

- Designed for automotive and high performance machining
- Bore and mill (in M version) with no change set-up
- It is ideal for high performance work or whenever great precision is required
- Production ready comes with boring spindles, tooling, set-up fixtures and CBN milling cutter head
- 36" table transverse to mill all common blocks, heads and manifolds
- Bores the full range of automotive and light truck blocks
- Includes set-up fixtures for in-line, plus 60° and 90° V-blocks

SPECIFICATIONS		400M	500M
Boring range	mm	30-400	60-500
Table surface	mm	2000x650	3000x850
Max vertical travel of the head	mm	970	1450
Distance from spindle center to column	mm	420	550
Max distance from head to table	mm	1530	2160
Spindle rotation speed up to	rpm	60-600	40-400
Spindle feeds	mm/1'	0-80	0-80
Max longitudinal travel of table	mm	1950	2900
Max traverse travel of table	mm	175	200
Main motor power	KW	3	4
Maximum milling length	mm	1775	2700
Milling cutter diameter	mm	410	410
Dimension with packaging	mm	3150x1850x2980	4600x2230x3650
Dimensions without packaging	mm	2800x2100x2150	4000x2350x4100
Weight with packaging	kg	3750	6500
Weight without packaging	kg	3950	7300



Vertical boring and milling machines

VB400M VB500M



STANDARD EQUIPMENT

- Tool measuring device with instrument
- Edge clamp assembly (4 pieces)
- 30° short chamfering tool for cast iron
- 2 pair of parallel supports
- Grinder for tools complete with sharpening supports
- Low voltage electric control 24 V.
- The machine has the automatic table longitudinal displacement at variable speed with digital indication, and surfacing spindle with CBN cutters for surfacing the engine block
- Service tools
- Operating manual.



OPTIONAL EQUIPMENT



Inner gauge with different capacity (diameter)
AZ703 from 30 to 100mm dia
AZ704 from 50 to 180mm dia
AZ705 from 100 to 300mm dia



AZ505
 Radial head for chamfering



AZ830
 Cylinder block quick clamp fixture, heavy duty



AZ712
 Depth dial indicator assembly



AZ784
 XYZ Digital readout



AZ702
 Cylinder block quick clamp fixture, heavy duty



AZ601
 Universal V- engine fixture
AZ601.02
 30° reference square for AZ 601

1-2



AZ801
 Spindle storing and loading fixture



AZ609
 XYZ Digital readout

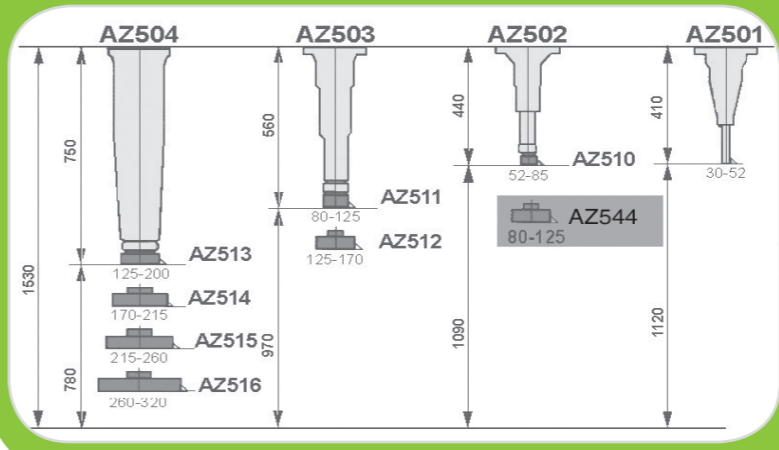


Equipment for boring:

