



## Field Machine Tools Pty Ltd

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## LITTLE RIPPER

### Portable Align-bore systems

Model	Bar size inch	Bar size mm	Dia range inch	Dia range mm	Drive	Bar Speed	Torque range Nm
156		40	1.5-6		Electric		
200	2.0		2.25-14	63-355	Electric Hydraulic (6hp)	15-170 50-200	160-272
Small bar kit	1.25		1.3-4	33-100	Suitable any above		

Manufactured by **Field Machine Tools Pty Ltd, Mentone VIC, Melbourne Australia**

Background (Accumulative) 14 years of Component repair, Welding, Machining, Straightening, and Fitting  
6 years of portable machine tool operation  
10 years of portable machine tool design, development, patents, and manufacture  
10 years of portable machine tool sales and marketing

Design Each manufacturer has unique ideas however not one machine system has a combination of all the best features. We have developed the LITTLE RIPPER to incorporate best practices without copying our competitor designs. We suggest a portable machine tool must be small, light, and simple without compromising rigidity.

Simple LITTLE RIPPER is manufactured with out the use castings. We control costs by using off the shelf components where ever possible. We control costs by simple component design and fabrication methods. You do not need a Daimler Benz to be professional and efficient and very few of you are willing to spend the money.

Precision Portable line boring systems rely on rigidity for repetition and surface finish Rigidity is a product of bar flex and bearing support. The LITTLE RIPPER uses precision bearings, Close bar tolerances, and Zero backlash drive train.

Efficient LITTLE RIPPER is lighter than other systems because it is modular. It is designed to be smaller than other systems so it can be configured to fit in restricted spaces. The little ripper can be set up faster because it uses self-aligning and adjustable mounting systems. Our gear drive system is designed for large diameter torque loads but is capable of fast bar speeds with less power input.

Quality Extensive use of Heat treating, Black oxidizing, and Nickel-plating

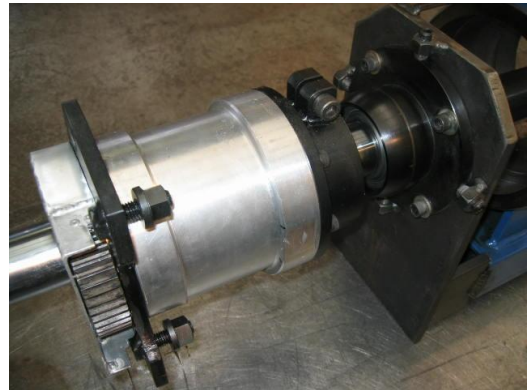
# **LITTLE RIPPER** Portable Align-bore systems

## **DATA PAGE**

System Includes	Bar drive	1-with self align clamp
	Drive motor	1-Hydraulic
	Feed unit	with 300mm feed screw
	Boring bar	1-8ft bar
	Off-set drive mount	1-with self align seat & bearing
	Bar support bearing	2-with bearing
	Boring heads	1-systems up to 200mm 2-systems up to 300mm 3-systems up to 400mm
	Power supply	
	Hydraulic	4 Kw 3-phase hydraulic
	Alignment chucks	2
	Tooling	2-1/2 tool steel 2-1/2 shank brazed carbide

### **Drive unit**

Type	Self aligning clamp mount with one bolt, Adjustable sealed tapered roller bearings
Size	Parallel gear drive 220 long, 200 wide, 150 high,
Wt	12Kg



### **Detachable drive**

Interchangeable Hydraulic motors for optimum Speed & Torque	
Quick attach swing mount	
Quick release hydraulic fittings	
Heat-treated drive gear	
Aluminum gear guard	
Wt	10 kg



### Drive unit with motor

Swing attach motor installs in seconds

Boring bar free spins with motor placed in neutral

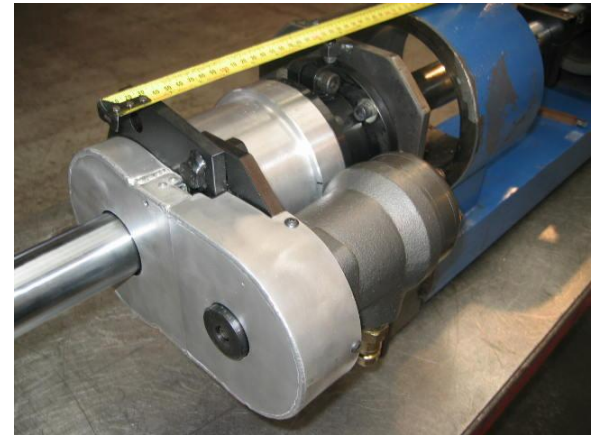
Lo-profile drive unit takes less space for radial clearance

*Just 75mm from bar center to the closest obstruction*

Drive unit fits between bores just 400 long (inc mount)

