

### KEY FEATURES

- Precision preloaded Linear rotary drive
- Adjustable fast set clamping jaws
- Hydraulic anti-backlash drive
- Radial contour milling feed



### DESCRIPTION

A unique concept for the machining of flanges which provides fast material removal with high accuracy. Specifically developed for the machining of large flanges.

### APPLICATIONS

Applications include; machining large flanges, crane bearing faces, repairing drag lines, machining ship thruster flanges, wind turbine blade root end milling and wind tower flange machining

### TECHNICAL SPECIFICATIONS

	OM4500	OM6000	OM8000
<b>Maximum Machining Diameter</b>	4572mm (180")	6000mm (236")	8000mm (315")
<b>Min Clamping and Machining Diameter</b>	2438mm (96")	2600mm (102")	3500mm (138")
<b>Flatness Tolerance</b>	0.05mm/1m Dia 0.002 / 40" Dia	0.05mm/1m Dia 0.002 / 40" Dia	0.05mm/1m Dia 0.002 / 40" Dia
<b>Rotational Drive Power</b>	3.7kw (5hp)	7.4kw (10hp)	7.4kw (10hp)
<b>Milling Spindle Power</b>	3.7kw (5hp)	3.7kw (5hp)	3.7kw (5hp)
<b>Surface Cutting Speed (at max diameter)</b>	0-1m/min 0-3.5ft/min	0-1m/min 0-3.5ft/min	0-1m/min 0-3.5ft/min
<b>Standard Cutting Speed (125mm face)</b>	400mm/min	400mm/min	400mm/min
<b>Min/Max Rotation</b>	0-3	0-3	0-3
<b>Spindle RPM Min-Max</b>	25-265	25-265	25-265
<b>Spindle Down Feed</b>	80mm (3.125")	80mm (3.125")	80mm (3.125")
<b>Hydraulic Supply Required</b>	60L/min (16 gal/min)	60L/min (16 gal/min)	60L/min (16 gal/min)

## INCLUDED AS STANDARD WITH MACHINE

Each machine is supplied complete with the following items;

- ✓ Drive ring, drive motors and reduction gearbox
- ✓ Facing feed /direction gearbox and pick up gearbox
- ✓ Milling facing arm and 90mm column spindle internal chuck base assembly
- ✓ Jaw blocks and 8 off clamping jaws 4 of which are adjustable
- ✓ Toolkit
- ✓ Hose kit
- ✓ Centre distributor
- ✓ All required mounting blocks and extensions
- ✓ Storage / shipping crate
- ✓ CE certificate
- ✓ Packing list and manual

## SET UP AND OPERATION

The operator must be:

- Trained and conversant with the product
- Able to identify the correct and incorrect use of static or portable machines.
- Comply with all local and internationally recognised regulations regarding safe use of powered machines.

## SHIPPING WEIGHTS

Machine name	kg	Lbs
<b>OM4500</b>	6960 kg	6547 lbs
<b>OM6000</b>	12575 kg	27665 lbs
<b>OM8000</b>	17022 kg	19690 lbs

## SHIPPING DIMENSIONS

	Length	Width	Height
<b>OM4500</b> (1/2 machine)	271cm (107")	231cm (91")	97cm (38")
<b>OM4500</b> (2/2 arm)	375cm (147")	83cm (33")	79cm (31")
<b>OM6000</b> (1/5 machine)	247cm (97")	232cm (91")	68cm (26")
<b>OM6000</b> (2/5 base)	247cm (97")	232cm (91")	60cm (23")
<b>OM6000</b> (3/5 legs )	193cm (76")	184cm (72")	68cm (26")
<b>OM6000</b> (4/5 legs)	193cm (76")	184cm (72")	68cm (26")
<b>OM6000</b> (5/5 arm)	500cm (197")	103cm (41")	62cm (24")
<b>OM8000</b> (1/5 machine)	285cm (111")	223cm (88")	248cm (98")
<b>OM8000</b> (2/5 arm)	596cm (235")	105cm (42")	52cm (21")
<b>OM8000</b> (3/5 legs )	254cm (100")	154cm (61")	60cm (23")
<b>OM8000</b> (4/5 legs)	254cm (100")	154cm (61")	60cm (23")
<b>OM8000</b> (5/5 c'balance)	289cm (114")	94cm (37")	51cm (20")

Weights and dimensions are approximate and provided for guidance only.

**IMPORTANT**  
PLEASE REVIEW OPTIONS, ACCESSORIES  
AND SPARE PARTS ON NEXT PAGES



## ORBITAL MILLING OPTIONS & ACCESSORIES

### WP3500-6 HYDRAULIC MOUNTING BASE

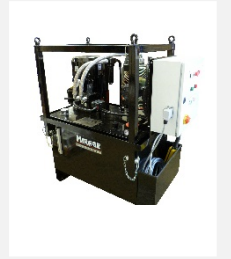
Available in various of sizes and for different materials. Please enquire for details.



### PP3-15 HP HYDRAULIC POWER PACK

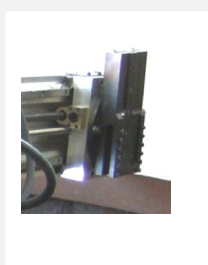
**Part number: HDCP-6**

50 Lpm / 20 Lpm @ 100 bar-  
380/440v 3 phase -pendant control



### WP6000-9

Single point turning tool post, carriage and tools



### WP6000-8

Extended milling spindle - 250mm stroke

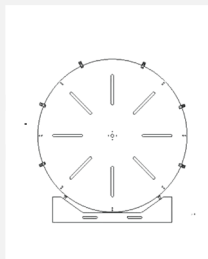
### NEG0100-9

Swivel head milling carriage and spindle



### WP6000-15

Tube sheet mounting kit



### MM1080ie-20

Tube sheet back facing kit. To machine heat exchanger flange back faces in one setup



### TOOLING

Mirage can supply all inserted face mills & inserts and special form tools on request

