



SAYAL CRANE systems

PRESENTATION

ELECTRIC WIRE ROPE HOIST

PORTAL CRANES



POWERFUL LIFTING PARTNER

OVERHEAD TRAVELLING CRANES

PROCESS CRANES



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OVERHEAD TRAVELLING CRANES **PROCESS CRANES** **PORTAL CRANES**

ELECTRIC WIRE ROPE HOIST

PROCESS CRANES **PORTAL CRANES** **ELECTRIC WIRE ROPE HOIST**

PORTAL CRANES **OVERHEAD TRAVELLING CRANES**

OVERVIEW

SAYAL Crane Systems® established since 2000 and we are specialized in engineering, manufacturing, installation and after sale support of **Overhead Travelling Cranes (EOT)** and **Lifting Equipment**.

SAYAL Crane Systems® has been able to take its place among the top prestigious corporate sector with high quality products, experienced work force and customer satisfaction. With 8600 m² modern production facility includes; precision machining, lifting equipment installation, testing units, oven bake paint boot unit and steel construction – **Robotic welding units**.

SAYAL Crane Systems® continues investments and **R&D operations** permits to build safer and technologically advanced products. Our contributions add to its value, to our region and to our country. We have accomplished this with the acquisition of technology and Engineering Developments.

Our Product Range includes:

- **Electrical Hoists**
- **Overhead Travelling Cranes (EOT)**
- **Portal / Gantry Cranes**
- **Jib Cranes**

- **Process Cranes**
- **End-Carriages**
- **Automation (PLC) Systems**
- **Special Lifting Equipment**
- **Transfer Carts**

PRODUCTION PARTNERS

LIFTING MOTOR	:	ABM [®] Greiffenberger	Germany
LIFTING GEAR BOX	:	ABM [®] Greiffenberger	Germany
LIFTING BRAKE	:	ABM [®] Greiffenberger	Germany
TROLLEY MOTOR	:	WAT-TEE [®] (ARÇELİK [®])	Turkey
TROLLEY GEAR BOX	:	PGR [®]	Turkey
TROLLEY BRAKE	:	TEMPORITI [®]	Italy
HOOK SYSTEM	:	GÜNEŞ [®] MAKİNE	Turkey
ROPE	:	HAS ÇELİK [®]	Turkey
PENDANT WITH CABLE	:	TELEMECANIQUE [®]	France
SWITCHGEAR EQUIPMENT	:	WEIDMÜLLER [®]	Germany
INVERTERS	:	SCHNEIDER [®]	France
INVERTERS	:	mitsubishi electric [®]	Japan
BUSBAR SYSTEM	:	STEMMANN TECHNIK [®]	Germany
WIRELESS CONTROLLER	:	TELE-RADIO [®]	Sweden
WIRELESS CONTROLLER	:	HBC RADIOMATIC [®]	Germany
SENSORS	:	SICK [®]	Germany
ELECTRO HYDRAULIC BRAKE	:	GALVI [®]	Italy
LOAD-CELL	:	CAS [®]	South Korea



CERTIFICATES



MACHINERY DIRECTIVES

Codes & Standards

SAYAL Crane Systems® in compliance with the harmonized standards **UNI-EN292 part 1, Item 3.20 and Part 2, Item 5.**

Our Hoists are manufactured in compliance with the **Machinery Directive 98/37/EEC.**

The components of the hoist comply with the requirements of the Directive and the CE Mark confirms the conformity of the whole equipment.

SAYAL Crane Systems® Hoists produced under a registered quality control system approved to EN ISO 9002, with issue from the certification of following international certificates:

Machinery Directive 89/392/EEC with successive amendments: 91/368/EEC, 93/44/EEC and 93/68/EEC.

The construction of standard hoists is performed in compliance with following rules:

- Directive 73/23 EEC "Low voltage electric equipment";
- Directive Electromagnetic compatibility 89/336/EEC;
- EN 292 Part 1 and 2 Safety of machines;
- EN 60529 IP Protection classes;
- EN 12077-2 Limiting and indicating devices;
- ISO 4301 Cranes and lifting appliances - Classification;
- ISO 4308-1 Rope selection;
- UNI 7670 Mechanisms for lifting appliances - Instructions for design;
- FEM 1001 Rules for the design of hoisting appliances;
- FEM 9.511 Rules for the design of serial lifting equipment; Classification of mechanisms;
- FEM 9.661 Rules for the design of serial lifting equipment; Dimensions and design of rope reeving components;
- FEM 9.683 Selection of lifting and travel motors;
- FEM 9.755 Measures for achieving safe working periods for motorized serial hoist units (S.W.P.);
- FEM 9.761 Lifting force limiters for controlling the loading on motorized series hoist mechanisms;
- FEM 9.761 Test specifications for electric hoists

PRODUCTS



SAYAL Crane Systems® is a quality manufacturer of Monorail, Trolley hoists and overhead traveling cranes (EOT) for wide range of lifting applications from the **Light Duty to Severe Industrial** work conditions.

- Utilizing the latest technology, **SAYAL Crane Systems®** line of Heavy Duty Electric Wire Rope Hoists and Cranes are manufactured to provide a high performance lifting system.
- Our products are in more than 20 countries worldwide for 100's of different applications.
- **SAYAL Crane Systems®** are heavy-duty workload designed with low maintenance requirements.

