

작업공정사진철

고객명: (주)

공사명: 제강 30Ton전기로 전극 승하강 MOTOR

규격: VECTOR(SERVO MOTOR) 380V 1500RPM

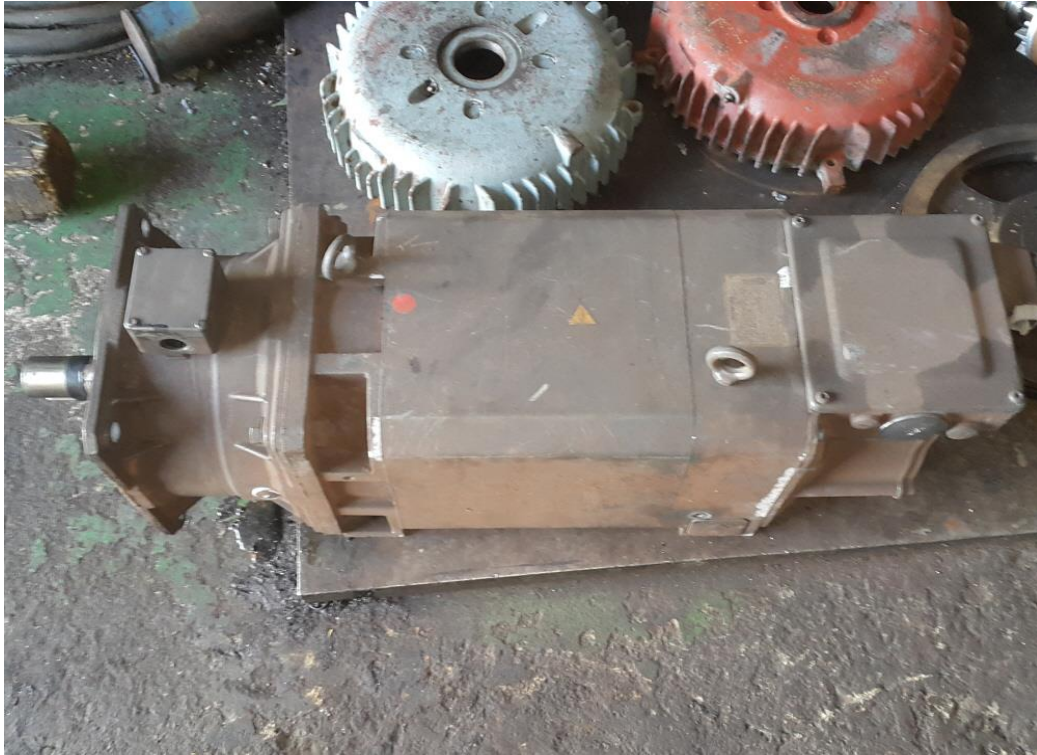
REPAIR 내역: 분해 및 불순물 CLEANSING DRYING
INSULATING VARNISH DIPPING DRYING
부하측 & 반부하측 HOUSING METALLIZING 연마
BEARING교환
입 출고검사 시운전 TEST 및 COLOR PAINTING



<http://jinyangmotor.com/>



JIN YANG	작업 공정 사진
작업공정	VECTOR MOTOR 입고검사



Ass'y	분해 전
작업공정	VECTOR MOTOR 입고검사



권선검사	BRAKE 정류기 소손
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JIN YANG	작업 공정 사진
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작업공정	VECTOR MOTOR 입고검사
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냉각구	냉각 흡입구 분진고착으로 막힘
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냉각 흡입구 분진 청소가 있어야 될것으로 사료됨

작업공정	VECTOR MOTOR 입고검사
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Ass'y	BRAKE분리 및 MOTOR 분해 실시
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JIN YANG

