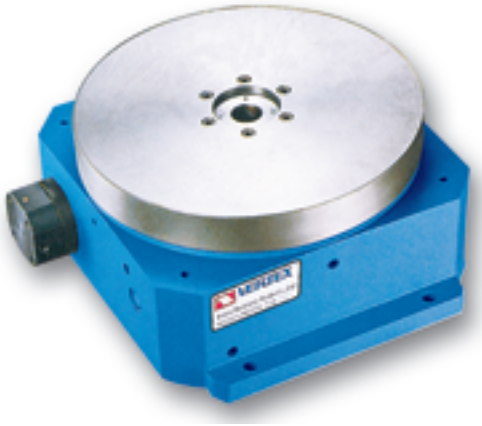
Super Horizontal Hydraulic Feed Indexer

HORIZONTAL TYPE



Precision plane gear plate positioning
For super hydraulic indexer

- Build-in 3 pieces plane gear plate, without lifting up and down during rotating, shorten the indexing cycle.
- Suitable for special-purpose machine M/C for high preecision machining.
- Powerful clamping design

Test Report

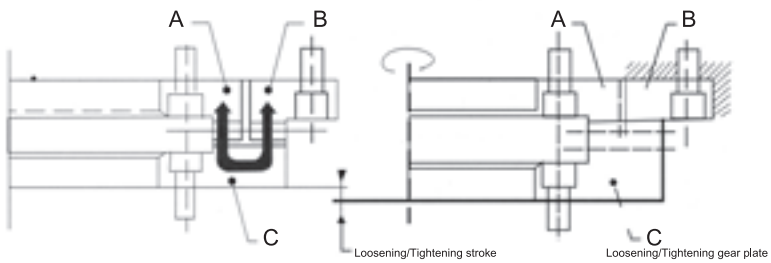
ITEM NO.	TESTING OBJECTIVE	VARIATION(INCHES)(MM) MAXIMUM TESTED	
1	FLATNESS OF CLAMPING SURFACE(CONCAVE)	.0006(0.015)	
2	PARALLELISM OF CLAMPING SURFACE TO BASE	.0008(0.02)	
3	SQUARENESS OF CLAMPING SURFACE TO ANGLE FACE	.0008(0.02)	
4	TRUE RUNNING OF CLAMPING SURFACE	.0006(0.015)	
5	TRUE RUNNING OF CENTER HOLE (1)MEASURED AT HOLE EDGE (2)MEASURED AT ARBOR 4-IN.LONG	(1).0008(0.02) (2).0012(0.03)	(1) (2)
6	INDEXING ACCURACY OF DIRECT INDEXING MECHANISM MAXIMUM CUMULATIVE SPACING ERROR	±5"	

- Super indexer is within ±5 sec.
  Because is applies high precision horizontal gear plate to assemble. It may maintain super fine after lone time operation .
- When the plate is in revolution, there is no ascending/ descending movement, therefore, the main body of the cutting table will not absorb the cutting chips and cutting water.
- Cutting water resistance mechanism
  The plate has no ascending /descending mechanism and the sturdy sealing structure will prevent great amount of cutting water from permeating into the internal at the site to ensure safe operation.
- Strong clipping force to enable heavy cutting
  Super strong rigidity structure, high difficulty cutting material or all angles heavy cutting can all be fully developed.
- Ample accumulating loading and revolution inertia instant value (TS)
  apply high revolution torque and smooth biffing design which may load high accumulating weight, while the smooth cutting movement may provide the machine with stable precision and long life.

Three-plate type plane gear plate cutting table movement principle

- As illustrated, the three-plate plane gear plate can be divided into three parts, A gear plate(lock above the revolution plate) B gear plate(lock on the cutting table base), C gear plate(loosening/ tightening movement). The three pieces are combined together tightly.
- As Fig.b illustrated, when C gear plate is descending, the cutting table instantly turn to loosening condition, gear plate A supported tightly by bearing so that it can smoothly and precisely revolve on the revolution table when ascending is not required.
- When A gear plate completes cutting and reach the positioning site, C gear plate will move upwardly to combine A and B gear plates. It is shown on Fig.d. which from a high precision structure.
- C gear plate has sufficient width to combine A and B gear plates and precisely to line up A and B gear plates, the pressure angle of each gear plate is 30 degree. We assure you the longer you use the more the precision.

(Fig.a) (Fig.b)



SUPER HYDRAULIC FEED INDEXER SPECIFICATION

ORDER NO.	VNCI-340	VNCI-470	VNCI-600	VNCI-800
Revolution table diameter	Ø340	Ø470	Ø600	Ø800
Overall height	210	240	260	300
Central standard hole	Ø65H6(D)11	Ø90H6(D)11	Ø110H6(D)11	Ø120H6(D)40
Central through hole	30.5	40.5	53	80
Quantity of cutting(equal dividing)	[Standard] 4,6,8,12,24 equal divided. one of which division for your choice. [Spacial spec.] 2,3,5,9,10 accept customer requirment.			
Fine degree of cutting	±5 sec.			
Both available for clockwise and counter clockwise	Fine degree of cutting			
Revolution table revolving torque(kg.m²)	60	80	100	280
Allowable load weight	500kg	700kg	1250kg	2400kg
Allowable instant inertia GD(kg.m²)	85	180	500	1200
Clamping force(kg)	1560	3970	7916	11300
Applied pressure(kg/cm²)	30	30	35	35
Main machine body positioning method	For horizontal use, plate face upward.			
Machine weight(kg)	98	250	550	1000
CODE NO.	4003-016	4003-017	4003-018	4003-019