



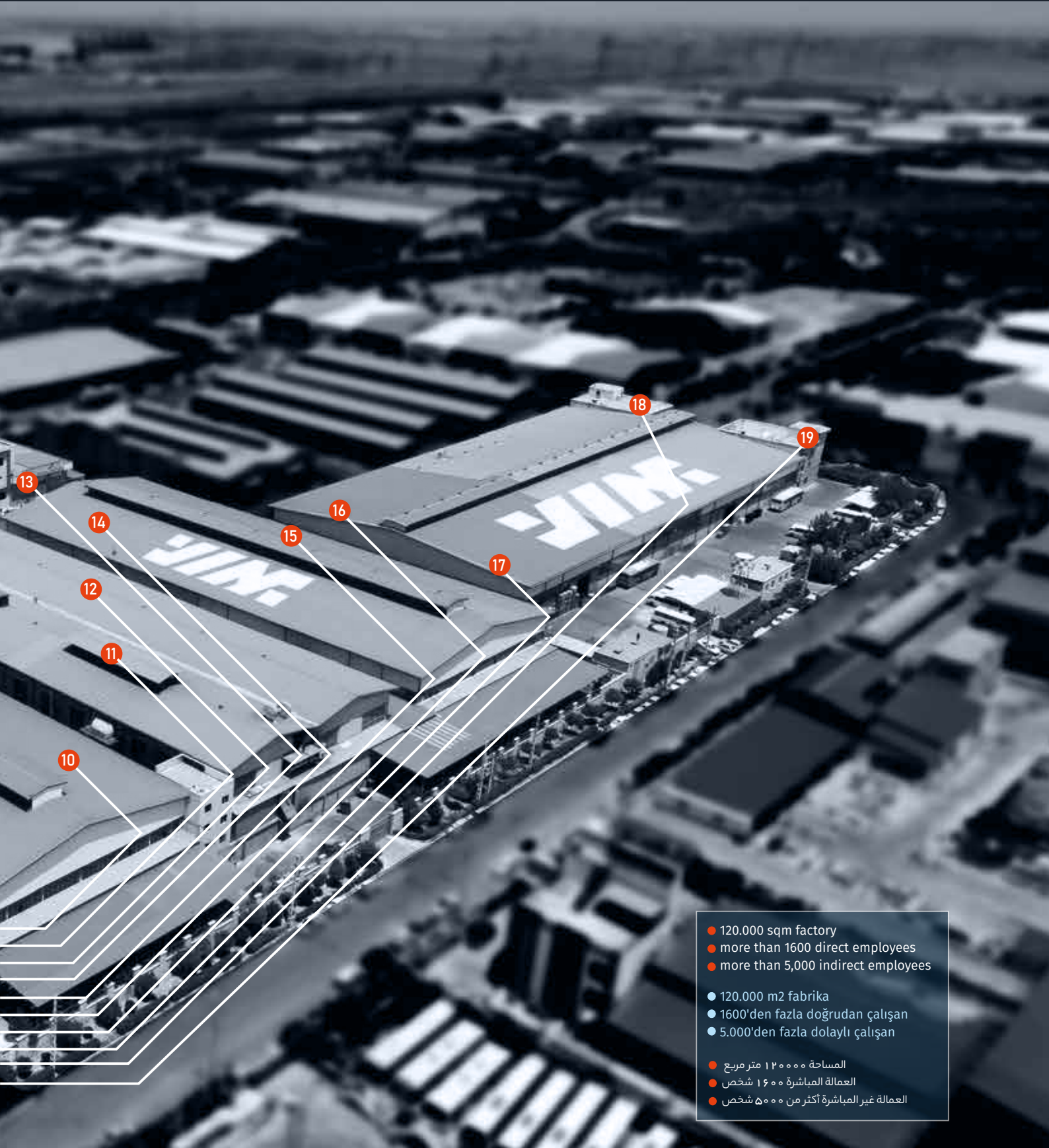
## ELEVATOR ESCALATOR

ASANSÖR  
YÜRÜYEN  
MERDİVEN

المصعد و  
السلم الكهربائي

# 2022

ENGLISH  
TURKISH  
ARABIC



- 120.000 sqm factory
- more than 1600 direct employees
- more than 5,000 indirect employees
- 120.000 m2 fabrika
- 1600'den fazla doğrudan çalışan
- 5.000'den fazla dolaylı çalışan
- المساحة ١٢٠٠٠٠ متر مربع
- العمالة المباشرة ١٦٠٠ شخص
- العمالة غير المباشرة أكثر من ٥٠٠٠ شخص



# 30

Years of continuous strive for excellence

Yıllık kesintisiz mükemmeliyet için sürekli çaba

ثلاثون عاما من العمل المتواصل نحو الأفضل

|                            |                                    |                                     |   |
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## History

With a deep focus on processes including the turning and repairing of elevator parts, Behran started its business operation in 1989 in a small 40-meter workshop in Tehran. Just four years later, in 1993, the company moved to a larger workshop with an area of 100 square meters in Tehran's Hashemi neighborhood. With an increase in their knowledge and experience, the company's founders developed their business scope in 1997 and this time they moved to a new workshop with an area of 250 square meters in Shad Abad Street in Tehran. In yet another development, the small company of Behran moved to a larger workshop (1200 square meter) located in the former Tehran-Karaj main highway. Here in this new workshop, the company's founders got down to the idea of implementation of their old notion of manufacturing elevator gearbox motor drive.

This comes as they, step by step, also developed two more new ideas of production of gearless motor drive as well as the elevator parts and components, all carrying the brand name Behran. And this is the exact place of change; a date from which on Behran has doubled and even tripled its pace of change from a small company to a giant one in the elevator and escalator industrial section of Iran. An increase in the production lines of the elevator parts and components and consequently the need for a larger scale site for the company's business operation caused Behran to establish a factory with an area of 11,000 square meters in Parand Industrial Estate with the aim of transferring all its manufacturing industrial undertakings to this new vast venue. And now, after more than thirty years of effort and dynamism of the factories of Behran Industrial Group (Private Joint Stock Company) with an area of 120,000 square meters and more than 1600 active manpower, under the supervision and management of Mr. Mahmoud Shakeri, chairman of the board, Mr. Ahmad Shakeri CEO, Mr. Hossain Shakeri as factory Manager and the brothers, who are experts and influencers in this field, Behran is leading in the field of elevator and escalator industry in Iran in production of elevator and escalator parts and packages and on par with the top European companies, with active branches and agencies throughout Iran, meets the needs of domestic and international markets.

## Tarih

Asansör parçalarının tornalanması ve onarımı da dahil olmak üzere süreçlere derinlemesine odaklanan Behran, 1989 yılında Tahran'da 40 metrelik küçük bir atölyede faaliyete başladı. Sadece dört yıl sonra, 1993 yılında şirket, Tahran'ın Haşimi semtinde 100 metrekarelik daha büyük bir atölyeye taşındı. Şirket kurucuları, bilgi ve deneyimlerini artırarak 1997 yılında iş alanlarını geliştirdiler ve bu kez Tahran'da Shad Abad Caddesi'ndeki 250 metrekarelik yeni bir atölyeye taşındılar. Bir başka gelişmede, küçük Behran şirketi, eski Tahran-Karaj ana karayolunda bulunan daha büyük bir atölyeye (1200 metrekare) taşındı. Burada, bu yeni atölyede, şirketin kurucuları, asansör dişli kutusu motor tahriki üretimine ilişkin eski fikirlerinin uygulanması fikrine kapıldılar.

Bu, adım adım, tümü Behran grup adını taşıyan, dişlisiz motor tahrikinin yanı sıra asansör parçaları ve bileşenlerinin üretimine ilişkin iki yeni fikir daha geliştirdikleri için geliyor. İşte değişimin tam yeri burasıdır; Behran'ın İran'ın asansör ve yürüyen merdiven sanayi bölümünde küçük bir şirketten dev bir şirkete geçiş hızını iki katına, hatta üç katına çıkardığı bir tarih. Asansör parça ve bileşenlerinin üretim hatlarının artması ve buna bağlı olarak şirketin faaliyet göstermesi için daha büyük ölçekli bir sahaya ihtiyaç duyulması, Behran'ın tüm mal varlığını transfer etmek amacıyla Parand Sanayi Sitesi'nde 11.000 metrekarelik bir fabrika kurmasına neden oldu. Bu yeni geniş mekana endüstriyel teşebbüsler üretiyoruz. Ve şimdi, Behran Sanayi Grubu fabrikalarının otuz yılı aşkın emek ve dinamizminin ardından (Özel Ortak Stock Company) 120.000 metrekarelik bir alana ve 1600'den fazla aktif insan gücüne sahip, gözetim altında ve yönetim kurulu başkanı Sayın Mahmoud Shakeri, CEO'su Sayın Ahmad Shakeri, Fabrika Müdürü Sayın .Hos-sain Shakeri ve bu alanda uzman ve influencer kardeşler olan Behran, asansör ve yürüyen merdiven sektöründe lider konumdadır. İran'da asansör ve yürüyen merdiven parçaları ve paketleri üretiminde ve İran genelinde aktif şubeleri ve acenteleri ile Avrupa'nın önde gelen şirketleri ile eşit düzeyde iç ve dış pazarların ihtiyaçlarını karşılamaktadır.

## تاریخ

لمحة تاريخية عن شركة بهران، بدأت شركة بهران فعاليتها في العام ١٩٩٠ من خلال ورشة صغيرة بمساحة ٤٠ متر و كانت عبارة عن ورشة خراطة و تصليح لقطع المصاعد و بعد مرور اربع سنوات في العام ١٩٩٤ امتلكت ورشة أكبر في طهران بشارع هاشمي و كانت مساحتها ١٠٠ متر مربع. قام الأخوة شاكري بتوسيع الفعاليات و رفع نسبة العلم و الخبرة في هذا المجال شيئاً فشيئاً و في العام ١٩٩٨ انتقلت فعاليتهم إلى ورشة أخرى بمساحة ٢٥٠ متر مربع في شارع شاد اباد في طهران. بعد مرور اربع سنوات و من خلال العمل المستمر و المتواصل استطاعوا شراء ورشة كبيرة بمساحة ١٢٠٠ متر مربع على اتوستراد مدينة كرج بالتقسيم و البدء بانتاج و تصنيع محركات علب السرعة و قطع المصاعد و بعد مرور اكثر من ثلاثين عاما من العمل الجاد توسعوا في العمل من خلال مصنع خاص بمساحة ١٢٠٠٠٠ متر مربع و اكثر من ١٦٠٠ عامل تحت اشراف و ادارة السيد محمود شاكري المدير العام و السيد احمد شاكري المدير التنفيذي و الاخوة المحترمين الذين يعتبرون من المتميزين في هذا المجال و استطاعوا بناء اسم كبير في مجال صناعة قطع المصاعد و السلالم الكهربائية و منافسة اكبر الشركات الأوروبية من خلال فروعهم و وكالاتهم الفاعلة في ايران و التي تؤمن احتياجات السوق في البلاد و انحاء العالم.





## رسالة المدير العام

بهران و التحديات الدائمة التي تواجهها للوصول للمقدمة، ان الجميع في عالم الصناعة والتجارة يواجهون تحديات كبيرة وبالتأكيد هناك العديد من العثرات في طريق الوصول الى التميز.

في هذا المجال ان الهدف الأهم للأشخاص والفرق او المجموعات المميزة ليس الربح او الخسارة إنما الثبات و التركيز للوصول لأفكار أفضل، حيث أن كل عثرة او اختبار غير موفق يمثل خطوة للأمام على طريق الوصول للتوفيق والنجاح.

طبق وجهة النظر هذه تحولت بهران من ورشة صغيرة إلى أكبر مصنع للمصاعد والسلالم الكهربائية في الشرق الأوسط. هذا النجاح الكبير لشركة بهران الذي لم يكن ليحصل لولا العمل المتواصل و تحمل المسؤولية و التعلم من العثرات والجهد الكبير المبذول من المدراء و المهندسين و العمال. ان إدارة شركة بهران دائماً ما تسعى الى تحسين مهارات وطاقات العمال. وفي الآن ذاته فإن الثقافة الموجودة في الشركة تعتمد على ان الجميع هم فريق عمل واحد يقوم بالتأسيس و صناعة إرث موحد. لقد تعهدنا بابتكار طرق جديدة و متطورة في مجال جودة المنتجات و العمليات و الخدمات حتى تتمكن من المشاركة في تطوير البلاد و كسب رضى الزبائن. منذ البداية كان هدفنا ان نكون الأفضل في مجال صناعة المصاعد والسلالم الكهربائية. و خلال وصولنا الى هذا الهدف واجهنا العديد من العثرات و الإخفاقات لكن عملنا بجهد كبير و تحدينا الصعوبات حتى وصلنا إلى هذا المستوى من النجاح لأن نتيجة النجاح على المدى الطويل مهمة أكثر بكثير من العثرات والصعوبات التي تأتي على المدى القصير

## Başkanın Mesajı

Başarı için kriz ve sürekli zorluklar Hepimiz bir üretim ve iş dünyasında zorlanıyoruz ve kesinlikle başarıya giden yolda birçok mücadele ve başarısızlık yaşıyoruz. Böylelikle başarılı bireylerin ve grupların en önemli amacı mutlaka kazanmak ve kaybetmek değil, ilerlemeye devam etmek, yeni standartlara ulaşmak ve daha iyi bir gelecek inşa etmek için istikrarlı ve odaklanmış bir süreç oluşturmaktır. Bu uygulama, başarısız olan her deneyi başarıya bir adım daha yaklaştırır. Bu görüşe göre bugün Behran, küçük bir işleme atölyesinden Ortadoğu'nun en büyük asansör ve yürüyen merdiven fabrikalarına dönüşmüştür. Bu, Behran kompleksinin yöneticilerinin, mühendislerinin, çalışanlarının ve işçilerinin başarısızlıklarından ve sürekli çabalarından öğrenme, taahhüt, takip, öğrenme olmadan mümkün olamazdı. Behran Management, çalışanlarının temel becerilerine ve potansiyel yeteneklerine güvenerek her zaman uzmanlığını geliştirmeye çalışmaktadır. Aynı zamanda Behran Group'un profesyonel ve etik çalışma kültürü, çalışanlarını da zenginleştiriyor. Behran'ın çalışma felsefesinde herkes bir miras bırakan ve ülkenin kalkınması alanında yaptıklarıyla uzun yıllar hatırlanan bir ekibin üyesidir. Ülkenin gelişimine katkıda bulunmak ve müşteri memnuniyetini sağlamak için ürünlerimizin, operasyonlarımızın ve hizmetlerimizin kalitesine yeni ve ileri yaklaşımlar oluşturmaya kararlıyız. En başından beri ülkedeki en kaliteli asansör ve yürüyen merdiven üreticisi olmaya çalıştık. Bu şekilde birçok kez başarısız olduk ama başarılı olmak için çok çalıştık. Çünkü uzun vadeli başarının sonuçları, kısa vadeli sorunların üstesinden gelmekten çok daha önemlidir ve daha zordur.

