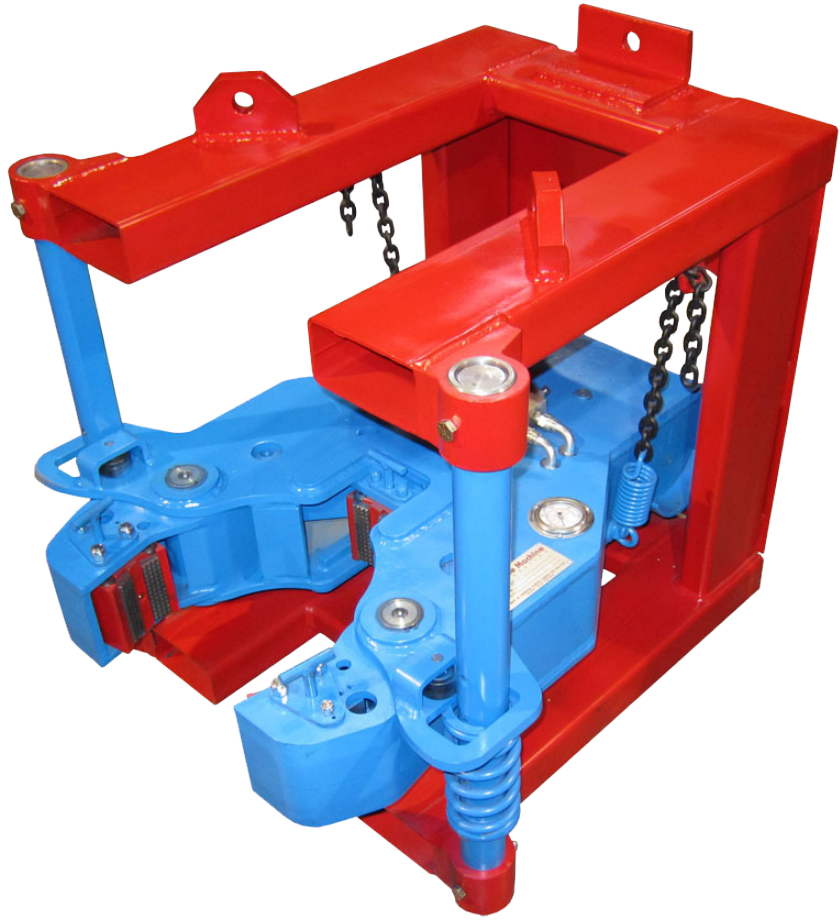
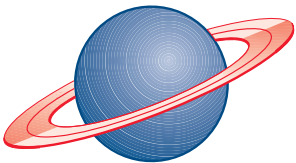


# Hydraulic Backup

STRAIGHT TORQUE from UNIVERSE



- Features:**
- Radial Load Eliminator
  - Tri-Bite Link System
  - Bi-Directional Compressor Load Cell
  - Dual Size Capability



# Universe Machine

C O R P O R A T I O N

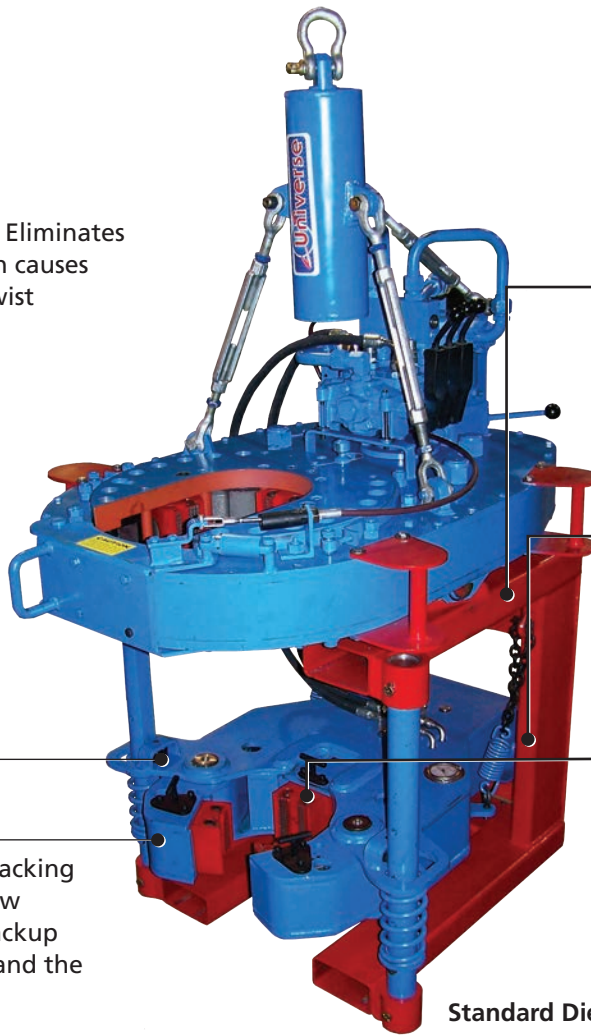
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Web Site www.umcorp.com

# Hydraulic Backup

**Radial Load Eliminator (RLE):** Eliminates radial load on the joint which causes torque to be lost and axial twist through the joint which may result in cross threading damage



**Modular:**  
The backup is shown mounted below a Universe power tong but may also be mounted below other tongs

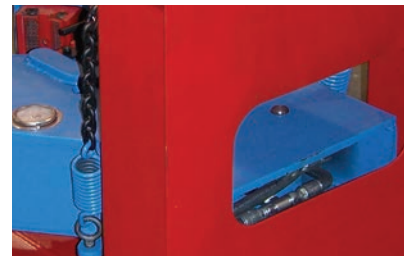
**Bi-Directional Compression Load Cell System Option:** Two load cells which enable the operator to measure torque in both directions

**Tri-Bite Link:**  
The backup utilizes a three jaw biting system providing equal force on all jaws for an optimum bite

**Dual Size Capability:**  
On sizes 10-5/8 and up, the backing system incorporates a dual jaw position, which makes the backup capable of biting the casing and the coupling with the same jaws

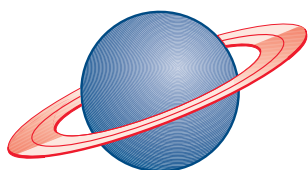
US Patent: 2,269,393 Canadian Patent: 6,263,763

Standard Dies (2 3/8 to 5 1/2), Wraparound  
Other sizes use insert dies



Size	Maximum Torque	Weight	Dimensions (WxLxH)	
			Inches - without tong	(m)
6 (152)	15,000 (2,074)	650 (296)	26-3/8 x 31 x 31-1/2	(0.66 x 0.79 x 0.80)
7-5/8 (194)	17,000 (2,035)	700 (329)	23 x 31 x 34	(0.58 x 0.79 x 0.86)
10-5/8 (270)	27,000 (3,773)	800 (363)	32-3/8 x 35 x 33-1/2	(0.82 x 0.89 x 0.85)
14-5/8 (372)	25,000 (3,456)	1000 (454)	38-1/4 x 33 x 30-1/2	(0.97 x 0.84 x 0.77)
14-5/8 (372) UPGRADE	30,000 (4,148)	1000 (454)	38-1/4 x 33 x 30-1/2	(0.97 x 0.84 x 0.77)

Data is subject to change without notice; visit our website for up to date information.



**Universe**  
**MACHINE**  
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