

MHT3-12 Hot Tapping machine

42" stroke – Ø3 - 12" capacity



Description

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

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).

Features

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

Technical Details

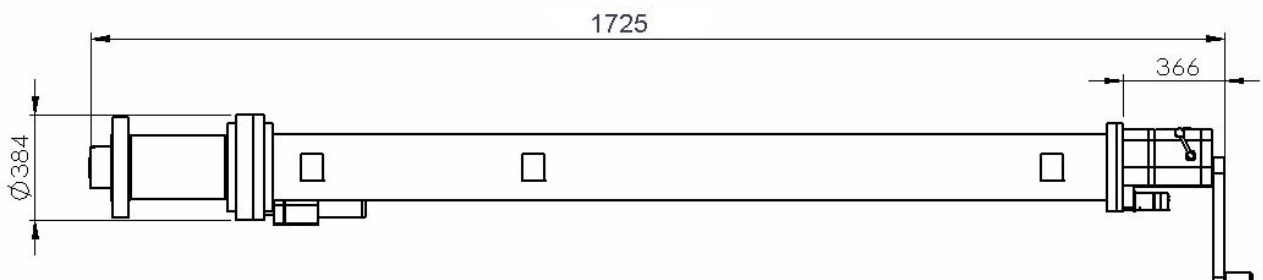
Minimum tapping hole diameter	76mm	3"
Maximum tapping hole diameter	305mm	12"
Maximum operating pressure	102 bar	1480 p.s.i
Standard certified pressure	102 bar	1480 p.s.i
Maximum operating temperature (continuous)	177° C	350° F
Boring bar travel	1067mm	42"
Boring bar diameter	63.5mm	2.5"
R.P.M	Min: 5	Max: 40
Drive – Hydraulic @ 100bar (1450 psi)	3.7 Kw	5 Hp
Hydraulic supply required @ 1050 p.s.i (100bar)	50 L/min	13 gal/min
Pneumatic Drive @ 6 bar (90 psi)	3 Kw	4 Hp

Feed Rates

Feed rate – Manual / revolution	8.46mm	0.333"
Fast traverse feed rate	0 – 1000 mm/min	0 – 40" / min
Feed rate auto feed gearbox / rev	0.025, 0.076, 0.10, 0.14mm	0.001", 0.003", 0.004", 0.0055"

Weights and dimensions

Machine weight	183 kgs	403 lbs	
Shipping weight	203 kgs	447 lbs	
Shipping dimensions	L - 228cm (90")	W - 93cm (36")	H - 70cm (28")



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)

PP4 - Hydraulic power unit

Engine – Diesel	35 Kw	47 Hp
Maximum Pump delivery	0 -80 Lpm	0 - 21 gpm
Maximum operating pressure	100 bar	1450 p.s.i
Standard reservoir capacity	250 litres	55 gallons
Diesel fuel tank capacity	25 litres	5.5 gallons
Weight (not including fuel and hydraulic oil)	727 Kgs	1600 Lbs
12volt battery start and pendant control		

Plug holders

Nominal size		Weight		
Inches	mm	Lbs	Kgs	Part Number
3 – 4	80 – 100	2.5	1	MHT3-12-5-3
6 – 12	150 - 305	8	4	MHT3-12-5-4

Optional accessories

Description	Lbs	Kgs	Part Number
Skid and packaging for MHT3-12	165	75	MHT3-12-7
Seal and spare parts kit	11	5	MHT3-12-SK
Fast traverse motor and gear set	15	7	MHT13-12-6

Standard Flange adapters

Nominal size		ASME class 150			ASME class 300			ASME class 600		
In	DN	Lbs	Kgs	Part Number	Lbs	Kgs	Part Number	Lbs	Kgs	Part Number
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		
In	DN	In	mm	Lbs	Kgs	Part Number	Lbs	Kgs	Part Number
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		
In	DN	In	mm	Lbs	Kgs	Part Number	Lbs	Kgs	Part Number
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