## Message from the Chairman

Crisis and constant challenges for success We are all challenged in a world of production and business, and we certainly experience many struggles and failures on the path to success. In this way, the most important goal of successful individuals and groups is not necessarily winning and losing, but to continue moving forward, reaching new standards and creating a stable and focused process to build a better future. This practice brings each failed experiment one step closer to success.

According to this view, today Behran has changed from a small machining workshop to the largest elevator and escalator factories in the Middle East. This has not been possible without commitment, follow-up, learning from the failures and continuous efforts of managers, engineers, employees and workers of the Behran complex.

Behran Management is always trying to cultivate the expertise of its employees by relying on the basic skills and potential abilities. At the same time, the professional and ethical work culture of Behran Group makes employees prosper.

In Behran's work philosophy, everyone is a member of a team that leaves a legacy and is remembered for many years for what they have done in the field of development of the country.

We are committed to creating new and progressive approaches to the quality of our products, operations and services in order to contribute to the development of the country and achieve customer satisfaction.

From the very beginning, we tried to be the highest quality manufacturer of elevators and escalators in the country. In this way, we failed many times, but we worked hard to succeed. Because the results of long-term success are far more important and more difficult than overcoming short-term problems.

محمود شكري  
المدير العام

Mahmud Şakeri  
başkan

Mahmoud Shakeri  
Chairman



New Guide Rail Production Line  
(factory under construction)

Asansör Ray üretim hattının açılışı  
افتتاح خط انتاج سكة المصعد

2022

Opening of First 14m Escalator Test Tower in the Middle East

İlk 14 metre yürüyen merdiven test kulesi'nin Ortadoğu'da açılışı  
اول برج اختبار للسلالم الكهربائية في الشرق الأوسط بارتفاع ١٤ مترا

Gearless Motor Production Line Opening

Dilisiz makine motor üretim hattının açılışı

افتتاح و تدشين خط انتاج المحرك بلا مسننات (gearless)

Escalator Production Expansion Line

yürüyen merdiven üretim genişletme hattı

تحديث خط انتاج السلالم الكهربائية

2020

2021

Switzerland



Germany



Italy



Turkey



Spain



China





**30 Years of Continuous Strive for Excellence**

**30 Yıllık kesintisiz mükemmeliyet için sürekli çaba**

**ثلاثون عاما من العمل المتواصل نحو الأفضل**

**Opening of first 3m/s**

**Elevator test tower in Middle East**

İlk 3 metre saniye asansör test kulesi'nin açılışı Ortadoğu'da

افتتاح أول برج اختبار للمصعد ٣ م/ثا في الشرق الأوسط

**2019**

**Escalator Production Line Opening**

Yürüyen merdiven üretim hattının açılışı

افتتاح خط انتاج السلم الكهربائي

**2017**

**Gearbox Motor Production Line Opening**

Dişli makine motor üretim hattının açılışı

افتتاح و تدشين خط انتاج محركات علب السرعة

**2005**

**Behran Asanbar Co. Established**

Behran Asanbar Kuruldu

تأسيس شركة بهران اسانبر

**1990**

## **UPDATED Statistics Unitil Today**

Components Manufactured 347  
National Projects Completed 42  
International offices 5  
Branches and Representatives 19  
Customers Served 10421

## **GÜNCELLENMİŞ İstatistik Bugüne kadar**

Bileşenler Üretildi 347  
Tamamlanan Ulusal Projeler 42  
uluslararası ofisler 5  
şubeler ve Temsilciler 19  
müşterilere hizmet verildi 10421

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الحلول الخلاقة للارتفاعات المنخفضة والمتوسطة من خلال آلات سحب عالية الفعالية بدون مسننات (GEARLESS) و بعلب سرعة

**Verimli dişli ve dişsiz makina motorlarla düşük ve orta yükseklik çözümleri**

**Innovative Low-rise & Mid-rise solutions with high efficient Gearless and Geared traction machines**



الحلول الخلاقة للارتفاعات المنخفضة والمتوسطة من خلال آلات سحب فعالة جدا بدون مسننات (GEARLESS) و بعلب سرعة. ان مصاعد بهران تتناسب مع الاستخدامات الإدارية و السكنية المزدحمة و يلبي احتياجاتكم التي تعتمد على المرونة و جودة التصميم و الفعالية. ان التكنولوجيا التي تتبعها بهران ادت الى انتاج مصاعد و سلالم كهربائية متميزة. و أدى ذلك إلى إرضاء السكان و ملاك الأبنية.

Behran asansörleri, yüksek trafiğe sahip ofis ve konut ortamları ile uyumludur ve alan esnekliği, tasarımı ve verimliliği ile ilgili olarak en yüksek talep seviyesini güzelleştirir. Behran'ın kanıtlanmış teknolojisi, yolculara ve bina sahiplerine fayda sağlayan mükemmel bir asansör ve yürüyün

Behran elevators suitable for high traffic commercial and residential environments, meets the highest demands in terms of space flexibility, design and performance. Behran's proven technology results in a superb elevator system that benefits passengers and building owners



- High Technology
- Smooth Comfortable Ride
- Space Saving
- Quiet Performance
- Outstanding Safety

- yüksek teknoloji
- Yumuşak ve rahat hareket
- Yerden tassarruf
- Sessiz performans
- Muhteşem güvenlik

- تكنولوجيا متطورة
- الحركة السلسة و المريحة
- توفير في الحيزو المساحات
- العمل بلا ضوضاء
- الأمان العالي

### Quality versus Price

In addition to quality, customers naturally expect affordable products. The use of optimal technical and economic mechanisms increases product quality and, as a result, low cost in the long run.

Accordingly, the quality of products has made the Behran brand attractive and popular among customers.

### Fiyata karşı kalite

Kaliteye ek olarak, müşteriler doğal olarak uygun fiyatlı ürünler bekliyorlar. Optimal teknik ve ekonomik mekanizmaların kullanılması, ürün kalitesini ve bunun sonucunda uzun vadede düşük maliyeti artırır. Buna göre ürün kalitesi Behran markasını müşteriler arasında çekici ve popüler hale getirmiştir.

### الجودة أمام السعر

بالإضافة إلى الجودة فإن الزبائن و بشكل طبيعي ينتظرون من المنتج أن يكون ذي قيمة مناسبة. استخدام الأساليب الفنية و الاقتصادية المثلى يؤدي الى تحسين جودة المنتج و بالنهاية يؤدي أيضا الى توفير سعر نهائي منخفض على المدى الطويل. طبق ما سبق، جودة المنتجات تؤدي الى جعل العلامة التجارية مهران جذابة و محبوبة بين الزبائن.







## وضع معايير حديثة في تقديم الخدمات

ان شركة مهران و للوصول إلى معايير جديدة عالية، تتبع الأساليب الخلاقة التي تشمل الأنظمة الجديدة في إدارة الأبحاث، و الانتاج، و ضبط الجودة و البيع و الخدمات ما بعد البيع

بعض من منجزات بهران في مجال المعايير

- 1- الحصول على شهادة معيار ISO17025 كـمختبر مرجعي من المركز الوطني لتوثيق الصلاحية في ايران
- 2- الحصول على شهادة معيار CE الأوروبي لأنواع الأقفال و الحاكم (GOVERNOR)ات و ممتص الصدمات و محركات علب السرعة و المحركات الفاقدة للمسننات (GEARLESS)
- 3- الحصول على شهادة المؤسسة الأمثل في المحافظات في العام (٢٠٢٠-٢٠٢١)
- 4- الحصول على شهادة المؤسسة الأمثل في البلاد في العام (٢٠٢٠-٢٠٢١)

## Hizmet sunumunda yeni standartlar oluşturmak

Mükemmellikte yeni standartlara ulaşmak için Behran Group, araştırma, üretim, kalite kontrol, satış ve satış sonrası hizmetlerde yeni yönetim sistemleri dahil olmak üzere yenilikçi çözümler kullanır.

**Behran Asanbar'ın standart alanındaki başarıları:**

- 1-ISO17025 standart belgesinin alınması
- 2- Avrupa CE standart belgesi alma Her tip Asansör kapı kilit- Hız Regülatörü - Tampon - dişlili ve dişlisiz motor için
- 3-İran Ulusal Standardının Alınması Kuruluşun en iyi ili üretici Ödülü, (2021-2020)
- 4- İran Ulusal Standardının Alınması Kuruluşun en iyi ulusal üreticisi Ödülü, (2021-2020)

## Establish new standards in service delivery

To achieve new standards in excellence, Behran Group uses innovative solutions including new management systems in research, production, quality control, sales and after-sales service.

**Behran Asanbar's achievements in the field of standards:**

- 1-Obtaining ISO17025 Standard Certificate
- 2- Obtaining European CE Standard Certificate for all types of locks, governors, buffers, gearbox motors and gearless motor
- 3- Obtaining the Iran National Standard Organization's best provincial manufacturer Award, (2020-2021)
- 4- Obtaining the Iran National Standard Organization's best national manufacturer Award, (2020-2021)

### Ensure product safety

Behran elevators and escalators are produced by observing safety tips and using the latest technology in the world. Behran ensures that all products meet the requirements of national and European standards and, while having an economical price, are designed and manufactured for long life and at the same time, are completely reliable.

### Ürün güvenliğini sağlayın

Behran asansörleri ve yürüyen merdivenleri, güvenlik ipuçlarına uyularak ve dünyadaki en son teknoloji kullanılarak üretilmektedir. Behran, tüm ürünlerin ulusal ve Avrupa standartlarının gereksinimlerini karşıladığını ve ekonomik bir fiyata sahip olmasının yanı sıra uzun ömür için tasarlanıp üretildiğini ve aynı zamanda tamamen güvenilir olduğunu garanti eder.

### ضمان سلامة المنتجات

تنتج المصاعد و السلالم الكهربائية بهران بحيث تراعي معايير الأمان واستخدام التكنولوجيا العالمية الحديثة. و التي صممت لتراعي المعايير الوطنية و الأوروبية و تتمتع بأسعار اقتصادية و متانة و عمر طويل و في الآن ذاته فهي تتمتع بجميع درجات الموثوقية



# SAFETY

## Emniyet

## الأمان

### Safety

Behran specialists have been able to design and produce products using the most advanced software and technologies in the world, which has been able to obtain EN81 (elevator) and EN115 (escalator) certification, as well as CE certification in the top European laboratories. It is worth mentioning that all Behran products are controlled and approved in the laboratories of this company, which has ISO 17025 certification.

### Emniyet

Behran uzmanları, EN81 (asansör) ve EN115 (yürüyen merdiven) sertifikasının yanı sıra Avrupa'daki en iyi laboratuvarlarda CE sertifikası alabilen dünyadaki en gelişmiş yazılım ve teknolojileri kullanarak ürünler tasarlayıp üretebilmiştir. , Take. ISO 17025 belgesine sahip olan bu firmanın laboratuvarlarında tüm Behran ürünlerinin kontrol edildiğini ve onaylandığını belirtmekte fayda var.

### الأمان

استطاع المتخصصون في شركة بهران ومن خلال استخدامهم لأحدث البرامج و الطرق التكنولوجية الحديثة في العالم من توليد أفضل المنتجات و التي استطاعت الحصول على شهادة (EN81 للمصاعد) و (EN115 للسلالم الكهربائية) و أيضاً شهادة CE من أفضل المخابر الأوروبية. ينبغي علينا ايضاً ان نشير إلى ان جميع المنتجات التي يتم تصنيعها في شركة بهران تمتلك شهادات الايزو 17025 ISO



## Research and Development

Behran has expanded its technological knowledge by using authoritative scientific resources, articles of various experts, the world's top technologies, employing specialized personnel, advanced tools and software, as well as state-of-the-art laboratories, in order to apply the Knowledge required for the production of new products.

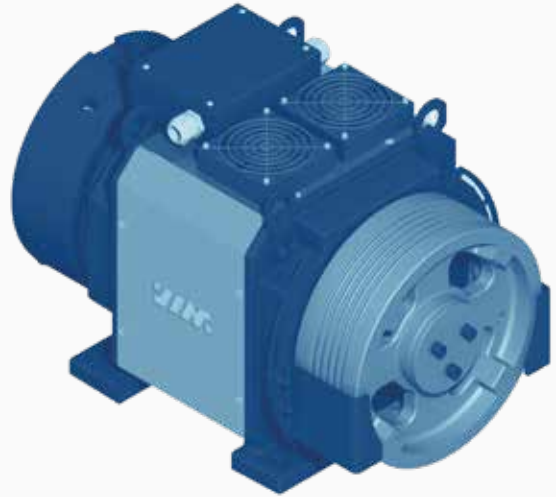
Therefore, the research of Behran Technology and Development Unit has a special place to increase the quality of products.

