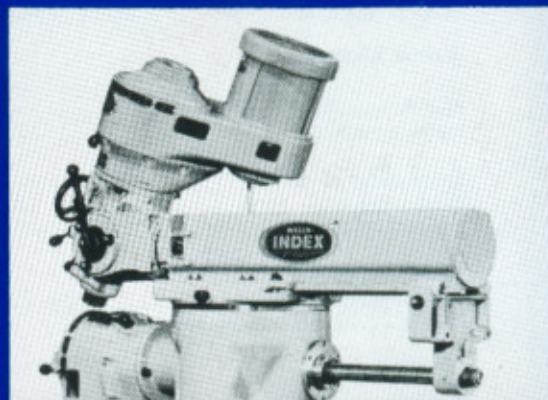
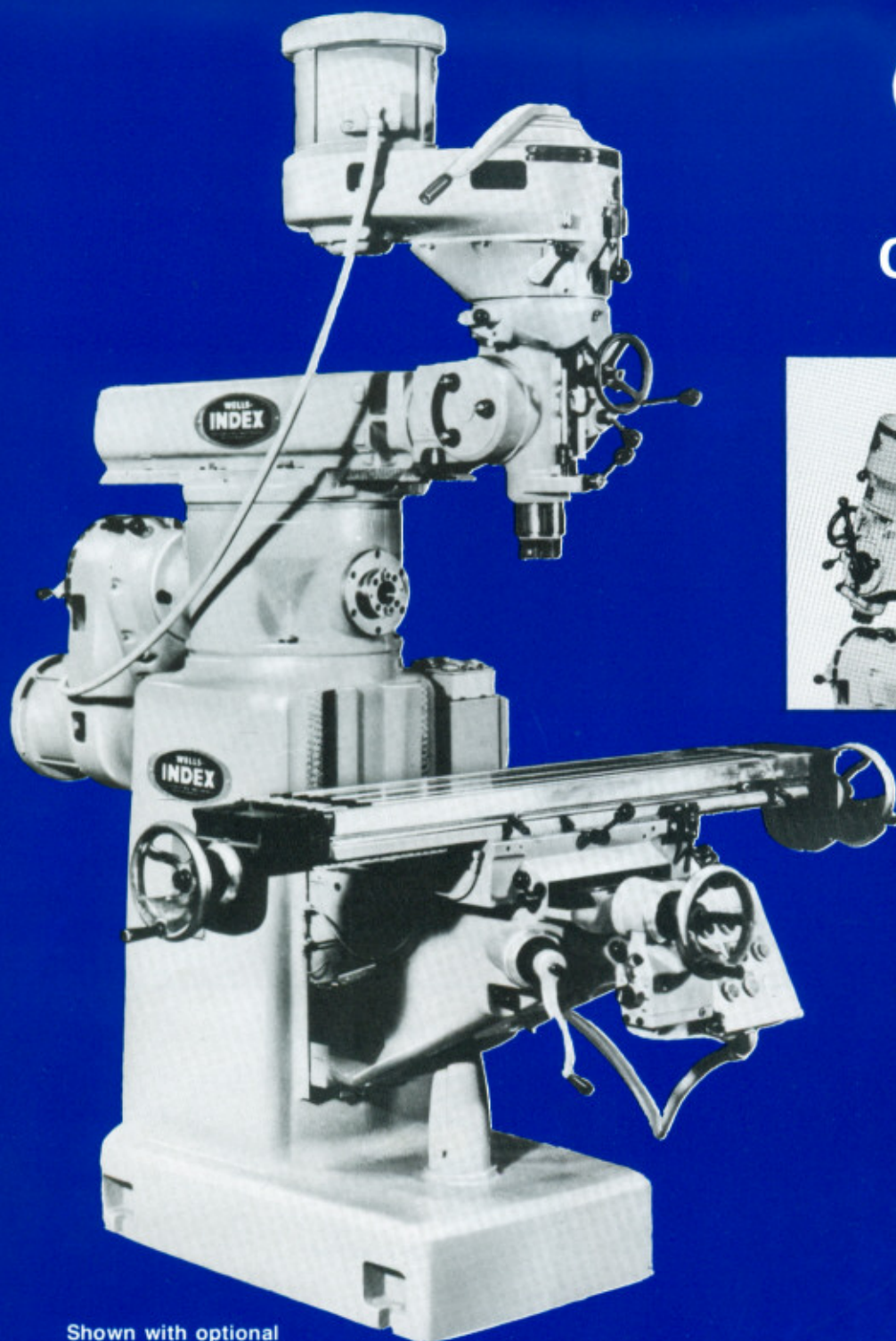




## Model 860 C Convert-A-Mill



Shown with optional  
electrical controls  
and power feeds

- Converts in less than 5 minutes from horizontal to vertical (or vice versa).
- Simultaneously does vertical and horizontal milling with stub arbors.
- Costs approximately 20% less than 2 separate machines, requires half the floor space.