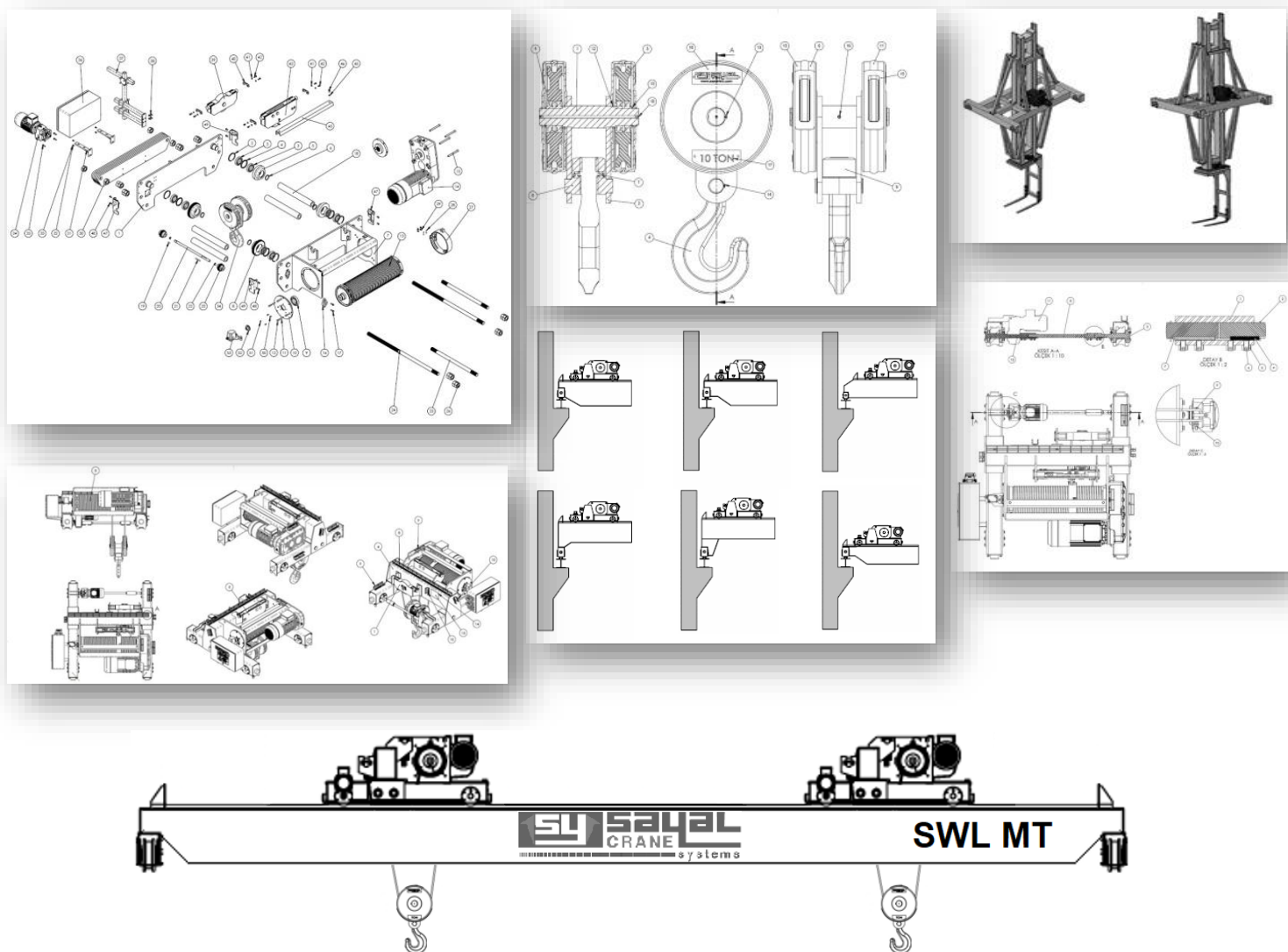
ENGINEERING

SAYAL Crane Systems® Hoist / Girder construction start with initial Engineering phase that consist of all analytical calculations and material selection, followed by 3-D design of the actual project to conclude all with computer aided structural tests to optimize best results for both the longevity of the structure and safety.

All material selection according to according F.E.M. standard 1.001 3rd EDITION REVISION 1998.10.01.

Material of structural plates will be selected according to static calculations and stress analysis with help of state of the art computer aided design.

Once the analysis completed your material selection (S235, S275, S355 according to EN 10025) completed according to all safety and crane manufacturing regulations.



