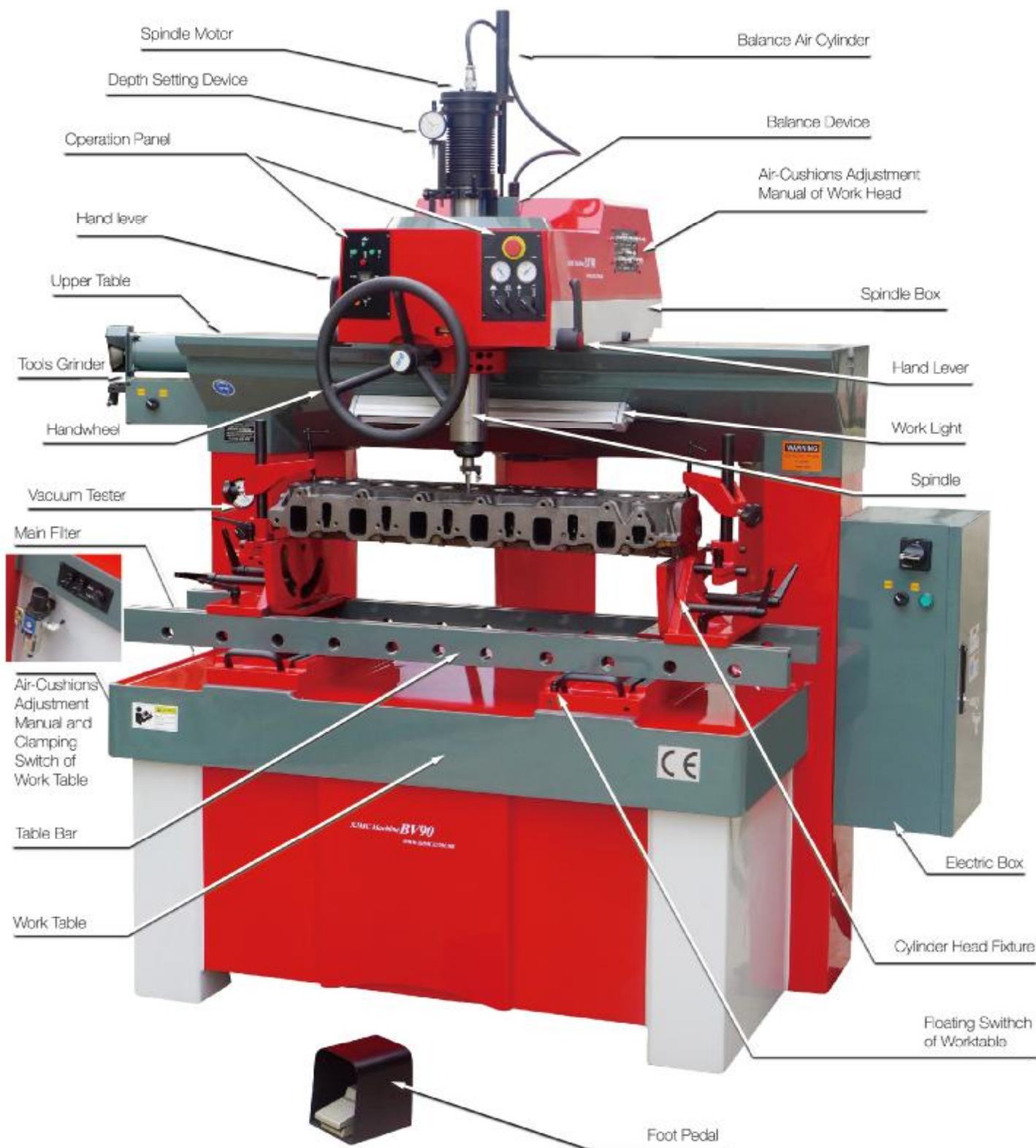


Valve Seats Boring Machine

Model: BV90



This product is TÜV SÜD - tested and has already gained CE certificate

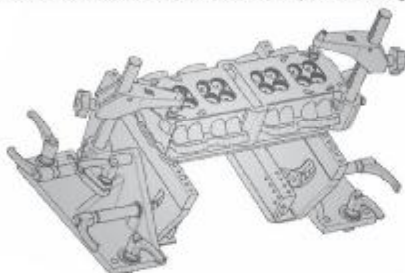


Valve Seat Boring Machine Model: BV90 with high availability meets the requirements of boring, reaming and cutting machining for high accuracy valve guides and valve seats. Triple air-float patented centering system and powerful spindle with built-in motor. Designed for the valve seats from the smallest to the bigger diameter. This machine can repair any existing engine, from the micro-engine up to the big stationary engine, machining capacity from 18mm to 90mm. To reach the requirements of high precision machining for valve guides with a small diameter of 4mm.

