

80" Stroke – Ø8-24" capacity

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 8-24" included
- Interchangeable seal cartridge
- Industry standard connections

The Mirage MHT range is designed for ease of use in making 8 - 24" (203 - 610mm) 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 supplied for operator use.

Supplied complete with hot tap machine, (air preparation equipment where required) and boring bar drive motor, lifting Brackets, (8 - 12"), (12 - 24") cutter holders, connection hoses, valves and pressure gauge, toolkit, all required mounting studs and nuts and #600 RTJ connection spool, ladder / skid, CE certificate, packing list and manual - pressure certificate for working pressure - 1480 psi (100 bar).

Technical Details

| | | |
|--|----------|------------|
| Minimum Tapping Hole Diameter | 203mm | 8" |
| Maximum Tapping Hole Diameter | 610mm | 240" |
| 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 | 2032mm | 80" |
| Boring Bar Diameter | 150mm | 6" |
| 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

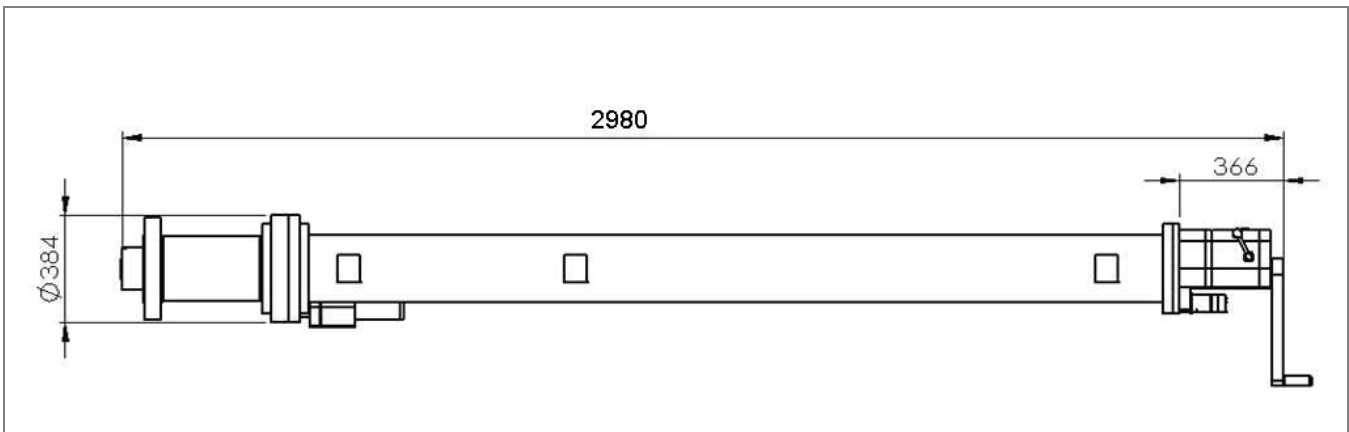
| | | |
|-----------------------------------|----------------------------|---------------------------------|
| Feed Rate - Manual / Revolution | 8.46mm | 0.333" |
| Fast Traverse Feed Rate | 0 - 1000mm / min | 0 - 40" / min |
| Feed Rate Auto Feed Gearbox / Rev | 0.025, 0.076, 0.10, 0.14mm | 0.001",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

Weights and Dimensions

| | | |
|-----------------|----------|----------|
| Machine Weight | 1110 Kgs | 2442 Lbs |
| Shipping Weight | 1250 Kgs | 2750 Lbs |

Shipping Dimensions

| Length | | Width | | Height | |
|--------|--------|-------|--------|--------|--------|
| mm | inches | mm | inches | mm | inches |
| 3000 | 118" | 930 | 36" | 700 | 28" |



Optional Accessories

PP4 Hydraulic Power Unit

MHT8-24-5-3
Plug holders
8-10" / 203-254mm
12lbs / 5.5kgs

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 | kg | Part no. | lbs | kg | Part no. | lbs | kg | Part no. |
| 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 | 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 |

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. |
| 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 |
| 22 | 550 | 19 | 483 | 98 | 45 | HTC22 | 7.5 | 3.4 | SHTPD22 |
| 24 | 600 | 21 | 533 | 125 | 57 | HTC24 | 8 | 3.6 | SHTPD24 |

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. |
| 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 | 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 |