

# MIRAGE PORTABLE MACHINING TOOLS

For the toughest on-site machining jobs



**ENERPAC** 

Since joining the Enerpac portfolio, the design innovation of Mirage machines has continued to deliver new products that help get the job done faster, safer, and smarter. Explore the full Mirage product line from flange facing machines, milling machines, hot tapping, drilling and tapping machines to clamshell pipe cutters, decommissioning and band saws. All backed by Enerpac training, application support and service.

### Design & Innovation

Mirage Portable Machine Tools are the result of over 25 years of expertise and innovation. The pioneering spirit continues under Enerpac ownership through our commitment to new product development. Watch out for more new tools being launched in the near future!

### Continuous Improvement

Our specialist manufacturing operation is ISO9001 certified. This means we drive a culture of continuous improvement. Our team members are encouraged to find ways to improve today, tomorrow, and long into the future.

### Specialist Support, Experience & Expertise

Each machining project presents difficult and unique challenges. Making the right choice for your next and any future projects can be complex. That is why our team is eager to support you through every step on your journey. Whether it is choosing the right specification, commissioning your machine, or maintenance - we're with you all the way.



Specialist Support, Experience & Expertise



Utilities



Nuclear



Oil & Gas



Petrochemicals



Power Generation



Ship Building, Maintenance and Repair



Wind Power



Construction and Mining

▼ **HTM100**



**HTM, MANUAL HOT TAPPING**

- Operates to 1480 psi (102 bar)
- Versatile hot taps, bypass lines and completion plugs
- Manual rotation & feed
- Optional pneumatic feed
- 2" NPT connection
- Lightweight construction.

▼ **LPHT312**



▼ **MHT312**



**LPHT312, LOW PRESSURE HOT TAPPING**

- Operates up to 285 psi (20 bar)
- Pneumatic or hydraulic drive
- Depth stop to ensure correct hot tap distance.

**MHT, HOT TAPPING MACHINES**

- Pressure rating up to 1480 psi (102 bar)
- Helical geared drive situated close to the cutter
- Hydraulic and pneumatic drive options
- Industry standard connection flanges
- Compatible with industry standard tooling
- Fast traverse feed motors available
- Cutter holders included
- Interchangeable seal cartridge.

## HTM, LPHT MHT Series



Tapping Diameters:

**1/2 - 60" / 12,7 - 1524 mm**

Maximum Stroke:

**18 - 180" / 457 - 4572 mm**

Maximum Operating Pressure:

**285-1480 psi / 20-102 bar**



**Hot Tapping – Built to deliver power where it matters most.**

Hot tapping is a high-pressure intervention and our range of hot tapping machines can help towards a safe and effective solution. Industry-leading innovations used include a helical gear drive located as close to the cutting head as possible for maximum efficiency, rotary pressure seals, and four fixed feeds.

**Applications**

- Construction tie-ins
- Gas distribution
- Petrochemical pipelines
- Subsea pipelines
- Temporary installation
- Transmission pipelines
- Valve installation and repair
- Water mains pipelines
- Wellhead maintenance.

▼ *On-site hot tapping with MHT312.*



**Hot Tapping Machines**

Tapping Diameters (Min. - Max.)		Maximum Stroke		Max. Operating Pressure		Machine Model Number	Drive Power Options	
(inch)	(mm)	(inch)	(mm)	(psi)	(bar)		Pneumatic	Hydraulic
1/2 - 4	12,7 - 102	18	457	1480	102	<b>HTM100</b>	*	*
1/2 - 6	12,7 - 152	32	813	1480	102	<b>HTM150XL</b>	*	*
3 - 12	76,2 - 305	30	762	285	20	<b>LPHT312</b>	•	•
3 - 12	76,2 - 305	42	1067	1480	102	<b>MHT312</b>	•	
4 - 20	102 - 508	72	1829	1480	102	<b>MHT420</b>		•
8 - 24	203 - 609	80	2032	1480	102	<b>MHT824</b>		•
12 - 36	76,2 - 914	110	2794	1480	102	<b>MHT1236</b>		•
12 - 42	76,2 - 1066	132	3353	1480	102	<b>MHT1242</b>		•
24 - 60	203 - 1524	180	4572	1480	102	<b>MHT2460</b>		•

\* HTM has manual rotation & feed.

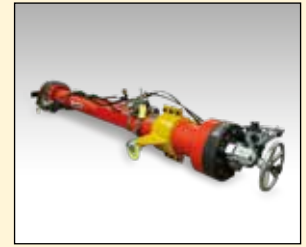


# Mirage Hot Tapping Machines & Line Stopping Actuators

## ▼ CHT3000



## CHT, LSA Series



Tapping Diameters:

**3 - 60" / 76 - 1524 mm**

Maximum Stroke:

**43 - 165" / 1092 - 4191 mm**

Maximum Operating Pressure:

**1480-5000 psi / 102-350 bar**

## ▼ LSA1420-H



### LSA-Series Line Stopping Actuators

Mirage Line Stopping Actuators (LSA) are used in conjunction with the required line stop head and housings to carry out line stops in surface or subsea environments.

The range is designed for easy use on pipelines in various materials and differing wall thickness. Their use provides temporary pipeline isolation, temporary or permanent bypass and no costly interruption of service.

### CHT, HOT TAPPING MACHINES

- Working pressure capacity up to 5000 psi (350 bar)
- Drive as close to the cut enhances cut efficiency
- Auto feed - infinitely variable for differing cut conditions
- Constant pressure seal monitoring ports
- Internally pressure balanced for higher pressure applications
- Industry standard connection flanges
- Compatible with standard industry tooling.

### LSA, LINE STOPPING ACTUATOR

- Operates up to 1480 psi (102 bar)
- Hydraulic drive
- Depth measurement
- Control bar mechanical lock.



▲ CHT3000 hot tapping application for petrochemical pipeline installation.

### CHT-Hot Tapping Machines & LSA-Line Stopping Actuators

Tapping Diameters (Min. - Max.)		Maximum Stroke		Max. Operating Pressure		Machine Model Number	Drive Power
(inch)	(mm)	(inch)	(mm)	(psi)	(bar)		
3 - 12	76 - 305	43	1092	5000	350	CHT1000	•
3 - 16	76 - 406	66	1676	5000	350	CHT1675	•
6 - 24	152 - 609	80	2032	5000	350	CHT2000	•
12 - 48	305 - 1219	150	3810	5000	350	CHT3000	•
4 - 12	102 - 305	72	1829	1480	102	LSA412-H	•
14 - 20	356 - 508	105	2667	1480	102	LSA1420-H	•
22 - 36	559 - 914	140	3556	1480	102	LSA2236-H	•
36 - 60	914 - 1524	165	4191	1480	102	LSA3660-H	•

▼ CHT2000 hot tapping offshore application.

