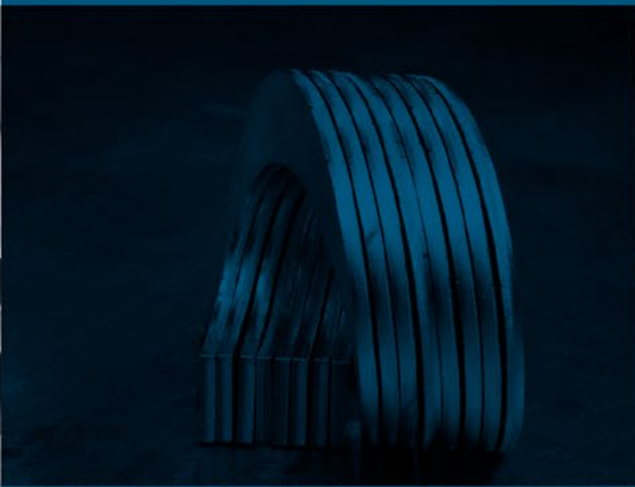


# Innovative Flight Forming Machines



# TRUE FORM HELICES EVERY TIME

BLANK CUT DESIGN MANAGER +  
FLIGHT FORMING MACHINES

With Helix Flight software and Ultra Adjustable forming machines you can form helices of different specs faster, easier and in a cost effective way with no waste. A single machine range can cover from 200(8") to 2400 mm(94") diameter helices, up to 1000 mm(39") pitch can be formed with material thickness ranging from 1.5mm (1/16") to 38mm(1 1/2") giving ideal coverage for a professional manufacturing company targeting across the range market segments and applications.

The quality of helices formed by our machine is superlative; accurate fit for helix to shaft, helix internal edge parallel to the shaft and accurate true helix shape every time giving uniformity and integrity for weld procedure, corner stone to high quality products.

## HIGH SPEED PRODUCTION

- » 2 DAYS OF OPERATORS TRAINING REQUIRED
- » HIGHEST SAFETY - ELIMINATING MANY OF THE CAUSES OF INJURY (FOLLOWING A SURVEY IN DUSTRY INCIDENTS OVER LAST 30 YEARS)
- » SPEED OF PRODUCTION (LESS THAN 1 MINUTE FOR SIMPLE ITEMS)
- » QUALITY OF TRUE FORM HELICES AND ACCURATE FIT TO THE SHAFT
- » EXPANDED RANGE OF ADJUSTABILITY
- » NO WASTE



INTRODUCING OUR **INNOVATIVE TECHNOLOGY** THAT CHANGES THE 'CRAFTSMAN'S BLACK ART' OF FORMING SECTIONAL HELICES INTO A HIGH QUALITY, HIGH PRODUCTION FACTORY LINE OPERATION.

## BLANK CUT DESIGN MANAGER

Blank Cut Design manager is a specifically designed software that allows for the design of perfect helix flight blanks resulting in production of perfect helix flights every time. Once designed, the helix flight blank cut design can be delivered to your cutting department, or your blank cut supplier, via DXF file. It can also be saved for later use. BCDM software is capable of designing round and square centres, variable diameter, pitch, right and left handed, tapered OD and bore (ID), Notches, Legs (veins) etc. Read full specifications.



# HF1 ULTRA ADJUSTABLE FLIGHT FORMING MACHINES

- Super fine continuous adjustment of diameter (previously incremental)
- Super fine continuous adjustment of pitch (previously incremental)
- Additional safety features
- Greater control of forming sequence by programmable logic controller(PLC)
- High strength wear resistant forming plates
- Reduced cost of forming plates
- Reduce cost of maintaining wear parts.
- Greater overall chassis strength & durability
- Higher capacity hydraulic system
- New self cleaning parts for added durability
- Quick release interchange of forming plates

Helix Flight Forming Machine is a specifically designed machine to form sectional helices from flat plate. The machine works on an advanced forming technology that delivers true pitch helices every time that requires no rework.

HF1 Small Diameter Ultra Adjustable Flight Forming Machine				
Small Diameter Range	Helix OD mm	Helix ID mm	Helix Pitch mm	Plate Thickness mm
Minimum	50	10	20	0.5
Maximum	350	275	350	12
HF1 Medium Diameter Ultra Adjustable Flight Forming Machine				
Medium Diameter Range	Helix OD mm	Helix ID mm	Helix Pitch mm	Plate Thickness mm
Minimum	200	75	50	0.5
Maximum	1350	1250	800	32
HF1 Intermediate Diameter Ultra Adjustable Flight Forming Machine				
Intermediate Diameter Range	Helix OD mm	Helix ID mm	Helix Pitch mm	Plate Thickness mm
Minimum	600	150	200	0.5
Maximum	2400	2300	1000	32
HF1 Large Diameter Ultra Adjustable Flight Forming Machine				
Large Diameter Range	Helix OD mm	Helix ID mm	Helix Pitch mm	Plate Thickness mm
Minimum	450	75	50	0.5
Maximum	4000	2000	1500	40

SPECIAL MACHINE TO FORM ABRASION RESISTANT PLATES SUCH AS HARDOX 450 OR BISALLOY UP TO 32MM HARD PLATE





# INNOVATIVE TECHNOLOGY

## SEMI AUTOMATIC MACHINE WITH ONLINE DIAGNOSTIC CAPABILITIES

### NEW ZEALAND BASED TECHNOLOGY

We are a New Zealand based technology supported by NZ Govt R&D funding agency Callaghan Innovation, specialising in producing machines for manufacture of helix flights used in production of augers, screw conveyors, agitators, marine anchors, screw piles, screw presses, combine harvesters and many other screw flighted products. Our revolutionary machines and leading software, offer a significant competitive advantage in the manufacture of sectional helices.

Our strategic alliances with market leaders in Europe, North & South America, North & South East Asia and Australasia, give in depth knowledge of leading developments beyond our forming technology. In many instances we can assist with parts of business strategy and enhance long-term market development and profitability.

### CONTACT US

AUCKLAND

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CallaghanInnovation  
DRIVING TECHNOLOGY SUCCESS

HERA  
Innovation in Metals



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