

Product Brochure For M650

## Opti-Mill Drill - Geared & Tilting Head - BF-20LV

Table Travel: (X) - 480mm (Y) - 175mm (Z) - 280mm  
 Electronic Variable Speeds & Dovetail Column

**On Sale**

<b>Ex GST</b>	<b>Inc GST</b>
<b>\$1,890.00</b>	<b>\$2,079.00</b>
<b>\$1,750.00</b>	<b>\$1,925.00</b>



OPTIMUM



ORDER CODE:	M650
MODEL:	BF-20LV
Digital Readout:	Optional
Type:	Vertical
Table Size (mm):	700 x 180
Column Type:	Dovetail
Spindle Taper - Vertical:	3MT
Spindle Taper - Horizontal:	~
Longitudinal Travel (X-Axis) (mm):	480
Cross Travel (Y-Axis) (mm):	175
Vertical Travel (Z-Axis) (mm):	280
Type of Slides:	Dovetail
Ram Travel (mm):	~
Spindle to Table (mm):	350
Spindle to Base:	~
Spindle Travel / Diameter (mm):	50 / 60
Throat Depth (max.) (mm):	185
Tilting Head (Left ~ Right):	±90°
Tilting Head (Forward ~ Back):	Fixed
Drilling Capacity (mm):	16
End Milling Capacity (mm):	20
Face Milling Capacity (mm):	63
Power Feed - Quill (mm/rev):	~
Power Feed - Longitudinal (X-Axis) (mm/min):	~
Power Feed - Cross (Y-Axis) (mm/min):	~
Power Feed - Vertical (Z-Axis) (mm/min):	~
Table T-Slot Size (inch / mm):	12
Work Table Load Capacity (kg):	40
Spindle Speeds Vertical (No./ rpm):	Variable (90 - 3000)
Spindle Speeds Horizontal (No./ rpm):	~
Spindle Speeds - Universal Head:	~
Motor Power - Vertical Spindle (kW / hp):	0.85 / 1.13
Motor Power - Horizontal Spindle (kW / hp):	~
Motor Power - Universal Head:	~
Voltage / Amperage (V / amp):	240 / 10
Nett Weight (kg):	162

### Description

Excellent quality mill drill machine designed for the model engineer

### Features

- Electronic infinitely variable speed
- 3MT spindle taper
- Dovetail vertical Z-Axis
- Digital readout speed display
- Work light mounted underneath mill head
- Digital depth display with zero reset for quill
- Tilting head to ± 90° from vertical

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- 2 speed gearbox (high / low) drive
- Forward and reverse spindle switch
- Scale collars for all Axis are adjustable
- Adjustable dovetail slideways on all 3 axis
- 700 x 180mm cast iron table with T-slots
- Adjustable table and drill length stops
- Rear slideway covers and slide clamps on all axis
- Metric dial graduations on X & Y-Axis

### Includes

- 3MT x JT6 drill chuck arbor
- Safety cutter guard
- Work light
- Bracket kit for optional digital readout
- 1/2" x 12tpi whitworth drawbar

### Specific Features



Low View



Left view



Head tilt



Safety Cutter Guard



Digital Read Out For Quill Depth



Control Panel With Variable Speed Dro Display



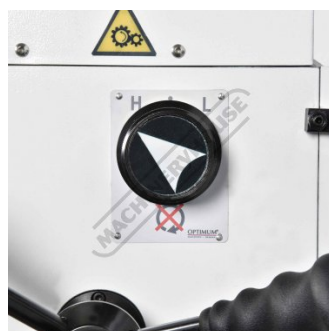
Quill Feed Adjustment



Milling Table



Quill Handle



High Low Geared Head Dial



Inbuilt Work Light



3MT Spindle Taper

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Toolbox



Shown on Optional Stand M651

**Recommended Accessories**

**M651**  
Mill Drill Stand



**D695**  
3-Axis Optimum Digital Readout Counter - 1µm



**D694**  
1500mm Optimum Magnetic Digital Readout Scale



**T773**  
Industrial Mobile Tooling Cabinet Workstation



**C922B**  
Collet & Chuck Set - 8 Piece



**C926**  
Collet & Chuck Set - 20 Piece



**C0955**  
Clamp Kit 58 piece - Workshop Series



**V104**  
Vertex K-Type Milling Vice



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**M3301**  
 Metric HSS Slot Drill & End Mill  
 Set - 10 Piece



**M3321**  
 Imperial HSS Slot Drill & End  
 Mill Set - 10 Piece



**M3281**  
 14mm HSS End Mill Long  
 Series



**M182**  
 Precision Boring Head Kit



**M192**  
 Boring Head Shank



**M180**  
 Boring Bar Set - 9 piece



**M250**  
 Parallel Set - 8 Piece



**M530**  
 Universal Milling Kit - 4 Piece



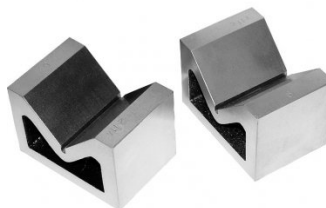
**M528**  
 Face Mill 90° - Positive Rake



**L066**  
 KYOCERA Carbide Inserts -  
 Milling



**V004**  
 Cast Iron Vee Block



**R001**  
 Rotary Table



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R0014  
Tilting Rotary Table



P235  
Coolant Pump & Tank



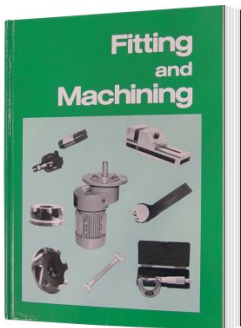
S090A  
Soluble Metal Cutting Fluid - 1  
Litre



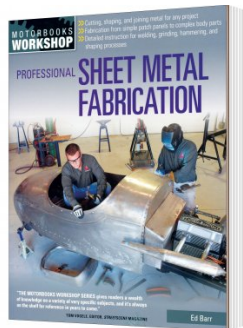
S090  
Soluble Metal Cutting Fluid - 5  
Litre



L341  
Fitting and Machining Technical  
Book



L3455  
Professional Sheet Metal  
Fabrication Book



M9991  
Magnetic Floor Sweeper



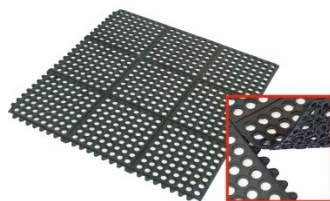
L300  
Magnetic Swarf Remover



M800  
Rubber Mat - Anti-Fatigue



M805  
Rubber Mat - Anti-Fatigue



O000  
SpillFix Universal Organic  
Absorbent



O043  
Rust & Corrosion Preventive



Product Brochure For M650

O042

General Purpose Lubricant & Corrosion Inhibitor



O040

Rust & Corrosion Preventive



O044

Rust & Corrosion Preventive

