

**ultimat**

**umw series**

**WIRE FORMING & WELDING MACHINES**

**ultimat**

**um series**



Model shown umw-65  
with automatic butt welding

A range of 2 axis PC Controlled Wire Forming Machines, that are available with or without welding, designed for the manufacture of prototypes to low/high volume production runs.

A versatile design that requires no special tooling to achieve high quality accurate parts.

#### **FEATURES**

- Fast cycle times for frames direct from coil
- High Resolution Touch Screen – Industrial PC, mounted on an adjustable arm for easy access
- Easy to use Windows based software enables parts to be programmed whilst running production
- High Quality Burr-Free welds, obtained by pulse welding, reduce secondary operations
- Suited for prototypes to low or high volume production runs
- Repeatability  $\pm 0.05^\circ$  on bends and  $\pm 0.1$ mm of feed length
- Software allows for “generated bending” of large radii
- Fast changeover from one wire diameter to another
- Bend angles entered by position or angle required
- Parts programmed in ‘mm’ or ‘inches’
- Individual parts can be produced consecutively or as part of a kit
- Real Time Production Speeds—Parts/Min. Parts/Hour
- Tooling available for specific bend radii
- Perfect Square Clean-cut wire ends
- Sealed Fan Cooled Electrical Cabinet, prevents ingress of oil and dust
- Designed and manufactured in the U.K
- 2 year parts limited warranty

#### **OPTIONS**

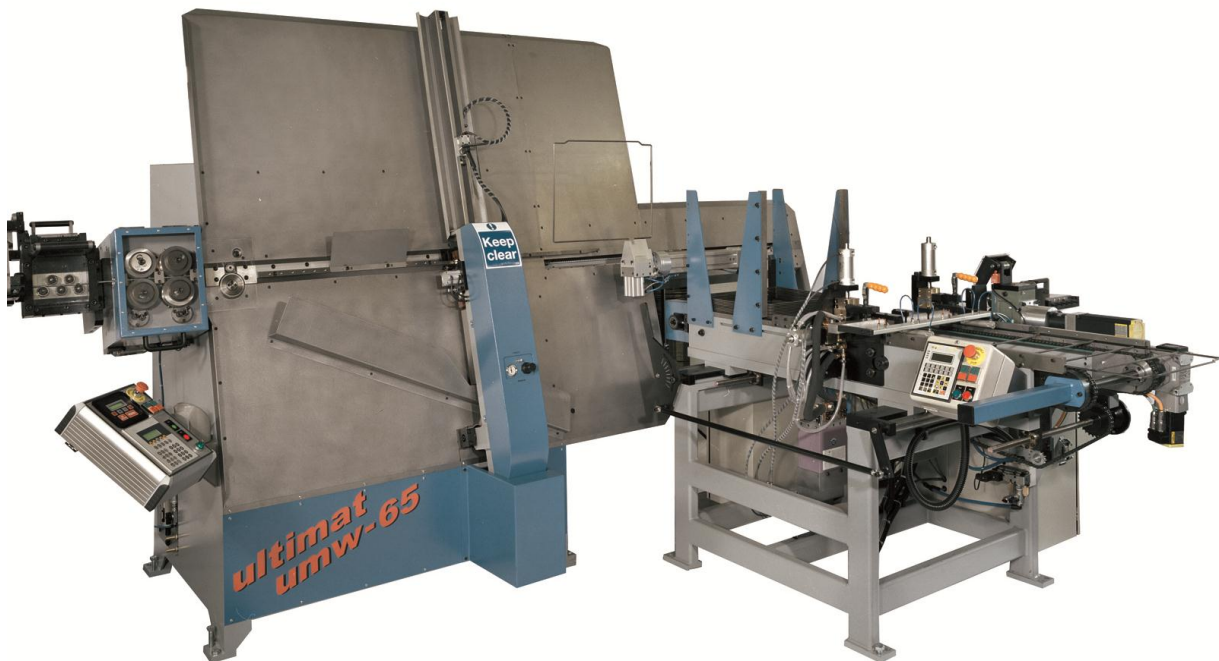
- Tooling for strip or profiled wire
- Thread Rolling / Thread Cutting
- Automatic Unloading of finished parts
- Chamfering
- Drilling stations
- Mini Bend Head for tight bends & loops

# ***ultimat** Type um*

## ***Wire Forming & Welding Machines***

Machine Type	um-40 umw-40*	um-50 umw-50*	um-65 umw-65*	um-80 umw-80*	um-100 umw-100*	um-130 umw-130*
Wire ø	2.00 - 4.00mm .080" - 0.162"	2.00 - 5.00mm .080" - 0.197"	2.00 - 6.50mm .080" - 0.256"	3.00 - 8.0mm 0.120" - 0.315"	3.00 - 10.00mm 0.120" - 0.394"	5.00 - 13.00mm 0.197" - 0.512"
Max. Frame size**	1000 x 1000mm 40" x 40"	1000 x 1000mm 40" x 40"	1000 x 1000mm 40" x 40"	1200 x 1200mm 48" x 48"	1200 x 1200mm 48" x 48"	1250 x 1250mm 50" x 50"
Max. Ring Ø**	1000 mm 40"	1000 mm 40"	1000 mm 40"	1200 mm 48"	1200 mm 48"	1250 mm 50"
Feed Length	0 - ∞	0 - ∞	0 - ∞	0 - ∞	0 - ∞	0 - ∞
Feed Speed	130 m/min. 426 ft/min.	110 m/min. 360 ft/min.	110 m/min. 360 ft/min.	85 m/min. 278 ft/min.	85 m/min. 278 ft/min.	60 m/min. 196 ft/min.
Feed Accuracy	± 0.1mm ± 0.0040"	± 0.1mm ± 0.0040"	± 0.1mm ± 0.0040"	± 0.1mm ± 0.0040"	± 0.1mm ± 0.0040"	± 0.1mm ± 0.0040"
Max. Bend Angle	± 180°	± 180°	± 180°	± 180°	± 180°	± 180°
Max. Bend Speed	2000°/sec	1500°/sec	1500°/sec	1000°/sec	1000°/sec	800°/sec
Set Up	5 - 15 min (Approximately)					
Control	Industrial PC, 12.1" SVGA colour TFT display with touch screen, Microsoft Windows XP Pro Intel Atom Processor 1100 MHz, 1024 RAM, 8GB Compact Flash , 3 x USB 2.0					
Drives	AC Brushless Servo					
Power Supply	400V 3 phase 50/60 Hz (Alternate supplies can be accommodated)					

*\*umw models incorporate automatic butt welding  
\*\* Standard dimensions shown, larger variations available*



*umw-65-fus with automatic butt welding and frame unloading operating  
in conjunction with ucw-65 cross wire welding machine.*