HF1 MD MACHINES

Medium Duty Ultra Adjustable Machine

FEATURE	FUNCTION	BENEFIT	PROOF
HF1 MD Product, Service, and Operation Manual	Information that you need to operate machines	Safe effective and efficient operation	Manuals now form a successful part of on site training as well as leave behind on site material for later reference
In house commissioning and training	Condensed learning curve	Very short learning curve	Production targets being hit by end of first week by most recent purchasers
100,000 helices warranty on machine if used in accordance with manufactures guidelines and operating procedures	Warranty of quality of machines performance	Maximum efficiency	Product currently pass the geometric criteria of ICC-ES AC358
Produces true helix shape with <6.35mm tolerance as defined under ICC-AC358	Whole helix travels path of lead edge minimised torque resistance Helix segments butt together and are flush across helix plane to <1mm	Maximum efficiency Improved installation capacity for screw piles and anchors Improved conveyancy of solids	Product currently pass the geometric criteria of ICC-ES AC358 & other world best practice specification for screw pile design Leading manufacturers have already adopted HFMML machines
Accurate sizing and consistency of pitch angle	Uniformity of fit & angles Easy to position and handle	Aids robotic welding No rework or infill welding Maximum efficiency in finished product Minimised torque resistance Flush at match up for continuous flights Speed of production set up	Already adopted by world leading robotic welding production
Internal edge face symmetrical to shaft precision fit and uniformity of required gap between helix and shaft	Uniform weld specification, positions, and weld size and quality, through 360 degrees	Enhanced suitability for robotic welding Speed of production Avoids increased consumable costs Design integrity for welds in end product	Already adopted by world leading robotic welding production
90 Degree Machine Orientation Adjustment Option	Quick and easy swap from vertical (manual) to horizontal (over head crane) orientation best suiting sizes and speed of manufacture	More efficient and versatile machine given vast variability in size and type of possible helices	New development determined from recent research Enable one machine to be more effective and efficient being able to do small helixes very quickly using manual loading while being able to facilitate crane access for larger helices
Internal edge face symmetrical to shaft precision fit and uniformity of required gap between helix and shaft	Uniform weld specification, positions, and weld size and quality, through 360 degrees	Enhanced suitability for robotic welding Speed of production Avoids increased consumable costs Design integrity for welds in end product	Already adopted by world leading robotic welding production
Latest safety features	Hands free foot free operation	Two hands free for positioning and speed	No repetitive strain injuries since adoption in 1990
Oil pressure and flow	Speed of operation	Efficient manufacture	Up to 1 helix every 1 minute depending on size [*1]
Built in ware parts	Controlled ware with replacement option	Economic long life with efficient Replacement parts protecting machine	Latest machine has produced 50,000 helices and current ware parts are not yet due to be replaced [*2]
Comes with Helixflight V2 blank design software	Perfect cut of blank every time Variety of helix types Screw pile helix plate optimisation option	No wasting time on trial cuts No rework uniform product Efficient cutting	Helixflight V2 is now in use with existing machines owners

*1 Based on small helix manufacture (350mm OD 12mm Plate)

*2 Machine manufacturing an assorted range of sizes between 450mm & 1200mm 10mm to 32mm plate during this period