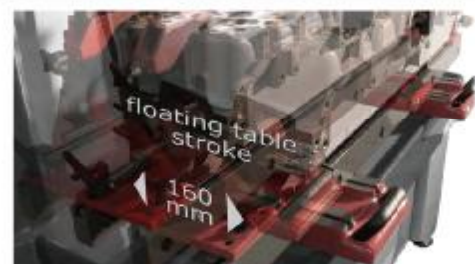
Main Specifications

Model	BV90
Type of Drive System	Air / Electric
Max. Length of Cylinder Head	unlimited
Max. Width of Cylinder Head	500 mm
Max. Height of Cylinder Head	450 mm
Max. Boring Dia.	18 – 90 mm
Work Head Longitudinal Floating Travel	990 mm
Work Head Cross Floating Travel	40 mm
Sphere – Cylinder Travel	9 mm
Floating inclination angle of Spindle	5°
Table Travel	160 mm
Vertical Travel of Spindle	200 mm
Power of Spindle	1.5 kW Spindle Motor
Max. Torque of Spindle Motor	23 Nm
Spindle Speed	100 – 1200 rpm stepless
Power of Tools Grinder	0.18 kW
Tools Grinder Rotation Speed	2800 rpm
Clamper Rotary Angle	+ 42°/ -15°
Required Rated Air Pressure	6 Bar / 85 PSI
Required Max. Air Flow	400 L / Min
Required Continuous Air Flow	60 L / Min
Length of Machine	1685 mm
Width of Machine	1050 mm
Max. Height of Machine	2180 mm
Min. Height of Machine	1980 mm
Roughness of Finishing	Ra 0.6
Package Size (LxDxH)	1860x1150x2200 mm
N.W. / G.W.	1500 Kg / 1800 Kg

* All technical data and photos are subject to change due to designing without notice.