작업 공정 사진

작업공정

VECTOR MOTOR 입고검사



권체

분해 실시

작업공정



VECTOR MOTOR 입고검사





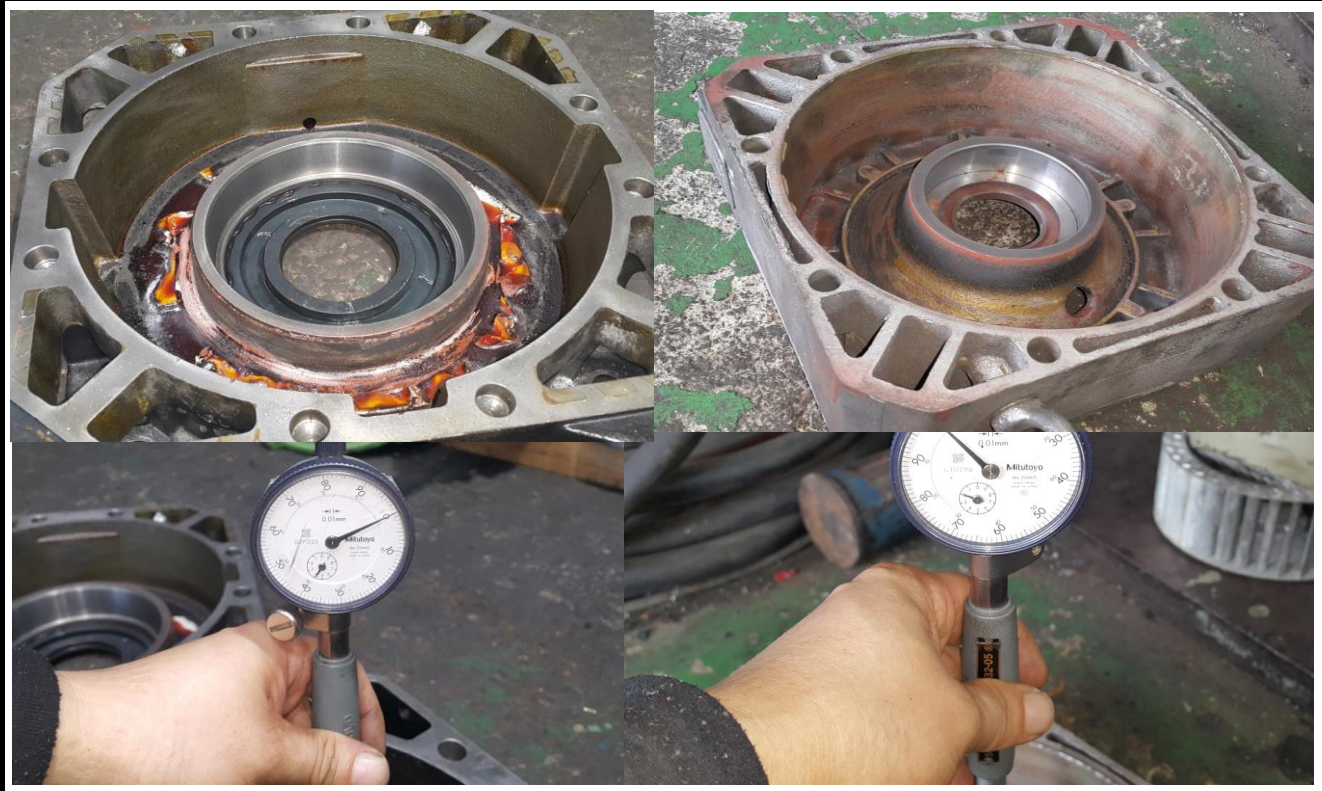

권체

권선상태 양호

JIN YANG	작업 공정 사진
작업공정	VECTOR MOTOR 입고검사
	
BRACKET	부하측 & 반부하측 HOUSING 측정치 5/100로 불량
작업공정	VECTOR MOTOR OVERHAUL
	
STATOR 권체	세척 실시

JIN YANG	작업 공정 사진
작업공정	VECTOR MOTOR OVERHAUL
	
조립부품	세척 실시
작업공정	VECTOR MOTOR OVERHAUL
	
권채	세척 후 건조실시

JIN YANG	작업 공정 사진
작업공정	VECTOR MOTOR OVERHAUL
	
소모품	BEARING교환 실시
작업공정	VECTOR MOTOR OVERHAUL
	
Ass'y	예열조립실시

JIN YANG	작업 공정 사진
작업공정	VECTOR MOTOR OVERHAUL
	
BRACKET	부하측 & 반부하측 HOUSING METALLIZING 연마 후 검사 0/100
작업공정	VECTOR MOTOR OVERHAUL
	
소모품	BRAKE정류기 교환

JIN YANG

작업 공정 사진

작업공정

VECTOR MOTOR OVERHAUL



출고검사

절연저항 & 각상별 권선저항

작업공정

VECTOR MOTOR OVERHAUL



출고검사

FAN MOTOR 절연저항 & 각상별 권선저항

JIN YANG

작업 공정 사진

작업공정

VECTOR MOTOR OVERHAUL



출고검사

FAN MOTOR 5회감아 실 CURRENT 0.2A

작업공정

VECTOR MOTOR OVERHAUL



출고검사

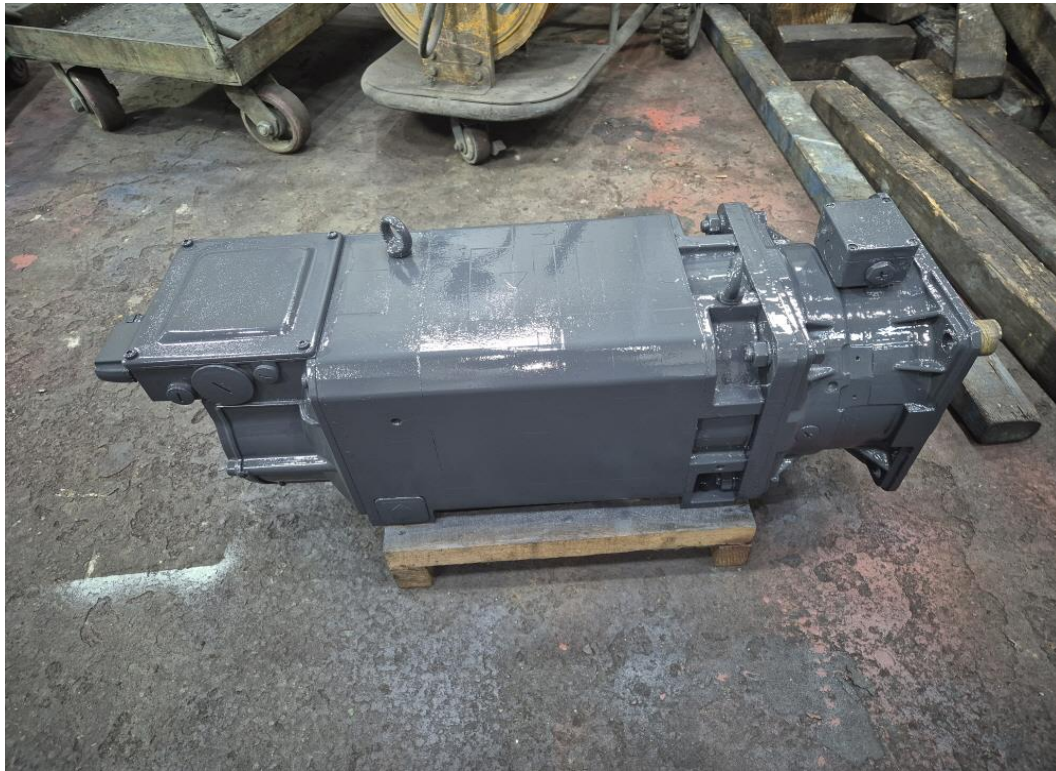
시운전 TEST 실시

JIN YANG

작업 공정 사진

작업공정

VECTOR MOTOR OVERHAUL



출고검사 후

COLOR PAINTING

작업공정

VECTOR MOTOR OVERHAUL

STARTER - DONG JU - [Drive_unit_1.VECTOR_03 - Configuration]

Project Edit Target system View Options Window Help

Display data set switchover Drive data set: DDS 0 (Active) Command data set: CDS 0 (Active)

