

ProMILL Duo™ ER (Extended Reach)

Dual Casing Milling System

APPLICATIONS

- Plug and abandonment (P&A) operations
- Sustained casing pressure (SCP) remediation
- Outer casing section milling in dual-string well designs
- Cement plug placement preparation
- Well integrity restoration and abandonment projects

BENEFITS

- Reduces overall intervention time and operational costs
- Eliminates the need to mill up the inner casing from surface to the top of cement
- Enables single-tool access to outer casing through a smaller inner string
- Minimizes the number of trips required to complete section milling operations
- Improves efficiency in dual-string well applications
- Reduces non-productive time (NPT) and operational complexity

FEATURES

- Extended-reach (ER) design for greater opening and expansion capability
- Small drift diameter for deployment through restricted inner casing sizes
- High expansion ratio enables milling of larger outer casing sections
- Engineered specifically for dual-string section milling applications
- Robust milling performance for reliable outer casing access
- Optimized design for enhanced functionality and operational flexibility

The ProMILL Duo™ ER is an advanced dual-string section milling solution engineered to deliver greater reach and enhanced functionality during outer casing section milling operations. Designed with an extended expansion range, the tool can drift through a smaller inner casing and reliably mill a section in the outer casing, eliminating the need to remove the inner string before milling operations begin.

By combining a compact drift diameter with a high expansion ratio, the ProMILL Duo ER streamlines plug and abandonment (P&A) and casing remediation projects, reducing rig time, minimizing intervention complexity, and lowering overall operational costs. The system's extended reach capability provides operators with increased flexibility and efficiency in applications where access to the outer casing would otherwise require multiple trips and additional milling operations.

PROMILL DUO ER SPECIFICATIONS

Tool Series	5600 ER	5500 ER	4000 ER
Opening Diameter, in.	11.38	11.60	8.290 (32#) 8.030 (23#)
Body OD, in.	5.6	5.5	4.1
Fishing Neck OD, in.	5.0	5.0	4.1
Fishing Neck Length, in.	16	16	20
Body Connections, in.	4½ Reg Box X Box	4½ Reg Box X Box	NC31 x 3.000-6 Stub Acme
Top Sub Connections, in.	3½ IF Box	3½ IF Box	NC31 Box
Bottom Sub Connections, in.	4½ Reg Box	4½ Reg Box	2¾ REG Box
Weight, lb (Section Mill Only)	338	336	130
Weight, lb (Mill BHA, with Stabilizer and Timing Sub)	1160	1146	335
Overall Length, in. (Section Mill)	67	70	50
Overall Length, in. (with Stabilizer and Timing Sub)	215	220	120.6
Tool Tensile Yield Limit, lbf	500,000	500,000	400,000
Inner Casing, in.	6⅝	7.0	5.0
Outer Casing, in.	9⅝	9⅝	7.0
Blocks Opening, in.	8.765	8.50	6.241

