



WELL INTERVENTION FISHING IMPACT TOOLS

TMC Bumper Sub

Bump up or down to meet fishing objectives, even in harsh environments.

The TMC bumper sub incorporates maximum stroke length and high torque transmission capacity, enabling the operator to bump up or down until fishing objectives are met. The TMC bumper sub's robust design, materials quality, and comprehensive quality requirements ensure reliable performance in the harshest downhole environments.

Applications

- Fishing operations, including stuck pipe, packer retrieving, tubing removal, milling, and debris recovery
- Plug and Abandonment (P&A) operations, including pipe recovery and wellhead removal
- Backoff operations where the sub releases spears or overshots, shear pins, dislodges a stuck string, and acts as a feedoff tool

Benefits

- Enables operator to bump up or down until recovery is completed

Features

- Temperature rated to 500 degF
- Seals rated to 20,000 psi differential
- Circulation pressure rated to 10,000 psi
- Closed drive system prevents ingress of wellbore fluid into drive section, improving reliability

Ordering instructions

Please specify:

- Hole size
- Connection size, type and left- or right-hand threads
- Tool diameter



TMC bumper sub

TMC BUMPER FISHING BUMPER SUB SPECIFICATIONS

Tool OD, in.	Tool ID, in.	Tool Joint Connection	Assembly Number	Overall Length, ft. in.	Total Stroke, in.	Tensile Yield, lbf.	Torsional Yield [†] , lbf.ft.	Tool Weight, lbm.
1 13/16	3/8	1 13/16 WFJ	16435	4.8	9 3/4	56,000	800	48
1 13/16	9/16	1 AM MT	N/A	N/A	7 1/4	69,000	750	54
2 1/4	1/2	1 1/4 Reg	16471	6	12	95,800	1,900	75
3 1/8	1	2 3/8 Reg	16215	7.1	16	192,000	4,100	125
3 1/8	1 1/2	2 3/8 EUE	16461	6.11	14	185,000	4,200	100
3 3/4	1 1/2	2 3/8 IF	16212	8.2	16	257,000	6,600	142
3 3/4	2	2 3/8 EUE	16385	6.9	16	233,000	7,400	120
4 1/4 [∞]	2	2 7/8 IF	16208	8.3	16	348,000	11,000	232
4 1/4	2 7/16	2 7/8 EUE	16377	9.5	16	320,000	10,000	260
4 3/4	2	3 1/2 API FH	16202	8.8	16	422,000	14,000	337
4 3/4 [∞]	2 1/4	3 1/2 API IF	16415	9.6	16	422,000	14,000	314
6 1/4	2 1/4	3 1/2 API IF	16373	9.8	18	900,000	50,000	794
6 1/2 [∞]	2 1/4	4 1/2 API IF	16374	9.8	18	928,000	50,000	890
7 3/4	3 1/2	6 5/8 API Reg	16375	10.4	18	1,304,000	118,000	955
8 [∞]	3 1/2	6 5/8 API Reg	16376	10.4	18	1,304,000	118,000	1,110

NOTE: [∞]Also available with left-hand connections.

[†]Torsional yield is based on the tool joint connection.

TMC Single-Acting Fishing Accelerator (Up Only)

Improve jar impact regardless of depth.

The TMC fishing accelerator tool improves jar impact and provides a supercharged blow directly above the fish. Used in conjunction with the TMC fishing jar, the TMC accelerator tool maximizes jar impact regardless of depth because it can either replace pipe stretch as the energy source in shallow holes, or supplement the pipe stretch energy in deeper wells. The TMC accelerator tool's robust design, materials quality, and comprehensive QA requirements ensure reliable performance in the harshest of fishing conditions.

Note: The Jar-Pact fishing program should be utilized to optimize performance of accelerator tools and TMC jars. Wellbore Integrity Solutions recommends that the TMC fishing accelerator tool be used in conjunction with this tool. Contact Wellbore Integrity Solutions for more information.