Cylinder Head Fixture

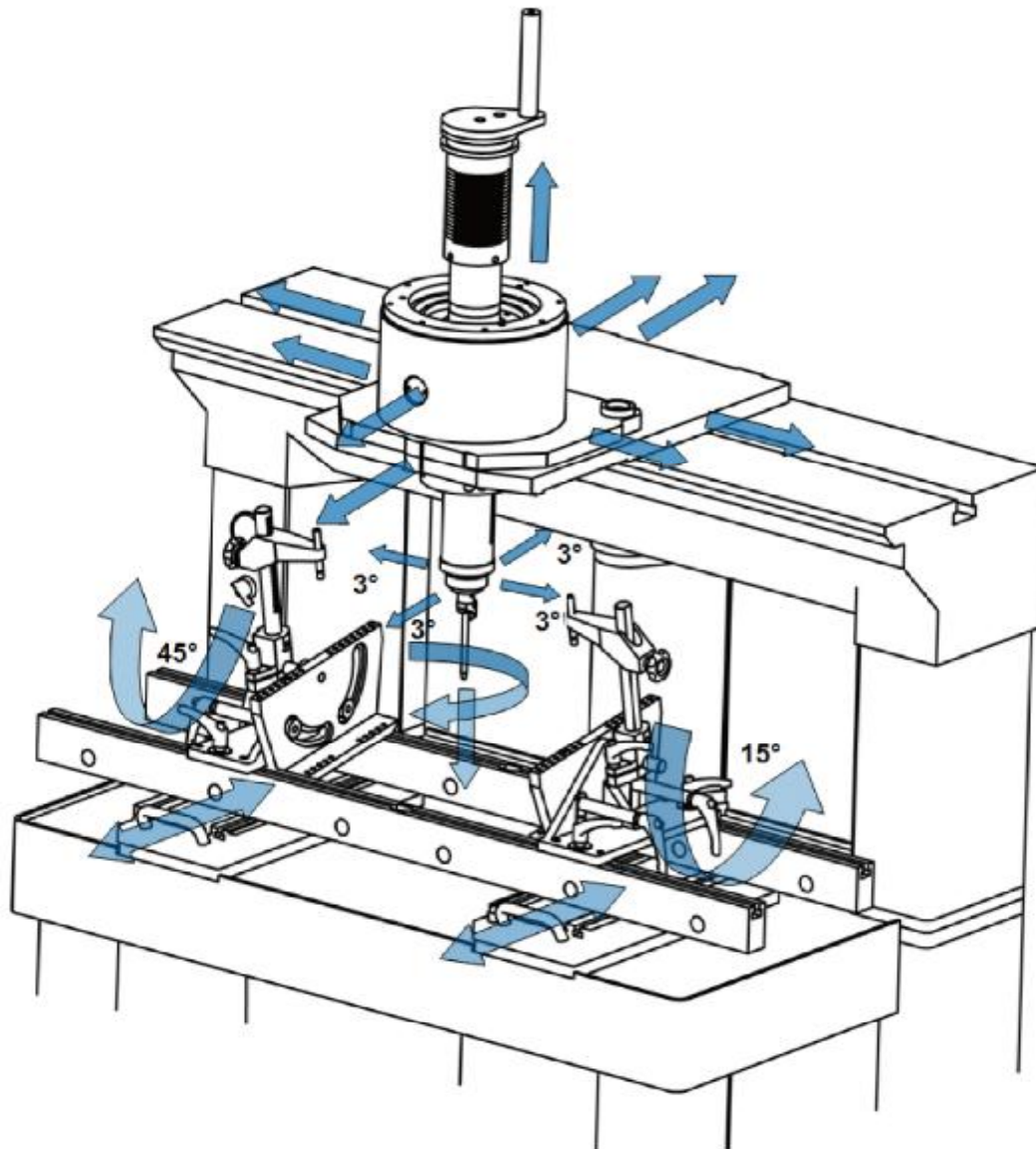


Air Floating Worktable

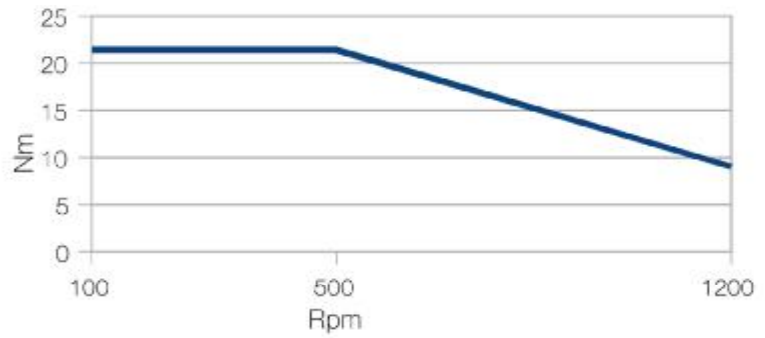
Features

1. With distinctive characteristics of this new type machines that can save 30% cutting force during machining process. Ensure the angle accuracy of compound angle tool within a range of ± 0.5 degree
2. Machining Capacity: 18 mm / 0.7" - 90 mm / 3.54"
3. Mechanical clamping of the work head on the machine bed with pneumatic clamping jack.
4. Cast iron quenched bed, high rigidity, high hardness, more stable.
5. Modernized design of standard machine body to agree with the improved rigidity. Dynamic and static features are optimized by computer to provide the most advanced machining process.
6. Improved lighting system
7. Air floating work table. Front-to-back air loading displacement of the cylinder head with pneumatic locking.
8. Fully integrated spindle motor: Infinitely variable speed 100 - 1200 rpm, with sensorless Vector Flux Control in open loop. Extremely broad torque ratings from lowest RPM with constant torque spindle rotation. Digital RPM read-out for accurate speed setting.
9. Lightweight workhead: built-in spindle motor and triple air-foat automatic centering system. Minimal workhead inertia and maximal floatation for unmatched centering sensitivity.
10. High quality three color saturation painting.

Air Floating Diagram



Motor Spindle Torque Curve



1.5 kW spindle motor is controlled by YASKAWA vector frequency converter , low speed constant torque , high speed constant power