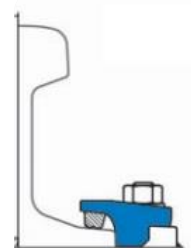
PRODUCTION

SAYAL Crane Systems® with 8600 m2 modern production facility includes;

Precision machining, lifting equipment installation, testing units, oven bake paint boot unit and steel construction – **SAW with Robotic welding units.**



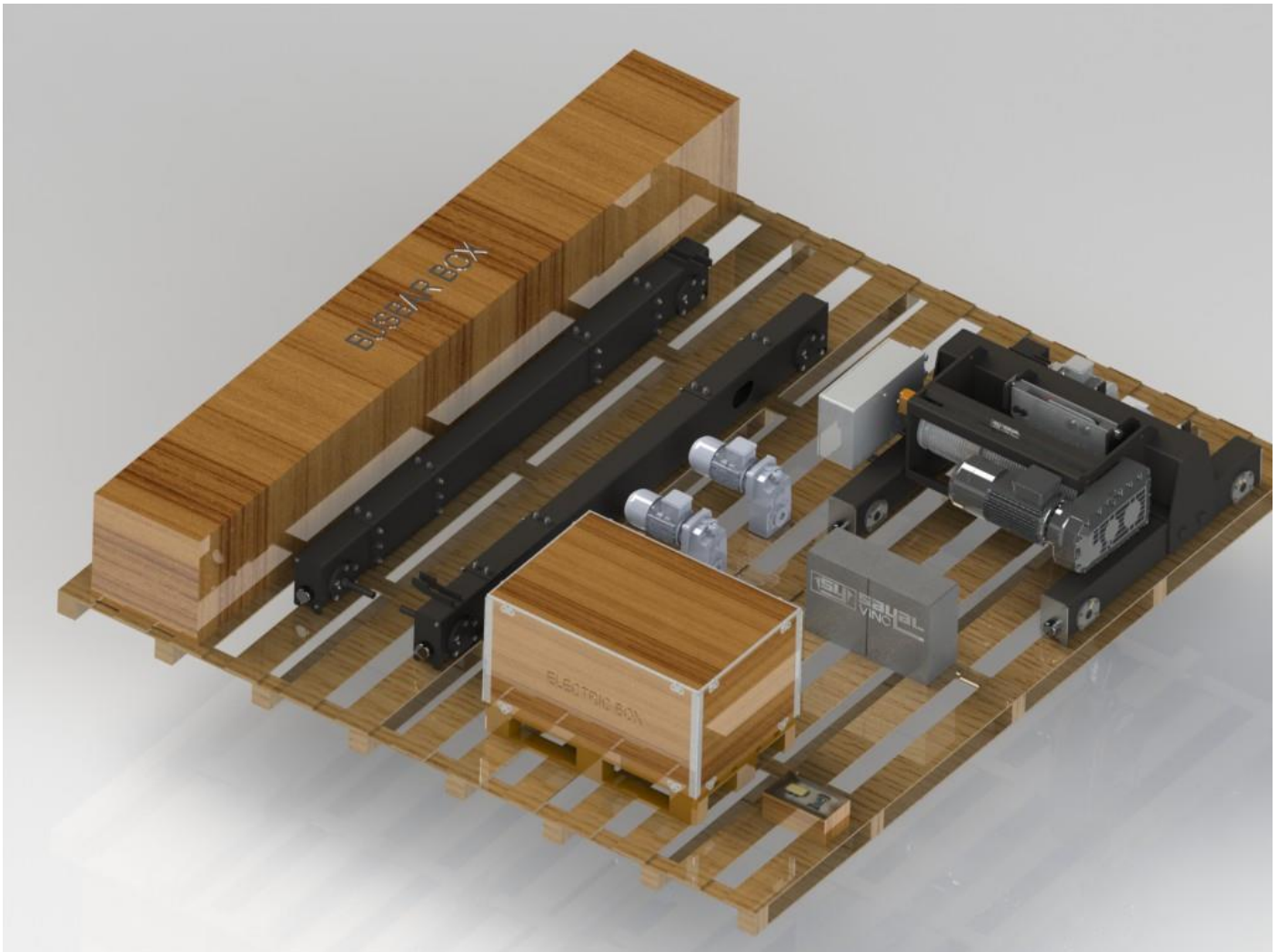
OPTIONS



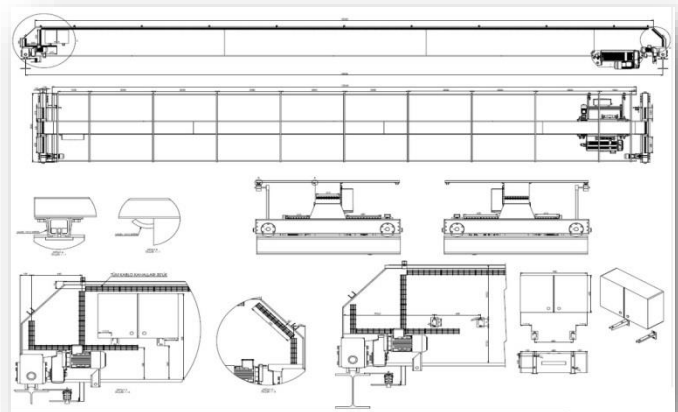
REMOTE CONTROLS



CRANE KITS

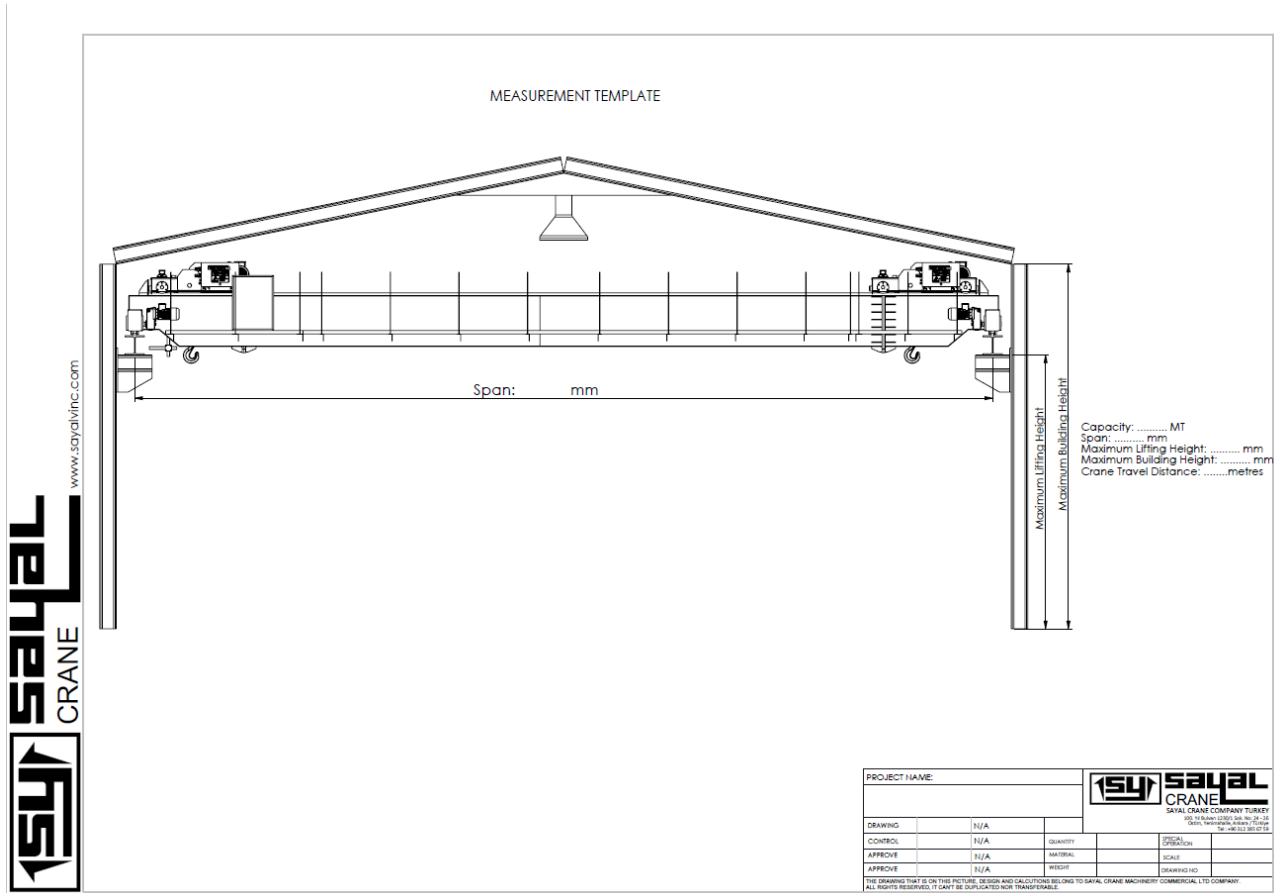


- Hoist
- End Carriages and gear box
- Electrical Panel
- Bus-bar and Equipment
- Electric Crate (festoon line, c profile, cable & other attachments)
- Pendant Button
- Remote control*



(*) optional units with wide range of selection (**) Design assistance

MEASUREMENTS



ÇİFT KIRIŞ GEZER KÖPRÜLÜ VİNÇ TALEP FORMU

SAYAL VİNÇ

TALEP EDEN
 Müşteri / Firma:
 Adres:
 Telefon:
 Fax:
 E-mail:
