

# Friction-Bite Unit

from  
Universe

Designed specifically for Premium Pipe (chrome, stainless, special coated, fiberglass, and other exotic material) that must be torqued without penetrating, marking or damaging the tubing. **The Friction Bite Unit (FBU)** is designed for use on an open or closed mouth type of Power Tong.

## Modular Friction Bite Unit

- No additional hydraulic connections required
- Attached with 4 bolts for quick change out
- Can be mounted on other manufacturers' tong

## Features include Non-Marking Bite:

- Several types of wrap-around dies
- Allows for the utilization of the tong's full torque potential

## Friction Bite System

- FBU** can be mounted on the Universe Power Tong and Integral Backup
- Provides interchangeability of Jaws / Dies
- Universe Hydraulic Backup performs the same as the **FBU**

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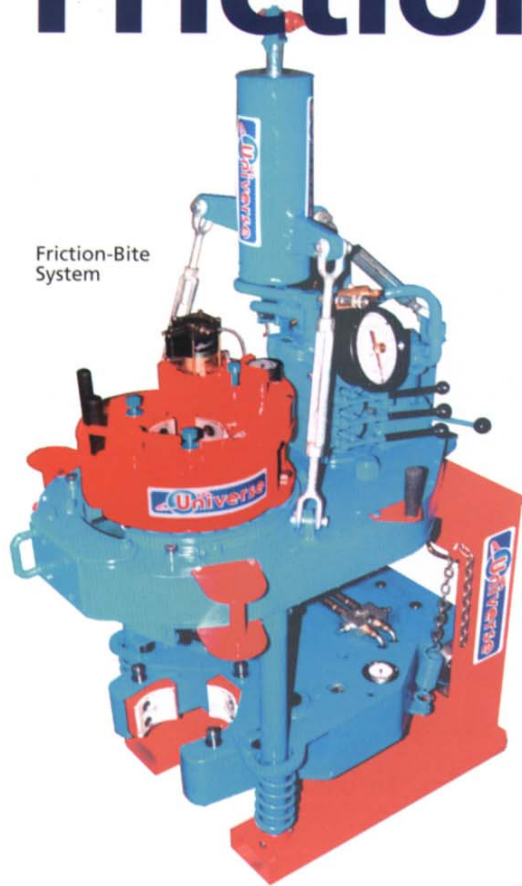
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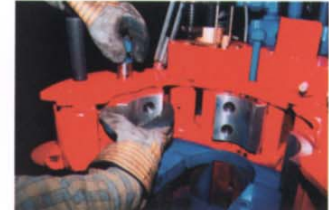
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# Friction Bite Unit



**Modular:** The FBU is shown mounted onto a Universe open mouth power tong & can be mounted on other manufacturers' tongs. It can be quickly installed or removed, on site, by removing 4 bolts. As the FBU is operated by compressed air, there is no need for an additional hydraulic valve bank on the tong. It is very light and compact.



## Wrap Around Dies:

- for different applications
- available as follows:

### Conventional Hardened Steel Fine Toothed:

- produces highest torque
- when used with FBU it results in less marking on tubing than conventional cam-type tongs

### Grit Faced:

- produces highest torque with minimal surface scratches—acceptable for most CRA applications

### Smooth Aluminum Dies:

- provides an intermediate torque with no marking at all
- For more torque these dies can also be used with Silicone Carbide Papers

### Polyurethane:

- For low torque applications with a non-marking bite

**Quick Change Jaws:** By removing a pin, the jaws can be changed to allow for different sizes of tubing.

**Friction-Bite System:** We can provide the user with a complete hassle free package, incorporating Universe Power Tong and Hydraulic Backup systems.

The Universe Power Tong has Variable Speed Control. Its jaws are completely interchangeable with the FBU which reduces tool-up costs. Universe Tongs built-in maximum torque adjustment, speed up connection time, eliminating over-torquing.

The Universe Backup has a Tri-Bite Link System that utilizes the 3-jaw system – which has the same performance characteristics as the FBU. Our backup has a patented Radial Load Eliminator, minimizing joint friction and eliminating axial twist.

The Universe Friction Bite System can also be integrated / used with a torque computer monitoring / control system.

Model	Size max		Size min		Power Requirement	MAXIMUM Torque		Weight		Dimensions		
	inch	(mm)	inch	(mm)		ft. lb	(kg.m)	lbs	(kg)	inch (width x depth x height)	metres	
04A05C	5.50	(139.7)	2.06	(52.4)	80-120 PSI compressed Air	15,000	(2,070)	185	(84)	(84)	16.6x17.5x13.5	(0.42x0.44x0.34)
04A09D	9.63	(244.5)	2.375	(60.3)	80-120 PSI compressed Air	22,000	(3040)	215	(98)	(98)	21.5x23x13.5	(0.55x0.58x0.34)



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