

42" Stroke – Ø3-12" capacity

Rev 1.1

A hot tapping machine used to make connections and branches to pipelines without shutdown either surface or sub sea (with optional kit).



- Helical geared drive
- Drive as close to cutter as possible
- 4 speed feed gearbox (optional)
- Fast traverse feed motor (optional)
- 2.5" boring bar as standard
- Cutter holders 3-12" included
- Interchangeable seal cartridge
- Industry standard connections

The Mirage MHT range is designed for ease of use in making 3 - 12 inch (76 - 305mm) taps into various material pipelines and tanks with the ability to fast traverse and vary the cutter feed rate.

Hydraulically or pneumatically operated with industry standard boring bar connection and flange adapter connection for existing equipment.

Maximum working pressure is 1,480 p.s.i (100 bar) at 100°F (38°C). Operating temperature continuous rating is 350°F (177°C) at 1025 psi (70 bar). Intermittent service rating is -20°F (-9°C) to 700°F (371°C) at 700 psi (48 bar).

Supplied complete with hot tap machine, (air preparation equipment where required) and boring bar drive motor, lifting brackets, (3 - 4"), (6 - 12") cutter holders, connection hoses, valves and pressure gauge, toolkit, all required mounting studs and nuts and #600 RTJ connection spool, RTJ soft iron seal, CE certificate, packing list and manual - pressure certificate for working pressure - 1480 psi (100 bar).

## Technical Details

Minimum Tapping Hole Diameter	76mm	3"
Maximum Tapping Hole Diameter	305mm	12"
Maximum Operating Pressure	102 Bar	1480 psi
Standard Certified Pressure	102 Bar	1480 psi
Maximum Operating Temperature (continuous)	177°C	350°F
Boring Bar Travel	1067mm	42"
Boring Bar Diameter	63.5mm	2.5"
Cutter rotation, pneumatic – at max power	Min: 0 rpm	Max: 19 rpm
Cutter rotation, hydraulic – at max power	Min: 0 rpm	Max: 31 rpm
Pneumatic drive @ 6 bar (90 psi)	3 kW	4 HP
Hydraulic supply @ 60 l/min & 95 bar (1,400psi)	6 kW	8 HP

## Feed Rates

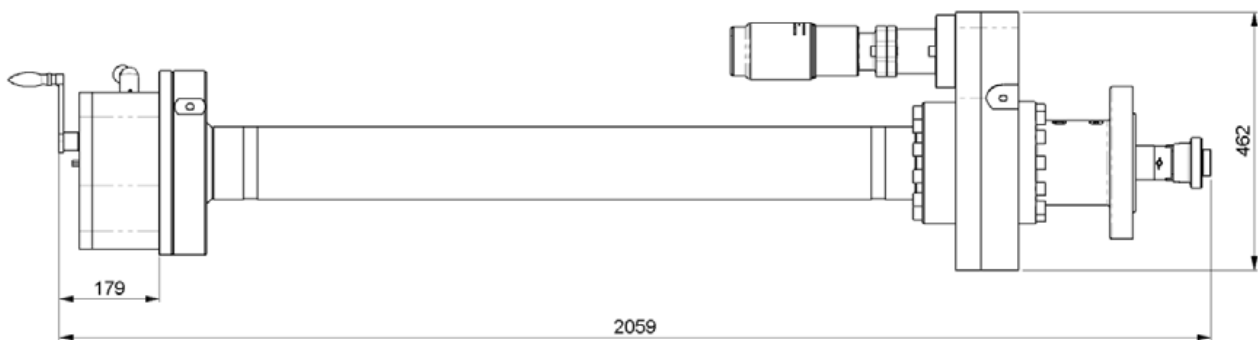
Feed Rate - Manual / Revolution	8.46 mm	0.333"
Feed Rate Auto Feed Gearbox / Rev	0.076 mm	0.003"

## Weights and Dimensions

Machine Weight	396 kgs	794 lbs
Shipping Weight	617 kgs	1360 lbs

## Shipping Dimensions

Length		Width		Height	
mm	inches	mm	inches	mm	inches
2790	109.8	620	24.4	690	27.2



**Optional Accessories**

<b>PP4 Hydraulic Power Unit</b>	<b>MHT3-12-27</b> Skid and Packaging for MHT3-12 165lbs / 75kgs
<b>MHT3-12-SK</b> Seal and spare parts kit 11lbs / 5kgs	<b>MHT3-12-6</b> Fast traverse motor and gear set 15lbs / 7kgs
<b>MHT3-12-5-3</b> Plug holders 3-4" / 80-100mm 2.5lbs / 1kg	<b>MHT3-12-5-4</b> Plug holders 6-12" / 150-305mm 8lbs / 4kgs

**Standard Flange Adaptors**

Nominal Size		ASME Class 150			ASME Class 300			ASME Class 600		
Inches	DN	lbs	kgs	Part no.	lbs	kg	Part no.	lbs	kg	Part no.
3	80	54	24	150-3FA	55	25	300-3FA	57	26	600-3FA
4	100	57	26	150-4FA	65	29	300-4FA	80	36	600-4FA
6	150	70	32	150-6FA	95	43	300-6FA	146	66	600-6FA
8	200	85	39	150-8FA	100	45	300-8FA	150	68	600-8FA
10	250	115	42	150-10FA	155	70	300-10FA	200	91	600-10FA
12	300	170	77	150-12FA	215	98	300-12FA	315	143	600-12FA

**Standard Hot Tap Applications**

Nominal Size		Actual Size		Standard Hot Tap Cutters			Standard Hot Tap Pilot Drills		
Inches	DN	Inches	mm	lbs	kg	Part no.	lbs	kg	Part no.
3	80	2.43	67	1	0.5	HTC3	0.5	0.2	SHTPD3
4	100	3.43	87.3	2	1	HTC4	0.5	0.2	SHTPD4
6	150	5.47	138.9	5.75	3	HTC6	2	0.9	SHTPD6
8	200	7.31	185.8	14.5	7	HTC8	2	0.9	SHTPD8
10	250	9.5	241.3	22.5	10	HTC10	2	0.9	SHTPD10
12	300	11.5	292.1	36	16	HTC12	2.5	1	SHTPD12

**Standard Line Stop Applications**

Nominal Size		Actual Size		Standard Line Stop Cutters			Standard Line Stop Pilot Drills		
Inches	DN	Inches	mm	lbs	kg	Part no.	lbs	kg	Part no.
4	100	3.93	99.8	42	19	LSC4	5.5	2.5	LSPD4
6	150	5.93	150.6	55	25	LSC6	6	2.7	LSPD6
8	200	7.87	200.03	53.5	24	LSC8	6	2.7	LSPD8
10	250	9.87	250.7	84	38	LSC10	6.5	2.9	LSPD10
12	300	11.81	299.9	98	45	LSC12	7.5	3.4	LSPD12