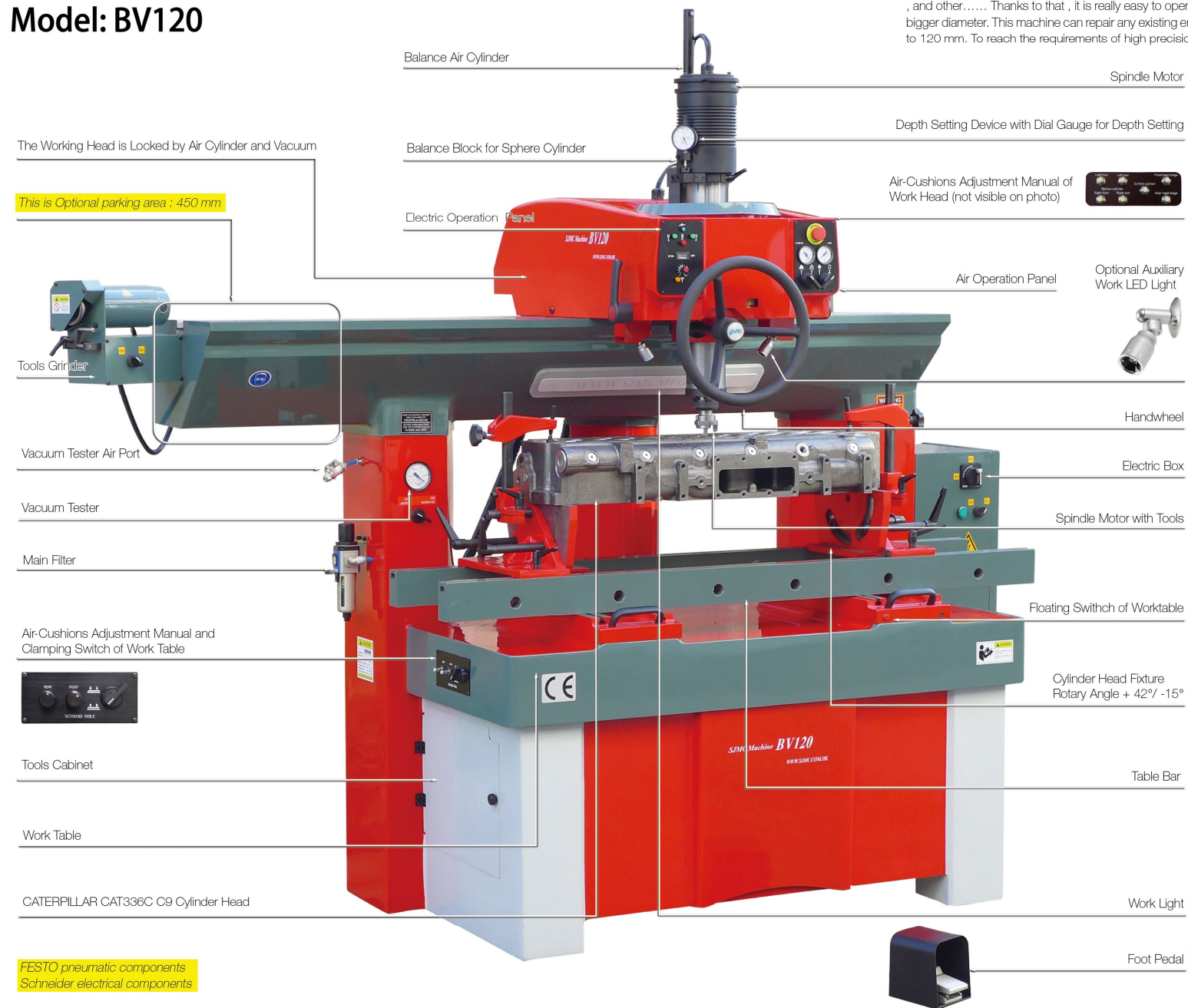


Heavy Valve Seats Boring Machine

Model: BV120

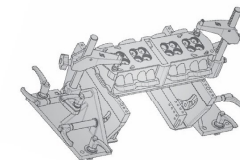
Heavy – duty Valve Seat Boring Machine Model: BV120, this machine makes use of special steel and spheroidal graphite cast iron, its body are special heat treated, the rigidity, stability much improved along with the working life. It is equipped with one heavy duty spindle, rated power is 2.5 kW, outside diameter is $\phi 90$ mm, maximum torque is 42 N.M. Moreover, the triple air-float patented work head, and the air floating table, and other..... Thanks to that, it is really easy to operate, although this is a heavy machine. 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 120 mm. To reach the requirements of high precision machining for valve guides with a small diameter of 4mm.



