



GEAR RACK WINDING HEADS FOR VARIABLE TRANSFORMERS

Precision Coil Winding Machines



WINDING HEAD VC2



WINDING HEAD VC3



WINDING HEAD VC3.5



WINDING HEAD VC4

WINDING HEAD DATA	VC2		VC3		VC3.5		VC4	
	mm	Inch/AWG	mm	Inch/AWG	mm	Inch/AWG	mm	Inch/AWG
WIRE RANGE(W_V-CHEVY)	0,2 - 1,4	32 - 15/11	0,4 - 2,38	26 - 12	0,4 - 3,0	26 - 9	0,4 - 3,5	24 - 9
MAGAZINE DIAMETER	210	8,65	220	8,65	310	12,2	340	13,39
FINISHED CORE OD	25 - 254	1,0 - 10,0	25 - 300	1 - 12	40 - 500	2 - 20	25 - 500	2 - 20
FINISHED CORE ID	17	0,7	25	1,0	25	1,0	25	1,0
FINISHED CORE HEIGHT	80	3,15	100	3,93	135	5,31	150	5,9
MAX. WINDING SPEED RPM	240		200		170		140	
COMPATIBLE ROLLER TABLES	VC222 (25 - 150)		VC222 (25 - 150)		VC222-V (40 - 150)		VC222-V (40 - 150)	
	VC222-V (40 - 150)		VC222-V (40 - 150)		VC222-V (40 - 150)		VC222-V (40 - 150)	
	VC332 (60 - 300) S(60 - 500)		VC332 (60 - 300) S(60 - 500)		VC332 (60 - 300) S(60 - 500)		VC332 (60 - 300) S(60 - 500)	

MAGAZINE LIST & WIRE LENGTH & FINAL COIL ID

Magazine Type	Final hole diameter	Final hole for biggest height	0,1	0,2	0,32	0,4	0,5	0,6	0,71	0,9	0,9	1,0	1,12	1,25	1,32	1,4	1,5	1,6	1,7	1,8	1,9	2,0	2,12	2,24	2,36	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
VC2/12	17	0,669	34	0,848	186	97	88	33	22	17	13	17	8,1													
18	18	0,708	36	1,023	207	111	94	42	30	21	17	14	11	8,6	8	7	8									
21	21	0,827	39	1,142	289	195	107	70	50	36	28	23	19	10	14	11,5	10									
24	24	0,946	41	1,22	344	256	147	97	68	50	38	32	28	22	18	15,8	14									
28	28	1,102	45	1,378	407	305	210	144	100	74	58	40	40	33	28	23	20									
33	33	1,310	48	1,576	510	318	200	200	140	100	80	65	54	44	40	32	28									
40	40	1,575	50	2,062	722	385	267	217	168	126	100	85	80	61	48	44										
60	60	2,036	75	2,803	1169	533	336	302	228	179	147	118	95	88	70											
VC3/20	25	0,984	36	1,378	184	108	88	49	35	28	22	18	14	12												
26	26	1,102	38	1,498	214	161	118	63	47	36	31	25	22													
30	30	1,252	40	1,678	260	200	130	80	58	42	36	30	27	26	18	16	14									
36	36	1,39	49	1,828	308	264	131	134	100	77	61	50	40	38	30	28	25	20	18,5	18	14	13	11			
37	37	1,498	52	2,041	318	214	173	140	111	81	78	62	58	44	39	33	28	28	23	20	18	16	14			
45	45	1,675	62	2,387	388	238	200	148	118	93	78	63	57	48	39,5	34	30	27	24	21	18	17				
50	48	1,811	65	2,168	427	22	208	164	130	106	85	76	62	58	48	42	38	34	30	27	24					
60	48	1,88	67	2,244	427	22	208	164	130	106	85	76	62	58	48	42	38	34	30	27	24					
70	54	2,165	68	2,528	480	244	208	164	130	106	85	76	62	58	48	42	38	34	30	27	24					
80	65	2,56	75	2,35	583	312	268	202	140	107	88	78	63	58	48	42	38	34	30	27	24					
90	77	3,037	80	3,148	627	328	272	212	147	111	91	81	67	58	48	42	38	34	30	27	24					
100	100	3,027	108	3,937	688	330	280	220	150	110	90	80	67	58	48	42	38	34	30	27	24					
VC3/30	35	1,376	50	2,283	250	180	130	105	81	67	55	48	38	34	31	27	23	20	18	16	14	13	11			
38	45	1,712	62	2,441	314	200	160	120	90	76	68	62	52	46	41	36	30	28	25	22	20					
40	45	1,865	68	2,376	330	200	160	120	90	76	68	62	52	46	41	36	30	28	25	22	20					
50	45	2,060	78	3,071	370	210	164	124	94	77	68	60	50	40	36	32	28	24	21	18	17	15	14			
60	70	2,963	90	3,534	420	240	180	130	100	80	70	60	50	40	36	32	28	24	21	18	17	15	14			
90	85	3,541	98	3,888	480	240	180	130	100	80	70	60	50	40	36	32	28	24	21	18	17	15	14			
VC4/20	25	0,984	40	1,378	88	68	50	40	30	28	22	18	14	12	10	9	8	7	6,4							
30	30	1,102	42	1,772	170	130	97	68	55	48	38	30	26	22	18	16	14	13	11							
36	30	1,181	48	1,888	180	130	97	77	67	50	40	38	30	26	22	18	16	14	13							
40	30	1,310	50	2,263	200	140	118	80	74	60	51	42	38	34	30	28	25	22	20	18	17	15	14			
45	40	1,570	50	2,463	230	160	128	98	81	67	58	51	45	40	36	32	28	25	22	20						
50	45	1,772	62	2,441	254	180	130	100	77	68	60	50	40	36	32	28	25	22	20							
60	55	2,165	68	2,578	280	180	130	100	80	70	60	50	40	36	32	28	25	22	20							
60	60	2,365	72	2,978	300	200	140	110	80	70	60	50	40	36	32	28	25	22	20							
70	60	2,640	78	3,371	330	200	140	110	80	70	60	50	40	36	32	28	25	22	20							
80	70	3,065	80	3,544	350	210	150	110	80	70	60	50	40	36	32	28	25	22	20							
90	80	3,347	88	3,888	380	220	160	120	90	80	70	60	50	40	36	32	28	25	22	20						
100	110	4,337	108	5,178	410	230	170	120	90	80	70	60	50	40	36	32	28	25	22	20						
120	118	4,83	128	5,321	450	240	180	130	100	90	80	70	60	50	40	36	32	28	25	22	20					

