

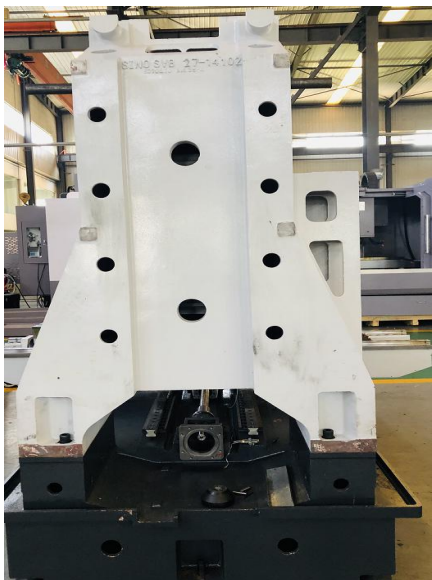
SVB1270 & SVB1470

PRESENTATION

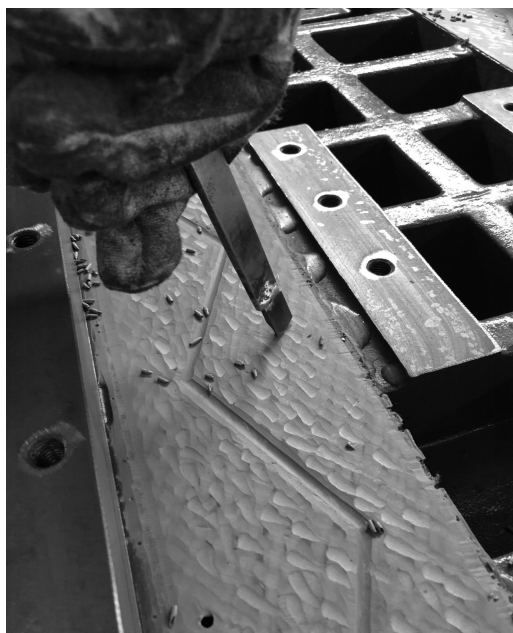


	SVB1270	SVB1470
worktable size (mm)	1400x700	1600x700
Max. table loading (kg)	1000	1100
X/Y/Z axis travel (mm)	1200/700/700	1400/700/700
X/Y/Z rapid feed speed (mm/min)	24/24/20	24/24/20
distance from spindle to table (mm)	150-850	150-850
spindle (belt type)	BT50-150 6000RPM	BT50-150 6000RPM
spindle power (kw)	15/18.5 wide area motor	15/18.5 wide area motor
tool magazine (T)	24	24
machine weight (kg)	9500	9800
positioning accuracy/ re-positioning accuracy	0.012/0.006	0.012/0.006

