



ImpaX Drilling Jars

The ImpaX Jars are SabreDHT's hydraulic-mechanical drilling jars, engineered to deliver reliable, high-impact performance in demanding drilling environments. Featuring a sealed, oil-lubricated design for extended service life, ImpaX Jars incorporate a mechanical safety latch and adjustable latch release settings, providing operators with a versatile tool that is easy to place and optimize within the bottom hole assembly (BHA).

Built with a double-acting design, ImpaX Jars deliver powerful upward impacts through a hydraulic delay mechanism and mechanical downward impacts to effectively free stuck drill strings. The tool resets with simple up-and-down movement, allowing drilling operations to quickly resume while minimizing costly downtime and maximizing efficiency.



FEATURES

- Double-acting design suitable for all drilling operations.
- Sealed, oil-lubricated construction provides extended service life and reliability.
- Mechanical safety latch helps prevent unintended jarring during operations.
- Adjustable latch release settings allow flexible BHA placement and load tuning.
- Hydraulically delayed upward jarring delivers controlled impact buildup for maximum effectiveness.
- Mechanical downward jarring action provides reliable bi-directional operation.
- Simple up-and-down operation enables repeatable jarring cycles and quick reset.

SPECIFICATIONS

Tool Size O.D. in. (mm)	Tool Size I.D. in. (mm)	Weight lbs (kg)	Jar Load Limit Up/Down lbf (N)	Total Stroke in. (mm)	Up Latch Setting lbf (N)	Down Latch Setting	Length Latched Position ft (m)	Pump Area Open in ²
5 (127)	2.25 (57)	550 (250)	75,000 (333,600)	12 (292)	STD 40,000 (177,900) MAX 55,000 (244,600)	STD 18,000 (80,000) MAX 24,750 (110,000)	12.7 (3.9)	6.5
5.25 (133)	2.38 (60)	700 (320)	95,000 (423,000)	13.5 (343)	STD 50,000 (222,000) MAX 75,000 (333,000)	STD 22,000 (98,000) MAX 35,000 (156,000)	14.5 (4.4)	7.5
6.5 (165)	2.75 (70)	1,500 (690)	180,000 (800,600)	16 (406)	STD 90,000 (400,300) MAX 140,000 (622,700)	STD 40,500 (180,100) MAX 63,000 (280,200)	18.5 (5.6)	11
6.75 (171)	2.5 (64)	1,400 (640)	190,000 (845,100)	15 (381)	STD 90,000 (400,300) MAX 140,000 (622,700)	STD 40,500 (180,100) MAX 63,000 (280,200)	15 (4.6)	11