 Yetkili:

RESİM EKLENECEK.

GENEL BİLGİLER	Çift Kiriş Gezer Köprülü VİNÇ	Tk kutusu	Çalışma Sınıfı	
	Tek Kiriş Gezer Köprülü VİNÇ	Tk kutusu	Çalışma Oranı	
	Adet		Max. Sıcaklık	
TEKNİK BİLGİLER	Kaldırma Kapasitesi, Q	1000 kg	VİNÇ YÜRÜME YOLU (KIRIŞ) Hİ	Besek
	Kaldırma Yüksekliği, H	10 metre	Kolonlar Arası Mesafe, L1	YAZINIZ
	Kiriş Açıklığı, S	YAZINIZ	Çalışma Alan Yüksekliği, H2	YAZINIZ
	Hol Uzunluğu, L	YAZINIZ	Ray Göçü (Mevcut İse), R	YAZINIZ
OPSİYONEL SEÇİMLER	Enerji Besleme Tipi	YAZINIZ	Senkronizasyon	Tk kutusu
	Hol Boyu Çarpımına Sensör	Tk kutusu	Özel Boya Rengi	Tk kutusu
	Uzaktan Kumanda	Tk kutusu	Firma Logosu	Tk kutusu
	Yavaşlık Kontrolü	Tk kutusu	VİNÇ RAY TALEBİ	Tk kutusu
	Kontrol Kabini	Tk kutusu	Çelik Montaj Valfi	Tk kutusu
	Dijital Yük Göstergesi Ekranı	Tk kutusu	Çelik Kolon Talebi	Tk kutusu
NOT	Diğer açıklama ve notlar:			