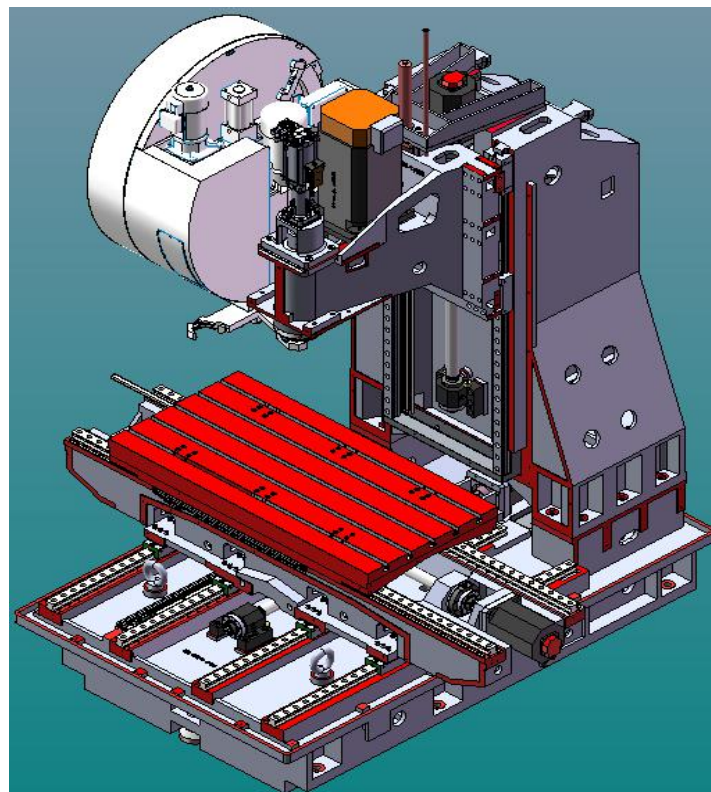
MACHINE FRAME



Pagoda type structure design and reinforcing ribs inside to ensure rigidity.



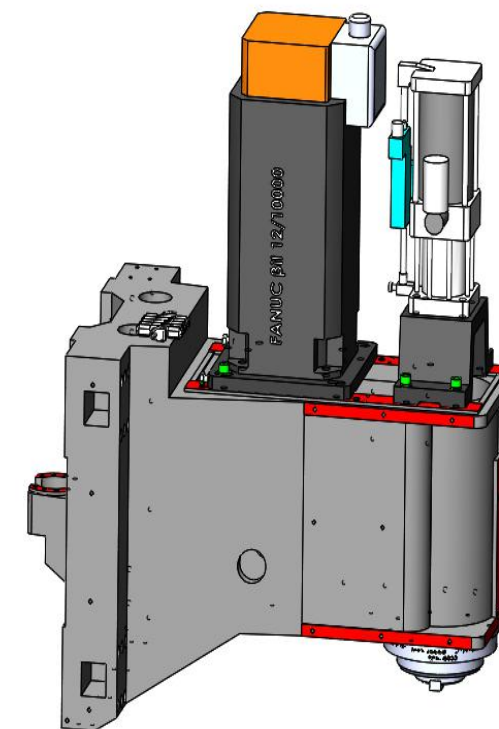
All the mechanical connection area is manual scraped to ensure long stay accuracy



X/Z axis large 45/55mm roller linear guideway with 6 slides , Y axis has 4x45mm roller linear guideways with 8 sliders.

SINO
CNC MACHINERY

Enclosed box type headstock with front end circular design to reduce weight compared with square design also the load of Z axis and the forward leaning phenomenon



IMPORTED CONFIGURATION

All the key parts adopt high level brand, include spindle, linear guideway, tool magazine, ball screw, bearing, etc.