**2 machines  
in one!**

Vertical/Horizontal

**less investment, less floor space**

All-new, heavy-duty horizontal spindle features all-gear positive drive, with high-inertia flywheel, 3 h.p. variable speed drive with direct lever control, and #40 MMT taper spindle equipped with drawbar.

Also available as a horizontal milling machine (Model 860 H)

# Specifications

## TABLE

Size overall (standard) .....	10" x 48"
T-slots - number and size .....	Three - 1/2"
Distance between T-slots .....	2 1/4"
Dial graduations .....	.001"

## RANGE

Longitudinal (46" table) .....	34"
Cross (standard) .....	14"
Vertical knee .....	16 1/2"
Center of table to column face .....	Max 19 1/2" - Min. 5 1/2"

## Vertical Spindle

Quill .....	5"
Head tilt, forward and backward .....	45° - 0° - 45°
Head rotation, side to side .....	90° - 0° - 90° (and greater)
Turret rotation on column .....	360°
Spindle nose to top of table .....	21.5" max., 0" min.
Center of spindle to column face .....	28 1/2" max., 2 1/2" min.

## Horizontal Spindle

Spindle housing rotation .....	± 30°
Centerline horizontal spindle to table top .....	16 1/2" max., 0" min.

## SPINDLE

Reverse .....	Yes
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## Vertical Spindle

Spindle nose .....	#9 B & S, R-8, #30 MMT
Quill feeds: (3) - per spindle revolution .....	.0015", .003", .006"

## Horizontal Spindle

Spindle nose .....	#40 milling machine taper with 1/4"-11 drawbar (4) 1/2"-13 tapped holes on a 2 1/8" dia. B.C. with (2) 1/8" drive keys for face mills
Spindle speeds, variable speed drive .....	Variable speed 42 to 425 rpm back gear, 412 to 4200 rpm direct drive.

## DRIVES

Motor spindle .....	3 h.p.
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## Vertical Spindle

Type .....	Variable speed (standard)
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## Horizontal Spindle

Type .....	Variable speed
------------	----------------

## OPTIONAL POWER FEEDS

Longitudinal, Cross and Knee .....	Variable from 1/2-35 IPM
Rapid Traverse Long, and Cross .....	35-40 IPM
Rapid Traverse Knee .....	15 IPM

## ARBOR LENGTH ACCOMMODATED

Horizontal Spindle .....	18" max.
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## OVERARM

### Horizontal Spindle

Underside to centerline horizontal spindle .....	7 1/2"
End of spindle to bushing in arbor support .....	20 1/2"

## FLOOR SPACE

Front to back .....	76"
Right to left .....	107"

## HEIGHT OVERALL

With vertical head .....	90"
Less vertical head .....	66"

## SHIPPING WEIGHT (approximate)

With vertical head .....	3,600 lbs.
Less vertical head .....	3,300 lbs.

## Standard equipment supplied with machine:

- Spindle drive motor -  
3 h.p. horizontal, with variable speed drive  
3 h.p. vertical, with variable speed drive
- Power feed to vertical quill
- Electrical controls, including reversing switches  
and all wiring
- One type "B" arbor support for (1.875 OD bearing)
- One-shot lubrication
- Hand-scraped hard chromed ways
- Way covers

**Note:** Machine can be ordered complete with vertical head, or as a horizontal mill to which the vertical head can be added later.

## Optional equipment at extra cost:

- #30 QC nut on vertical
- #40 Spindle on vertical w/QC nut
- 200 KS and 300 KS on vertical
- Magnetic control (NFPA-79)
- Overarm brace
- Swivel or plain base vises
- Rotary table and indexing attachment
- Slotter attachment
- Type B arbor
- Longitudinal, cross or knee power feed
- Chip pan/flood coolant
- Digital read-out system

**SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**



MANUFACTURED BY:

**Wells-Index Division**  
**A & D Machinery Company**  
**701 West Clay Avenue**  
**Muskegon, Michigan 49440-1064**

Phone (231) 759-0950 • Fax (231) 728-7456

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