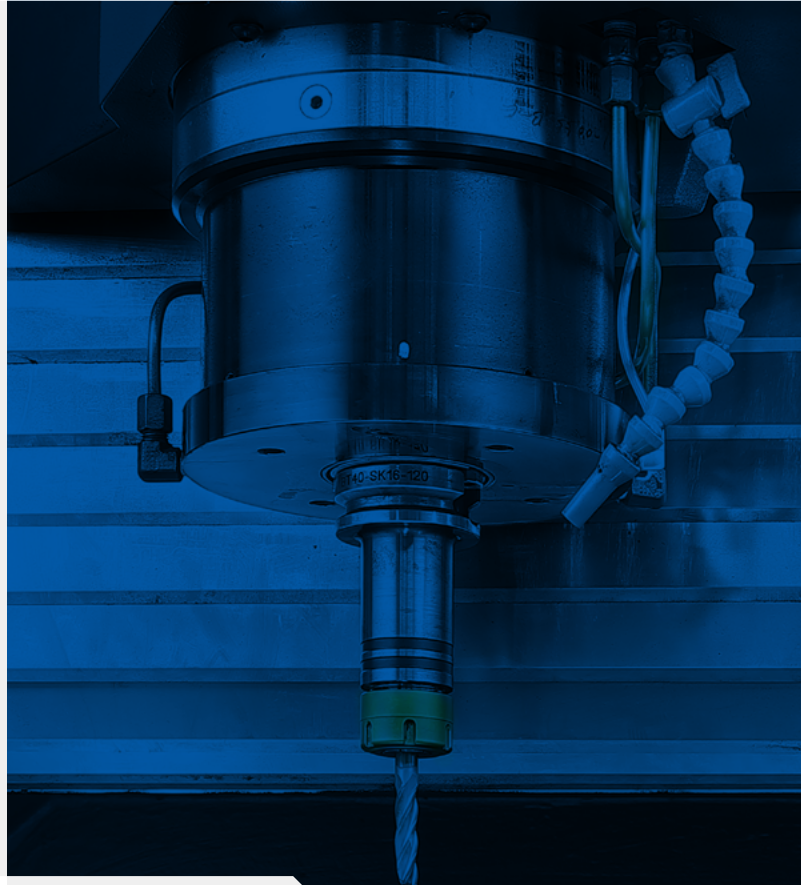


HIGH PRECISION GRAPHITE MACHINING CENTER

# **VX 6500G**



# BASIC STRUCTURE

VX6500G has the Bridge type structure for high-performance, high-accuracy machining.

## Travel distance

### X axis

**1050** mm (41.3 inch)

### Y axis

**650** mm (25.6 inch)

### Z axis

**550** mm (21.7 inch)

## Rapid traverse rate

### X axis

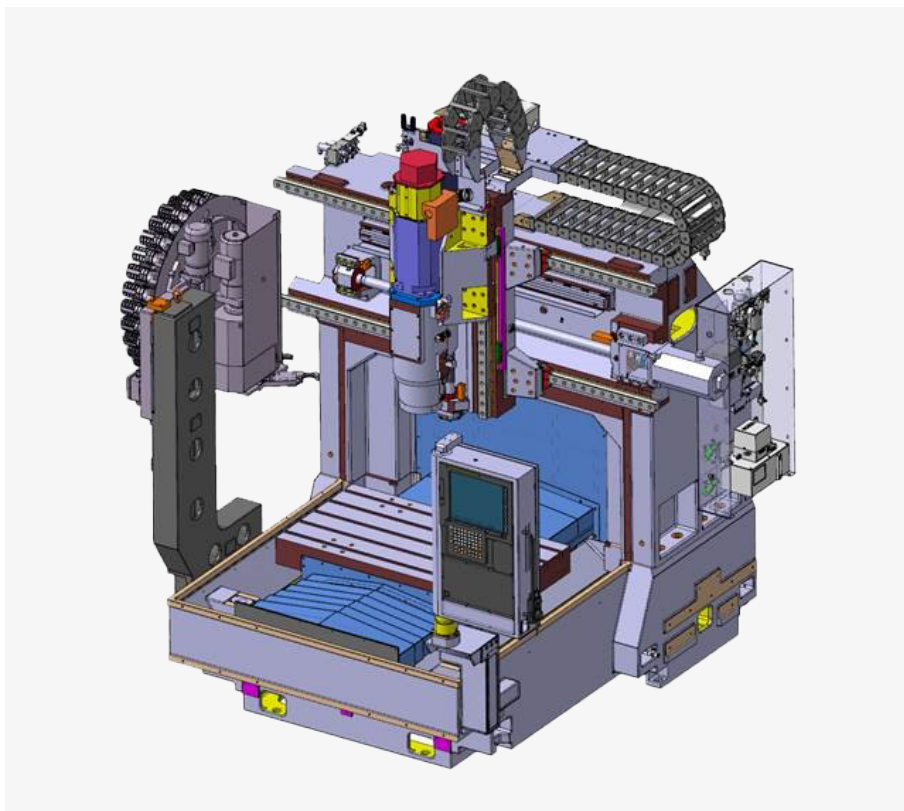
**30** m/min (1181.1 ipm)

### Y axis

**30** m/min (1181.1 ipm)

### Z axis

**30** m/min (1181.1 ipm)



# SPINDLE

The new spindle provides low noise and high precision performance.