THK / INA / PMI



OKADA/POJU



SINO
CNC MACHINERY



NSK/NTN/FAG

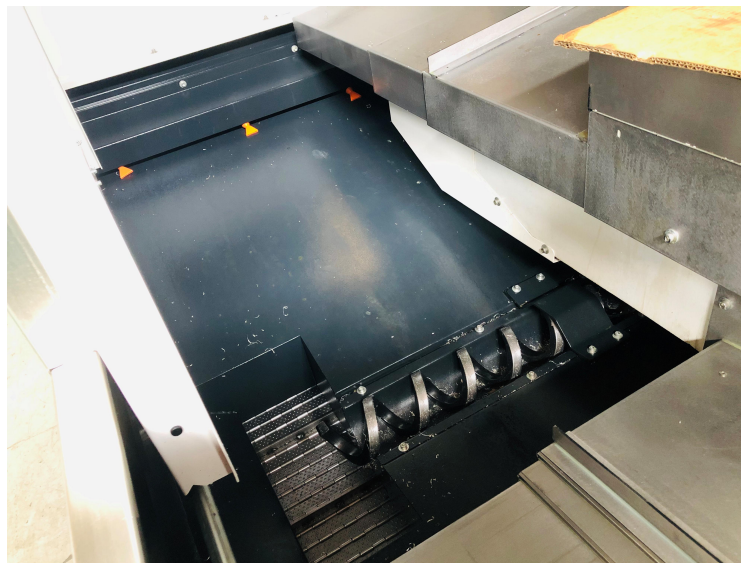


ROYAL/REXROTH/KENTURN

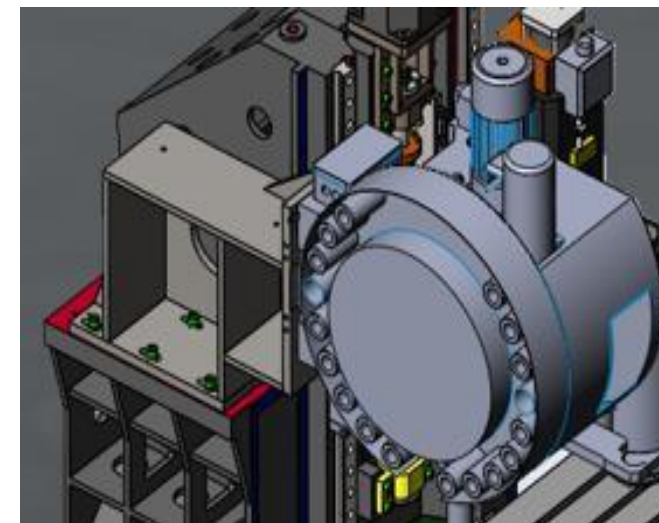
short nose spindle front 3 rear 2 bearings, direct driven and gear transimission spindle is optional



double screw chip conveyor at two sides of machine inside which improves chip moving efficiency.
Standard inner chip flushing



Shoulder carrying type tool magazine ensure superior balance of coulumn to avoid deformation



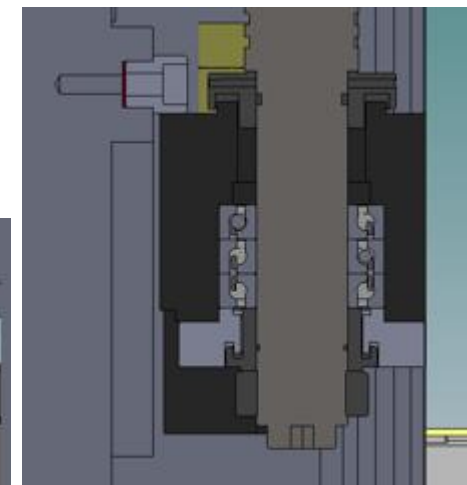
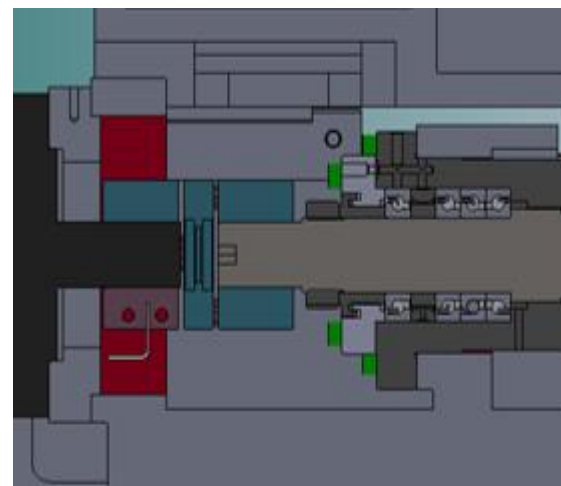
Integrated ball screw housing improves rigidity and stability.
Directly coupled servo motor eliminates any factors which will influence accuracy and efficiency.