V&C Machinery Sales GmbH (Head Office and Works in Germany)
 Dr.-Wintrich-Str.16
 85560 Ebersberg Germany
 Tel:+49-8092-232020-3 Fax:+49-8092-232020-4
 Email:info@vc-machinery.eu

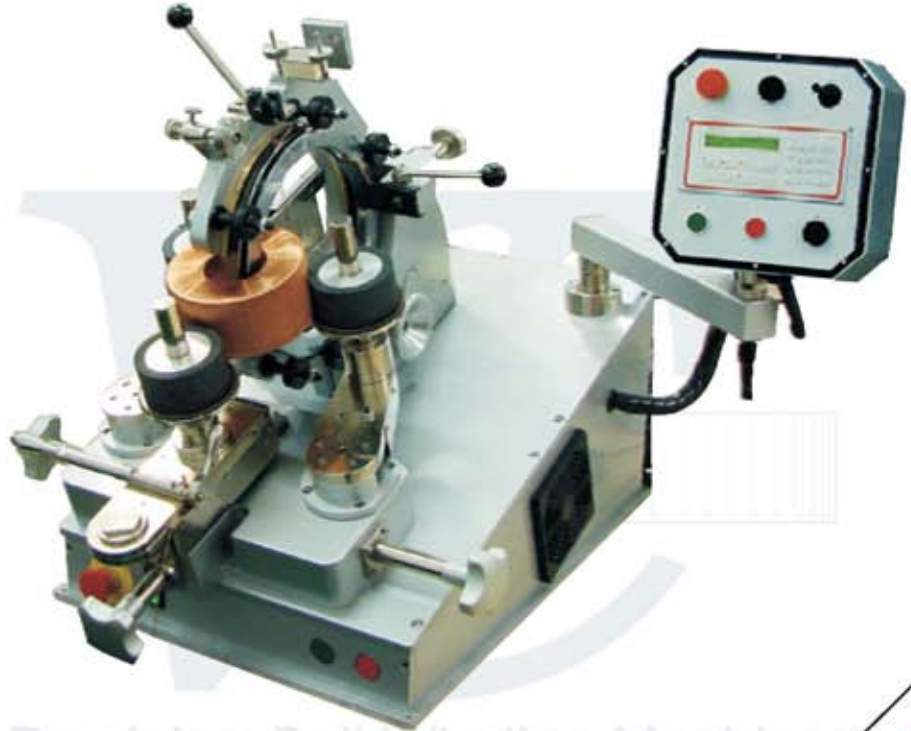
V&C Machinery Sales Ltd (Sales Office in HK)
 Suite 2001, Marna House,
 68 Hing Man Street, Sai Wan Ho, Hong Kong
 Tel:+49-8092-232020-3 Fax:+49-8092-232020-4
 Email:info@vc-machinery.eu



