

130" Stroke – Ø12 - 42" 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 35hp drive
- Drive as close to cutter as possible
- 4 speed feed gearbox (optional)
- Fast traverse feed motor (optional)
- 6" boring bar as standard
- Cutter holders 12-42" included
- Interchangeable seal cartridge
- Industry standard connections

The Mirage MHT range is designed for ease of use in making 12 - 42" (305 - 1067mm) 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).

Access ladder and platform provided for operator use.

Supplied complete with hot tap machine, (air preparation equipment where required) and boring bar drive motor, lifting Brackets, (12 - 24") (26 - 42") 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	305mm	12"
Maximum Tapping Hole Diameter	1067mm	42"
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	3302mm	130"
Boring Bar Diameter	150mm	6"
R.P.M	Min: 5	Max: 40
Drive - Hydraulic @ 100 bar (1450 psi)	26.1 Kw	35 Hp
Fast Traverse feed - Hydraulic	1.64 Kw	2.2 Hp
Hydraulic Supply Required @ 1050 p.s.i (100 bar)	50 L/min	13 Gal/min

Feed Rates

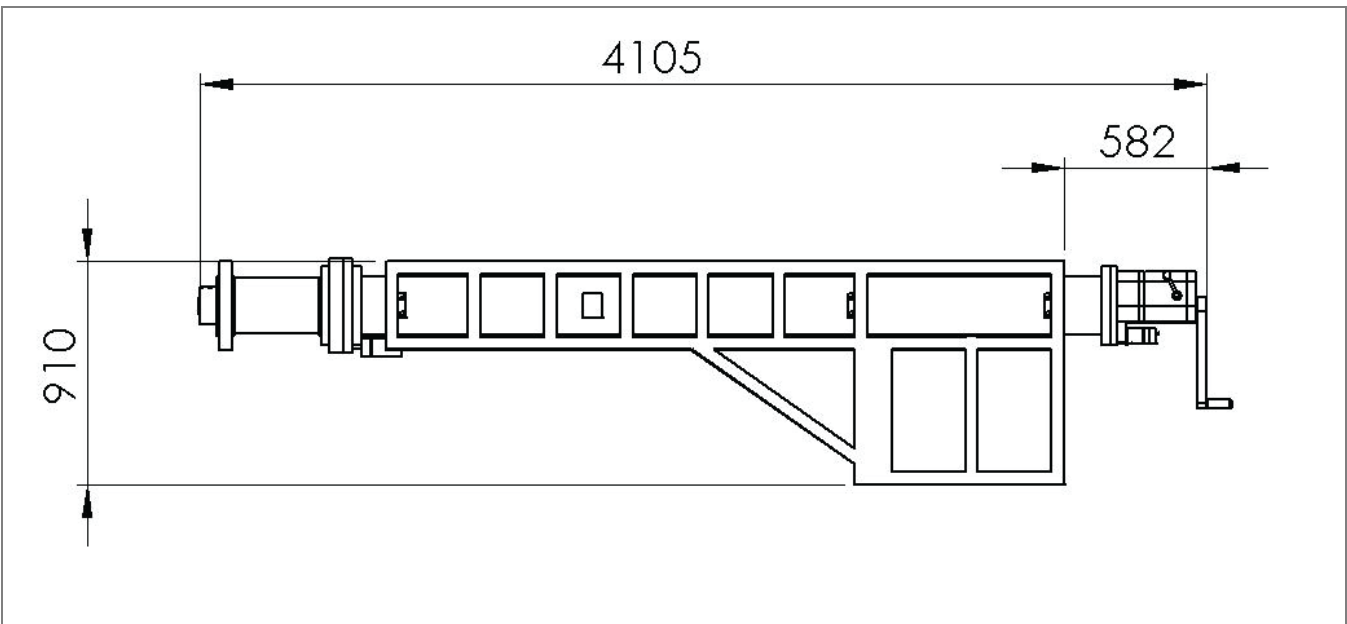
Feed Rate - Manual / Revolution	8.46mm	0.333"
Fast Traverse Feed Rate	0 - 1000mm / min	0 - 40" / min
Feed Rate Auto Feed Gearbox / Rev	0.025, 0.076, 0.10, 0.14mm	0.001", 0.003", 0.004", 0.0055"