Applications

- Any fishing operation, including stuck pipe, packer retrieval, tubing removal, milling and debris recovery
- Plug and Abandonment (P&A) operations, including pipe recovery and wellhead removal

Benefits

- Endures harsh downhole environments
- Works with parts from the TMC fishing jar

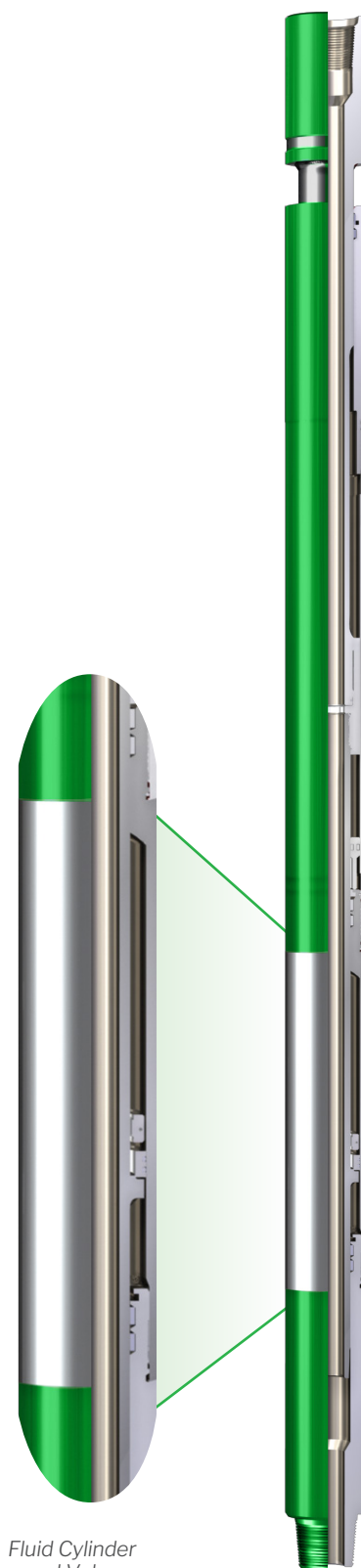
Features

- Absorbs shock waves that propagate up the workstring and damage tool joints, top drives, and other surface components
- Temperature rated to 500 degF
- Seals rated to 20,000 psi differential
- Circulation pressure rated to 10,000 psi
- Closed drive system to prevent ingress of wellbore fluid into the drive section, improving reliability
- Interchangeable parts to allow conversion between accelerator tools and hydraulic jars, reducing parts inventories and increasing flexibility

Ordering instructions

Please specify:

- Hole size
- Connection size, type, and left- or right-hand threads
- Tool diameter
- Hole temperature
- Desired operating load



TMC single-acting fishing accelerator (up only)

TMC Single-Acting Fishing Accelerator (Up Only)

TMC ACCELERATOR, SINGLE-ACTING FISHING ACCELERATOR (UP ONLY) SPECIFICATIONS

Tool OD, in.	1 ³ / ₁₆	1 ³ / ₁₆	2 ¹ / ₄	3 ¹ / ₈	3 ¹ / ₈
Tool ID, in.	3 ³ / ₈	9 ¹ / ₁₆	1 ¹ / ₂	1	1 ¹ / ₂
Tool Joint Connection	1 ¹³ / ₁₆ WFJ	1 AM MT	1 ¹ / ₄ Reg	2 ³ / ₈ Reg	2 ³ / ₈ EUE
Overall Length, ft.in.	5.10	4.6	8	10	9
Tensile Yield, lbf	56,000	69,000	95,800	192,000	185,000
Torsional Yield, lbf.ft	800	750	1,900	4,100	4,200
Total Travel with Stop Sleeve [†] , in.	8	7 ¹ / ₄	10	12	10 ¹ / ₂
Rack Test [‡] , in @lbf	6 ³ / ₄ @ 6,000	4 ¹ / ₄ @ 5,000	7 ¹ / ₂ @ 6,000	11 @ 29,000	10 @ 13,200
Oil Fluid, fl oz US	2	2	2	3	2
Minimum overpull at 240 degF with jar and accelerator combination, lbf ^{††}	7,500	6,000	5,200	19,000	8,400
Maximum overpull at 240 degF with jar and accelerator combination, lbf	19,000	17,000	20,000	50,000	32,400
Tool Weight, lbm	60	46	100	160	130