Toroidal Winding Machine for Variable Transformers



Precision Coil Winding Machines



Precision Coil Winding Machines

VC-STANDARD Machine Series





Guide plate with adjustable guide finger according to core size



Segment Holder for Variable Transformers



Wire guide finger



Wire guide plate for accurate placement of each winding turn

Optional pneumatic brake: Better control of wire tension by air brake system with fine adjustment

More efficient use of the operator by fully programmable operating

Many different gear rack winding heads available for small or big wire sizes

Very fine programmable pitch in 0.001 increments

Special rubber rollers for smooth transport

Electronic controller with many practical functions such as wind/unwind, special start, pitch change and so on

Many different roller tables for small or big core size

Unit construction design for fast service and conversion to new machine combination

Two servo motors for continuous hold and speed of pitch

TECHNICAL DATA

CONTROLLER:
MICROPROCESSOR CONTROLLER

DISPLAY:
LCD-DISPLAY WITH BACKGROUND ILLUMINATION: CONTINUOUS READ OUT OF OPERATION DETAILS

PROGRAM CAPACITY:
THE CAPACITY IS VARIABLE, I.E. :
8000 PROGRAMS WITH 1 SEQUENCE
200 PROGRAMS WITH 40 SEQUENCES
1 PROGRAM WITH 8000 SEQUENCES

PROGRAMMING:
USER FRIENDLY TEXT COMMANDS

DATA MEMORY AND OUTPUT:
INTERFACE FOR PC
INTERFACE FOR SOFTWARE UPDATES

WINDING SPEED:
UP TO 1800 RPM
SEPARATELY PROGRAMMABLE LOAD SPEEDS
SEPARATELY PROGRAMMABLE WIND SPEEDS

CORE DRIVE:
SERVO MOTOR 0,30 KW.

WIRE PITCH CONTROL:
FULLY AUTOMATIC PITCH CHANGE

CORE INDEX & REVERSE CONTROL:
FULLY AUTOMATIC

ACCELERATION & DECELERATION:
FULLY AUTOMATIC

STOPS FOR TAPS:
AUTOMATIC

SECTOR & BANK WINDING CONTROL:
FULLY AUTOMATIC

WINDING HEAD DRIVE:
SERVO MOTOR 0,8 KW

SUPPLY VOLTAGES:
230 (110 AND 240) VOLT, 50 HZ AC

MACHINE SIZE AND WEIGHT:
800x700 MM, 150 KG NET, 200 KG GROSS

V&C Production Advantages
Programming in less than 1 minute- with the new V&C Quick Programming System that needs the programming of major functions only (Load turns, Wind turns, Pitch) while retaining all programmable functions known today in the toroid winding industry.
Machine set up in less than 1 minute- with the V&C Teach-in System that enables pitch and speed adjustment during winding with automatic saving of the improved value.

PRODUCTION	mm	Inch/AWG
Single wire size	0,05 - 2,5	44 - 11
Bifilar wire size	2 x 1,8	2 x 13 ₀₀
Finished Core O.D.	5,0 - 300	0,2 - 12
Finished Core I.D.	From 1,5	From 0,06
Finished Core Height	Up to 150	Up to 5,9
Tape Size	4 - 30	0,05 - 1,18

V&C Production Advantages
Perfect machine control- with 3 standard speed control options: Foot-pedal or Hand-control or Start-automatic for selection of the most suitable control system for your application.
Change program - with the new Quick programming knob you have immediate access to all parameters.