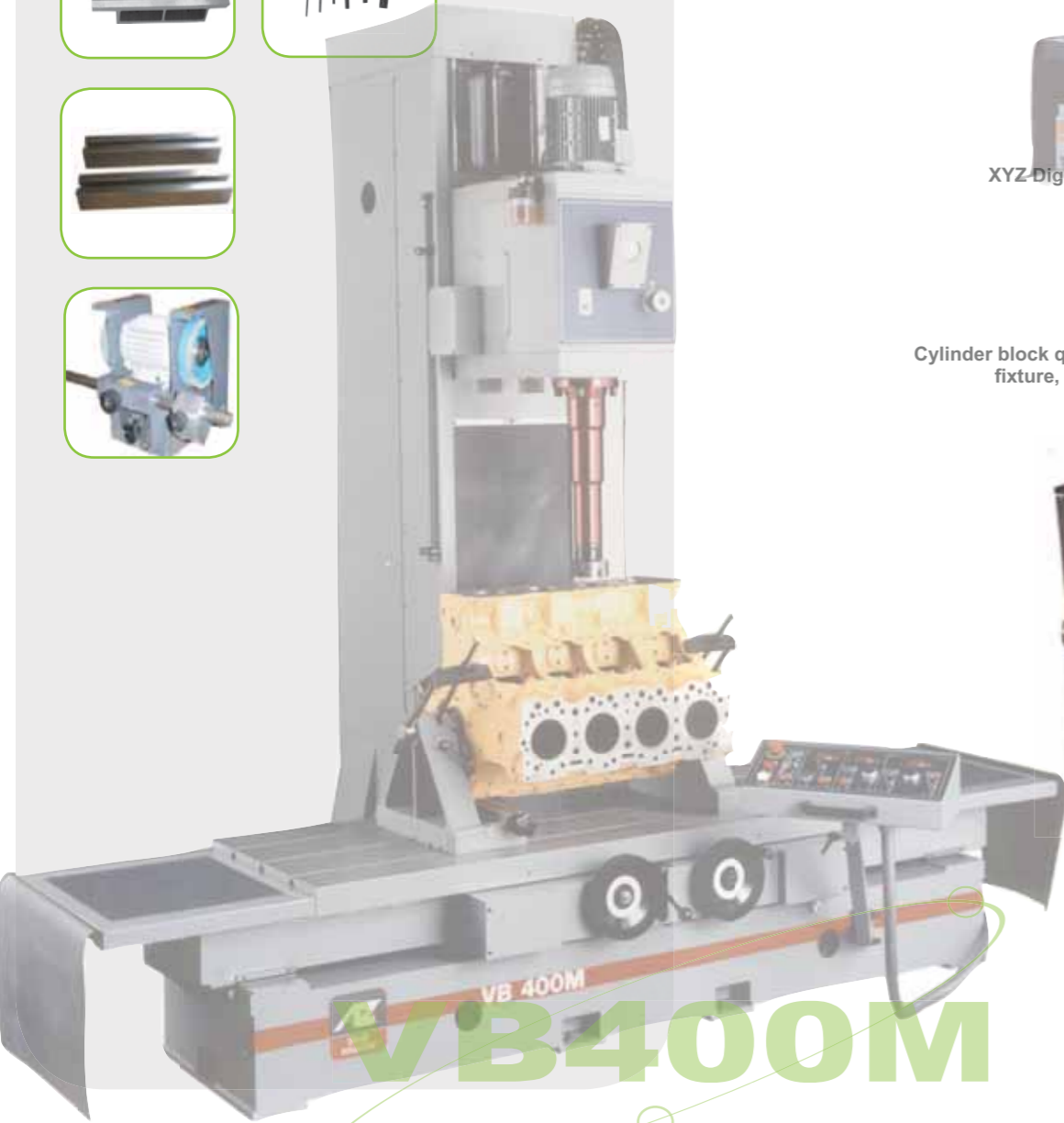
- **AZ504** From 125 to 320 mm. dia
- **AZ503** From 80 to 200 mm. dia
- **AZ501** From 30 to 52mm. dia
- **AZ502** From 52 to 85 mm. dia
- **AZ508** From 300 to 500 mm. dia

All these equipment includes the boring heads in picture

- **AZ524** Boring head from 320 to 400 mm. dia (for AZ 504)
- **AZ544** Boring head from 80 to 125 mm. dia (for AZ502)



Vertical boring and milling machines



VB400M