TMC ACCELERATOR, SINGLE-ACTING FISHING ACCELERATOR (UP ONLY) SPECIFICATIONS

Tool OD, in.	3 ³ / ₄	3 ³ / ₄	4 ¹ / ₄ [∞]	4 ¹ / ₄	4 ³ / ₄
Tool ID, in.	1 ¹ / ₂	2	2	2 ⁷ / ₁₆	2
Tool Joint Connection	2 ³ / ₈ IF	2 ³ / ₈ EUE	2 ⁷ / ₈ IF	2 ⁷ / ₈ EUE	3 ¹ / ₂ FH
Overall Length, ft.in.	10.4	9	10.8	11.8	11
Tensile Yield, lbf	257,000	233,000	348,000	320,000	422,000
Torsional Yield, lbf.ft	6,600	7,400	11,000	10,000	14,000
Total Travel with Stop Sleeve [†] , in.	11 ³ / ₈	12	11 ¹ / ₄	12	10 ³ / ₈
Rack Test [‡] , in @lbf	10 @ 31,000	10 ¹ / ₈ @ 16,000	9 ⁵ / ₈ @ 32,000	10 ⁷ / ₈ @ 19,000	8 @ 36,000
Oil Fluid, fl oz US	3	3	4	3	8
Minimum overpull at 240 degF with jar and accelerator combination, lbf ^{††}	22,000	16,000	32,000	15,000	54,000
Maximum overpull at 240 degF with jar and accelerator combination, lbf	59,000	38,000	73,000	39,000	90,000
Tool Weight, lbm	180	160	300	268	350

TMC ACCELERATOR, SINGLE-ACTING FISHING ACCELERATOR (UP ONLY) SPECIFICATIONS

Tool OD, in.	4 ³ / ₄ [∞]	6 ¹ / ₄	6 ¹ / ₂	7 ³ / ₄	8 [∞]
Tool ID, in.	2 ¹ / ₄	2 ¹ / ₄	2 ¹ / ₄	3 ¹ / ₂	3 ¹ / ₂
Tool Joint Connection	3 ¹ / ₂ IF	4 ¹ / ₂ IF	4 ¹ / ₂ IF	6 ⁵ / ₈ Reg	6 ⁵ / ₈ Reg
Overall Length, ft.in.	11.10	12	12	13	13
Tensile Yield, lbf	422,000	900,000	928,000	1,304,000	1,304,000
Torsional Yield, lbf.ft	14,000	50,000	50,000	118,000	118,000
Total Travel with Stop Sleeve [†] , in.	10 ³ / ₈	12	12	12	12
Rack Test [‡] , in @lbf	8 @ 37,800	8 ³ / ₄ @ 46,700	8 ³ / ₄ @ 46,700	10 @ 72,000	10 @ 72,000
Oil Fluid, fl oz US	8	12	12	12	12
Minimum overpull at 240 degF with jar and accelerator combination, lbf ^{††}	47,400	66,600	66,600	84,000	84,000
Maximum overpull at 240 degF with jar and accelerator combination, lbf	95,000	107,000 ^{†††}	107,000 ^{†††}	150,000 ^{†††}	150,000 ^{†††}
Tool Weight, lbm	325	800	900	1,200	1,350

[∞]Also available with left-hand connections.

[†] Check stroke before loading the TMC Accelerator tool, if stroke varies, stop sleeves must be modified to obtain stroke as listed.

[‡] Shop test at 70 degF for a nominal BHT of 240 degF, settings for other expected bottom hole temperatures are available upon request.

^{††} Minimum overpull requirement for a jar-accelerator tool combination to obtain an efficient impact.

^{†††} Maximum overpull can be increased in the shop, as the maximum increases, the minimum increases.

Ordering instructions, please specify:

- Hole size
- Connection size, type, and left- or right-hand threads
- Tool diameter
- Hole temperature
- Desired operating load

TMC Single-Acting Hydraulic Fishing Jar (Up Only)

Reliable fishing performance in harsh environments.