Weights and Dimensions

Machine Weight	1835 Kgs	4037 Lbs
Shipping Weight	2035 Kgs	4477 Lbs

Shipping Dimensions

Length		Width		Height	
mm	inches	mm	inches	mm	inches
4300	170"	930	36"	700	28"



Optional Accessories

PP4 Hydraulic Power Unit

MHT12-42-5-3
Plug holders
12-36" / 305-915mm
14lbs / 6.4kg

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.
12	300	170	77	150-12FA	232	105	300-12FA	268	121.8	600-12FA
14	350	240	109	150-14FA	255	116	300-14FA	354	161	600-14FA
16	400	280	127	150-16FA	315	143	300-16FA	510	232	600-16FA
18	450	329	149	150-18FA	363	165	300-18FA	560	254	600-18FA
20	500	416	189	150-20FA	465	211	300-20FA	730	332	600-20FA
22	550	425	193	150-22FA	567	257	300-22FA	925	420	600-22FA
24	600	612	278	150-24FA	786	357	300-24FA	1125	510	600-24FA
26	650	633	287	150-26FA	920	417	300-26FA	1260	572	600-26FA
28	700	700	318	150-28FA	1066	484	300-28FA	1530	695	600-28FA
30	750	791	359	150-30FA	1375	624	300-30FA	1875	815	600-30FA
32	800	990	449	150-32FA	1580	720	300-32FA	2036	924	600-32FA
34	850	1250	568	150-34FA	2250	1022	300-34FA	2450	1113	600-34FA
36	900	1650	748	150-36FA	2650	1200	300-36FA	2615	1186	600-36FA
38	950	2044	929	150-38FA	2768	1258	300-38FA	4064	1856	600-38FA
40	1000	2242	1019	150-40FA	2875	1307	300-40FA	5042	2292	600-40FA
42	1050	2870	1305	150-42FA	3410	1550	300-42FA	5736	2067	600-42FA

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.
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
22	550	19	483	98	45	HTC22	7.5	3.4	SHTPD22
24	600	21	533	125	57	HTC24	8	3.6	SHTPD24
26	650	23	584	135	61	HTC26	8.5	3.8	SHTPD26
28	700	25	635	153	71	HTC28	10.5	4.7	SHTPD28
30	750	27	686	232	105	HTC30	11	5	SHTPD30
32	800	29	737	275	125	HTC32	15	6.8	SHTPD32
34	850	31	787	330	150	HTC34	15	6.8	SHTPD34
36	900	33	838	395	179	HTC36	18	8.1	SHTPD36
38	950	35	889	430	195	HTC38	18	8.1	SHTPD38
40	1000	36.87	937	450	204	HTC40	20	9	SHTPD40
42	1050	38.87	987	523	238	HTC42	20	9	SHTPD42

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.
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	3	LSPD18
20	500	19	483	98	45	LSC20	6.5	2.9	LSPD20
22	550	21	533	125	57	LSC22	7.5	3.4	LSOD22
24	600	23	584	135	61	LSC24	8	3.6	LSPD24
26	650	25	635	156	71	LSC26	8.5	3.8	LSPD26
28	700	27	686	232	105	LSC28	10.5	4.7	LSPD28
30	750	29	737	275	125	LSC30	11	5	LSPD30
32	800	31	787	330	150	LSC32	15	6.8	LSPD32
34	850	33	838	395	179	LSC34	15	6.8	LSPD34
36	900	35	889	430	195	LSC36	18	8.1	LSPD36
38	950	36.87	937	450	204	LSC38	18	8.1	LSPD38
40	1000	38.87	987	523	238	LSC40	20	9	LSPD40
42	1050	40.87	1038	606	276	LSC42	20	9	LSPD42