E-CELL OPTION COMBINES AN ADVANCED LITHIUM BATTERY PACK WITH A HIGH TORQUE ELECTRIC MOTOR
- ZERO EMISSION, QUIET OPERATION WITH THE E-CELL
- LEVEL 1 AND 2 J1772 EV CHARGING ON ELECTRIC OPTION
- SAME DIGITAL DISPLACEMENT PUMP IS USED FOR EITHER POWER UNIT OPTION

CUSTOMIZABLE



LEVELWIND



CAPSTAN



ALL-ANGLE SHEAVE

RHINO 24K SERIES

SPECIFICATIONS

FEATURE	DIESEL	ELECTRIC
POWER UNIT	DIESEL OVER HYDRAULIC	BATTERY OVER HYDRAULIC
ENGINE	49HP FINAL TIER 4 DIESEL WATERCOOLED/ELECTRIC START	50HP ENVOLTZ E-CELL ELECTRIC ENGINE
ENGINE INTERFACE	4.3" HD IP67 COLOR OPERATOR CONTROL SCREEN	4.3" HD IP67 COLOR OPERATOR CONTROL SCREEN
FUEL CAPACITY	15 GALLONS	33 kWh LiFePO PACK
PULLING CAPACITY	24,000 LBS CONTINUOUS (80" REEL W/20" CORE)	
RIM DRIVE SYSTEM	(4) INDEPENDENT DIRECT DRIVE HYDRAULIC MOTORS FOR INCREASED EFFICIENCY AND DECREASED MAINTENANCE	
RIM DRIVE BRAKE	SPRING APPLIED/HYDRAULIC RELEASE FAIL SAFE BRAKE	
RIM DRIVE WHEELS	HEAVY DUTY HIGH FRICTION SOLID RUBBER	
REEL LIFTING	INDEPENDENT HYDRAULIC REEL LIFTING CYLINDER FOR EACH REEL LIFT HYDRAULICALLY CONTROLLED REEL LIFT LOCKING LATCH	
REEL SHAFT	2-1/2" DIAMETER (OR 3" UPON REQUEST) ETD150 HIGH STRENGTH STEEL REEL SHAFT HEAVY DUTY NYLATRON BEARINGS, MACHINED TAPERED CONES, AND LOCKING COLLARS	
MAX REEL DIMENSIONS	108" OUTSIDE DIAMETER X 56" WIDE	
MAX REEL WEIGHT	20,000 LBS	
NOSE WHEEL DRIVE	DIRECT DRIVE HYDRAULIC MOTOR FOR SELF MANEUVERING WITHOUT TRUCK HYDRAULIC ROTARY ACTUATOR FOR 180 DEGREE CONTROLLED STEERING	
NOSE WHEEL BRAKE	SPRING APPLIED/HYDRAULIC RELEASE FAIL SAFE BRAKE	
MAIN CONTROLS	CURBSIDE OPERATOR CONSOLE WITH 12" TOUCHSCREEN DISPLAY INTUITIVE UI FOR CONTROL AND DIAGNOSTICS, PROPORTIONAL CONTROL JOYSTICK	
REMOTE CONTROL	GAME CONTROLLER STYLE WITH 4.3" DISPLAY, (2) THUMB CONTROL JOYSTICKS, SELECTOR PUSH BUTTONS, MILWAUKEE M18 BATTERY, 30FT MIN LINE OF SIGHT, TETHER	
MANUAL CONTROLS	CURBSIDE MANUAL CONTROL CONSOLE WITH REMOVABLE LEVERS PROPORTIONAL CONTROL OF MAJOR FUNCTIONS FOR BACK UP CONTROL OPTION	
REAR JACKS	(2) 12,000 LBS HYDRAULIC STABILIZER JACKS CONTROLLED FROM MAIN CONSOLE, REMOTE, MANUAL CONSOLE, OR LOCAL CONTROL	
FRAME CONSTRUCTION	FULLY WELDED BOXED IN CONSTRUCTION	
AXLES	20,000 LBS STUB AXLES	
TIRE & WHEELS	315/80R 22.5 TIRES ON SINGLE PIECE CONSTRUCTION RIMS	
TRAILER BRAKES	AIR BRAKES WITH ABS AND S-CAM SLACK ADJUSTERS	
AUXILIARY BRAKES	HYDRAULIC OVERRIDE BRAKES TO PROVIDE ADDITIONAL BRAKING WHEN DETACHED FROM TRUCK	
LIGHTING SYSTEM	FMVSS 10 AND US DOT LED, 12VDC, PUDDLE LIGHTS FOR GROUND ILLUMINATION, ENGINE ENCLOSURE MOUNTED WORK LIGHTS, REAR FLOOD LIGHTS (OPTIONAL)	
HITCH	3" WALLACE FORGE LUNETTE EYE WITH ADJUSTABLE COUPLER PINTLE EXTENSION (OPTIONAL)	
HYDRAULIC FLUID	AW46, 30 GALLON TANK CAPACITY	
ACCESSORIES	DUAL 48" TOOLBOXES W/T-HANDLE LATCHES AND LOCKS 12V MILWAUKEE BATTERY CHARGER, WORDEN WHEEL CHOCKS WITH STORAGE	
DIMENSIONS	182" L x 102" W x 75" H @ 10,000 LBS	
TOOL CIRCUIT (OPTION)	QUICK DISCONNECT 2,500 PSI @ 13 GPM MAX	
LEVELWIND (OPTION)	HYDRAULIC POWERED BALL SCREW LEVELWIND, (3) NYLATRON ROLLER HEAD, OPEN TOP FOR QUICK ACCESS, DESIGNED FOR 40K MAX UNDERGROUND PULLS	
CAPSTAN (OPTION)	CURBSIDE MOUNTED HEX DRIVE CAPSTAN, 9" DIA HEAD ALUMINUM HEAD 6,000 LBS CAPACITY, FOOT PEDAL CONTROL, ALL-ANGLE SHEAVE OPTIONAL	