Based on this, Behran is a leader in Iranian industry and keeps pace with the best international brands.

## Araştırma ve Geliştirme

Behran, üretim için gerekli bilgiyi uygulamak için yetkili bilimsel kaynakları, çeşitli uzmanların makalelerini, dünyanın en iyi teknolojilerini, uzman personel, gelişmiş araçlar ve yazılımlar ile son teknoloji laboratuvarları kullanarak teknolojik bilgisini genişletmiştir. Yeni ürünleri kullanın. Bu nedenle Behran Teknoloji ve Geliştirme Birimi'nin araştırması, ürünlerin tanıtımını artırmak için özel bir yere sahiptir.

Buna dayanarak Behran, İran endüstrisinde liderdir ve en iyi uluslararası markalara ayak uydurmaktadır.



## الأبحاث والتطوير

إن شركة بهران ومن خلال استخدامها للمراجع العلمية المعتبرة و الأبحاث المتخصصة المختلفة و التكنولوجيا الأفضل في العالم و استخدامها أيضا لأفضل المتخصصين و الأدوات المتطورة و البرامج الحديثة و المخابر عالية الجودة، قامت بتطوير علومها حتى تتمكن من الابتكار و انتاج منتجات جديدة. لذلك فإن لقسم الأبحاث في شركة بهران مكانة خاصة للارتقاء بالمنتجات و جودتها.

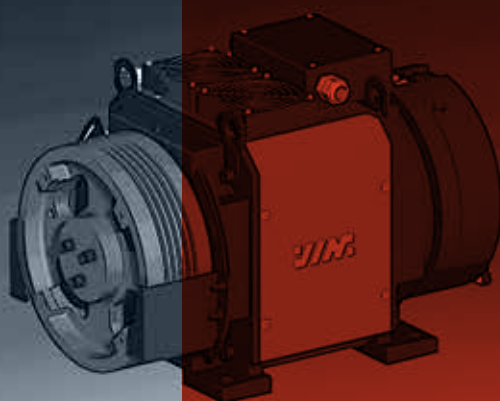
لذلك فإن بهران تعتبر سباقة في مجال الصناعة الإيرانية و تواكب التطورات العالمية



**STRONG  
R&D TEAM**

**GÜÇLÜ  
R&D Ekibi**

**فريق قوي  
الأبحاث والتطوير**



**HIGH TECH. MANUFACTURING**

**Yüksek teknoloji ile üretim**

**الانتاج باستخدام التكنولوجيا الحديثة**

### **Production with new technology**

In addition to the use of expert force, modern world knowledge and advanced machinery, which play an important role in the production process, the use of production technology also plays a decisive role in the quality of Behran products.

In this regard, Behran has taken action to maintain the quality integrity of its products by increasing new products and using robotic systems in order to increase the quality of products by constantly investing in keeping the technology of production lines up to date.

### **Yeni teknoloji ile üretim**

Üretim sürecinde önemli rol oynayan uzman gücü, modern dünya bilgisi ve gelişmiş makinelerin yanı sıra, üretim teknolojisinin kullanılması da Behran ürünlerinin kalitesinde belirleyici rol oynamaktadır.

Bu doğrultuda Behran, üretim hatlarının teknolojisini güncel tutmaya sürekli yatırım yaparak ürün kalitesini artırmak için yeni ürünlerini artırarak ve robotik sistemler kullanarak ürünlerinin kalite bütünlüğünü korumak için harekete geçmiştir.

لذلك فأن شركة بهران و لتحقيق اهدافها بتحسين جودة المنتجات تقوم بالاستثمار في مجال تحديث تكنولوجيا خطوط الانتاج و تستخدم التكنولوجيا الحديثة و انظمة الذكاء الاصطناعي للحفاظ على جودة المنتجات.

### **التصنيع باستخدام التكنولوجيا الحديثة**

بالإضافة الى استخدام الطاقات البشرية المتخصصة فإن التكنولوجيا الحديثة و العلم و الآلات المتطورة تلعب دورا هاما في مجال التصنيع ، لذلك فإن استخدامنا للتكنولوجيا المتطورة و الحديثة يؤثر بشكل كبير على جودة منتجاتنا.



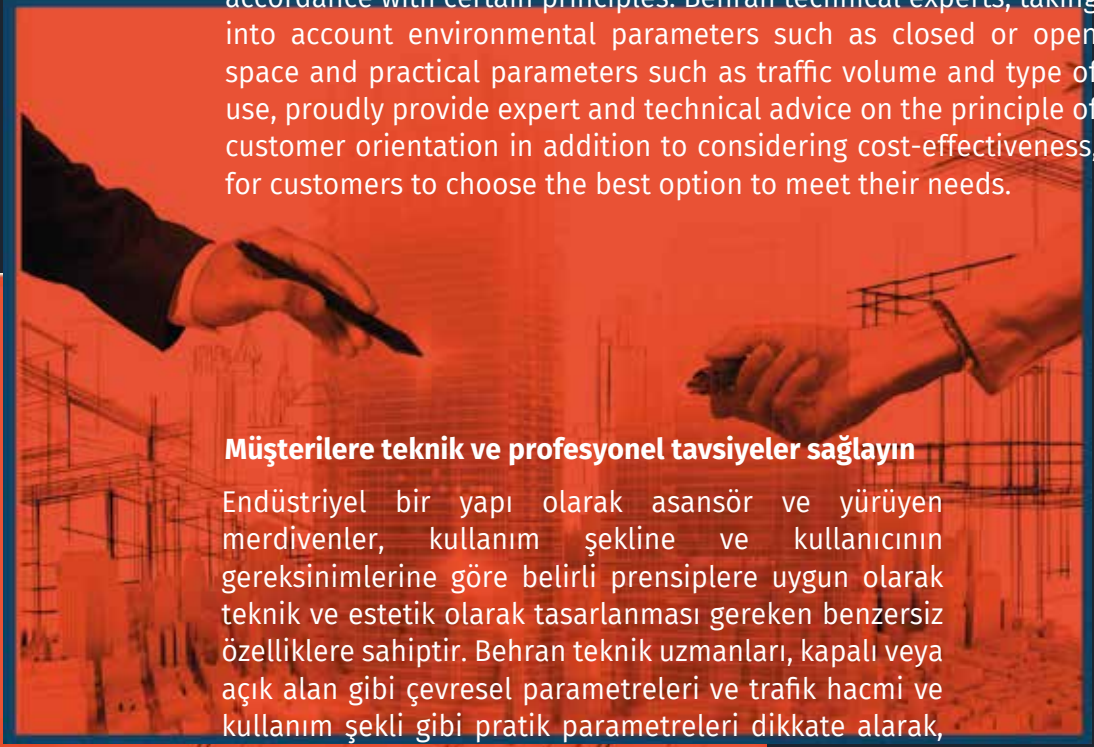
We believe that selling, starting a commitment and after-sales service is an undeniable task. Considering that providing effective services in support requires the necessary facilities, Behran has provided this possibility and relying on the principle of customer orientation, in addition to guaranteeing all parts and packages of elevators and escalators, with Providing after-sales service for 10 years will also guarantee their useful performance.

**Satışın, taahhüt başlatmanın ve satış sonrası hizmetin inkar edilemez bir görev olduğuna inanıyoruz. Behran, destek konusunda etkin hizmet vermenin gerekli kolaylıkları gerektirmesi nedeniyle, asansör ve yürüyen merdivenlerin tüm parça ve paketlerini garanti etmenin yanı sıra müşteri odaklılık ilkesine güvenerek bu imkanı sağlamıştır. 10 yıl boyunca satış sonrası hizmet sunmak, aynı zamanda yararlı performanslarını garanti edecektir.**

لدينا عقيدة ثابتة بأن البيع هو بداية للالتزام والخدمات التي تلي البيع هي واجب لا يمكن إنكاره. لأن تقديم الخدمات التي تلي عمليات البيع تحتاج إلى إمكانيات محددة قامت الشركة بتأمين هذه الإمكانيات واعتمدت على قاعدة الحفاظ على الزبائن حيث أنها بالإضافة لتقديمها لكفالة لقطع المصاعد والسلالم الكهربائية فهي تقوم أيضا بتقديم خدمات ما بعد البيع لمدة عشر سنوات بعد إبرام عمليات البيع.

### Provide technical and professional advice to customers

Elevators and escalators as an industrial structure, according to the type of use and the requirements of the user, have unique features that must be designed technically and aesthetically, in accordance with certain principles. Behran technical experts, taking into account environmental parameters such as closed or open space and practical parameters such as traffic volume and type of use, proudly provide expert and technical advice on the principle of customer orientation in addition to considering cost-effectiveness, for customers to choose the best option to meet their needs.



### Müşterilere teknik ve profesyonel tavsiyeler sağlayın

Endüstriyel bir yapı olarak asansör ve yürüyen merdivenler, kullanım şekline ve kullanıcının gereksinimlerine göre belirli prensiplere uygun olarak teknik ve estetik olarak tasarlanması gereken benzersiz özelliklere sahiptir. Behran teknik uzmanları, kapalı veya açık alan gibi çevresel parametreleri ve trafik hacmi ve kullanım şekli gibi pratik parametreleri dikkate alarak, maliyet etkinliği göz önünde bulundurmanın yanı sıra müşteri odaklılık ilkesi konusunda uzman ve teknik tavsiyelerde bulunmaktan gurur duyar. Ekonomik olarak, müşterilerin ihtiyaçlarını karşılamak için en iyi seçeneği seçmeleri için.

### تقديم الاستشارات الفنية و التخصصية للزبائن

ان المصاعد و السلالم الكهربائية عبارة عن منشآت صناعية و بالنظر إلى نوع استخدامها و ماهية مستخدميها تمتلك ميزات خاصة يجب ان تطابق الأصول التصميمية و الفنية و الجمالية. طبق لهذا فإن المتخصصين في شركة بهران و من خلال ابدائهم لعناية خاصة بالعوامل المحيطة كالمساحات المغلقة او المفتوحة و العوامل التي تتعلق بالاستخدام كالحجم و الازدحام و ماهية الاستخدام فهي و بكل فخر تقوم بتقديم استشارات للزبائن ان كانت فنية او تخصصية حتى توفر لهم بالإضافة للتوفير الاقتصادي الاختيارات الأفضل لتحقيق رغباتهم.









Cabin Decorations  
Luxury

Kabin Dekorasyonlar  
Lüks

تزئین کابینه لوکس







|                   |                                                         |
|-------------------|---------------------------------------------------------|
| <b>CEILING</b>    | CS- 08 (STS Ion Gold Hairline+LED)                      |
| <b>CAR DOOR</b>   | STS Ion Gold Hairline+ Laser MARKING (LM-T2)            |
| <b>FRONT WALL</b> | STS Ion Gold Hairline+CL -13x+COP- 03N (STS Gold plate) |
| <b>SIDE WALL</b>  | STS Ion Gold Hairline+ Laser MARKING (LM-T2)            |
| <b>REAR WALL</b>  | STS Ion Gold Hairline+ Laser MARKING (LM-T2)            |
| <b>HANDRAIL</b>   | HR-01 (STS Gold Polishing Pipe)                         |
| <b>FLOOR</b>      | Marble (by Local)                                       |



The printcolor can be differnt front the axctual object



|                   |                                                                       |
|-------------------|-----------------------------------------------------------------------|
| <b>CEILING</b>    | Option Type (STS Ion Bronze Mirror + AcrylicPrinting+LED+LED Halogen) |
| <b>CAR DOOR</b>   | STS Ion Bronze 3S Vibration                                           |
| <b>FRONT WALL</b> | STS Ion Bronze 3S Vibration+CL-SW+COP-03N (STS Bronze Plate)          |
| <b>SIDE WALL</b>  | STS Ion Bronze Mirror +Marble+wood+LED Light                          |
| <b>REAR wall</b>  | STS Ion Bronze Mirror+Marble+Wood+LED Light                           |
| <b>HANDRAIL</b>   | HR-01 (STS Bronze Poishing Pipe)                                      |
| <b>FLOOR</b>      | Marble (by Local)                                                     |



The printcolor can be differnt front the axctual object







Cabin Decorations  
Premium

Kabin Dekorasyonlar  
Premium

تزئین کابینه بریمیوم



|                  |                                                          |
|------------------|----------------------------------------------------------|
| <b>CAR DOOR</b>  | Silver Hairline SUS +LED                                 |
| <b>FRONTWALL</b> | Silver Hairline SUS                                      |
| <b>SIDE WALL</b> | Stamped Silver Hairline SUS+Gold mirror sus              |
| <b>REAR WALL</b> | Stamped Silver Hairline SUS+Gold mirror sus+White Mirror |
| <b>HANDRAIL</b>  | Silver Hairline Flat Hand Rail                           |
| <b>FLOOR</b>     | Black Granit                                             |



The printcolor can be differnt front the axtual object



|                   |                                                                          |
|-------------------|--------------------------------------------------------------------------|
| <b>CEILNG</b>     | Option Type STS Inco Black Mirror+LED (LED Halogen+Steel Painted (white) |
| <b>CAR DOOR</b>   | STS Inco Black Hairline+Laser Marking (Pattern)                          |
| <b>FRONT WALL</b> | STS Inco Black Hairline+ CI+SB+COP-02+D(STS TiBlack Hairline)            |
| <b>SIDE WALL</b>  | Wood+STS Gold Trim +STS Mirror                                           |
| <b>REAR WALL</b>  | Wood+STS Gold Trim +STS Mirror                                           |
| <b>HANDRAIL</b>   | HR01-(STS ion Gold Polishing Pipe)                                       |
| <b>FLOOR</b>      | Marble (by local)                                                        |