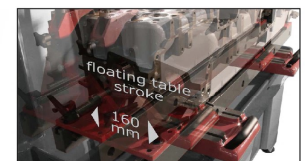
Specifications

Model	BV120
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 – 120 mm
Work Head Longitudinal Floating Travel (with optional parking area : 450 mm)	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	2.5 kW Spindle Motor
Max. Torque of Spindle Motor	42 Nm
Spindle Speed	50 – 800 rpm stepless
Power of Tools Grinder	0.27 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
Overall dimensions (LxWxH)	1685x1050x2180 mm
Roughness of Finishing	Ra 0.6
Package Size (LxDxH)	1860x1150x2200 mm
N.W. / G.W.	1700 Kg / 2000 Kg

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

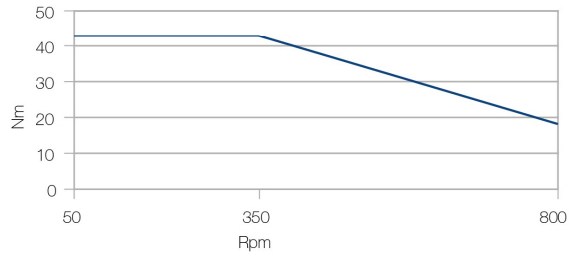


Cylinder Head Fixture



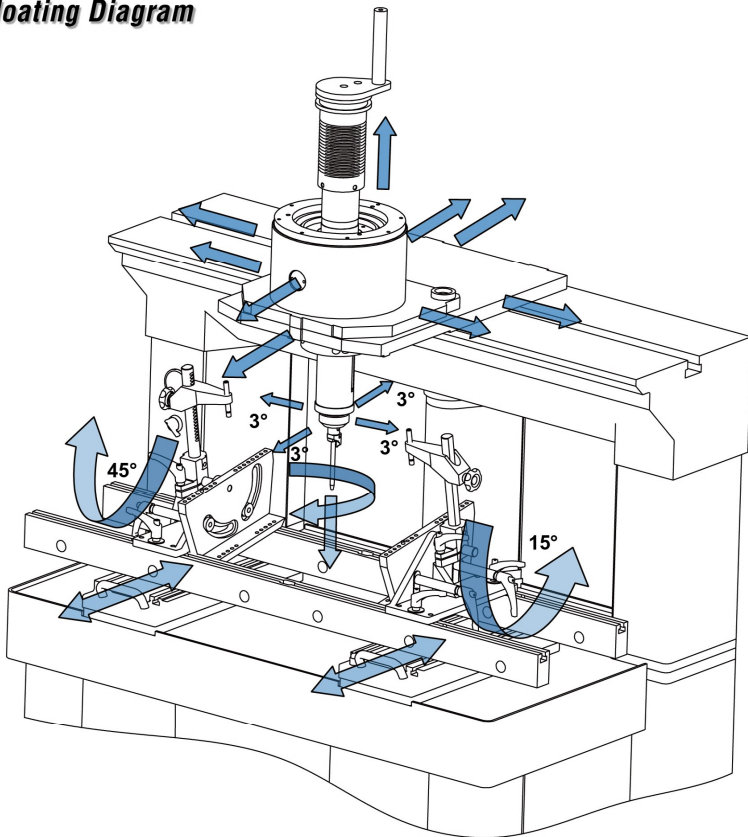
Air Floating Worktable

Spindle Motor Torque Curve



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

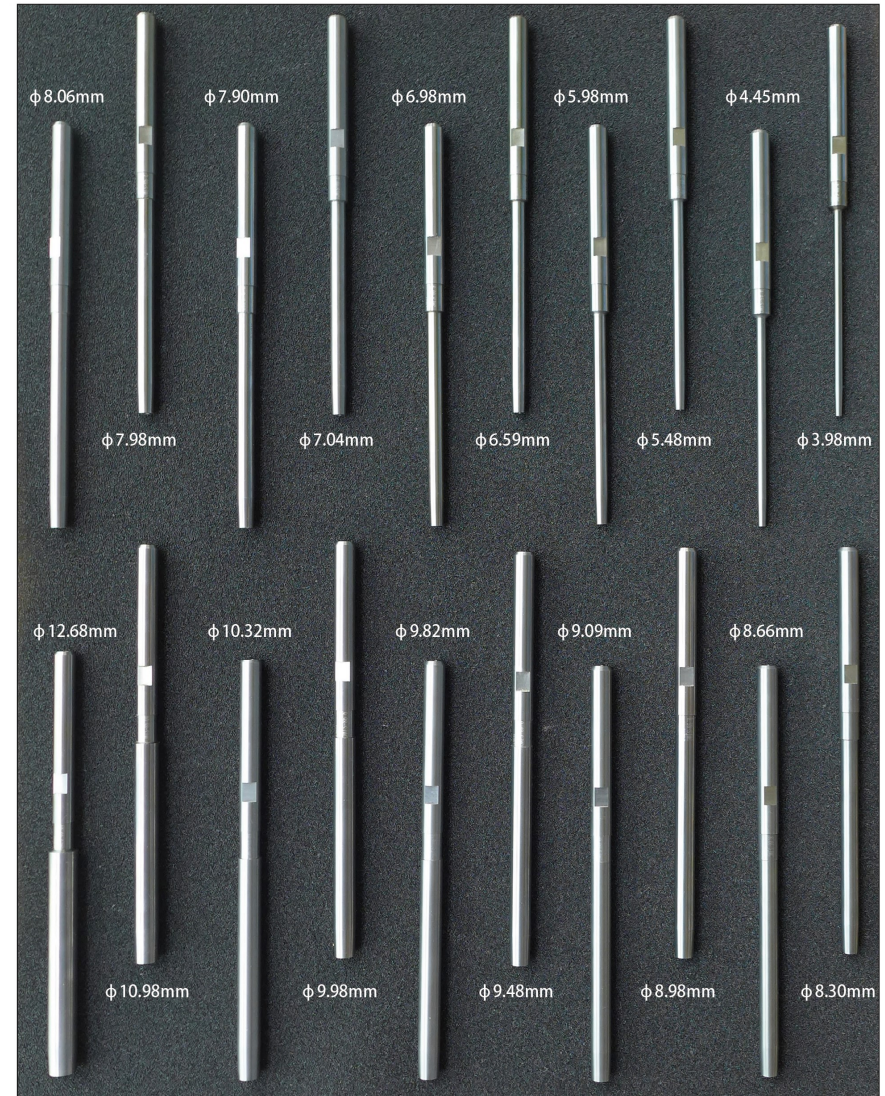
Air Floating Diagram



Accessories