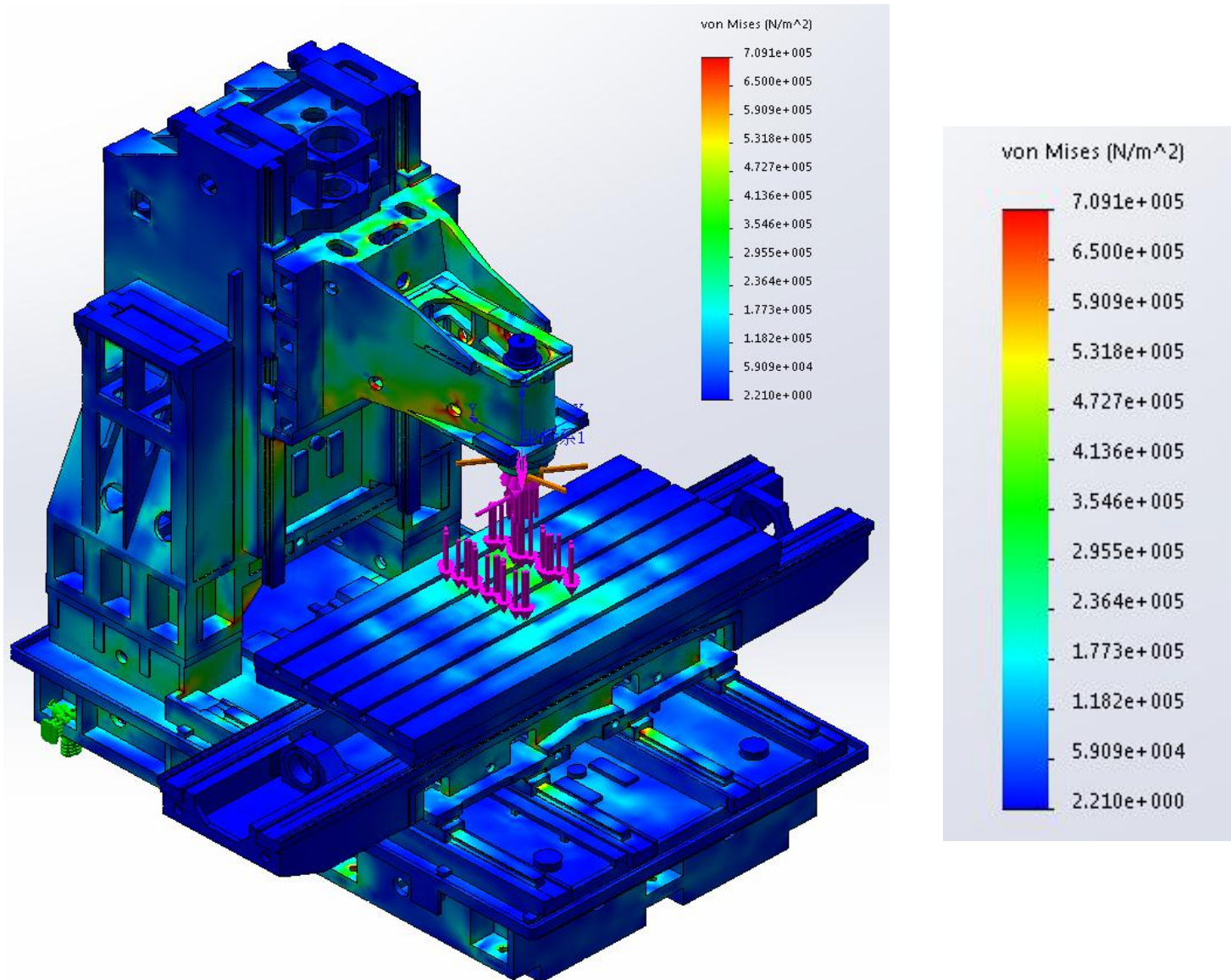


3 axes double nut ball screw (5012) with 4+3 bearings (4072)



All the ball screws, linear guideway, bearings are well lubricated in time and ration.





FEA analysis is adopted to ensure the best mass arrangement and rib construction of the machine for constant stability under intensive load of heavy-duty cutting.

MACHINE PERFORMANCE DATA



peacock bluer flaky iron chip is with uniformity of thickness

machining surface is smooth and with clear line

SINO
CNC MACHINERY



heavy cutting of face mill data

model	system	spindle motor	spindle speed (S)	feed speed (F)	cutting width (mm)	cutting depth (mm)	spindle load	material	tool	metal remove rate (cm ³ /min)
SVB1470	MF	βiIP 30/8000	600	900	80	6	125%	45# steel	Ø100-7Z face mill (ESCO)	432

Note: This is directional testing data, which will be influenced by tools, material, clamping method, programming and cutting fluid etc. So all datas are only be the reference.