The printcolor can be differnt front the axtual object



|                   |                                                    |
|-------------------|----------------------------------------------------|
| <b>CEILING</b>    | Non Standard (STS3S Vibration+Acrylic)             |
| <b>CAR DOOR</b>   | STS 3S Vibration                                   |
| <b>FRONT WALL</b> | STS Mirror+CL-SB+COP02-D+STS3S Vibration (Transom) |
| <b>SIDE WALL</b>  | STS Mirror+STS3S Vibration Mirror Etching+Marble   |
| <b>REAR WALL</b>  | STS Mirror+STS3S Vibration Mirror Etching+Marble   |
| <b>HANDRAIL</b>   | Non Standard (Wood+LED light)                      |
| <b>FLOOR</b>      | Marble ( by Local)                                 |



The printcolor can be differnt front the axtual object



|                   |                                          |
|-------------------|------------------------------------------|
| <b>CEILING</b>    | Silver Hairline SUS+LED                  |
| <b>CAR DOOR</b>   | Silver Hairline SUS                      |
| <b>FRONT WALL</b> | Silver Hairline SUS                      |
| <b>SIDE WALL</b>  | Silver Hairline SUS+Colored Mirror       |
| <b>REAR WALL</b>  | Silver Hairline SUS+White Mirror         |
| <b>HANDRAIL</b>   | Black Hairline Round Hand Rall on 3Walls |
| <b>FLOOR</b>      | Royal Blue Granite                       |



The printcolor can be differnt front the axtual object





|                   |                                                                           |
|-------------------|---------------------------------------------------------------------------|
| <b>CEILING</b>    | CS-S3 - STS Mirror+LTD+Steel painted black                                |
| <b>CAR DOOR</b>   | STS Mirror                                                                |
| <b>FRONT WALL</b> | STS Champagne gold hairline -CL+SW+COP02-D<br>(Champagne gold hair line)  |
| <b>SIDE WALL</b>  | STS Champagne gold hairline+STS Mirror                                    |
| <b>REAR WALL</b>  | STS Champagne gold hairline+Rigid metal<br>Logo Laser marketing + Wall LE |
| <b>HANDRAIL</b>   | HR-01 (STS gold hairline)                                                 |
| <b>FLOOR</b>      | Marble (by Local)                                                         |



Rigid metal  
(Champagne gold)

The printcolor can be differnt front the axctual object



|                   |                                              |
|-------------------|----------------------------------------------|
| <b>CEILING</b>    | BLACK Hairland SUS +Silver Hairlane SUS +LTE |
| <b>CAR DOOR</b>   | Silver Hairline SUS+Laser Marking            |
| <b>FRONT WALL</b> | BLACK Hairland SUS                           |
| <b>SIDE WALL</b>  | Silver Hairline SUS+Black Hairland Cop       |
| <b>REAR WALL</b>  | White mirror +Black Hairline cop             |
| <b>HANDRAIL</b>   | Black Hairline Flat Rall                     |
| <b>FLOOR</b>      | Black marble                                 |



The printcolor can be differnt front the axctual object



|                   |                                                |
|-------------------|------------------------------------------------|
| <b>CEILING</b>    | Silver Hairland SUS+Blackmirror SUS+light line |
| <b>CAR DOOR</b>   | Silver Hairlane SUS                            |
| <b>FRONT WALL</b> | Silver Hairlane SUS                            |
| <b>SIDE WALL</b>  | Silver Hairlane SUS+BLACK Glass                |
| <b>REAR WALL</b>  | Silver Hairlane SUS+BLACK mirror               |
| <b>HANDRAIL</b>   | Silver Hairlane SUS Round Hand Rall            |
| <b>FLOOR</b>      | Black Granit                                   |



The printcolor can be differnt front the axctual object



|                   |                                      |
|-------------------|--------------------------------------|
| <b>CEILING</b>    | BLACK Hairland SUS+light line        |
| <b>CAR DOOR</b>   | BLACK Hairlane SUS+Laser Marking     |
| <b>FRONT WALL</b> | BLACK Hairlane SUS+Laser Marking     |
| <b>SIDE WALL</b>  | BLACK Hairlane SUS+Laser Marking+cop |
| <b>REAR WALL</b>  | BLACK Hairlane +Black Glass          |
| <b>HANDRAIL</b>   | Flat Black Hairline Hand Rall        |
| <b>FLOOR</b>      | Black Star Galaxy Granit             |



The printcolor can be differnt front the axctual object





Cabin Decorations  
Deluxe

Kabin Dekorasyonlar  
Deluxe

تزئین کابینه دیلوکس







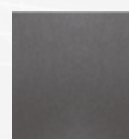
|                   |                                   |
|-------------------|-----------------------------------|
| <b>CEILING</b>    | BLACK Hairline SUS+LED            |
| <b>CAR DOOR</b>   | BLACK Hairline SUS+Laser Marking  |
| <b>FRONT WALL</b> | BLACK Hairline SUS                |
| <b>SIDE WALL</b>  | BLACK Hairline +Laser Marking+COP |
| <b>REAR WALL</b>  | BLACK Hairline SUS+White Mirror   |
| <b>HANDRAIL</b>   | Solid Black Round Hand Rail       |
| <b>FLOOR</b>      | Black Star Galaxy Granit          |



The printcolor can be differnt front the axctual object



|                   |                                                                                |
|-------------------|--------------------------------------------------------------------------------|
| <b>CEILING</b>    | CS-S1 HEIGHT:70mm, STS Polishing Mirror +STSHairline+LED<br>Blac Painted Stell |
| <b>CAR DOOR</b>   | PCM (Deep Grey)                                                                |
| <b>FRONT WALL</b> | PCM (Deep Grey) +CL-SB+COP- 02D (Black)                                        |
| <b>SIDE WALL</b>  | PCM (Deep Grey) +PCM(Sapiano)                                                  |
| <b>REAR WALL</b>  | PCM (Deep Grey) +PCM(Sapiano)+Laser Marking (Logo)                             |
| <b>HANDRAIL</b>   | HR01- (STS Polishing Pipe)                                                     |
| <b>FLOOR</b>      | Deco tile (DT -17)                                                             |



The printcolor can be differnt front the axctual object









Cabin Decorations  
Panorama

Kabin Dekorasyonlar  
Panorama

تزيين كابينه بانوراما



Laser Marking (LM-05)

|                   |                                                 |
|-------------------|-------------------------------------------------|
| <b>CEILING</b>    | Option Type (STS Ion Gold Mirror +Acrylic +LED) |
| <b>CAR DOOR</b>   | STS Ion Gold Mirror +Laser Marking (LM-05)      |
| <b>FRONT WALL</b> | STS Ion Gold Mirror +Cl- 13X+COP- 03D           |
| <b>SIDE WALL</b>  | STS Ion Gold Mirror+Laser Marking (LM-05)       |
| <b>REAR WALL</b>  | STS Ion Gold Mirror+ Glass                      |
| <b>HANDRAIL</b>   | HR01- (STS Gold Polishing Pipe)                 |
| <b>FLOOR</b>      | Marble (by Local)                               |

The printcolor can be differnt front the axctual object





Laser Marking (LM-01)

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|                   |                                         |
|-------------------|-----------------------------------------|
| <b>CEILING</b>    | CS04- (STS Hairline +Acrylic +LED)      |
| <b>CAR DOOR</b>   | STS Mirror +Laser Marking (LM-01)       |
| <b>FRONT WALL</b> | STS1 Mirror+1COP- 02D                   |
| <b>SIDE WALL</b>  | STS Mirror+Laser Marking (LM-01)+ Glass |
| <b>REAR WALL</b>  | STSMirror+ Glass                        |
| <b>HANDRAIL</b>   | HR-01 (STS Polishing Pipe)              |
| <b>FLOOR</b>      | Deco tile (DM-02)                       |

---

The printcolor can be differnt front the axtual object









■ GS-G01



■ GS-G04



■ GS-G02



■ GS-G05



■ GS-G03



■ GS-G07



EP700



EP800



EP900



EP2300



EP1500



EP2000



EP1300



EP715  
Dublex



EP135  
Dublex



Classic  
Dublex



EP145  
Dublex



EP7005  
Dublex



EP7005



EP715



EP135



EP145



EP920  
LCD



EP920  
7Segment



EP995



EP1310



EP970



EP1550





HALL DOOR STS Hairline  
JAMB J-101(Narrow Jamb)  
HALL BUTTON HIB-01



HALL DOOR STS Hairline + LM-T2  
JAMB J-301 (Wide Jamb  
without Transom Panel)  
HALL BUTTON HIB-SW2



HALL DOOR fabric Metal  
JAMB J-101 (Narrow Jamb)  
HALL BUTTON HIB-SM2



HALL DOOR PCM (Wood)  
JAMB J-101(Narrow Jamb)  
HALL BUTTON HIB-SW2



HALL DOOR STS Hairline + LM-02  
JAMB J-311(Wide Jamb with Transom Panel)  
CPI HI-10X  
HALL BUTTON HB-02 / Foot button



HALL DOOR STS Inco Black Hairline + LM-03  
JAMB J-311(Wide Jamb with Transom Panel)  
CPI HI-SB  
HALL BUTTON HB-SB2 / Foot button (Ti Black)



HALL DOOR STS Mirror + LM-01  
JAMB J-Special(Wide Jamb with Transom Panel)  
CPI HI-13X  
HALL BUTTON HB-02  
HALL LANTERN HL-01R



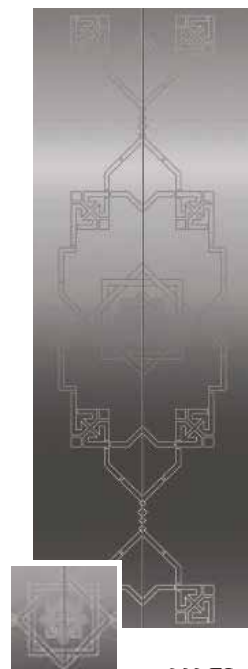
■ LM-08



■ LM-09



■ LM-10



■ LM-T2

## FABRIC METAL

■ Fabric  
metal (Deep Grey)

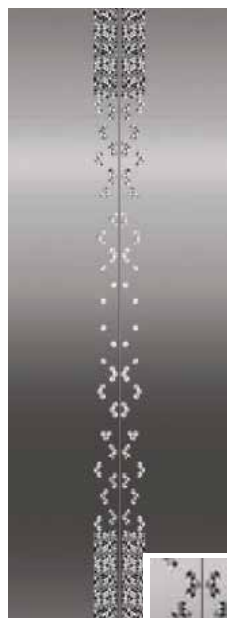
## VCM

■ VCM  
(Cubic)■ VCM  
(Vib)

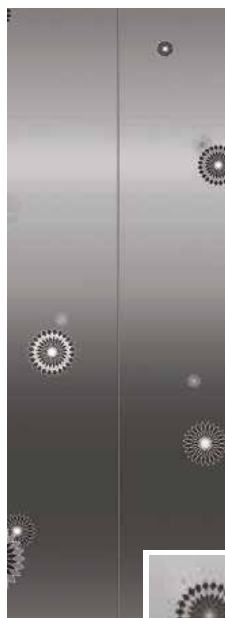
## GLASS

■ Printing  
Glass (White,gray)

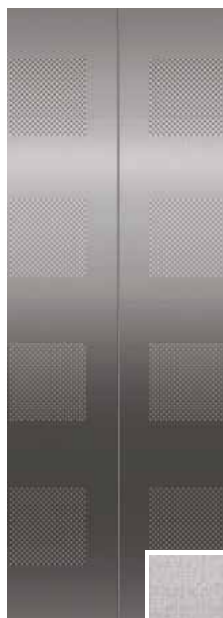
■ LASER MARKING



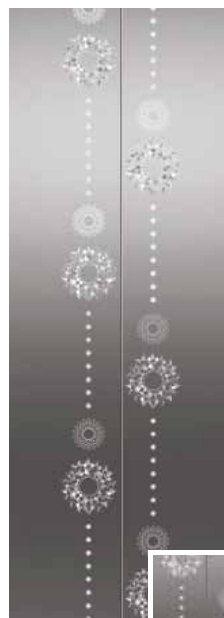
■ LM-01



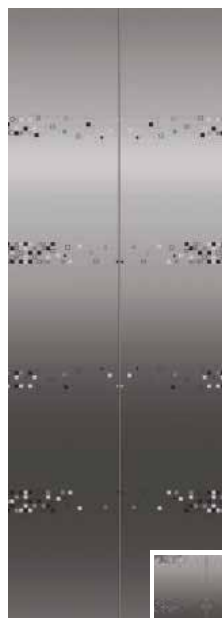
■ LM-03



■ LM-04



■ LM-05



■ LM-07



■ PCM



■ PCM  
[Wood]



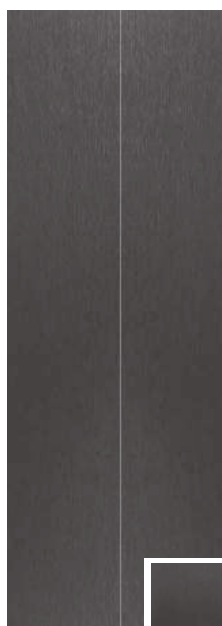
■ PCM  
[Sapiano]



■ PCM  
[Light wood]



■ PCM  
[Bronze Hairline]



■ PCM  
[Dark Grey]







CS - 05



CS - 06



CS - 07



CS - 08



CS - 21

CS - 235  
(RGB Color LED)

CS - 92



CS - L2



CS - L3

CS - S1  
(Slim Type : 70mm)CS - S2  
(Slim Type : 50mm)CS - S3  
(Slim Type : 70mm)



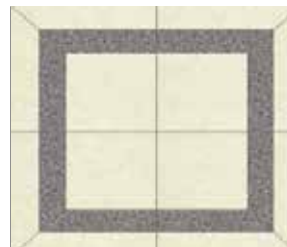
DM-01



DM-02



DM-03



DM-04



DM-05



DM-07



DM-08



DT-07



DT-09



DT-10



DT-10



DT-13



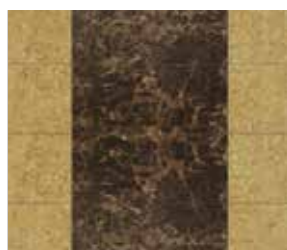
DT-15



DT-16



DT-17



DT-18

# Machine Room (MR) Lifts

We provide packages for machine room projects with different capacity ,speed and car travel. Now our experience and technical team allow us to develop every building with different purposes such as :Residential ,Commercial Buildings and Hospital

Behran, makine dairesi projesi için farklı kapasite, hız ve kabin seyri ile paket sunuyoruz.şimdi tecrübemiz ve teknik ekibimiz, aşağıdaki gibi farklı amaçlarla her türlü binayı geliştirmemize izin veriyor:konut, ticari bina ve hastane.

