

TUBE LASER CUTTING MACHINES

TWO CHUCKS SERIES

| Parameters | R1R (1.5KW/3KW) | R2 (1.5KW/3KW/6KW) | R3R (3KW/6KW/12KW/20KW) | TS2 (3KW/6KW) | TS SERIES (3KW/6KW) |
|--------------------------------|---|--|---|--|--|
| |  |  |  |  |  |
| IN (manual load) & OUT | IN: 1 - 6.5m (7.1m) OUT: 2.5m | IN: 1-6.5m (7.3m) OUT: 3m | IN: 1-6.5m (7.3m) OUT: 3m | IN: 1-6.5m (7.1m) OUT: 3m | IN: 1-6.5m (7.1m) & 8m OUT: 3m & 4.5m |
| Tail Length | ≥50mm | ≥85mm | | | ≥150mm - TS65/TS80 ≥220mm - TP65S/TP80S |
| Round Tube | Ø 8 - Ø 120mm | Ø 12 - Ø 240mm | Ø 20 - Ø 350mm | Ø 20 - Ø 240mm | Ø 12 - Ø 273mm |
| Square Tube | 8*8 - 120*120mm | 12*12 - 240*240mm | 20*20 - 350*350mm | 20*20 - 240*240mm | 12*12 - 200*200mm |
| Open Steel Profile | 2#(20*20mm) ≤Angle steel≤8#(80*80mm) 5#(50*37mm) ≤ C Steel≤8#(80*43mm) 5#(50*37mm)≤H Beam≤8#(80*50mm) | 2#(20*20mm) ≤Angle steel≤20#(200*200mm) 5#(50*37mm) ≤ C steel≤20# (200*75mm) H Beam ≤12# (120x120mm) | 5#(50*50mm)≤Angle steel≤25#(250*250mm) 5#(50*37mm)≤C steel≤32#(320x92mm) 5#(50*37mm)≤H Beam≤32#(320x134mm) 100*100mm≤HW Beam≤250x250mm | Cutting head F150: Angle steel≤20# (200x200mm), C steel≤20# (200x75mm), H Beams≤12#(120x120mm) Cutting Head F200: Angle steel≤20# (200x200mm) | Standard clamp: Angle steel≤8#(80x80mm), C steel ≤8#(80x43mm) Optional Clamp: Angle steel≤18#(180x180mm), C steel≤20#(180x70mm), H Beams≤18#(180x180) |
| Chuck rotation speed (r/min) | 150 | 120 | 80 | 100 | 120 |
| Non-load Speed (m/min) | 150 | 120 | 80 | 100 | 120 - TS65/TS80 140 - TP65S/TP80S |
| Position Precision (mm/m) | ±0.05mm/m | | | ±0.03mm/m | |
| Re-Position Precision (mm) | ±0.03mm | | | | |
| Max. Acceleration (g) | 1.5 | 1.2 | 0.8 | 1.0 | 1.2 |
| Max. Loading Capacity (Single) | 50kg (7.7kg/m) | 500kg (46kg/min) | 600kg (≤100kg/min) | 200kg (31kg/min) | 200kg (31kg/min) - TS65/TS80 200kg (25kg/min) - TP65S/TP80S |
| Total Power/ Current | 25.5KW/51.5A (1500W) 33KW/63A (3000W) | 31KW/62A (3000W) 46KW/92A (6000W) | 45.8KW/91.6A (3000W) 60.8KW/121.6A (6000W) | 31KW/62A (3000W) 38KW/76A (6000W) | 40KW/81A (3000W) 51KW/101A (6000W) |
| Chuck Type | Pneumatic Chuck | | | | Digital Chuck |
| Cutting Head | HSG | | | | |
| Bevel Cutting Head | Bevel-R1R | Bevel-R2 2.0 | - | - | HSG LA4 - Bevel Cut |
| CNC Control System | HSG-X | HSG-10000 | HSG-X | | HSG-X9000 HSG-X950 - TP65/80S |
| Nesting Software | HTN | TubeST Pro | TTN | TTN/HTN (standard) HSG Nest Tube Plus (optional) | TTN |
| Loader | Fully Automatic | Semi Automatic | | Fully Automatic Semi Automatic | |
| Unloader | Follow-up | | | | 3m/4.5m Follow-up |