The TMC single-acting hydraulic fishing jar combines optimal impact characteristics with high-endurance construction to provide reliable fishing performance in harsh downhole environments. Tool seals are temperature rated to 500 degF and pressure rated to 20,000 psi, and the temperature compensation system in the detent permits prolonged jarring without loss of impact force. The closed drive system prevents wellbore fluid from entering into the drive section, improving tool performance and reliability.

Note: The Jar-Pact fishing program should be utilized to optimize performance of accelerator tools and TMC jars. Wellbore Integrity Solutions recommends that the TMC fishing accelerator tool be used in conjunction with this tool. Contact Wellbore Integrity Solutions for more information.

Applications

- Fishing operations including stuck pipe, packer retrieval, tubing removal, milling, and debris recovery
- Plug and Abandonment (P&A) operations, including pipe recovery and wellhead removal
- Operations that include harsh downhole conditions

Benefits

- Advanced impact characteristics
- Capable of prolonged jarring

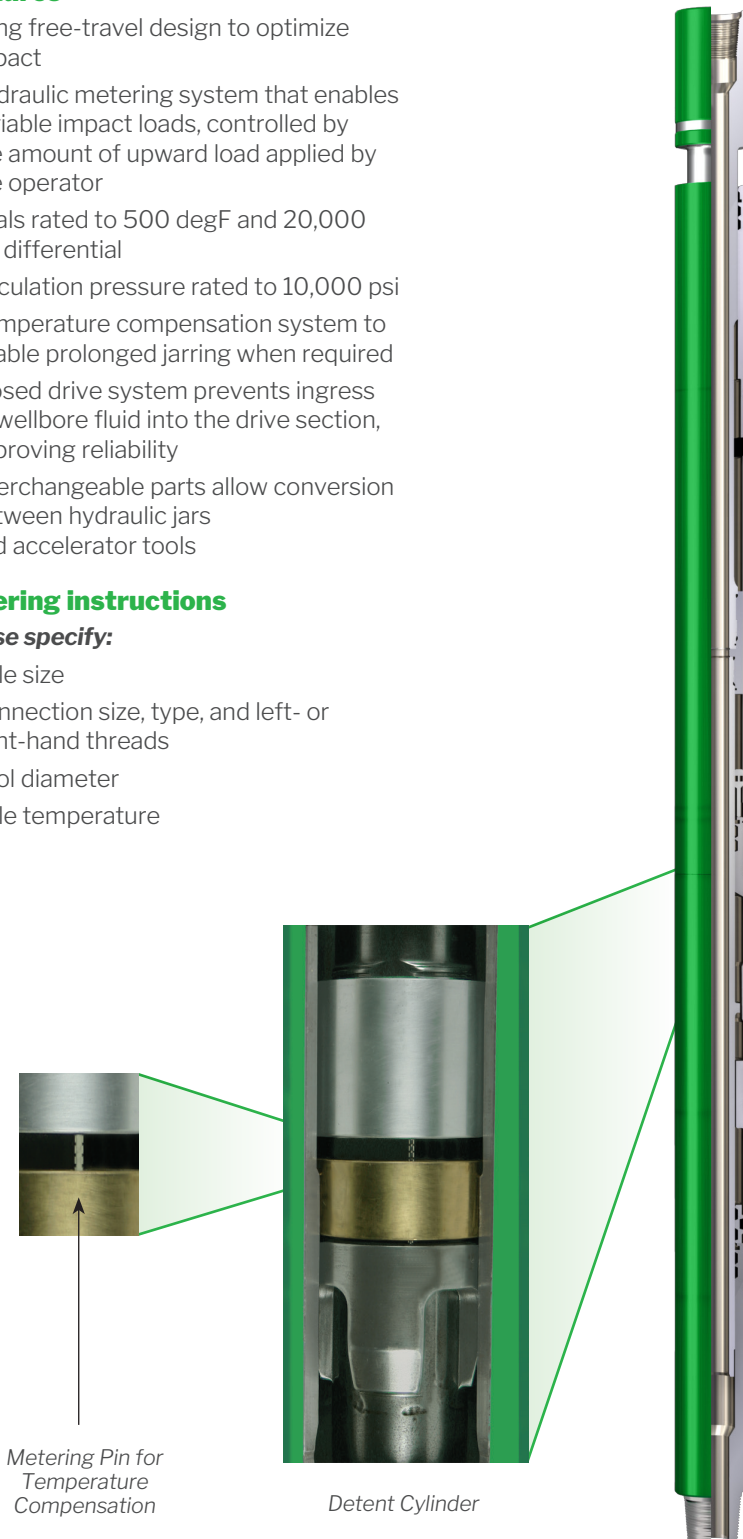
Features

- Long free-travel design to optimize impact
- Hydraulic metering system that enables variable impact loads, controlled by the amount of upward load applied by the operator
- Seals rated to 500 degF and 20,000 psi differential
- Circulation pressure rated to 10,000 psi
- Temperature compensation system to enable prolonged jarring when required
- Closed drive system prevents ingress of wellbore fluid into the drive section, improving reliability
- Interchangeable parts allow conversion between hydraulic jars and accelerator tools

Ordering instructions

Please specify:

- Hole size
- Connection size, type, and left- or right-hand threads
- Tool diameter
- Hole temperature