Size w/o feed unit 220 long, 260 wide, 185mm high

Combined weight 22kg



### Feed module

Bar driven Locates anywhere on bar

*Can be remote located away from drive*

Variable feed Range .007 to .30mm per rev

Feed In or Out

Orientation Reversible to straddle drive unit

Travel 350mm standard

Feed screw Stock standard metric

Size over all 400 long, 100 wide, 185mm high

Wt 7kg



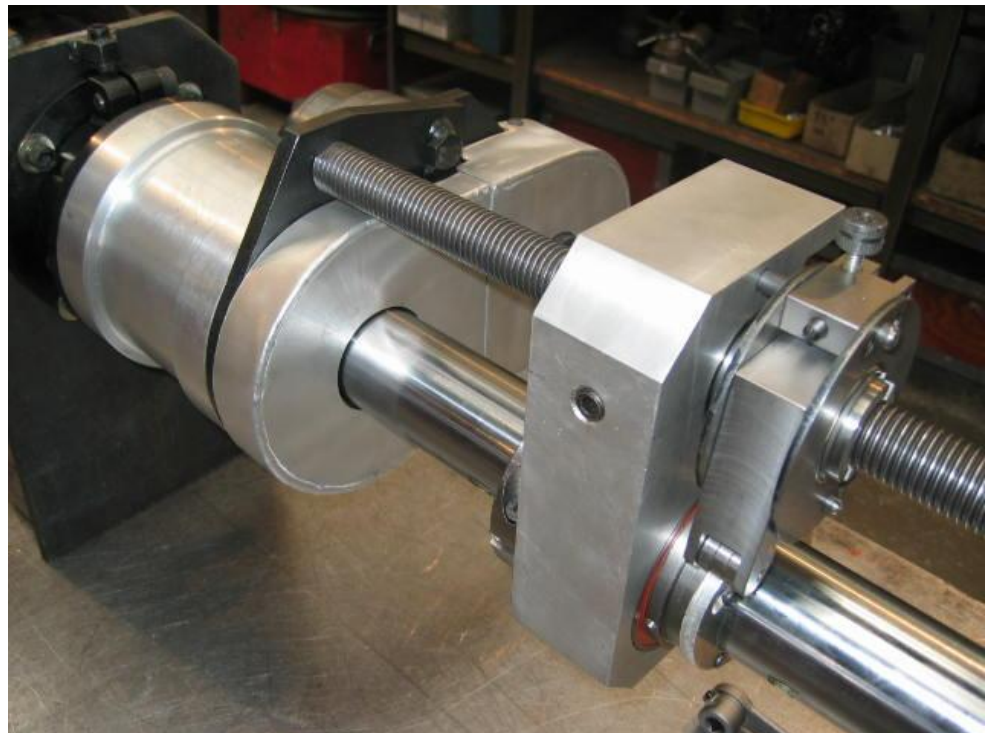
### **LITTLE RIPPER**

Length 670mm

Wide 260mm

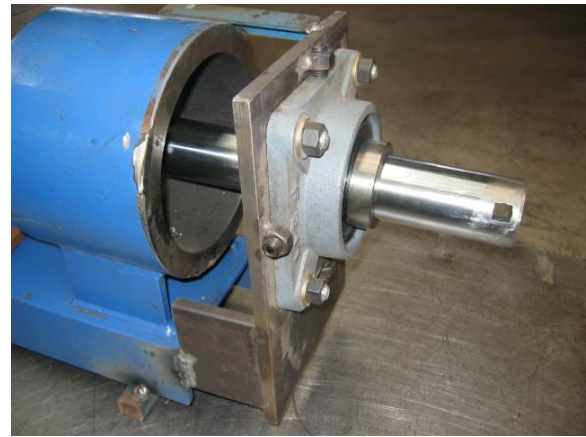
High 185mm

Weight 29kg



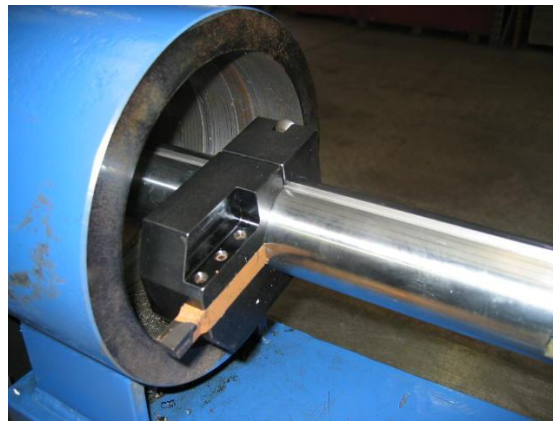
### Bar support bearing

- Adjustable X-Y axis
- Available offset (shown)
- Available straddle type (for bores over 300mm)
- Fabricated bracket is nickel-plated
- Can be tacked or bolted



### Boring heads

- Split clamp installs any where on bar
- Black oxidized finish
- Available 3 sizes up to 400 diameter
- 1/2 tool slot on C/L
- Cutting tool exposed for facing
- Usable RH or LH



### Boring bars

Made of 4140-alloy steel, Chrome plated specified for Hydraulic cylinder rod.  
1/2 square tool holes located 12mm from both ends, Spaced 150mm apart.

Standard bars	4 ft / 1220mm	6 ft / 1828mm	8 ft / 2438mm	10 ft / 3048mm	12ft / 3658mm
1.25	•	•			Custom
1.75	•	•	•		
2.0	•	•	•	•	
2.25		•	•	•	

**Electric drive motor** 1800 watt, 2 speed gear box, variable speed 30-400 rpm input

### 1.5 Kw Hydraulic Power unit

Single phase, 28-liter reservoir, 11-Lpm, 104-bar.  
Feature Variable flow on tank, 6m 24-V on/off pendant, Remote control spool valve  
Includes 2-6m hoses with Q/r fittings, 2-1m hoses with Q/d fittings

### 4.0 Kw Hydraulic Power unit

3-phase, 75-liter reservoir, 22-Lpm, 104-bar.  
Feature Self compensating piston pump, 24-V on/off pendant  
Includes 2-6m hoses with Q/d fittings

### Facing head

- Collapsible for minimal swing clearance
- Variable feed rate
- Feeds In-or-Out
- Split mount clamps anywhere on bar
- Interchangeable facing bars to 500 diameter