PERGEL VİNÇ TALEP FORMU

SAYAL VİNÇ

TALEP EDEN
 Müşteri / Firma:
 Adres:
 Telefon:
 Fax:
 E-mail:
 Yetkili:

GENEL BİLGİLER	Pergel VİNÇ Tipi		Çalışma Sınıfı	
	Max. Sıcaklık	YAZINIZ	Adet	YAZINIZ
TEKNİK BİLGİLER	Kaldırma Kapasitesi, Q	1000 kg	Dönme Açısı	180°
	Kaldırma Yüksekliği, H	7 metre	Dönme Mekanizması	Özmatlı (Başlıklar) ya da
	Pergel Kol Boyu, S	YAZINIZ	Max yükseklik, H1	YAZINIZ
OPSİYONEL SEÇİMLER	Uzaktan Kumanda	Tk kutusu	Senkronizasyon	Tk kutusu
	Joystick Kontrol	Tk kutusu	Özel Boya Rengi	Tk kutusu
	Dijital Yük Göstergesi Ekranı	Tk kutusu	Ankraj Talebi	Tk kutusu
NOT	Diğer açıklama ve notlar:			

PORTAL ve YARI PORTAL VİNÇ TALEP FORMU

SAYAL VİNÇ

TALEP EDEN
 Müşteri / Firma:
 Adres:
 Telefon:
 Fax:
 E-mail:
 Yetkili:

RESİM EKLENECEK.

GENEL BİLGİLER	Çift Kiriş Portal VİNÇ	Tk kutusu	Çalışma Sınıfı	
	Yarı Kiriş Portal VİNÇ	Tk kutusu	Çalışma Oranı	
	Çift Kiriş Yarı Portal VİNÇ	Tk kutusu	Max. Sıcaklık	
	Tek Kiriş Yarı Portal VİNÇ	Tk kutusu	Adet	YAZINIZ
TEKNİK BİLGİLER	Kaldırma Kapasitesi, Q	1000 kg	Ray portafö (Çalışma)	YAZINIZ
	Kaldırma Yüksekliği, H	10 metre	30l portafö (Çalışma)	YAZINIZ
	Açıklık (Ray merkezi), S	YAZINIZ	Max yükseklik, H1	YAZINIZ
	Hol Uzunluğu, L	YAZINIZ	Ray Göçü (Mevcut İse), R	YAZINIZ
OPSİYONEL SEÇİMLER	Enerji Besleme Tipi	YAZINIZ	Senkronizasyon	Tk kutusu
	Hol Boyu Çarpımına Sensör	Tk kutusu	Özel Boya Rengi	Tk kutusu
	Uzaktan Kumanda	Tk kutusu	Firma Logosu	Tk kutusu
	Yavaşlık kontrolü	Tk kutusu	VİNÇ RAY TALEBİ	Tk kutusu
	Kontrol Kabini	Tk kutusu	Ankraj Talebi	Tk kutusu
	Dijital Yük Göstergesi Ekranı	Tk kutusu	Elektrik Hattı İçin Konsol	Tk kutusu
NOT	Diğer açıklama ve notlar:			

HEAT TREATMENT

All Sayal Crane Systems Wheels are heat treated for better performance and extended product life.



SON KONTROL RAPORU
FINAL INSPECTION REPORT
EN 10204 3.1

09-04-2015 Tesis (Plant): ANKARA

PARÇA BİLGİLERİ (PART DESCRIPTION)

MT/Resim No (Part Heat No): 250419
Parça adı, numarası** (Part name/number):
Malzeme no (Material no): AISI 1050
Adet (Quantity): 7



Müşteri adı (Client Name): SAYAL VİNC MAKİNA SAN. VE TİC. LTD. ŞTİ.
Şarj No (Charge No):

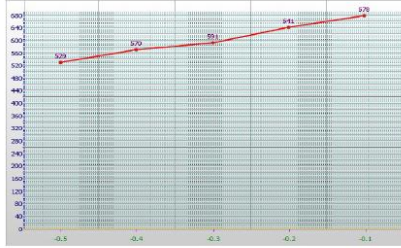
Özellik: YÜZEY SERTLİĞİ
Parametre: 38-40 HRC
İşlem: İSLAH (Q+T)

**KONTROL SONUÇLARI
INSPECTION RESULTS**

Sertlik Aralığı
Min&Max Hardness

Sertlik Ortalaması
Average of Hardness

Ölçüm Adedi
Number of Measurements



AÇIKLAMALAR:	
SONUÇ:	
Onay veren mühendis:	

F13

REV:00



SON KONTROL RAPORU
FINAL INSPECTION REPORT
EN 10204 3.1

20-06-2015 Tesis (Plant): ANKARA

PARÇA BİLGİLERİ (PART DESCRIPTION)

