SJP & KCM 3 AXIS PORTABLE MILLING MACHINES & GANTRY MILLS
SJP Portable Milling Machines

The SJP Portable Milling Machines are designed for rugged In-Situ & On-Site milling, drilling or boring applications & are designed with the operator in mind. Incorporating precision Linear slides & bearings ensures versatility, accuracy & speed. The SJP 3 AXIS Portable Milling Machines are capable of travelling in all AXIS (XYZ) providing an ideal option for machining rectangular areas accurately.

These Portable Milling Machines can be bolted or clamped directly onto the job using standard or custom built mounting fixtures & can be easily mounted in any position.

X AXIS travel can be controlled manually or with smooth, consistent power feed from an infinitely variable & reversible pneumatic or hydraulic drive system.

Our custom designed gearbox & clutch assembly allows the operator to easily engage or disengage the drive as required improving setup time while still providing accurate adjustment. In addition to this, changing feed rate or from pneumatic to hydraulic feed is quick & easy operation.

VERSATILE COMPACT ACCURATE

Versatility is the key to On-Site & In-Situ machining applications & the SJP Milling Machine is designed with this in mind. Utilising industry standard 30T & 40T drive allows the operator the option to use a selection of Facing Cutters, End Mills, Fly Cutters or Boring & Facing Heads

Another important feature of the SJP Portable Milling Machine is the ability to reposition the XY AXIS assembly in relation to the X Axis

This feature provides the operator with the ability to machine a surface other than the surface below the milling machine including directly above.
KCM Compact Portable Milling Machine

Utilising the same design concepts as the SJP Series the KCM Compact Mill is designed to get into small tight spaces. At just 350mm Wide, 350mm Deep, 500mm High (less with RA Drive Motor) the KCM Compact Milling Machine is compact & versatile.

Equipped with a 30T Taper & combined with the ability to rotate both the Y & Z Axis 360 degrees makes the KCM Compact Mill one of the most versatile small milling machines on the market. The precision ground dovetails with adjustable gibbs allow for a ridged setup ensuring smooth, accurate travel in all directions.

There are 3 drive options available for the KCM Compact Milling Machine,
- Standard Hydraulic Drive,
- Compact Hydraulic Drive
- Right Angle Pneumatic Drive

This versatility allows the operator to select the most efficient cutting speed for applications requiring small slot mills to 50mm Facing Cutters.

Custom 3 Axis Portable Gantry Mill

The Component based design of the SJP Portable Milling System can easily be converted into a Gantry Milling System requiring minimal additional components.
GENERAL SPECIFICATIONS

STANDARD 3 AXIS PORTABLE MILLS

<table>
<thead>
<tr>
<th>SJP MILL</th>
<th>O/A LENGTH</th>
<th>X AXIS</th>
<th>Y AXIS</th>
<th>Z AXIS</th>
<th>STD SHANK</th>
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<td>KCM-0150707</td>
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<td>2000mm</td>
<td>400mm</td>
<td>200mm</td>
<td>40T</td>
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SJP Portable Milling Machines are available with a number of drive & Feed options.

- **Cutter Drive Options**: Pneumatic or Hydraulic
- **Cutter Drive Speed**: 25 – 700rpm depending on pump & motor options

- **X Axis Power Feed Options**: Pneumatic or Hydraulic
- **X Axis Power Feed Speeds**:
  - 10:1 Gearbox 150mm/min to 750mm/min Rapid Traverse
  - 28:1 Gearbox 55mm/min to 270mm/min Rapid Traverse
  - 49:1 Gearbox 30mm/min to 155mm/min Rapid Traverse

HYDRAULIC POWER PACK

**Hydraulic power unit requirements**
The SJP Portable Milling Machine is designed to run on variable flow medium pressure hydraulic system. Speed and performance will depend on the system parameters. It is recommended the Feed System be supplied with 10LpmPressures between 70 bar and 155 bar and flow rates between 30 l/m and 60 l/m are the recommended minimum and maximum values.

**Hydraulic Drive & Pneumatic Feed**
Milling Machines with hydraulic cutter & pneumatic feed will require a single output pump capable of supplying 0-60lpm for the drive circuit. The pneumatic feed requires up to 20CFM @ 95PSI

**Hydraulic Drive & Hydraulic Feed**
Milling Machines with hydraulic cutter & hydraulic feed will require a dual output pump capable of supplying 0-10lpm for the feed circuit & 0-60lpm for the drive circuit. Alternatively, a portable control dual output control valve can be fitted to suitable hydraulic power unit.

WINEMA AGENCIES

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