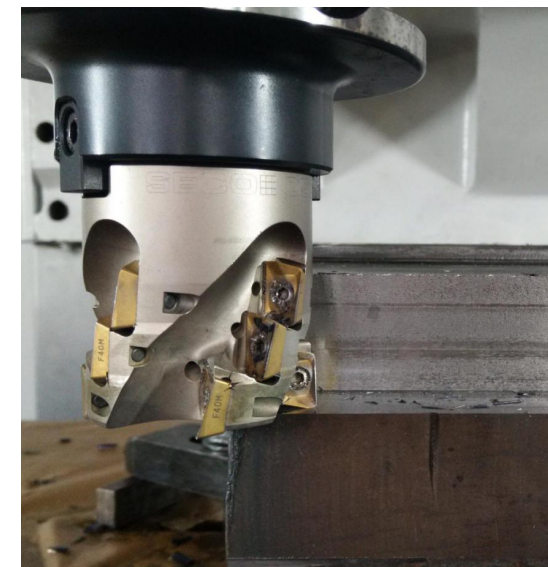
peacock bluer flaky iron chip is with uniformity of thickness

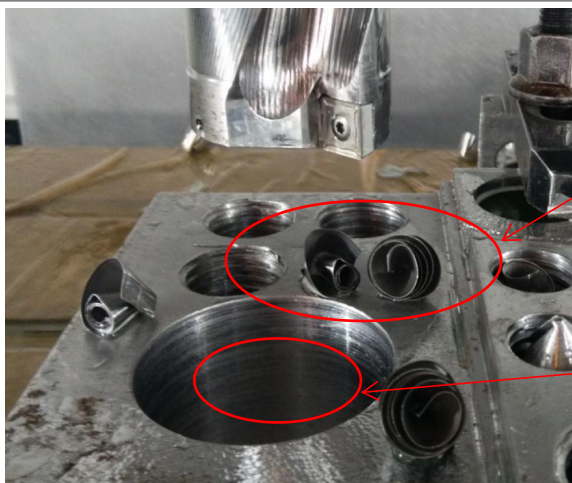
peacock bluer flaky iron chip is with uniformity of thickness

heavy cutting of side face data

model	system	spindel motor	spindle speed (S)	feed speed (F)	cutting width (mm)	cutting depth (mm)	spindle load	material	tool	metal remove rate (cm ³ /min)
SVB1470	MF	β iIP 30/8000	500	102	10	30	16%	45# steel	Ø50-4Z corn mill (SECO)	31

Note: This is directional testing data, which will be influenced by tools, material, clamping method, programming and cutting fluid etc. So all datas are only be the reference.