TMC single-acting hydraulic fishing jar (up only)

TMC Single-Acting Hydraulic Fishing Jar (Up Only)

TMC SINGLE-ACTING HYDRAULIC FISHING JAR SPECIFICATIONS								
Tool OD, in.	1 ¹³ / ₁₆	1 ¹³ / ₁₆	2 ¹ / ₄	3 ¹ / ₈	3 ¹ / ₈	3 ³ / ₄	3 ³ / ₄	4 ¹ / ₄ [∞]
Tool ID, in.	3 ³ / ₈	9 ¹ / ₁₆	1 ¹ / ₂	1	1 ¹ / ₂	1 ¹ / ₂	2	2
Tool Joint Connection	1 ¹³ / ₁₆ WFJ	1 AM MT	1 ¹ / ₄ API Reg	2 ³ / ₈ API Reg	2 ³ / ₈ EUE	2 ³ / ₈ API IF	2 ³ / ₈ EUE	2 ⁷ / ₈ API IF
Assembly Number	16420	16853	16421	16213	16457	16210	16349	16204
Overall Length, ft	7	5	10	12	11	12.17	11	12.83
Recomm. Max. Overpull Working Load During Restricted Travel, lbf	19,000	17,000	20,000	51,000	32,400	59,000	38,000	73,000
Total Stroke, in.	9 ³ / ₄	7 ¹ / ₄	12	16	14	16	16	16
Tensile Yield, lbf	56,000	69,000	95,800	192,000	185,000	257,000	233,000	348,000
Torsional Yield, lbf.ft	800	750	1,900	4,100	4,200	6,600	7,400	11,000
Tool Wt., lbm	75	54	125	200	225	240	325	375

SPECIFICATIONS (CONTINUED)							
Tool OD, in.	4 ¹ / ₄	4 ³ / ₄	4 ³ / ₄	6 ¹ / ₄	6 ¹ / ₂ [∞]	7 ³ / ₄	8 [∞]
Tool ID, in.	2 ⁷ / ₈	2	2 ¹ / ₄	2 ¹ / ₄	2 ¹ / ₄	3 ¹ / ₂	3 ¹ / ₂
Tool Joint Connection	2 ⁷ / ₈ EUE	3 ¹ / ₂ API FH	3 ¹ / ₂ API IF	4 ¹ / ₂ API IF	4 ¹ / ₂ API IF	6 ⁵ / ₈ API Reg	6 ⁵ / ₈ API Reg
Assembly Number	16348	16155	16143	16318	16363	16320	16366
Overall Length, ft	11	13	13.5	15	15	16	16
Recomm. Max. Overpull Working Load During Restricted Travel, lbf	39,000	90,000	95,000	180,000	195,000	300,000	300,000
Total Stroke, in.	16	16	16	18	18	18	18
Tensile Yield, lbf	320,000	422,000	422,000	900,000	928,000	1,304,000	1,304,000
Torsional Yield, lbf.ft	10,000	14,000	14,000	50,000	50,000	118,000	118,000
Tool Wt., lbm	400	425	375	950	1,078	1,400	1,570

NOTE: [∞]Also available with left-hand connections.

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WIS-BR-MKT-314



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