Accessories and Equipment

1 NWN5100F Tool Unit 18–40 mm



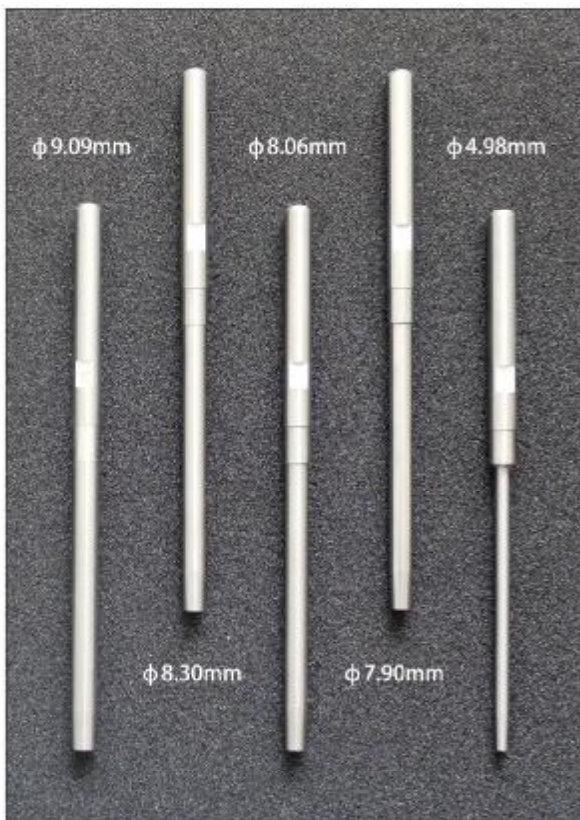
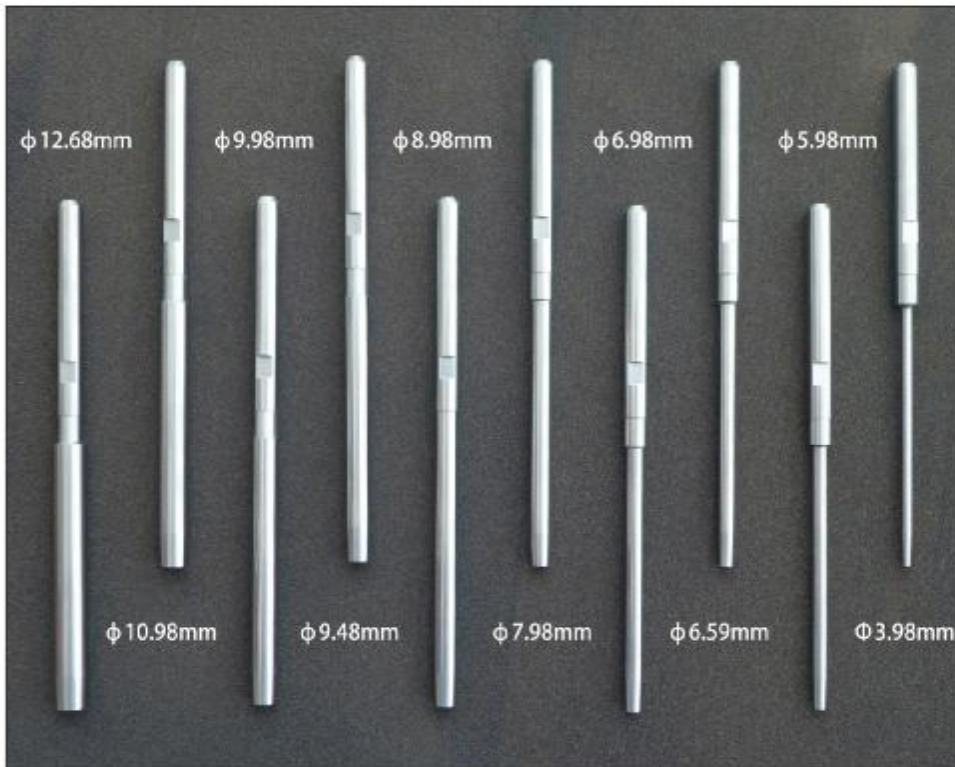
NWN5100F Fits Tip Holders
NWN2000 , NWN2001 ,
NWN2002

2 NWN5300 Tool Unit 40–80 mm

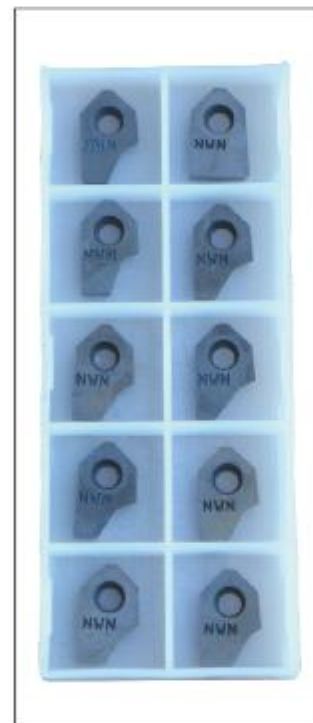


NWN5300 Fits Tip Holders
NWN2003 , NWN2004 ,
NWN2005

3 Carbide Pilots ϕ 9.52 Standard



4 Carbide Tip



* The BV90 is equipped 15 pieces of Carbide Pilots as standard Acc. you can free to choose any size as per the Pilot List Page No.

* The BV90 is equipped 10 pieces of Carbide Tips as standard Acc. NEWEN tips Made in USA



Table of Standard Acc. & Equipment, Optional Acc. & Equipment

Model	Standard	Optional
BV-60	1, 2, 3, 4, 5, 7, 8, 9	6, 10, 11, 12

• Special size of Carbide Plots and Carbide Tip, please contact with our sales staff

Required Space