- 1 Carbide Pilots φ9.52 Standard

Please refer to the appendix of pilots page No.76-77



* The BV120 is equipped 20 pieces of Carbide Pilots as standard Acc. You can free to choose any size

2 NWN5100F Tool Unit 18~40 mm



NWN5100F Fits Tip Holders
NWN2000 , NWN2001 ,
NWN2002

3 NWN5300 Tool Unit 40~80 mm



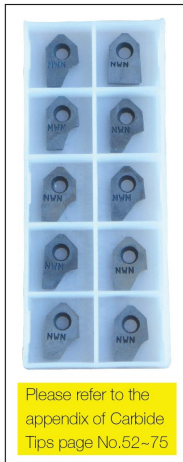
NWN5300 Fits Tip Holders
NWN2003 , NWN2004 ,
NWN2005

4 NWN5400 Tool Unit 60~120 mm



This is optional tools assembly : tools holder NWN5400 and tip holder NWN2005 . It needs to use shank dia. 20 mm pilots. For more information , ask respectfully to contact with our sales manager

5 Carbide Tip



*The BV120 is equipped 10 pieces of Carbide Tips as standard Acc. NEWEN tips Made in USA

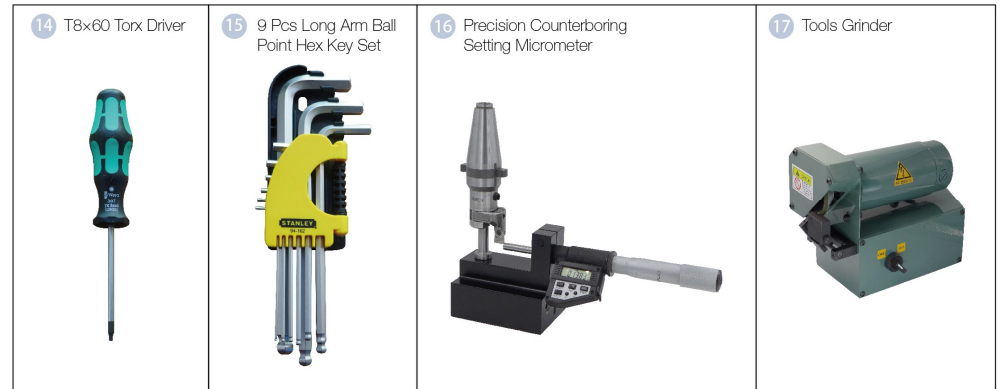


Table of Standard Acc. and Optional Acc.

Standard	1, 2, 3, 5, 6, 7, 8, 9, 14, 15, 17
Optional	4, 10, 11, 12, 13, 16, 18

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