Configuration | Drive data sets | Command data sets | Units | Reference variables - setting | Blocked list - setting

Name: VECTOR_03 Drive objects type: [12] VECTOR
 Drive object no.: 3 Control type: [21] Speed control (with encoder)
 Function extensions: Function modules / tech. packages... PROFIdrive telegram: [999] Free telegram configuration with BICO

VECTOR_03.Motor_Module_3 (Power_unit)		VECTOR_03.Encoder_5 (Encoder 1)	
Component number:	3	Component number SMx:	4
Power unit type:	Single motor module	Encoder evaluation:	SMI20_4
Order no.:	6SL3120-1TE32-0AA4	Type:	SMI20/DQI
Power unit rated current:	200.00 Arms	Order no.:	6SL3055-0AA00-5MA3
Power unit rated power:	75.00 kW	DRIVE-CLiQ	
Current power unit operating values		Identification via LED	
DRIVE-CLiQ		Enc. type: rotary, [2002] 2048, 1 Vpp, A/B R	
Identification via LED		Order no.: 1PH7xxx-xQxxx-xxxx	
VECTOR_03.Motor_SMI_6 (Motor)		Resolution: 2048	
Mot. type:	[107] 1PH7 induction motor	Encoder data set number: 0	
Order no.:	1PH7137-2QF33-1KA3		
Speed:	1500.0 rpm		
Current:	54.00 Arms		
Power:	22.00 kW		
Voltage:	308 Vrms		
Brake available:	No		
Motor data set number:	0		
Reference variables			
Reference speed:	1500.0 rpm		
Reference voltage:	1000 Vrms		
Reference current:	81.00 Arms		