نحن نزود غرف المصاعد بمصاعد ذات استطاعات مختلفة، و سرعات و نقل للسيارة. في الوقت الحالي ان فريقنا الفني الخبير يقوم بتجهيز كل بناء مهما كان استخدامه، ان كات تجاريا او سكنيا او حتى المشافي بالمصاعد.

# Machine Room Less (MRL) Lifts

Behran offers suitable solutions for using elevators in projects that can not provide sufficient and suitable space to build a machine room. Elevators with low, medium, high capacity and different speeds that can be used in residential and commercial projects.

Behran, makine dairesi inşa etmek için yeterli ve uygun alan sağlamayan projelerde asansör kullanımına uygun bir çözüm sunar. Konut ve ticari projelerde kullanılabilen düşük, orta, yüksek kapasiteli ve farklı hızlara sahip asansörler.

ان بهران تمتلك الحل الأمثل لتلك المنشآت التي لا تمتلك مساحة كافية لمحرك المصعد. فلديها المصاعد ذات الاستطاعة المنخفضة والمتوسطة والكبيرة و بسرعات مختلفة تناسب الاستخدامات السكنية والتجارية

## Behran MR Series Machine Room Complete System

| Rated Load           | Kg  | 320                                   | 450 | 630 | 800 | 1,000 | 1,350 | 1,600 |
|----------------------|-----|---------------------------------------|-----|-----|-----|-------|-------|-------|
| Number of persons    |     | 4                                     | 6   | 8   | 10  | 13    | 18    | 21    |
| Rated Speed          | m/s | up to 3 m/s                           |     |     |     |       |       |       |
| Machine Room         |     | above the shaft                       |     |     |     |       |       |       |
| Door Type            |     | Telescopic, Right, Left, Central      |     |     |     |       |       |       |
| Nr. of Car Entrances |     | 1 Entrance or 2 Entrances             |     |     |     |       |       |       |
| Door Clear Opening   |     | 800 / 900 / 1000 / 1100 / 1200 / 1300 |     |     |     |       |       |       |
| Door Clear Height    |     | 2000 / 2100 / 2200                    |     |     |     |       |       |       |
| Max Nr. of Stops     |     | 35                                    |     |     |     |       |       |       |
| Max. Travel          | cm  | 11500                                 |     |     |     |       |       |       |
| min. Headroom        | cm  | 360                                   |     |     |     |       |       |       |
| min Pit Depth        | cm  | 140                                   |     |     |     |       |       |       |

### Motor Options



### Door Options



## Behran MRL Series Machine Room-Less Complete System

| Rated Load           | Kg  | 320                                   | 450 | 630 | 800 | 1,000 | 1,350 | 1,600 |
|----------------------|-----|---------------------------------------|-----|-----|-----|-------|-------|-------|
| Number of persons    |     | 4                                     | 6   | 8   | 10  | 13    | 18    | 21    |
| Rated Speed          | m/s | up to 3.0 m/s                         |     |     |     |       |       |       |
| Machine Room         |     | without                               |     |     |     |       |       |       |
| Door Type            |     | Telescopic, Right, Left, Central      |     |     |     |       |       |       |
| Nr. of Car Entrances |     | 1 Entrance or 2 Entrances             |     |     |     |       |       |       |
| Door Clear Opening   |     | 800 / 900 / 1000 / 1100 / 1200 / 1300 |     |     |     |       |       |       |
| Door Clear Height    |     | 2000 / 2100 / 2200                    |     |     |     |       |       |       |
| Max Nr. of Stops     |     | 35                                    |     |     |     |       |       |       |
| Max. Travel          | cm  | 11500                                 |     |     |     |       |       |       |
| min. Overhead        | cm  | 380                                   |     |     |     |       |       |       |
| min Pit Depth        | cm  | 140                                   |     |     |     |       |       |       |