## Max. spindle speed

**12000** r/min

20000, 30000, 40000 r/min OPTION

## Max. Spindle power

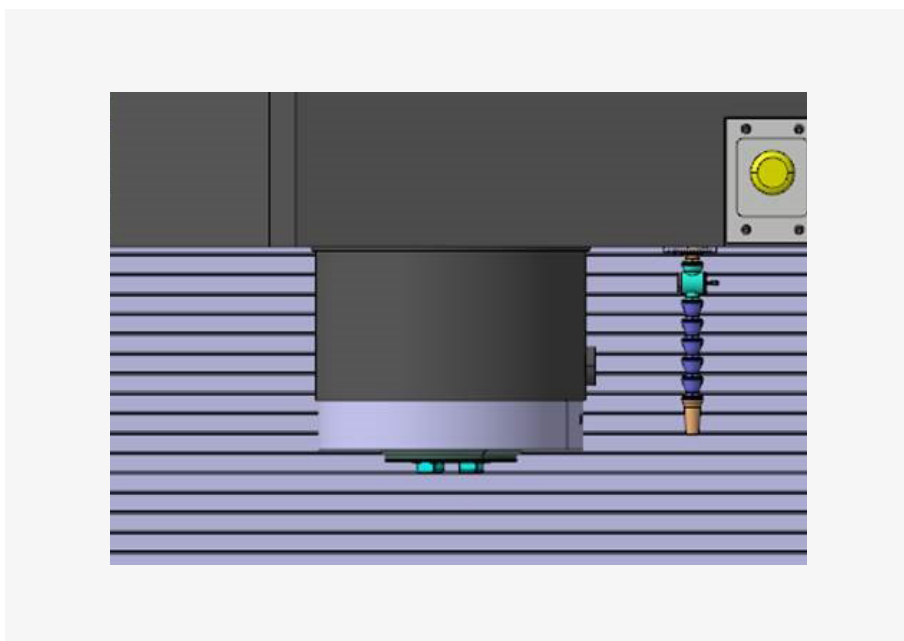
**18.5/11** kW (24.8/14.8 Hp)

22/11, 18.5/13, 5.5/3.7 kW OPTION  
(29.5/14.8, 24.8/17.4, 7.4/5.0 Hp)

## Max. spindle torque

**117.8** N·m (86.9 ft-lbs)

60, 5.9, 3.5 N·m OPTION  
(44.3, 4.4, 2.6 ft-lbs)

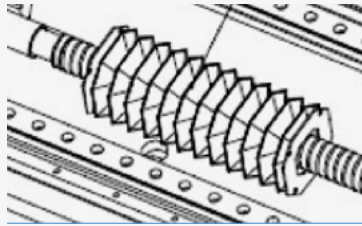


# GRAPHITE PACKAGE

Various protection package from graphite dust which can effect to reliability and accuracy of axis and spindle.

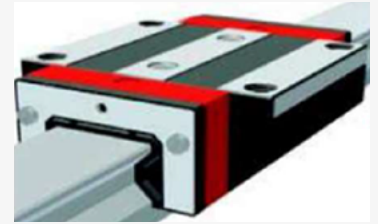
Protective device applied for outstanding linear axis accuracy of feed drive system.

## 1. Ball screw cover



VX 6500G is capable of processing various high hardness/ high heat resistance ceramic materials such as Si (silicon), SiC (silicon carbide), aluminum oxide, and Quartz.

## 2. LM guide double wiper

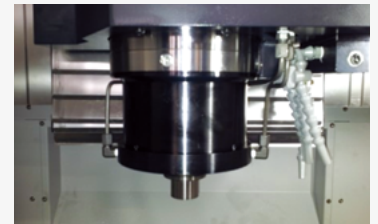


## 3. Grease lubrication

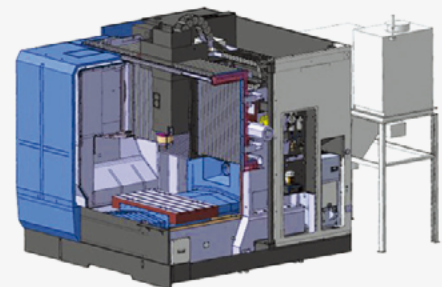


## 4. Spindle lubrication air-oil suction unit

(Only built-in spindle (20/30/40K) **OPTION**)



## 5. Graphite dust collector



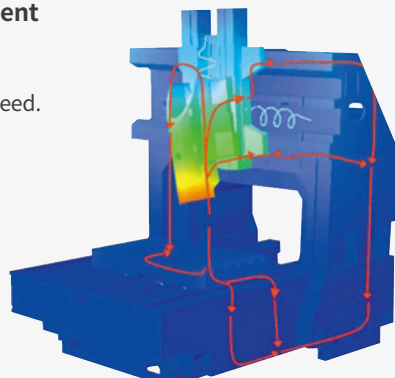
Realizes high-quality, high-precision machining with smoothing thermal displacement compensation of the spindle and structure.

### Compensation of static displacement of spindle

Compensates in tool position caused by expansion of the spindle shaft at high speed.

### Structure thermal displacement compensation

Compensates irregular deflection or expansion of the structure due to ambient temperature using a multiple temperature sensors.



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