...22: 3 CDS: 0 (Activ) DDS: 0 (Activ) MDS: 0 (Active)

Project A_INF_02 VECTOR_03

MOTOR

NAMEPLATE DATA

시운전 TEST 실시 운전 MONITORING

STARTER - DONG JU - [Drive_unit_1.VECTOR_03 - Expert list]

Project: Control panel | Edit: Target system | View: Options | Window: Help

Expert list

Parameter list:

Param...	Data	Parameter text	Online value	VECTOR_03	Unit	Modifiable to	Access level	Minimum	Maximum
1 2	All	Drive operating display	[0] Operation - everything -	All		All	All		
2 20 p5[0]	All	BOP operating display selection, Parameter number	2	All		All	All	65535	
3 p6	All	BOP operating display mode	[4] p0005	All		All	All		
4 p10	All	Drive commissioning parameter filter	[0] Ready	All		All	All		
5 BOP.p1[3][0]	All	BOP user-defined list	0	All		All	All	65535	
6 p15	All	Macro drive object	0	All		All	All	999999	
7 f20	All	Speed setpoint smoothed	1500.0	All	rpm	All	All		
8 f21	All	CO: Actual speed smoothed	1500.0	All	rpm	All	All		
9 f22	All	Speed actual value rpm smoothed	1500.0	All	rpm	All	All		
10 f24	All	Output frequency smoothed	50.0	All	Hz	All	All		
11 f25	All	CO: Output voltage smoothed	290.4	All	Vrms	All	All		
12 f26	All	CO: DC link voltage smoothed	600.6	All	V	All	All		
13 f27	All	CO: Absolute actual current smoothed	22.57	All	Arms	All	All		
14 f28	All	Modulation depth smoothed	68.3	All	%	All	All		
15 f29	All	Current actual value field-generating smoothed	22.52	All	Arms	All	All		
16 f30	All	Current actual value torque-generating smoothed	1.64	All	Arms	All	All		
17 f31	All	Actual torque smoothed	4.19	All	Nm	All	All		
18 f32	All	CO: Active power actual value smoothed	0.73	All	kW	All	All		
19 f33	All	Torque utilization smoothed	2.0	All	%	All	All		
20 f35	All	CO: Motor temperature	40.2	All	°C	All	All		
21 f36	All	CO: Power unit overload I2t	0.0	All	%	All	All		
22 B1-f7[0]	All	CO: Power unit temperature, Inverter, maximum value	25	All	°C	All	All		
23 f38	All	Power factor smoothed	0.07	All		All	All		
24 f39	All	Energy consumption	2.21	All	kWh	All	All		
25 p40	All	Reset energy consumption display	0	All		All	All	0	1
26 p45	All	Smoothing time constant, display values	1.00	All	ms	All	All	0	1000
27 B1-f46	All	CO: B1: Missing enable sig	0H	All		All	All		
28 f47	All	Motor data dent, routine and speed controller optimization	[0] No measurement	All		All	All		
29 B1-f49[0]	All	Motor data sensor/encoder data set effective, Motor Data Set: MDS effective	0	All		All	All		

Project: VECTOR_03

Drive_unit_1.VECTOR_03

Give up control priority

DDI: 0 | DDI: 0

in setpoint specification: n = 1500 rpm

0% n x 103 % = 200%
1500.00 rpm

Enables available

[0] Operation - everything enabled

Speed: Specified 1500.0 rpm, Actual 1500.0 rpm

Torque: Specified 4.44 Nm, Actual 4.30 Nm

Output frequency smoothed: 50.0 Hz

CO: Output voltage smoothed: 290.6 Vrms

Motor current: 22.47 Arms

Torque utilization: 2.0 %

Control panel | Target system output | Load to FG output | Diagnostics overview

Press F1 to open help display.

Control priority: Drive control panel - stop with spacebar | Realtek USB GbE Family Controller: TCP Online mode

오류 1:19 | 2025-08-28