TUBE LASER CUTTING MACHINES

THREE & FOUR CHUCKS SERIES

| Parameters | T2 Series (3kW/6kW) | T3 Series(3kW/6kW) | TX3R-120120 | TX12050 (6/12/20kW) | TL660-12 (6kW/12/20kW) | TL730-16 (6kW/12/20kW) |
|--------------------------------|---|---|---|---|---|--|
| Chucks | 3 | | 3+1 | | 4 | |
| In & Out | In: 1 - 7m, 9m Out: 1 - 6m, 9m | In: 1- 9m,12m Out: 1 - 6m, 9m | In: 1 - 12m Out: 1-9m, 12m | In: 2.5 - 12m Out: 2.5 - 6m, 9m, 12m | In: 3-12m Out: 3-12m | In: 3-16m Out: 3-16m |
| Tail Length | 0 mm (finish cut length ≥1400mm) | | 0 mm (finish cut length ≥1300mm) | 0 mm (finish cut length ≥2500mm) | 0 mm (finish cut length ≥3000mm) | 0 mm (finish cut length ≥3000mm) |
| Process Size | Ø20 - Ø240mm □20 - □240mm L: 20 - 200mm C: 20 - 200mm H: 20 - 175mm | Ø20 - Ø350mm □20 - □350mm L: 20 - 300mm C: 20 - 300mm H: 20 - 250mm | Ø20 - Ø360mm □20*20 - □360*360mm 5#(50*50mm)≤L≤25#(250*250mm) 5#(50*37mm)≤C≤36#(360x100mm) 5#(50*37mm)≤H≤36#(360x140mm) 100*100mm≤HW≤300x300mm | Ø50 - Ø500mm □50 - □350mm L: 50 - 250mm C: 50 - 400mm H: 50 - 350mm | Ø80 - Ø660mm □80 - □450mm L: 80 - 400mm C: 80 - 400mm H: 80 - 400mm | Ø120 - Ø715mm □120 - □500mm L: 120 - 500mm C: 120 - 500mm H: 120 - 500mm |
| Chuck Rotation Speed (r/min) | 100 | 80 | 60 | 40 | 30 | |
| Chuck Non-load Speed (m/min) | 100 | 80 | 80 | 60 | 50 | |
| Position Precision (mm/m) | ±0.03 | | ±0.05 | | ±0.1 | |
| Re-Position Precision (mm) | ±0.03 | | ±0.05 | | ±0.1 | |
| Max. Acceleration (g) | 1.0 | 0.8 | | 0.3 | 0.2 | |
| Max. Loading Capacity (Single) | 7m: 300kg (43kg/m) 9m: 300kg (33kg/m) | 9m: 600kg (67kg/m) 12m: 600kg (50kg/m) | 1200KG (100kg/m) | 1500KG (125kg/m) | 3000KG (250kg/m) | 4000kg (250kg/m) |
| Total Power/ Current | 51KW/102A(3000W) 66KW/132A(6000W) | 53KW/105A(3000W) 63KW/126A(6000W) | 60KW/119A(6000W) 85KW/169A(12000W) 112KW/224A(20000W) | 70KW/140A(6000W) 95KW/190A(12000W) 122KW/245A(20000W) | 89KW/179A(6000W) 114KW/229A(12000W) 142KW/283A(20000W) | 129KW/258A(6000W) 159KW/318A(12000W) 185KW/370A(20000W) |
| Chuck Type | Pneumatic Chuck | | | | | |
| Cutting Head | HSG | | | | | |
| Bevel Cutting Head | Bevel Head Package | | | | | |
| CNC Control System | HSG-X10000 | | | HSG-X9800 | | HSG-X10000 |
| Nesting Software | TubesT Pro | | | TTN | | TubesT Pro |
| Loader | Fully Automatic Multi Pipe Semi Automatic Multi Pipe | Semi Automatic Multi Pipe | | | Semi Automatic Single Pipe | Semi Automatic Multi Pipe |
| Unloader | Follow-up Unloading Basket | | Multi Pipe | | Semi Automatic Single Pipe | Multi Pipe |