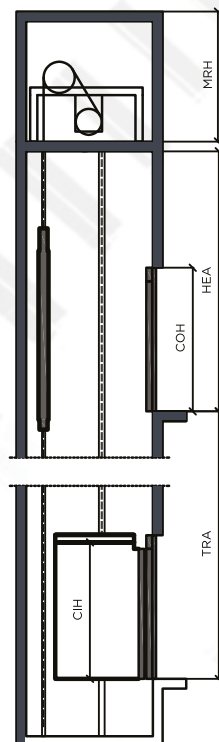
### Motor Options



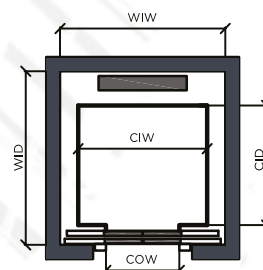
### Door Options



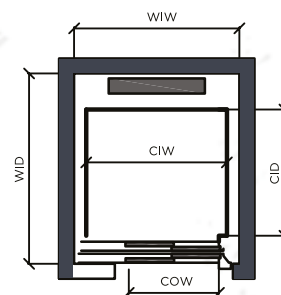




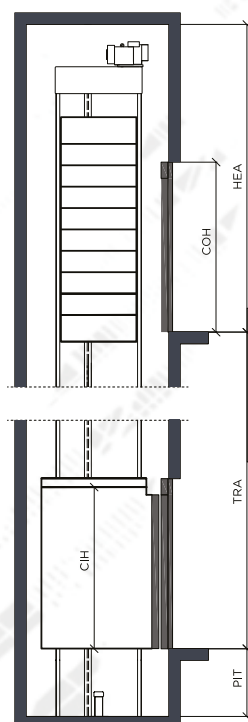
### Central



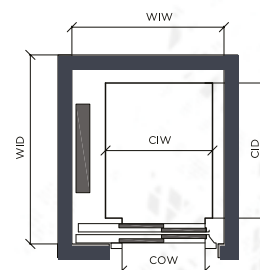
### Telescopic



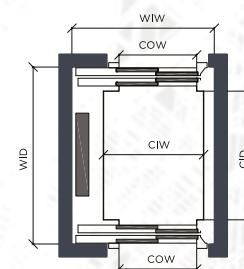
**Behran MR General Dimensions**



### Single Entrance

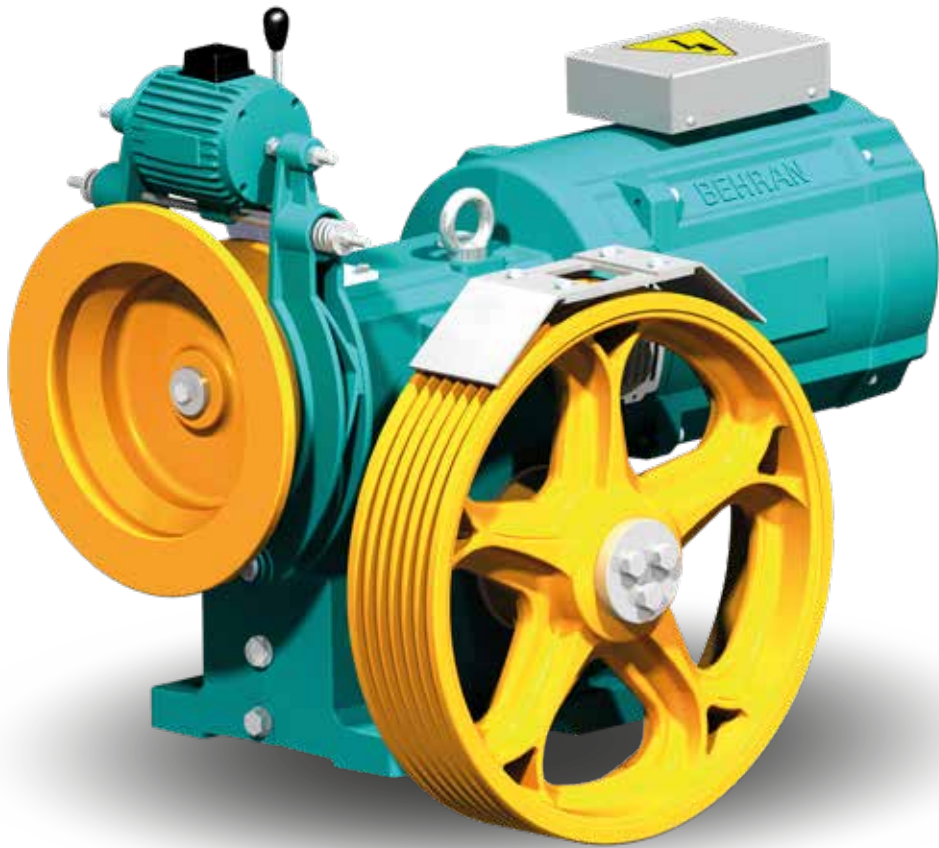


### Double Entrance



**Behran MRL General Dimensions**

**Elevator Gearbox Motors**  
**Dişlili asansör motorları**  
**محرك علبة السرعة للمصعد**





**SZUTEST**   
Accredited Inspection Company



## Superb Technical Features



Üstün Teknik Özellikler  
الأفضلية الفنية

### Worm Shaft & Gear



5 Micron Ultra-Precision  
CNC Machining

### Shaft



Hardened Worm Shaft

### Bearings



Heavy Duty Bearings  
High Grade

BL 240 Series  
BL 245 Series  
BL 260 Series  
BL 265 Series  
BL 280 Series

### Super Strength

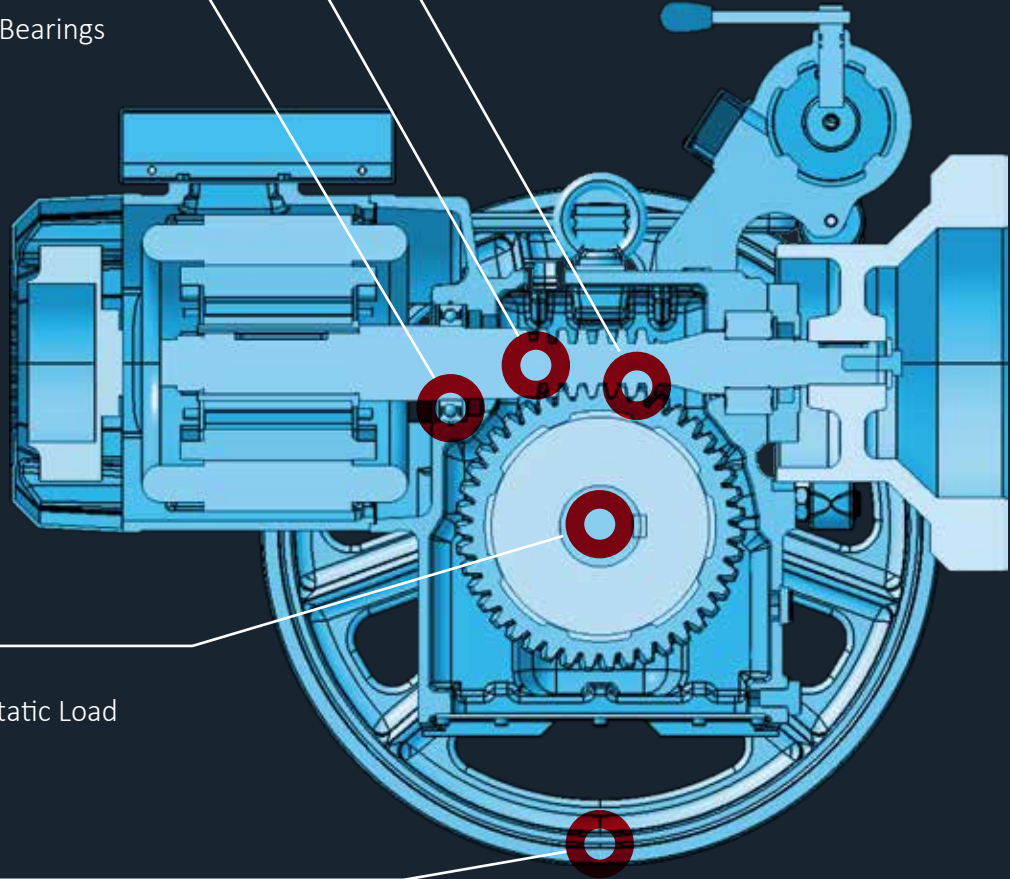


Ultra High Static Load

### Motor Pulley



Special Impact/Wear/Fatigue-Resistant  
Graphite-Rich Ductile Cast Iron





## Elevator GearBox Motor BL245 Series

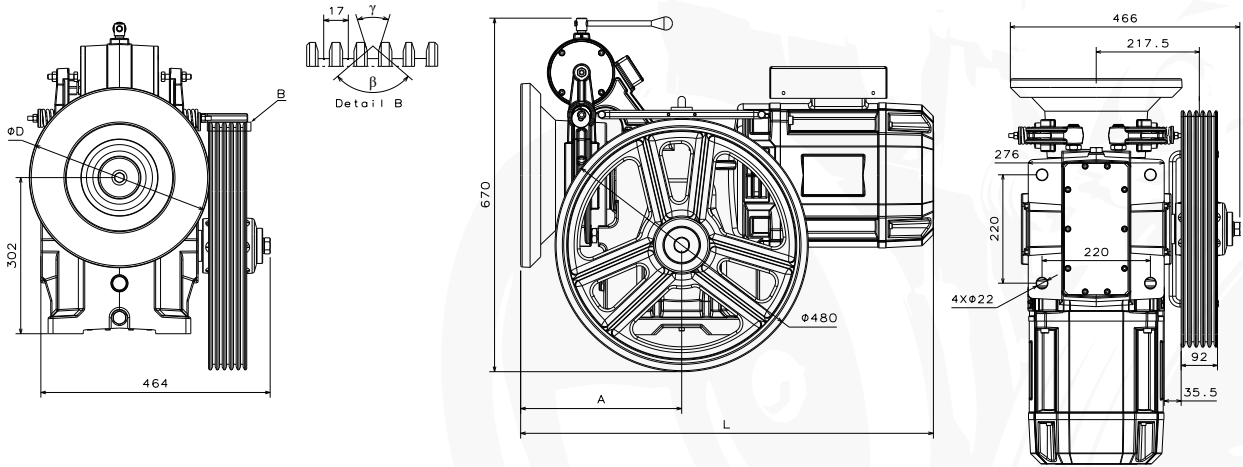


Dişlilı asansör motor BL245 serisi

محرك علبة السرعة من الجيل BL245



### Dimensions



### BL 245 Series

| Type  | Order No.    | Motor Type | Power (Kw) | MOTOR SPECIFICATION |      |         |      |      |      |       |      |            |            |           |     | GEARBOX SPECIFICATION |          |                  |                       |                           |                  |                    |                |           |               |                         |                           |        |        |        |     |     |      |
|-------|--------------|------------|------------|---------------------|------|---------|------|------|------|-------|------|------------|------------|-----------|-----|-----------------------|----------|------------------|-----------------------|---------------------------|------------------|--------------------|----------------|-----------|---------------|-------------------------|---------------------------|--------|--------|--------|-----|-----|------|
|       |              |            |            | Speed (rpm)         |      | Current |      |      |      |       |      | Freq. (Hz) | Voltage(V) | Poles Qty | ED% | Max.Start Per Hour    | Load(kg) | Max. Speed (m/s) | Max. Static Load (Kg) | Traction Sheave Dia. (mm) | Groove Angle (°) | Undercut Angle (°) | Rope Dia. (mm) | Rope Qty. | Gearbox Ratio | Efficiency %            |                           | L (mm) | A (mm) | D (mm) |     |     |      |
|       |              |            |            |                     |      | In      |      | Ist  |      | Cos Φ |      |            |            |           |     |                       |          |                  |                       |                           |                  |                    |                |           |               | Motor Efficiency ( ηm ) | Gearbox Efficiency ( ηg ) |        |        |        |     |     |      |
|       |              |            |            |                     |      |         |      |      |      |       |      |            |            |           |     |                       |          |                  |                       |                           |                  |                    |                |           |               |                         |                           |        |        |        |     |     |      |
|       |              |            |            | low                 | high | low     | high | low  | high | low   | high |            |            |           |     |                       |          |                  |                       |                           |                  |                    |                |           |               |                         |                           |        |        |        |     |     |      |
| BL245 | BE012161V110 | VVVF       | 6.1        | 1460                |      |         | 12.2 |      |      | 74    |      |            | 0.81       |           | 50  | 380                   | 4        | 40               | 240                   | 525                       | 1                | 2700               | 480            | 35        | 103           | 10                      | 5                         | 2/71   | 76     | 80     | 780 | 305 | ø349 |
|       | BE012161A110 | AC2        | 6.1        | 310                 | 1460 | 8.5     | 15   | 11.9 | 47.5 | 0.55  | 0.75 | 50         | 380        | 4/16      | 40  | 180                   | 525      | 1                | 2700                  | 480                       | 35               | 103                | 10             | 5         | 2/71          | 75                      | 80                        | 806    | 329    | ø324   |     |     |      |

● Quiet Operation ● Heavy-Duty construction ● Extreme Reliability



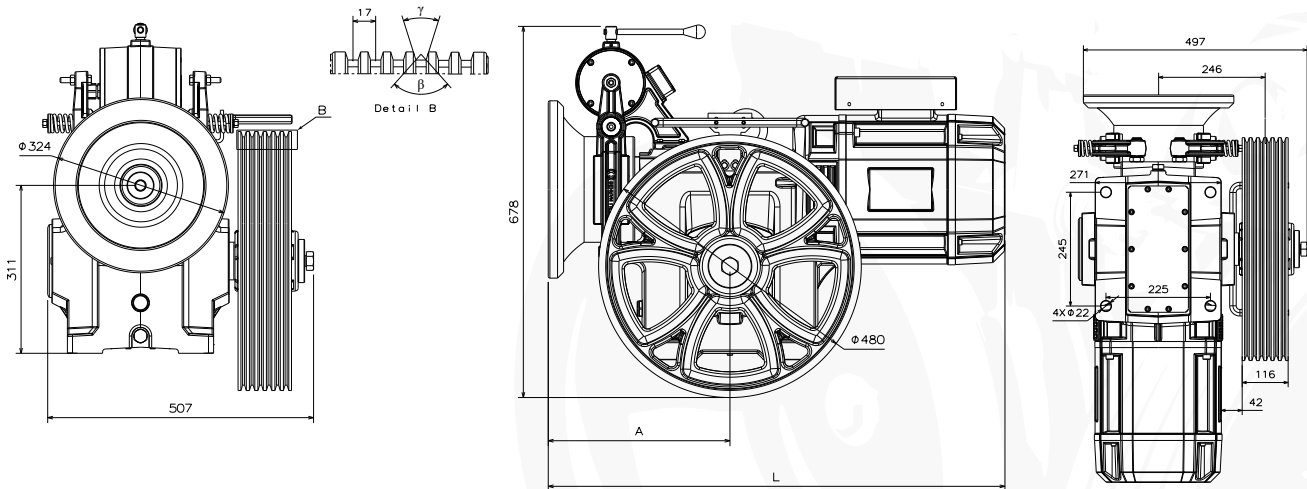
## Elevator GearBox Motor BL265 Series

Dişli asansör motor BL265 serisi

محرك علبة السرعة من الجيل BL265



### Dimensions



### BL 265 Series

| Type  | Order No.    | Motor Type | Power (kw) | MOTOR SPECIFICATION |         |         |          |     |     |       |    |            |            |           |      | GEARBOX SPECIFICATION |          |                  |                       |                           |                  |                    |                |           |               |                        |                          |        |        |  |
|-------|--------------|------------|------------|---------------------|---------|---------|----------|-----|-----|-------|----|------------|------------|-----------|------|-----------------------|----------|------------------|-----------------------|---------------------------|------------------|--------------------|----------------|-----------|---------------|------------------------|--------------------------|--------|--------|--|
|       |              |            |            | Speed (rpm)         |         | Current |          |     |     |       |    | Freq. (Hz) | Voltage(V) | Poles Qty | ED%  | Max.Start Per Hour    | Load(Kg) | Max. Speed (m/s) | Max. Static Load (Kg) | Traction Sheave Dia. (mm) | Groove Angle (°) | Undercut Angle (°) | Rope Dia. (mm) | Rope Qty. | Gearbox Ratio | Efficiency %           |                          | L (mm) | A (mm) |  |
|       |              |            |            |                     |         | In      |          | Ist |     | Cos Φ |    |            |            |           |      |                       |          |                  |                       |                           |                  |                    |                |           |               | Motor Efficiency ( % ) | Gearbox Efficiency ( % ) |        |        |  |
|       |              |            |            |                     |         |         |          |     |     |       |    |            |            |           |      |                       |          |                  |                       |                           |                  |                    |                |           |               |                        |                          |        |        |  |
| BL265 | BE011173V210 | VVF        | 7.3        | 1460                |         | 15      |          | 95  |     | 0.82  |    | 50         | 380        | 4         | 40   | 240                   | 750      | 1                | 3300                  | 480                       | 35               | 103                | 11             | 6         | 2/71          | 80                     | 80                       | 834    | 332    |  |
|       | BE011173A210 | AC2        | 7.3        | 310 1460            | 11 18.5 | 16 64   | 0.55 0.8 | 50  | 380 | 4/16  | 40 | 180        | 750        | 1         | 3300 | 480                   | 35       | 103              | 11                    | 6                         | 2/71             | 80                 | 80             | 915       | 356           |                        |                          |        |        |  |

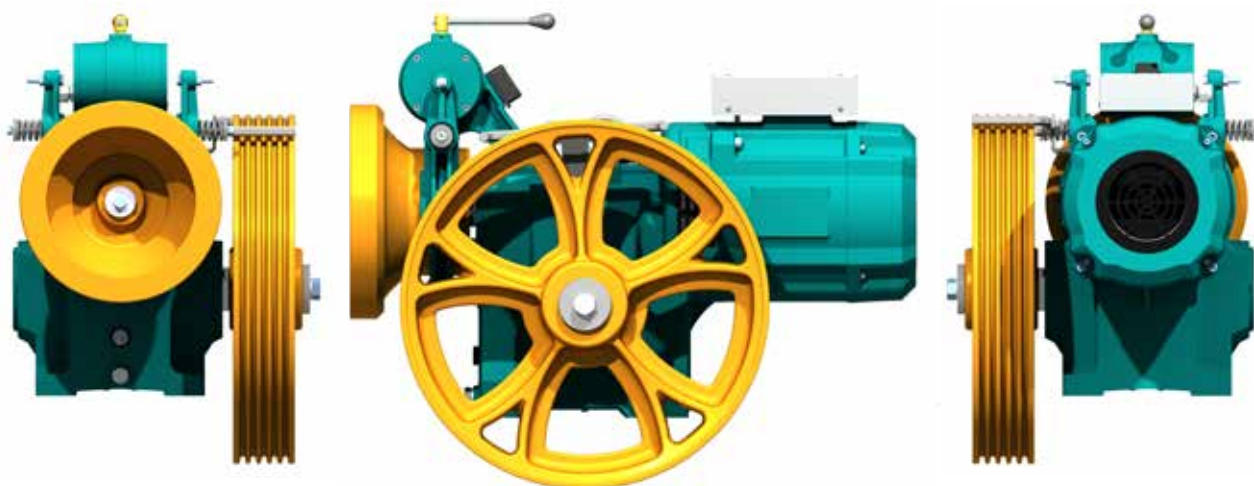
● Quiet Operation ● Heavy-Duty construction ● Extreme Reliability

