

# ENVOLTZ



## VIPER 13K SERIES

BULLWHEEL UNDERGROUND PULLER

# VIPER 13K FEATURES

## OVERVIEW

THE ENVOLTZ VIPER 13K UNDERGROUND PULLER IS AN ADVANCED BULLWHEEL PULLING MACHINE WITH TELESCOPING BOOM AND ALL POSITION QUADRANT BLOCK TO QUICKLY GET THE JOB DONE. WITH INNOVATIONS SUCH AS DIRECT DRIVES, PATENTED SPOOLING SYSTEM, ADVANCED CONTROLS, INTUITIVE USER INTERFACE, FAIL-SAFE BRAKING, AND USER FRIENDLY REMOTE CONTROL, ENVOLTZ OFFERS A SAFE, EFFICIENT PULLER TO SAVE BOTH TIME AND MONEY.



## ADVANCED PULLING

- DUAL HARDENED GROOVED BULLWHEELS
- DIRECT DRIVE PLANETARY/HYDRAULIC MOTOR ASSEMBLY
- NO CHAINS OR UNCESSARY BEARINGS
- INTEGRATED SPRING APPLIED/HYDRAULIC RELEASE BRAKES
- TAKE UP DRUM WITH 3,280 FT STORAGE OF 9/16" ROPE
- LOAD PIN FOR PRECISE TENSION SENSING AND READOUT
- SPEED ENCODER FOR ACCURATE LINESPEED/FOOTAGE
- UTILIZES THE ENVOLTZ SMART SPOOLER



## PATENTED SMART SPOOLING

- ENVOLTZ PATENTED SMART SPOOLER LEVELWIND FOR CONTROLLED SPOOLING ONTO THE TAKE UP DRUM
- DUAL SHEAVE ARM MOUNTED ON HYDRAULICALLY DRIVEN HEAVY DUTY SEALED SLEW BEARING
- ARM PIVOT PROGRAMMED TO MATCH TAKE UP DRUM ROTATIONAL SPEED FOR PRECISE SPOOLING
- SMART SPOOLER CAN BE EASILY PROGRAMMED FOR DIFFERENT ROPE DIAMETERS WITH TOUCH OF BUTTON



## TELESCOPING BOOM

- HYDRAULICALLY CONTROLLED TELESCOPING BOOM ELIMINATES NEED FOR ADDITIONAL SETUP ROLLERS
- TELESCOPES UP TO 12FT BELOW GRADE
- RATED AT FULL 13K PULLING CAPACITY
- TOP 20" LARGE DIAMETER NYLATRON SHEAVE ALLOWS PULL OF MAKE UP CONDUCTOR
- ENVOLTZ ALL POSITION QUADRANT BLOCK ALLOWS FOR QUICK CABLE ROUTING WITH MULTIPLE TIE BACK POSITIONS





## ADVANCED CONTROLS



- CURBSIDE CONSOLE WITH 12" TOUCHSCREEN HMI, PROPORTIONAL JOYSTICKS, ROTARY KEYPAD, 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
- STREET SIDE AND TONGUE WEATHERPROOF TOOLBOXES
- ALL-ANGLE SHEAVE AT REAR (WHEN BOOM NOT NEEDED)
- WORK AND GROUND LIGHTS FOR NIGHTTIME OPERATION

## ELECTRIFICATION READY



- VIPER 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 HYDRAULIC PUMP IS USED FOR EITHER POWER UNIT OPTION

## CUSTOMIZABLE



TOOL CIRCUIT



CAPSTAN



NOSE WHEEL DRIVE

# VIPER 13K 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	13,000 LBS @ 60 FPM / 6,500 LBS @ 120 FPM	
PULLER	DUAL BULLWHEEL DIRECT DRIVE PULLER INTEGRATED TAKE UP DRUM WITH ENVOLTZ SMART SPOOLER	
BULLWHEELS	PRECISION MACHINED, 5 HARDENED GROOVES	
BULLWHEEL DRIVES	INDEPENDENT DIRECT DRIVE HYDRAULIC MOTORS/GEARBOXES INTEGRAL SPRING APPLIED / HYDRAULIC RELEASE FAIL SAFE BRAKE	
TAKE UP DRUM	LARGE DIAMETER MACHINED STORAGE DRUM SUPPORTED BY HEAVY DUTY PILOTED FLANGE BEARINGS	
TAKE UP DRUM DRIVE	INDEPENDENT DIRECT DRIVE HYDRAULIC MOTOR/GEARBOX INTEGRAL SPRING APPLIED / HYDRAULIC RELEASE FAIL SAFE BRAKE	
TAKE UP STORAGE	3,280 FT OF 9/16" BRAIDED STEEL ROPE	
LEVELWIND	ENVOLTZ PATENTED SMART SPOOLER	
LOAD SENSING	LOAD PIN FOR PRECISE TENSION MEASUREMENT	
FOOTAGE COUNTER	ENCODER FOR ACCURATE SPEED AND FOOTAGE	
BOOM	HYDRAULIC CONTROLLED TELESCOPING BOOM RATED AT MAX PULL AT 12FT BELOW GRADE	
QUADRANT BLOCK	ALL POSITION ENVOLTZ QUADRANT BLOCK, LARGE DIAMETER NYLATRON ROLLERS TIE BACK READY, 36" OVERALL BENDING RADIUS	
ALL ANGLE SHEAVE	SLEW BEARING MOUNTED ALL ANGLE SHEAVE, FULL 360 DEGREE ROTATION FOR PULLS WHERE BOOM NOT NEEDED	
MAIN CONTROLS	CURBSIDE OPERATOR CONSOLE WITH 12" TOUCHSCREEN DISPLAY INTUITIVE UI FOR CONTROL AND DIAGNOSTICS, PROPTIONAL CONTROL JOYSTICKS	
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	
STABILIZING JACKS	(3) 12,000 LBS HYDRAULIC STABILIZER JACKS CONTROLLED FROM MAIN CONSOLE, REMOTE, MANUAL CONSOLE, OR LOCAL CONTROL	
FRAME CONSTRUCTION	FULLY WELDED BOXED IN CONSTRUCTION	
SUSPENSION	TANDEM INDEPENDENT AXLELESS	
TIRE & WHEELS	ST235/80R15 TIRES ON SINGLE PIECE CONSTRUCTION RIMS	
TRAILER BRAKES	ELECTRIC W/BREAKAWAY	
LIGHTING SYSTEM	FMVSS 10 AND US DOT LED, 12VDC,PUDDLE LIGHTS FOR GROUND ILLUMINATION, WORK LIGHT S AND REAR FLOOD LIGHTS (OPTIONAL)	
HITCH	3" WALLACE FORGE LUNETTE EYE WITH ADJUSTABLE COUPLER PINTLE EXTENSION (OPTIONAL)	
HYDRUALIC FLUID	AW46, 30 GALLON TANK CAPACITY	
ACCESSORIES	48" TOOLBOXES W/T-HANDLE LATCHES AND LOCKS 12V MILWAUKEE BATTERY CHARGER, WORDEN WHEEL CHOCKS WITH STORAGE	
DIMENSIONS	204" L x 96" W x 125" H @ 10,400 LBS	
TOOL CIRCUIT (OPTION)	QUICK DISCONNECT 2,500 PSI @ 13 GPM MAX	