

72" Stroke – Ø4-20" 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 4-16" included
- Interchangeable seal cartridge
- Industry standard connections

The Mirage MHT range is designed for ease of use in making 4 - 20" (102 - 508mm) 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"), (12 - 20") 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	102mm	4"
Maximum Tapping Hole Diameter	508mm	20"
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	18306mm	72"
Boring Bar Diameter	75mm	3"
R.P.M	Min: 5	Max: 40
Drive - Hydraulic @ 100 bar (1450 psi)	3.7 Kw	5 Hp
Hydraulic Supply Required @ 1050 p.s.i (100 bar)	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 - 1000mm / 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"

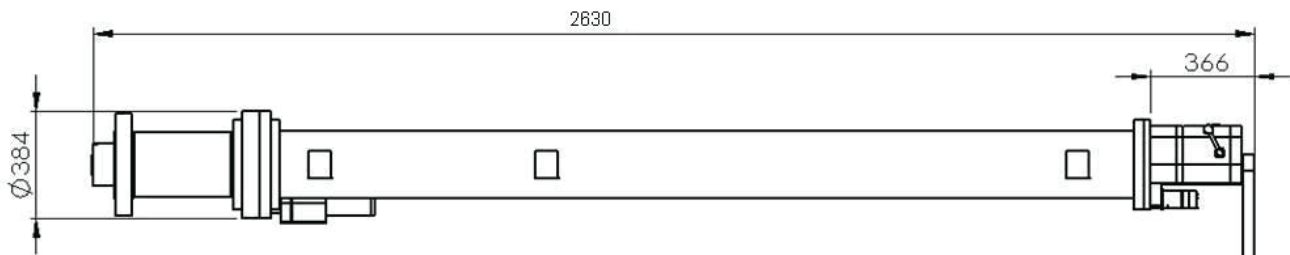
Weights and Dimensions

Machine Weight	505 Kgs	1111 Lbs
Shipping Weight	605 Kgs	1331 Lbs

Shipping Dimensions

Length		Width		Height	
mm	inches	mm	inches	mm	inches
2700	106"	930	36"	700	28"

Length with measuring rod = 5440mm / 214"



Optional Accessories

PP4 Hydraulic Power Unit	MHT4-20-7 Skid and Packaging for MHT4-20 165lbs / 75kgs
MHT4-20-SK Seal and spare parts kit 11lbs / 5kgs	MHT3-12-5-3 Plug holders 3-4" / 80-100mm 2.5lbs / 1kg
MHT3-12-5-4 Plug holders 6-12" / 150-305mm 8lbs / 4kgs	MHT4-20-5-3 Plug holders 14-20" / 355-508mm 16lbs / 7kgs

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.
4	100	70	32	150-4FA	79	36	300-4FA	82	37	600-4FA
6	150	79	36	150-6FA	99	45	300-6FA	103	47	600-6FA
8	200	99	45	150-8FA	130	59	300-8FA	136	62	600-8FA
10	250	128	58	150-10FA	174	79	300-10FA	193	88	600-10FA
12	300	185	84	150-12FA	244	111	300-12FA	254	116	600-12FA
14	350	231	105	150-14FA	319	145	300-14FA	379	172	600-14FA
16	400	301	137	150-16FA	409	186	300-16FA	549	250	600-16FA
18	450	361	164	150-18FA	231	508	300-18FA	748	340	600-18FA
20	500	442	201	150-20FA	280	616	300-20FA	811	369	600-20FA

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.
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
14	350	12.75	323	42	19	HTC14	5.5	2.5	SHTPD14
16	400	14.68	373	61	28	HTC16	6	2.7	SHTPD16
18	450	15.06	383	73.5	33	HTC18	6	2.7	SHTPD18
20	500	17	432	84	38	HTC20	6.5	3	SHTPD20

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	3.5	2	LSC4	0.5	0.2	LSPD4
6	150	5.93	150.6	9	4	LSC6	2	0.9	LSPD6
8	200	7.87	200.03	16	7	LSC8	2	0.9	LSPD8
10	250	9.87	250.7	27	12	LSC10	2	0.9	LSPD10
12	300	11.81	299.9	40.5	18	LSC12	2.5	1	LSPD12
14	350	13.06	332	49	22	LSC14	5.5	2.5	LSPD14
16	400	15.06	383	64	29	LSC16	6	2.7	LSPD16
18	450	17	432	84	38	LSC18	6.5	3	LSPD18
20	500	19	483	98	45	LSC20	7.5	3.4	LSPD20