## Elevator GearBox Motor BL260 Series

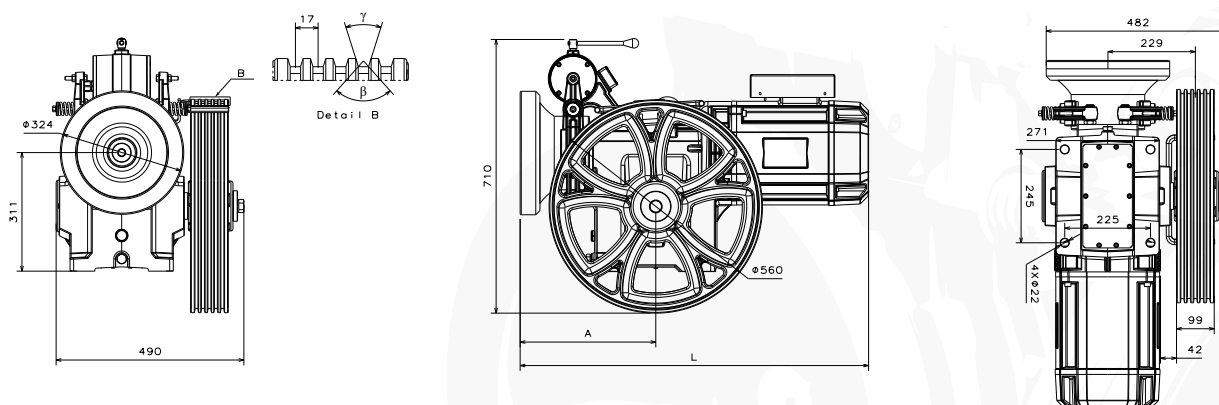


Dişli asansör motor BL260 serisi

محرك علبة السرعة من الجيل BL260



### Dimensions



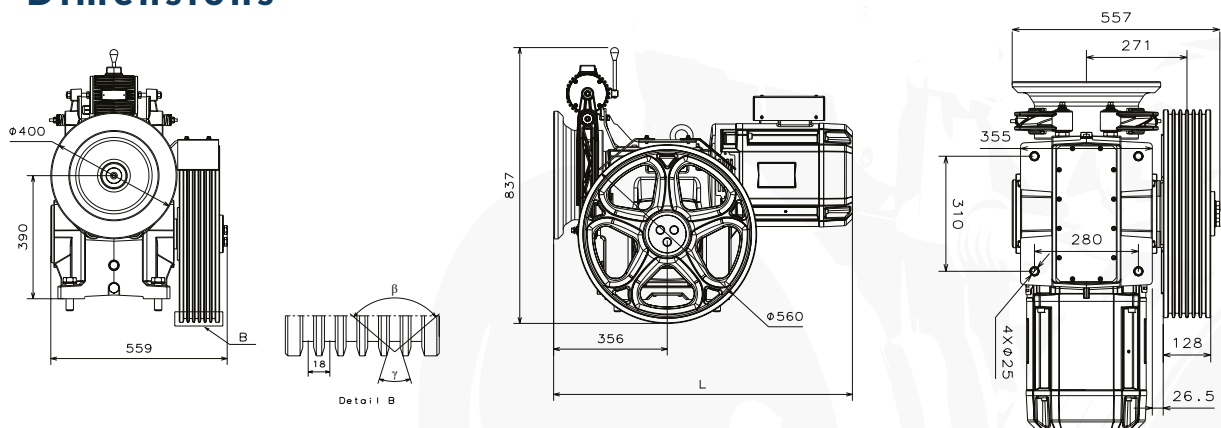
### BL 260 Series

| Type  | Order No.    | MOTOR SPECIFICATION |            |     |      |      |      |             |    |         |      |     |     |            |             | GEARBOX SPECIFICATION |     |                     |           |                  |                       |                           |                  |                    |                |           |               |            |     |        |        |   |  |
|-------|--------------|---------------------|------------|-----|------|------|------|-------------|----|---------|------|-----|-----|------------|-------------|-----------------------|-----|---------------------|-----------|------------------|-----------------------|---------------------------|------------------|--------------------|----------------|-----------|---------------|------------|-----|--------|--------|---|--|
|       |              | Motor Type          | Power (Kw) | low |      | high |      | Speed (rpm) |    | Current |      |     |     | Freq. (Hz) | Voltage (V) | Poles Qty.            | ED% | Max. Start Per Hour | Load (Kg) | Max. Speed (m/s) | Max. Static Load (Kg) | Traction Sheave Dia. (mm) | Groove Angle (°) | Undercut Angle (β) | Rope Dia. (mm) | Rope Qty. | Gearbox Ratio | Efficiency |     | L (mm) | A (mm) |   |  |
|       |              |                     |            |     |      |      |      |             |    | In      |      | Ist |     |            |             |                       |     |                     |           |                  |                       |                           |                  |                    |                |           |               | Cosφ       |     |        |        | % |  |
|       |              |                     |            |     |      |      |      |             |    |         |      |     |     |            |             |                       |     |                     |           |                  |                       |                           |                  |                    |                |           |               |            |     |        |        |   |  |
| BL260 | BE016173A210 | AC2                 | 7.3        | 310 | 1470 | 11   | 18.5 | 16          | 64 | 0.55    | 0.8  | 50  | 380 | 4/16       | 40          | 180                   | 630 | 1                   | 3100      | 560              | 35                    | 103                       | 10               | 5                  | 1/44           | 78        | 80            | 915        | 356 |        |        |   |  |
|       | BE016173V210 | VVVF                | 7.3        |     | 1470 |      | 15   |             | 95 |         | 0.82 | 50  | 380 | 4          | 40          | 240                   | 630 | 1                   | 3100      | 560              | 35                    | 103                       | 10               | 5                  | 1/44           | 80        | 80            | 834        | 332 |        |        |   |  |
|       | BE016173V316 | VVVF                | 7.3        |     | 1440 |      | 15   |             | 95 |         | 0.82 | 50  | 380 | 4          | 40          | 240                   | 450 | 1.6                 | 3100      | 560              | 35                    | 103                       | 10               | 5                  | 2/53           | 80        | 89            | 891        | 332 |        |        |   |  |
|       | BE016192V316 | VVVF                | 9.2        |     | 1440 |      | 17.6 |             | 90 |         | 0.86 | 50  | 380 | 4          | 40          | 240                   | 630 | 1.6                 | 3100      | 560              | 35                    | 97                        | 11               | 5                  | 2/53           | 81        | 89            | 891        | 332 |        |        |   |  |

● Quiet Operation ● Heavy-Duty construction ● Extreme Reliability



### Dimensions



### BL 280 Series

| Type  | Order No.    | Motor Type | MOTOR SPECIFICATION |             |      |         |      |     |      |      |      |            | GEARBOX SPECIFICATION |            |     |                     |           |                  |                       |                           |                  |                    |                |           |               |                       |                         |        |
|-------|--------------|------------|---------------------|-------------|------|---------|------|-----|------|------|------|------------|-----------------------|------------|-----|---------------------|-----------|------------------|-----------------------|---------------------------|------------------|--------------------|----------------|-----------|---------------|-----------------------|-------------------------|--------|
|       |              |            | Power (kw)          | Speed (rpm) |      | Current |      |     |      |      |      | Freq. (Hz) | Voltage (V)           | Poles Qty. | ED% | Max. Start Per Hour | Load (kg) | Max. Speed (m/s) | Max. Static Load (kg) | Traction Sheave Dia. (mm) | Groove Angle (°) | Undercut Angle (°) | Rope Dia. (mm) | Rope Qty. | Gearbox Ratio | Efficiency %          |                         | L (mm) |
|       |              |            |                     |             |      | In      |      | Ist |      | Cosφ |      |            |                       |            |     |                     |           |                  |                       |                           |                  |                    |                |           |               | Motor Efficiency (nm) | Gearbox Efficiency (ng) |        |
|       |              |            |                     | low         | high | low     | high | low | high | low  | high |            |                       |            |     |                     |           |                  |                       |                           |                  |                    |                |           |               |                       |                         |        |
| BL280 | BE018192V210 | VVVF       | 9.2                 | 1470        |      | 17.6    |      | 90  |      | 0.86 | 50   | 380        | 4                     | 40         | 240 | 975                 | 1         | 5000             | 560                   | 35                        | 97               | 12                 | 5              | 1/44      | 89            | 85                    | 976                     |        |
|       | BE018182V210 | VVVF       | 11.2                | 1470        |      | 22      |      | 90  |      | 0.88 | 50   | 380        | 4                     | 40         | 240 | 1200                | 1         | 5000             | 560                   | 35                        | 97               | 12                 | 6              | 1/44      | 89            | 85                    | 976                     |        |
|       | BE018192V316 | VVVF       | 9.2                 | 1440        |      | 17.6    |      | 90  |      | 0.86 | 50   | 380        | 4                     | 40         | 240 | 750                 | 1.6       | 5000             | 560                   | 35                        | 97               | 12                 | 5              | 2/53      | 89            | 89                    | 976                     |        |
|       | BE018182V316 | VVVF       | 11.2                | 1440        |      | 22      |      | 90  |      | 0.88 | 50   | 380        | 4                     | 40         | 240 | 850                 | 1.6       | 5000             | 560                   | 35                        | 97               | 12                 | 5              | 2/53      | 89            | 89                    | 976                     |        |
|       | BE0181D2V316 | VVVF       | 13.2                | 1440        |      | 25      |      | 120 |      | 0.9  | 50   | 380        | 4                     | 40         | 240 | 975                 | 1.6       | 5000             | 560                   | 35                        | 97               | 12                 | 5              | 2/53      | 89            | 89                    | 976                     |        |
|       | BE0181F2V316 | VVVF       | 15.2                | 1440        |      | 30      |      | 120 |      | 0.9  | 50   | 380        | 4                     | 40         | 240 | 1200                | 1.6       | 5000             | 560                   | 35                        | 97               | 12                 | 6              | 2/53      | 89            | 89                    | 976                     |        |

● Quiet Operation ● Heavy-Duty construction ● Extreme Reliability



## Escalator Gearbox Motors

Dişlili yürüyen merdiven motorları

محرك علبة السرعة للسالم الكهربائية





**SZUTEST**   
Accredited Inspection Company

## Superb Technical Features



Üstün Teknik Özellikler  
الأفضلية الفنية

BS140 Series

### Worm Shaft & Gear



5 Micron Ultra-Precision  
CNC Machining

### Bearings

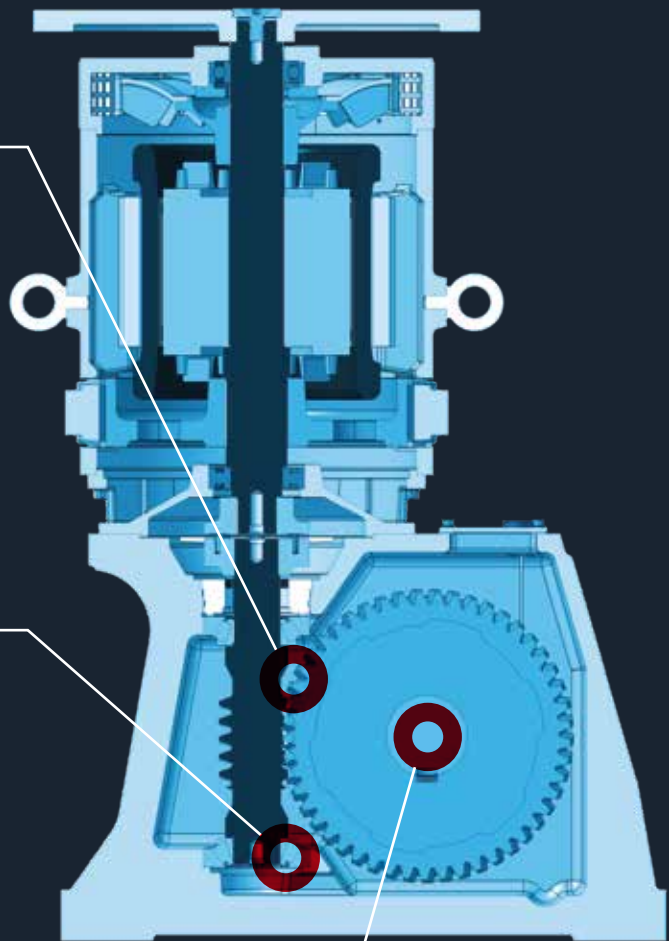


Heavy Duty Bearings  
High Grade

### Super Strength



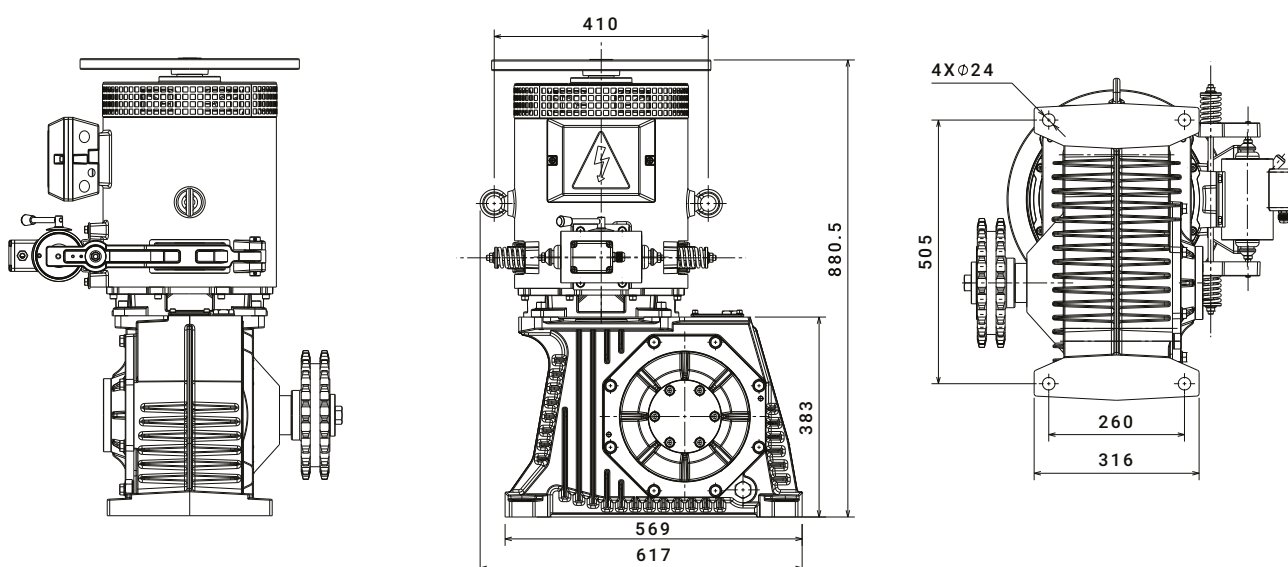
Ultra High Strength







### Dimensions



### BS140 series

| Order No.    | Motor Type | Power (Kw) | Speed (rpm) | Current |         |      | Freq. (Hz) | Voltage (V) | Poles Qty. | ED% | Ins. Class | Brake Voltage (V) |
|--------------|------------|------------|-------------|---------|---------|------|------------|-------------|------------|-----|------------|-------------------|
|              |            |            |             | In (A)  | Ist (A) | Cosφ |            |             |            |     |            |                   |
| BE031175AAXX | VVVF       | 7.5        | 960         | 16      | 83      | 0.77 | 50         | 380         | 6          | S1  | F          | AC 220            |
| BE0311B0AAXX | VVVF       | 11         | 960         | 24      | 105     | 0.82 | 50         | 380         | 6          | S1  | F          | AC 220            |