MT/Resim No (Part Heat No): 253205
Parça adı, numarası** (Part name/number):
Malzeme no (Material no): AISI 4140, 42CrMo4
Adet (Quantity): 16



Müşteri adı (Client Name): SAYAL VİNC MAKİNA SAN. VE TİC. LTD. ŞTİ.
Şarj No (Charge No):

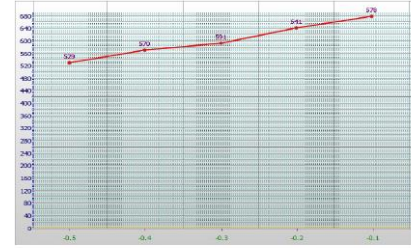
Özellik: YÜZEY SERTLİĞİ
Parametre: 40-45 HRC
İşlem: İSLAH (Q+T)

**KONTROL SONUÇLARI
INSPECTION RESULTS**

Sertlik Aralığı
Min&Max Hardness

Sertlik Ortalaması
Average of Hardness

Ölçüm Adedi
Number of Measurements




AÇIKLAMALAR:	
SONUÇ:	
Onay veren mühendis:	

F13




REV:00



HOOK TESTS



Güneş Makina
Sanayi ve Tic. Ltd. Şti

Muayene Sertifikası **Inspection Test Certificate**

Standartı/Beyanı: 2006/42/EC TS EN 10 204 - 3.1

Sertifika No / Certificate No: 07150103

Tarih / Date: 21.07.2015

İmalatçı Adı ve Adresi / Manufacturer Name & Address: GÜNEŞ MAKİNA SANAYİ VE TİC. LTD.ŞTİ. DES Sanayi Sitesi 106 Sok. B13 No.4 Y. Dudullu, İSTANBUL/TÜRKİYE

İmalatçı No / Manufacturer No: (Empty)

Müşterinin Adı ve Adresi / Name & Address of client: ÇETİN KALDIRMA

Firmamız imalatı olan kanca ve kanca traversleri TÜV-AUSTRIA tarafından CE belgelidir. İlgili belge numarası 15-PS-0121-TAT-15-MAD-0313

Sıra No / Order No	Satın Alınan Madde / Purchased Item	Kod ve No / Code & No	Miktar / Quantity
1	Sabit Mandallı Beşli Kanca (M 1540) / Fixed Hook with 5 pins and latch (M 1540)	Nr. 2,5	5

Malzeme Kalite Sınıfı / Material of quality class	P	Malzeme Kalitesi / Material of quality	S 355	Döküm No / Cast No	FA01594
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KANCA ÇALIŞMA ARAŞIĞI / HOOK WORKING RANGE

Sabitlik Çalışma Saati / Duration of working in hour	Kilogram / KG				
	10m/M3	15m/M4	20m/M5	30m/M6	40m/M7
6-ya kadar / up to 6	18 (10 18)	18 (10 18)	18 (10 18)	18 (10 18)	18 (10 18)
7-ya kadar / up to 7	18 (10 18)	18 (10 18)	18 (10 18)	18 (10 18)	18 (10 18)
8-ya kadar / up to 8	18 (10 18)	18 (10 18)	18 (10 18)	18 (10 18)	18 (10 18)
9-ya kadar / up to 9	18 (10 18)	18 (10 18)	18 (10 18)	18 (10 18)	18 (10 18)
10-ya kadar / up to 10	18 (10 18)	18 (10 18)	18 (10 18)	18 (10 18)	18 (10 18)

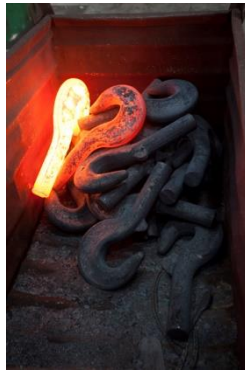
Kimyasal Analiz (yüzde, % Ağırlık) / Chemical analysis (percentage, weight %)										
Elementler / Elements										
C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Al	N
0,18	0,2	0,38	0,018	0,013	0,06	0,014	0,08	0,25	0,002	0,008

Çekme Dayanımı / Tensile Strength (N/mm²)	Akma Dayanımı / Yield Strength (N/mm²)	Uzama / Elongation (%)	Çentik Enerjisi / Impact Energy (J/cm²)
538	365	25	30F (AC10)


Su Yeme ve Tempileme / Quench and tempering: Normalleştirme / Normalized

Mutafak Sencel / Signature: 

Adres / Address: 1513. Samsun Yolu, 15130. Samsun / TÜRKİYE / 0362 221 20 00 / Faks: 0362 221 21 00 / E-posta: info@sayalcrane.com.tr / Sayfa No: 4/4



CABLE TESTS



HASÇELİK
HAS ÇELİK ve HALAT SANAYİ TİCARET A.Ş.

