

Accelerator AP

Impact tool accelerator

APPLICATIONS

- extended reach, directional, and horizontal wells when drillpipe loses stored energy to hole drag
- HPHT well conditions
- run in BHAs that include a Hydra-Jar AP double-acting drilling jar

BENEFITS

- optimizes jar performance for recovery in shallow or crooked holes
- impact force independent of hole condition
- creates up to twice as much impact force than other tools for jarring up, down, or up and down
- protects the drillstring and surface equipment from damaging shock waves
- recommended whenever drilling jar is placed in drillstring

FEATURES

- fluid compression inside tool compensates for limited drillpipe stretch in shallow wells, providing stored energy, creating maximum impact
- fullbore design minimizes pressure losses and provides wireline tool compatibility
- operates automatically with the jar, increasing reliability and ease of use
- efficient design ensures full overpull force is delivered to the hammer section, creating maximum positive impact
- rated to 500 degF, optional ultra high temperature seals rated to 650 degF
- seals are rated to 20,000 psi
- circulation rated to 10,000 psi

The Accelerator AP* impact tool is recommended whenever a Hydra-Jar AP* double-acting hydraulic drilling jar tool is placed in the string. It operates automatically with the jar, increasing reliability and ease of use, while protecting the drillstring and surface equipment from damaging shock waves.

Maximum jarring impact in any hole profile

Used in conjunction with the Hydra-Jar AP double-acting hydraulic drilling jar, the Accelerator AP tool combines the advantage of jarring up, down, or up-and-down with hydraulic fluid for maximum jarring impact. By increasing the velocity of the mass applied to the jar, the Accelerator AP tool ensures optimum impact force from the Hydra-Jar AP tool. When used with the Hydra-Jar AP tool, fluid compression inside the Accelerator AP tool compensates for limited drillpipe stretch in shallow or crooked holes, providing stored energy so that the fish is hit hard regardless of depth. The tool also optimizes jar performance in extended-reach, directional, and horizontal wells, where the stored energy in the drillpipe is lost because of hole drag.

Efficient energy transfer

The Accelerator AP tool provides the same impact with less overpull at the jar. The hammer mass receives 100% transfer of the overpull.



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Accelerator AP Specifications

Outer Diameter, in [mm]	Inner Diameter, in [mm]	Tool Joint Connection	Overall Length Extended, ft.in [mm]	Maximum Detent Working Load, lbf [N]	Tensile Yield Strength, lbf [N]	Torsional Yield Strength, lbf.ft [N.m]	Up Stroke, in [mm]	Down Stroke, in [mm]	Total Stroke, in [mm]	Tool Weight, lbm [kg]
3½ [85.73]	1½ [38.10]	2½ API IF	24.42 [7,442]	44,000 [195,712]	236,062 [1,050,004]	6,842 [9,276]	7 [178]	7 [178]	21 [533]	500 [227]
4¼ [107.95]	2 [50.80]	2½ API IF	29.83 [9,093]	70,000 [311,360]	377,871 [1,680,770]	15,381 [20,853]	8 [203]	7 [178]	25 [635]	800 [362]
4¼ [120.65]	2¼ [57.15]	3½ API IF	29.83 [9,093]	95,000 [422,560]	492,284 [2,189,679]	19,126 [25,930]	8 [203]	7 [178]	25 [635]	1,050 [476]
5½ [130.18]	2¼ [57.15]	WT 38	29.83 [9,093]	95,000 [422,560]	492,284 [2,189,679]	30,000 [40,650]	8 [203]	6¼ [173.08]	25 [635]	1,155 [524]
6¼ [158.75]	2¾ [69.85]	4½ XH	31.17 [9,499]	150,000 [667,200]	730,324 [3,248,481]	40,505 [54,915]	8 [203]	7 [178]	25 [635]	1,600 [725]
6¼ Mod [158.75]	2¾ [69.85]	4½ XH	31.17 [9,499]	150,000 [667,200]	964,207 [4,288,792]	50,757 [68,814]	8 [203]	7 [178]	25 [635]	1,600 [725]
6½ [165.10]	2¾ [69.85]	4½ Reg IF	31.17 [9,499]	175,000 [778,400]	964,207 [4,288,792]	54,796 [74,290]	8 [203]	7 [178]	25 [635]	1,850 [839]
7 [177.80]	2¾ [69.85]	5 H 90	31.50 [3,601]	230,000 [1,023,040]	1,179,933 [5,248,342]	67,396 [91,372]	8 [203]	8 [203]	25 [635]	2,600 [1,179]
7¼ [184.15]	2¾ [69.85]	5½ H 90	31.50 [3,601]	240,000 [1,067,520]	1,261,162 [5,337,600]	84,155 [114,093]	8 [203]	8 [203]	25 [635]	3,000 [1,360]
7¾ [196.85]	3 [76.20]	6½ Reg	32.00 [9,754]	260,000 [1,156,480]	1,315,225 [5,850,121]	86,848 [117,744]	8 [203]	7 [178]	25 [635]	3,200 [1,451]
8 [203.20]	3 [76.20]	6½ Reg	32.00 [9,754]	300,000 [1,334,400]	1,621,565 [7,212,721]	98,490 [133,528]	8 [203]	7 [178]	25 [635]	3,550 [1,610]
8¼ [209.55]	3 [76.20]	6½ Reg	32.00 [9,754]	350,000 [1,556,800]	1,819,384 [8,092,620]	115,418 [156,478]	8 [203]	8 [203]	25 [635]	4,000 [1,814]
8½ [215.90]	3 [76.20]	6½ Reg	32.00 [9,754]	350,000 [1,556,800]	1,846,269 [8,212,205]	115,418 [156,478]	8 [203]	8 [203]	25 [635]	4,500 [2,041]
9½ [241.30]	3 [76.20]	7½ Reg	32.50 [9,906]	500,000 [2,224,000]	1,654,172 [7,357,757]	152,802 [207,161]	8 [203]	8 [203]	25 [635]	5,600 [2,540]

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