

# Endura® Dual-String Section Mill (DSSM)

Mills adjacent casing strings with enhanced stabilization and performance

## Applications

- Plug and abandonment (P&A) operations requiring rock-to-rock cement plugs
- Milling adjacent casing strings at specific depths

## Features and Benefits

- Dual-string section mill removes both inner and outer casing strings
- Multiple stabilization points provide optimal milling performance
- Milling-run efficiently prepares wellbores for cement plugging
- Small outer-diameter (OD) tool enables access through narrow restrictions

## Tool Description

The Weatherford Endura DSSM mills inner and outer casing strings with diameters ranging from 7 in. to 13-3/8 in. (177.8 to 339.7 mm) and includes multiple points of stabilization. These include a hydraulic, expandable stabilizer and an integral stabilizer built into the cutting blades. The DSSM has a narrow OD to enable passage through casing restrictions. After the section of inner casing is removed with the standard section mill, the slim OD enables the DSSM to return through this inner casing to the open section. The hydraulic, expandable stabilizer—located on the bottom housing, brings the tool to the center of the outer casing string and prevents lateral movement by expanding to the inside diameter (ID) of the outer casing. The cutting blades expand with the built-in integral stabilizer to begin milling. Its full gauge milling blades then enable the milling of extended casing sections. By completely removing casing, the milling run prepares wellbores for permanent rock-to-rock cement plugging and helps fulfill stringent regulatory requirements for well abandonment.

## Specifications

Tool size	7 in. x 9-5/8 in. (177.8 mm x 244 mm)	9-5/8 in. x 13-3/8 in. (244.4 mm x 339.7 mm)
Connection	3-1/2 IF/NC 38	4-1/2 IF/NC 50
Tool OD	5-7/8 in. (149.2 mm)	8-1/4 in. (209.6 mm)
Tool ID	1-1/8 in. (28.6 mm)	2-1/4 in. (57.2 mm)
Tool length	16 ft (4.9 m)	20 ft (6.1 m)
Torque rating on tool body	12,000 ft-lbs. (16,270 N·m)	38,000 ft-lbs. (51,521 N·m)
Torque rating on blades	6,072 ft-lbs. (8,233 N·m)	15,000 ft-lbs. (20,337 N·m)
Max milling sweep	10-3/4 in. (273.1 mm)	14-5/8 in. (371.5 mm)
Casing size	7 in. x 9-5/8 in. (177.8 mm x 244.4 mm)	9-5/8 in. x 13-3/8 in. (244.4 mm x 339.7 mm)



The Weatherford Endura DSSM mills inner and outer casing strings to efficiently prepare wellbores for cement plugging.