ÇELİK TEL VE HALAT FABRİKASI
Hacılar Yolu 8 Km PK 38210 Hacılar / KAYSERİ
Tel: 0352 442 16 40 (8 Hat) Faks: 0352 442 16 44

ALÜMİNYUM - BAKIR İLETKEN VE KABLO FABRİKASI
Organize Sanayi Bölgesi 18.Cad. No:20 KAYSERİ
Tel: 0352 321 15 55 Faks: 0352 321 18 29 - 35
www.hascelik.com.tr - hascelik@hascelik.com.tr

TEST SERTİFİKASI

MÜŞTERİ : **CETIN KALDIRMA**

TARİH : **09.02.2015**

NO	: 15000437
MAKARA NO	: 1100142268
ÇAP (mm)	: 14
KONSTRUKSIYON	: 6x36 WS
STANDARD	: TS EN 12385-4+4.1
MUKAVEMET (N/mm ²)	: 1960

YÖN	: s/Z
YAĞLAMA	: A1
ÖZ	: FC
UZUNLUK (M)	: 500
KAPLAMA	: SIYAH

KİMYASAL ANALİZ :

C %	Si %	Mn %	P %	S %
0,55 - 0,75	0,10-0,30	0,50-0,80	0,006-0,013	0,003-0,006

TEST SONUÇ:


Tel Adet	Çap (mm)	Mukavemet (N/mm ²)	Eğme test (Number)	Burma test (Number)	Galvaniz (Gr/m ²)	Düğümü Kopma (daN)
6	0,90	2057	14	35		
42	0,67	2035	12	33		
42	0,63	2049	14	40		
42	0,49	2036				21
84	0,75	2046	22	37		

Bu sertifikadaki bilgilerin EN 12385'e göre doğruluğunu beyan ve tasdik ederim





Minimum Kopma Kuvveti : 127 KN

Gerçekleşen Kopma Kuvveti : 135 KN

Hatice VURAL
HASÇELİK GRUP
KALİTE ÇEVRE YÖNETİM
MÜDÜRÜ



TİCARET SİCİL NO : 14863
MİMAR SINAN V.D. : 4500010964



SERVICE

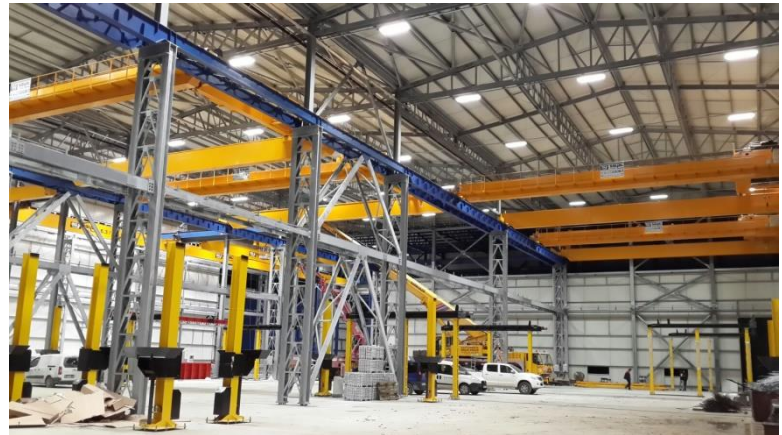


- **SAYAL Crane Systems® Rapid Service** and reliability are your **BEST** coverage when you need it the most.
- All OEM parts are readily available in SAYAL's parts bin.



+90 312 267 58 58 / 24 HRS RAPID SERVICE

INSTALLATION



PAINTING



WELDING



CNC MACHINES



INSPECTION



Industry & Facilities Division		Page: 1/4
INSPECTION REPORT N° 58		<input type="checkbox"/> Interim <input checked="" type="checkbox"/> Final
BV Job nr: IDD.TR.1973779.15.A41		
PROJECT: Interim Inspection Visit for 10Ton Double Girder Overhead Crane	Ref: IDD.TR.1973779.15.A41	
BV Client: SAYAL VINÇ MAK SAN TIC LTD. ŞTİ.	P/ö nr: (client to Manufacturer)	
Manufacturer: SAYAL VINÇ MAK SAN TIC LTD. ŞTİ.	P/ö nr: (client to Manufacturer)	
Inspection requested by: EURL MACHINERIE DZ		
SUPPLY / SUBJECT OF INSPECTION	ITEM / TAG Nr	QTY
10 Ton Double girder Overhead Crane	492	1
DOCUMENTS OF REFERENCE: See continuation sheet for additional documents: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Title Reference n° Rev Approved by Date Please refer to "Applicable Documents & Status of Approval" section		
INSPECTIONS: Inspection place & Date or Period: Sayal Vinç Mak San Tic Ltd. Şti / Turkey Ostim/Ankara - Turkey 07.01.2015 (1day) Stage of inspection: <input type="checkbox"/> Before manufacturing <input checked="" type="checkbox"/> During manufacturing <input type="checkbox"/> Final <input type="checkbox"/> Packing Type of inspection: <input type="checkbox"/> Pre-inspection meeting <input checked="" type="checkbox"/> Document and QC record review <input checked="" type="checkbox"/> Visual examination, checks <input type="checkbox"/> Witnessing tests <input type="checkbox"/> Manufacturing progress status <input type="checkbox"/> Vendor assessment <input type="checkbox"/> Final inspection <input type="checkbox"/> Packing (for details see continuation sheet) Stamping: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		
Results of inspection: <input checked="" type="checkbox"/> Satisfactory <input type="checkbox"/> Unsatisfactory Non Conformities Reports (NCR): o NCR's issued during reported period : o List of outstanding NCR's : Main Conclusions & Remarks: (for details see continuation sheet) In 07.01.2015, at SAYAL Vinç Mak San Tic Ltd. Şti. for intended inspection on the un-assembled parts of 10Ton Double Girder Overhead Crane was carried out. Visual examination of welded joints, dimensional measurements and visual checks of unmounted drum, unmounted upperblock, unmounted wheels of the trolley were carried out. Because the end truck and rails of the girder was not assembled by welding, before the inspection time is finished, no distance between truck wheels, deflection or cross dimensional measurements could be carried out. Motors tag plates and powers were controlled in accordance with the technical agreement. Next visit scheduled: N/A		



