TREME DUTY LOG SPLITTER

WHAT IS THE X-TREME DUTY LOG SPLITTER?

THE EXTREME DUTY LOG SPLITTER OR XDL IS AN INNOVATIVE PIECE OF EQUIPMENT THAT INCORPORATES EVERY FUNCTION OF EVERY LOG SPLITTER ON THE MARKET INTO ONE, EASY TO USE DESIGN. THE XDL WAS DESIGNED WITH THE OPERATOR IN MIND AT EVERY STEP OF THE DESIGN PROCESS.

DESIGN & CONSTRUCTION

- -NATHAN JENKINS
- -RYAN ENGLEKING
- -BEAU FRODERMAN
- -CHAD CAREY

TECHNICAL ADVISOR

-DR. DENNIS BUCKMASTER

PROJECT ENGINEER

-BEN DIETRICH

SPONSOR

SOUTHPAW CONSTRUCTION PROPRIETOR: GARY JENKINS



SPECIAL THANKS TO

SCOTT BRAND
GARRY WILLIAMS







KEY FEATURES

- THREE SELECTABLE SPLITTING POSITIONS
- 180° OF HYDRAULIC ROTATION AROUND THE HORIZONTAL AXIS
- VERTICAL POSITION FOR STATIONARY SPLITTING
- OPTIONAL REGENERATIVE HYDRAULIC CIRCUIT TO WORK MORE EFFICIENTLY
- OPERABLE "IN THE CAB OR ON THE GROUND"
- ATTACHES UNIVERSALLY TO ANY BRAND OF SKID-STEER
- ERGONOMICALLY ENGINEERED FEATURES
- DESIGNED FOR EASY MAINTENANCE



- **① UPRIGHT HORIZONTAL POSITION**
- 2 VERTICAL POSITION
- 3 INVERTED HORIZONTAL POSITION

SPLITTING CYLINDER EXTENSION SPEED

REGENERATIVE MODE (5 TONS OF FORCE)

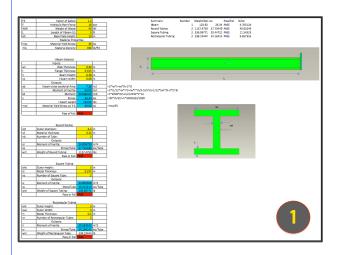
3.6 SECONDS © LOWIDLE

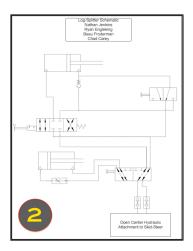
3.2 SECONDS © HIGH IDLE

STANDARD MODE (18 TONS OF FORCE) 7.8 SECONDS € LOW IDLE 7.3 SECONDS € HIGH IDLE



- 4 INSIDE THE CAB OPERATION
- **5** ON THE GROUND OPERATION
- **6** ERGONOMIC FEATURES (NO-SLIP STEP)





- 1) MATERIAL STRENGTH EQUATIONS
- 2 HYDRAULIC SYSTEM SCHEMATIC







- 3 3-Position, 4-Way, Closed Center Valve
- 4 REGENERATIVE CIRCUIT SELECTOR VALVE
- **5** ROTARY MOTION SELECTOR VALVE







- 6 HYDRAULIC CYLINDER POWERING GEAR RACK
- 7 GEAR AND RACK ASSEMBLY
- **8 ROTATING HUB ASSEMBLY**

PRODUCTION COSTS \$1,400.00

INTRODUCING THE X-TREME DUTY LOG SPLITTER
"HOW QUICK CAN YOU SPLIT A RICK?"

