



Mechanical-Set Liner Hangers

TIW Mechanical-Set Liner Hangers are used to suspend cemented and uncemented liners off bottom. Designed for heavy-duty service, they are capable of successfully suspending very long and heavy liners.

When running a liner inside a liner, or where clearance between strings is very close, the Liner Hanger with enclosed J-slots affords several important advantages. This feature limits the travel of the slips while providing for maximum bypass.

The Mechanical-Set Liner Hanger is available with a one-piece integral barrel for maximum pressure integrity. A tandem-cone version with staggered slip alignment is also available for extra bypass and additional hanging capacity. The added bypass lessens pressure build-up during run-in and cementing, which reduces the chance of damage to pressure-sensitive formations.

TIW Liner Hangers are set by picking up on the liner and rotating to disengage the J-slot. As the liner is lowered, springs hold the cage stationary. This allows the barrel to move downward engaging the cone against the slips. This action moves the slips outward against the casing wall.

TIW hangers are available in either left- or right-hand-set models.

Mechanical-Set Liner Hanger Specifications

LINER SIZE O.D.		CASING SIZE				MAXIMUM BODY O.D.	
In.	Mm.	O.D.		WEIGHT RANGE		In.	Mm.
		In.	Mm.	Lb./Ft.	Kg./M.		
1.900	48.3	2 ⁷ / ₈	73.0	6.4	9.5	2 ¹⁵ / ₆₄	56.8
1.900	48.3	3 ¹ / ₂	88.9	9.2	13.7	2 ¹ / ₁₆	68.3
2 ³ / ₈	60.3	4	101.6	9.5-11.6	14.1- 17.3	3 ³ / ₃₂	80.2
2 ¹ / ₂	73.0	4 ¹ / ₂	114.3	9.5-13.5	14.1- 20.1	3 ² / ₃₂	92.8
3 ¹ / ₂	88.9	5	127.0	11.5-18.0	17.1- 26.8	4	101.6
3 ¹ / ₂	88.9	5 ¹ / ₂	139.7	14.0-20.0	20.8- 29.8	4 ¹ / ₂	114.3
4	101.6	5 ¹ / ₂	139.7	14.0-17.0	20.8- 25.3	4 ³ / ₈	117.5
4	101.6	5 ¹ / ₂	139.7	17.0-20.0	25.3- 29.8	4 ³ / ₁₆	115.9
4 ¹ / ₂	114.3	6 ³ / ₈ **	168.3	19.0-24.0	28.3- 35.7	5 ¹ / ₁₆	138.1
4 ¹ / ₂	114.3	6 ³ / ₈	168.3	26.0-32.0	38.7- 47.6	5 ¹ / ₁₆	138.1
4 ¹ / ₂	114.3	7	177.8	20.0-26.0	29.8- 38.7	5 ¹ / ₈	149.2
4 ¹ / ₂	114.3	7	177.8	26.0-32.0	38.7- 47.6	5 ³ / ₈	149.2
4 ¹ / ₂	114.3	7 ¹ / ₈	193.7	26.4-33.7	39.3- 50.2	6 ² / ₃₂	172.2
4 ¹ / ₂	114.3	7 ¹ / ₈	193.7	33.7-39.0	50.2- 58.1	6 ¹ / ₈	168.3
5*	127.0*	6 ³ / ₈ **	168.3	19.0-24.0	28.3- 35.7	5 ³ / ₁₆	141.3
5	127.0	7	177.8	17.0-24.0	25.3- 35.7	6 ¹ / ₈	161.9
5	127.0	7	177.8	20.0-26.0	29.8- 38.7	5 ¹ / ₈	149.2
5	127.0	7	177.8	26.0-32.0	38.7- 47.6	5 ³ / ₈	149.2
5	127.0	7	177.8	32.0-38.0	47.6- 56.6	5 ³ / ₁₆	141.3
5	127.0	7 ¹ / ₈	193.7	26.4-33.7	39.3- 50.2	6 ¹ / ₄	158.8
5	127.0	7 ¹ / ₈	193.7	33.7-39.0	50.2- 58.1	6 ¹ / ₄	158.8
5 ¹ / ₂ *	139.7*	7	177.8	20.0-26.0	29.8- 38.7	6 ¹ / ₁₆	154.0
5 ¹ / ₂	139.7	7 ¹ / ₈	193.7	26.4-39.0	39.3- 58.1	6 ¹ / ₁₆	163.5
5 ¹ / ₂	139.7	8 ⁵ / ₈	219.1	24.0-49.0	35.7- 72.9	7 ¹ / ₄	184.2
6 ³ / ₈	168.3	8 ⁵ / ₈	219.1	24.0-32.0	35.7- 47.6	7 ³ / ₈	187.3
6 ³ / ₈	168.3	8 ⁵ / ₈	219.1	32.0-40.0	47.6- 59.5	7 ³ / ₈	187.3
6 ³ / ₈	168.3	9 ¹ / ₈	244.5	29.3-53.5	43.6- 79.6	8 ¹ / ₁₆	204.8
7	177.8	9 ¹ / ₈	244.5	29.3-40.0	43.6- 59.5	8 ¹ / ₄	209.6
7	177.8	9 ¹ / ₈	244.5	43.5-53.5	64.7- 79.6	8 ¹ / ₄	209.6
7	177.8	10 ¹ / ₄	273.1	32.0-55.5	47.6- 82.6	9 ¹ / ₈	231.8
7 ³ / ₈	193.7*	9 ¹ / ₈	244.5	32.3-40.0	48.1- 59.5	8 ³ / ₈	212.7
7 ³ / ₈	193.7*	9 ¹ / ₈	244.5	40.0-47.0	59.5- 69.9	8 ³ / ₈	212.7
7 ³ / ₈	193.7	9 ¹ / ₈	244.5	53.5	79.6	8 ¹ / ₄	209.6
7 ³ / ₈	193.7	10 ¹ / ₄	273.1	32.0-40.5	47.6- 60.3	9 ¹ / ₈	231.8
7 ³ / ₈	193.7	10 ¹ / ₄	273.1	45.5-55.5	67.7- 82.6	9 ¹ / ₈	231.8
8 ⁵ / ₈	219.1	10 ¹ / ₄	273.1	32.0-40.0	47.6- 59.5	9 ¹ / ₈	244.5
9 ¹ / ₈	244.5	11 ¹ / ₄	298.5	54.0-60.0	80.4- 89.3	10 ³ / ₈	263.5
9 ¹ / ₈	244.5	11 ¹ / ₄	298.5	65.0	96.8	10 ⁷ / ₁₆	265.1
9 ¹ / ₈	244.5	13 ³ / ₈	339.7	48.0-85.0	71.4-126.5	11 ¹ / ₁₆	281.0
10 ¹ / ₄	273.1	13 ³ / ₈	339.7	48.0-68.0	71.4-101.2	12 ¹ / ₁₆	306.4

*I.D. restricted for some weights. ** 6³/₈" O.D. 19-24 lb. same as 7" O.D. 32-38 lb. Popular sizes shown. Other sizes available from your TIW representative.