<p>> Results of Inspection in 07.01.2015, at SAYAL Vinç Mak San Tic Ltd. Şti. for intended inspection on the un-assembled parts of 10Ton Double Girder Overhead Crane was carried out. Results were satisfactory according to the technical agreement. > Problems pending Rollers and wheels material certificate could not be handled during the inspection period.</p>	
<p>ANNEXES <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>Inspected by: Namer Ceylan Alp Kadir KAPLAN Signature: </p>	<p>Checked by: Namer Sebas ZURNACI Signature: </p>
<p>Date of issue: 15.01.2015 Inspection center: BV ANKARA Distribution: <input checked="" type="checkbox"/> CLIENT <input type="checkbox"/> MANUFACTURER <input type="checkbox"/></p>	
<p>NCR 002 En OM 51 101</p>	
<p>Copyright Bureau Veritas 04/2011</p>	

TRANSPORT



INFORMATIONAL

STEEL CONSTRUCTION

The bridge girder of every **SAYAL Crane Systems**® is designed to the current CE, ISO specifications and can be engineered to meet other local codes and regulations.

- Both operational shapes and welded plate box girder designs are used depending on design requirements.

END CARRIAGES

- **SAYAL Crane Systems**® end carriages are manufactured in-house and jig assembled, both wheel centers are handled at the same time with precision CNC incisions to ensure alignment of bearings and axles.
- Dual motor bridge drives are standard and they are with **Hub Driven System** to prevent gear slipping.
Other drive types are available upon request*.
- Rubber collision polyurethane bumpers are standard on all end carriages.

HOISTING MACHINERY

- The hoisting machinery is from **SAYAL Crane Systems**® and ABM with “1 million clicks warranty” is containing of heavy duty industrial type standard wire rope hoist unit that is mounted on a *low headroom type trolley*.
- ABM Motors are totally enclosed fan cooled and also consists ABM electro mechanical brake System.
- All Gears and Transmission units are precision machined by ABM just for Hoisting applications and does not require maintenance for 10 yrs.
- Steel wire rope drums are precision (CNC with CAM Designed) machined in our **SAYAL Crane Systems**® factory in Ankara.
- Hoists are equipped with rope guides (Patented by **SAYAL Crane Systems**®) to prevent over lapping of the rope on the drum and to extend rope life.

It also satisfies strictest Safety regulations with no cast-iron design from rope guide falling injuries.

- Upper and lower hoisting limit switches are standard equipment.

MOTORS AND BRAKES

- All motors are specifically designed for hoist and crane duty by ABM in Germany.
- All motors are totally enclosed fan cooled and Electro Magnetic Brake Systems by ABM and Temporit Spa and all standard with SAYAL Crane Systems’.

INFORMATIONAL

CONTROLS

- Each crane is supplied with a pendant (Télemécanique) control with Mushroom **Emergency Stop** as standard equipment.
- Other types of controls such as wireless radio controllers, In Cabin controllers, infrared or laser collision sensors, position sensors are available.
- **SAYAL Crane Systems®** are supplied with 2-speed controls for the trolley and bridge motions with Inverters (Schneider and Mitsubishi) and ABM hoist motor is supplied with a 2-speed configuration without inverters.
- The electrical components are housed in electrical cabinets designed for all ambient temperatures.

BRIDGE ELECTRIFICATION

- Bridge electrification is provided via a flat cable festoon system suspended from a track as standard equipment.

Optional Cable Canal system is also available upon request or due to special requirements of a project.

SURFACE TREATMENT

- Hoist preparation starts with 2 coats of Anti-Corrosion layers and finished with 2 coats of enamel paint.

FEATURE LIST

STANDARD:

- Overload Switch
- 24 VDC Control Voltage with short circuit detection.
- Phase Protection (PTC Unit) with overheat protection
- Over Current Protection with thermic and magnetic protection.
- Rotation Warning Beacon
- Runway Electrification (Bus-bar systems by Stemman Technik Germany)
- Travel Limits for Bridge & Trolley

OPTIONAL:

- Weighing Equipment
- Anti-Collision Equipment
- Runway Electrification for Galvanizing Factories for special Bus-bar Systems
- Extra Bridge Lights
- Warning Horn or Bell Other options are available on request or local codes.

RUNWAY SYSTEMS

- Custom designed to work for your applications as part of a SAYAL Crane System design.



Sayal Vinç Makine Sanayi ve Ticaret Ltd. Şti.

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