chip discharge is smooth and curly shape iron chip

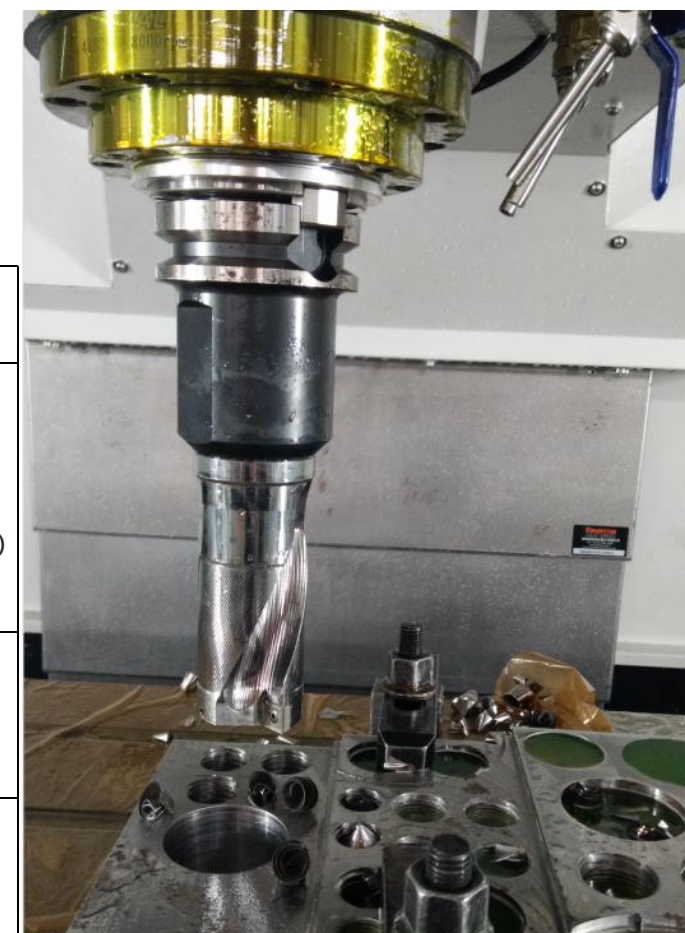
smooth hole inner surface without obvious seismic lines

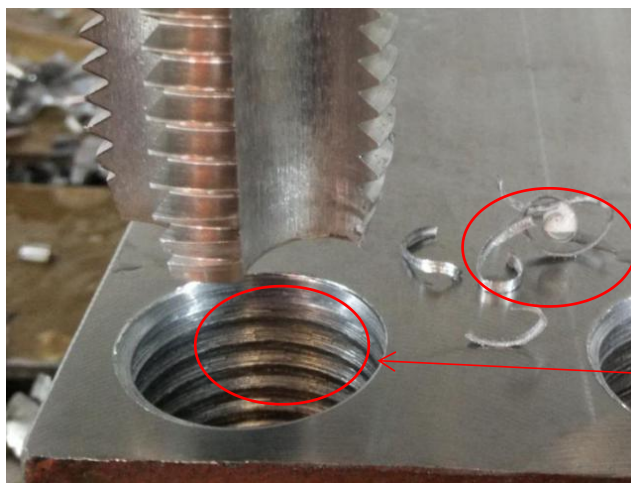
heavy cutting of U drill data

model	system	spindle motor	spindle speed (S)	feed speed (F)	hole diameter (mm)	hole depth (mm)	spindle load	material	tool	metal remove rate (cm ³ /min)
SVB1470	MF	β iIP 30/8000	1000	100	59	60	65%	45# steel	Ø59Udril (SECO)	273

Note: This is directional testing data, which will be influenced by tools, material, clamping method, programming and cutting fluid etc. So all datas are only be the reference.

must to use CTS.





curly shape iron chip and
uniformity of thickness

tooth shape is complete and the
tooth surface is smooth

heavy cutting of Max. tapping data

model	system	spindle motor	spindle speed (S)	feed speed (F)	thread model (mm)	pitch (mm)	depth (mm)	spindle load	material	tool
SVB1470	MF	β iIP 30/8000	200	800	M36	4	60 blind hole	100%	45# steel	Ø36*4 screw

Note: This is directional testing data, which will be influenced by tools, material, clamping method, programming and cutting fluid etc. So all datas are only be the reference.





M2*0.4 thread forming tap

stop gauge half circle can stop

full gauge can be turned to the end

tooth shape is complete and
the tooth surface is smooth



heavy cutting of Min. tapping data

model	system	spindle motor	spindle speed (S)	feed speed (F)	thread mode (mm)	pitch (mm)	depth (mm)	tapping type	material	tool	Thread stop gauge testing
SVB1470	MF	β iIP 30/8000	400	160	M2	0.4	6 blind hole	peck type	45#steel	M2*0.4 thread forming tap	qualified

Note: This is directional testing data, which will be influenced by tools, material, clamping method, programming and cutting fluid etc. So all datas are only be the reference.