● Quiet Operation ● Heavy-Duty construction ● Extreme Reliability

**Elevator Gearless Motors**  
**Dişlisiz Asansör Motorları**  
للمصعد (GEARLESS) محرك بلا مسننات





**SZUTEST**   
Accredited Inspection Company

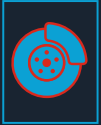


## Superb Technical Features



Üstün Teknik Özellikler  
الأفضلية الفنية

### Motor Brake



Reliable performance

BM Series

### Bearings



Heavy Duty Bearings  
High Grade

### Super Strength



Ultra High Static Load

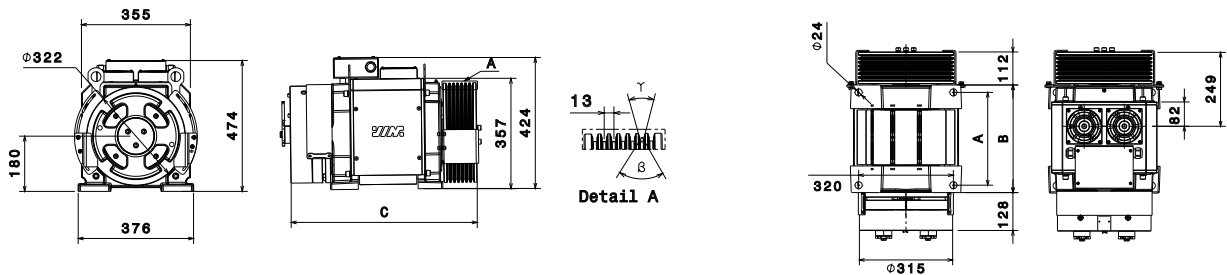
### Motor Pulley



Special Impact/Wear/Fatigue-Resistant  
Graphite-Rich Ductile Cast Iron



### Dimensions



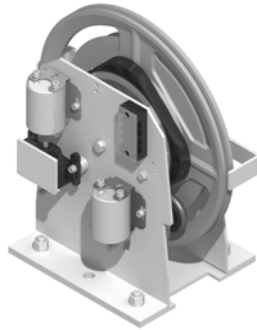
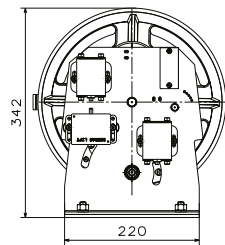
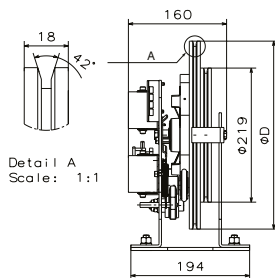
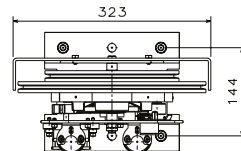
### BM Series

| SERIES | Order number | Traction Ratio | Load (kg) | Max. axle load (kg) | Elevator Speed (m/s) | Rated Speed (RPM) | Rated Torque (N.m) | MOTOR      |             |             |           |                |
|--------|--------------|----------------|-----------|---------------------|----------------------|-------------------|--------------------|------------|-------------|-------------|-----------|----------------|
|        |              |                |           |                     |                      |                   |                    | Power (Kw) | Voltage (V) | Current (A) | Poles (P) | Frequency (Hz) |
| BM320  | BE0211351028 | 02:01          | 480       | 3500                | 1.0                  | 119               | 281                | 3.5        | 380         | 8.8         | 10        | 19.8           |
|        | BE0211551627 | 02:01          | 450       | 3500                | 1.6                  | 191               | 275                | 5.5        | 380         | 12.2        | 10        | 31.8           |
|        | BE0211451036 | 02:01          | 630       | 3500                | 1.0                  | 119               | 361                | 4.5        | 380         | 11.2        | 10        | 19.8           |
|        | BE0211681634 | 02:01          | 630       | 3500                | 1.6                  | 191               | 340                | 6.8        | 380         | 16.6        | 10        | 31.8           |
|        | BE0211561045 | 02:01          | 800       | 3500                | 1.0                  | 119               | 450                | 5.6        | 380         | 12.0        | 10        | 19.8           |
|        | BE0211891644 | 02:01          | 800       | 3500                | 1.6                  | 191               | 445                | 8.9        | 380         | 19.9        | 10        | 31.8           |
| BM360  | BE0221691055 | 02:01          | 1000      | 3500                | 1.0                  | 119               | 554                | 6.9        | 380         | 14.8        | 10        | 19.8           |
|        | BE0221A81654 | 02:01          | 1000      | 3500                | 1.6                  | 191               | 540                | 10.8       | 380         | 25.0        | 10        | 31.8           |

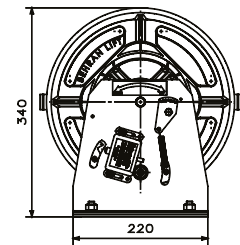
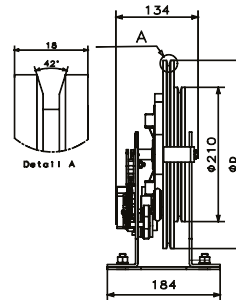
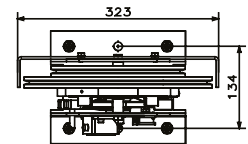
| SERIES | MODEL        | BRAKE       |                    | Sheave        |                |           |             |             |                   | Weight (Kg) | A   | B   | C   |
|--------|--------------|-------------|--------------------|---------------|----------------|-----------|-------------|-------------|-------------------|-------------|-----|-----|-----|
|        |              | Voltage (V) | Brake Torque (N.m) | Diameter (mm) | Rope Dia. (mm) | Rope Qty. | β angle (°) | γ angle (°) | Groove Pitch (mm) |             |     |     |     |
| BM320  | BE0211351028 | DC 207      | 2x500              | φ 320         | φ8             | 5         | 95          | U/30        | 13                | 305         | 315 | 365 | 654 |
|        | BE0211551627 | DC 207      | 2x500              | φ 320         | φ8             | 5         | 95          | U/30        | 13                | 305         | 315 | 365 | 654 |
|        | BE0211451036 | DC 207      | 2x500              | φ 320         | φ8             | 5         | 95          | U/30        | 13                | 305         | 315 | 365 | 654 |
|        | BE0211681634 | DC 207      | 2x500              | φ 320         | φ8             | 5         | 95          | U/30        | 13                | 305         | 315 | 365 | 654 |
|        | BE0211561045 | DC 207      | 2x500              | φ 320         | φ8             | 6         | 95          | U/30        | 13                | 305         | 315 | 365 | 654 |
|        | BE0211891644 | DC 207      | 2x500              | φ 320         | φ8             | 6         | 95          | U/30        | 13                | 305         | 315 | 365 | 654 |
| BM360  | BE0221691055 | DC 207      | 2x800              | φ 320         | φ8             | 7         | 95          | U/30        | 13                | 330         | 355 | 405 | 694 |
|        | BE0221A81654 | DC 207      | 2x800              | φ 320         | φ8             | 7         | 95          | U/30        | 13                | 330         | 355 | 405 | 694 |

● Quiet Operation ● Heavy-Duty construction ● Extreme Reliability

حاكم المصعد (GOVERNOR)

**MRL**

MR

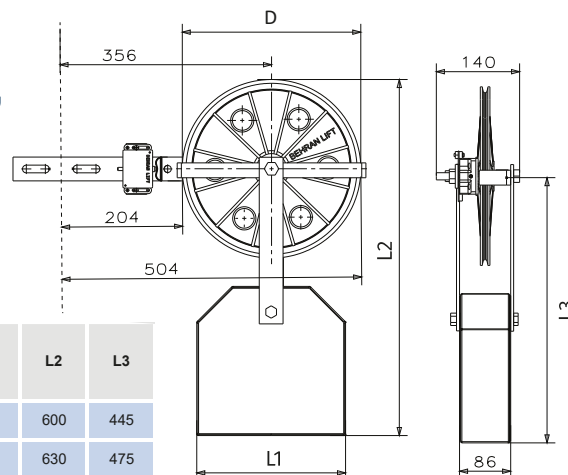


| order No     |              | Operation      | D<br>(mm) | V <sub>n</sub><br>(m/s) | V <sub>tr</sub><br>(m/s) |      | V <sub>e</sub><br>(m/s) |      | Wire<br>Rope<br>Dia. |
|--------------|--------------|----------------|-----------|-------------------------|--------------------------|------|-------------------------|------|----------------------|
| MR           | MRL          |                |           |                         | Down                     | Up   | Down                    | Up   |                      |
| BE4011UA1630 | BE4011UL1630 | Unidirectional | 300       | 0.50                    | 0.70                     | —    | 0.65                    | —    | 6                    |
| BE4011UA1730 | BE4011UL1730 | Unidirectional | 300       | 0.8                     | 0.99                     | —    | 0.93                    | —    | 6                    |
| BE4011UA1130 | BE4011UL1130 | Unidirectional | 300       | 1.00                    | 1.28                     | —    | 1.23                    | —    | 6                    |
| BE4011UA2130 | BE4011UL2130 | Bidirectional  | 300       |                         | 1.28                     | 1.28 | 1.23                    | 1.23 | 6                    |
| BE4011UA1230 | BE4011UL1230 | Unidirectional | 300       | 1.6                     | 1.98                     | —    | 1.93                    | —    | 6                    |
| BE4011UA2230 | BE4011UL2230 | Bidirectional  | 300       |                         | 1.98                     | 1.98 | 1.93                    | 1.93 | 6                    |

## Over Speed Governor Tension Device

## Ağırlıklı Gerdirme

بكرة سحب الحاكم (GOVERNOR)



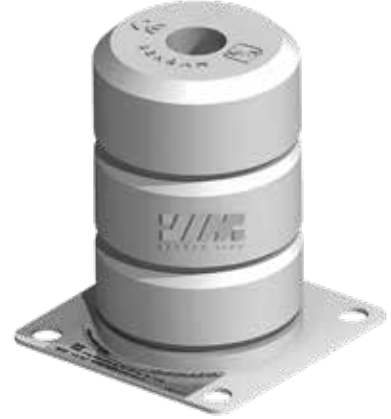
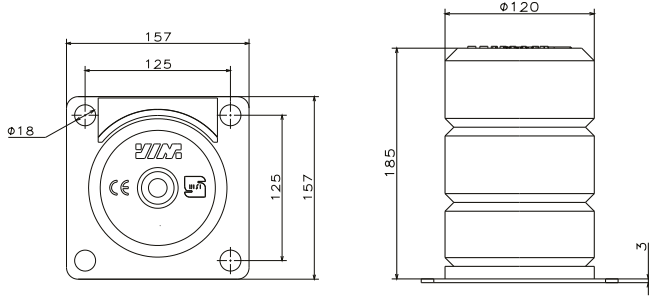
| Order No.    | D<br>(mm) | V<br>(m/s)  | Wire Rope<br>Dia.<br>(mm) | Weight<br>(kg) | L1  | L2  | L3  |
|--------------|-----------|-------------|---------------------------|----------------|-----|-----|-----|
| BE4011DXX23H | 300       | 1.00 - 1.60 | 6                         | 18             | 250 | 600 | 445 |
| BE4011FXX23H | 300       | 1.00 - 1.60 | 6                         | 30             | 330 | 630 | 475 |



## Polyurethane Buffer

## Poliüretan Tampon

ماص الصدمات البلي اورتان

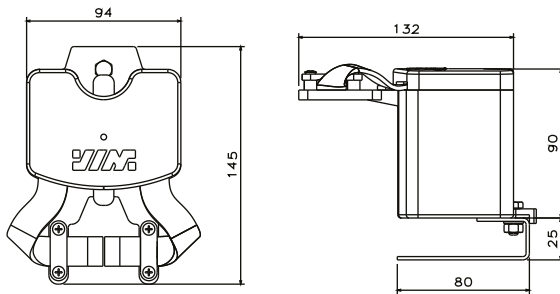


| Order No.    | P+Q (kg) |      | Vmax<br>(m/s) |
|--------------|----------|------|---------------|
|              | Min.     | Max. |               |
| BE4111P41510 | 400      | 1500 | 1             |

## Rail Lubricator

## Ray Yağdanlık

قدر الزيت للسكة



Order No. BE08614590XI

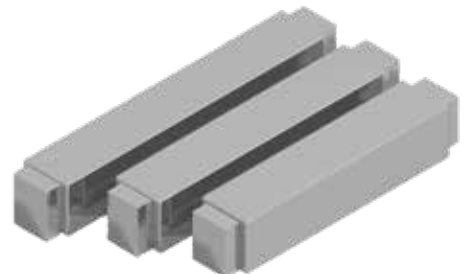
## Counter Weights

## karşı Ağırlıklar

اثقال التوازن



| Order No.    | Size | Dimension (mm) |     |     |     | Net Weight<br>(kg) |
|--------------|------|----------------|-----|-----|-----|--------------------|
|              |      | L1             | L2  | H   | W   |                    |
| BE09113A6750 | 78   | 780            | 670 | 150 | 150 | 50                 |
| BE09113B7656 | 86   | 860            | 760 | 150 | 150 | 56                 |
| BE09113C8666 | 97   | 970            | 860 | 150 | 150 | 66                 |

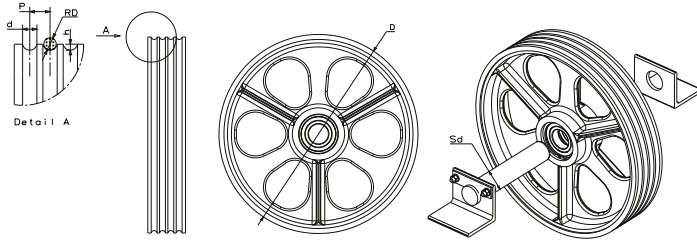


## Saptırma Kasnak

## Deflection Pulley



### بكرة التدوير



| Order NO.    | Rope Dia. (Rd) | D   | Groove No. n | d  | h   | Shaft Dia. (Sd) |
|--------------|----------------|-----|--------------|----|-----|-----------------|
|              | mm             | mm  | n            | mm | mm  | mm              |
| BE0611XXCX24 | 6              | 240 | 5-6-7-8      | 7  | 3   | 55              |
| BE0611XXCX33 | 8              | 320 | 5-6-7-8      | 9  | 4   | 55              |
| BE0611XX4X40 | 10             | 400 | 4            | 11 | 5   | 40              |
| BE0611XX5X40 | 10             | 400 | 5            | 11 | 5   | 40              |
| BE0611XX5X40 | 11             | 440 | 5            | 12 | 5   | 40              |
| BE0611XXAX44 | 11             | 440 | 4-6          | 12 | 5   | 40              |
| BE0611XXBX48 | 12             | 480 | 4-5-6-7-8    | 13 | 6   | 55              |
| BE0611XXBX52 | 13             | 520 | 4-5-6-7-8    | 14 | 6.5 | 55              |



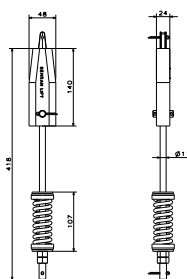
We provide you other size of deflection pulley as soon as possible  
[Size mümkün olan en kısa sürede diğer boyutta saptırma kasnağı sağlıyoruz.](#)  
 نحن نقدم لك حجم آخر من بكرة الانحراف في أسرع وقت ممكن

## Halat şişesi

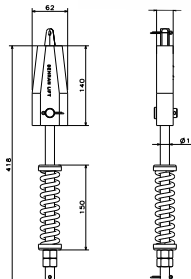
## Wire Rope Holder

### خطاف (موديل فوج)

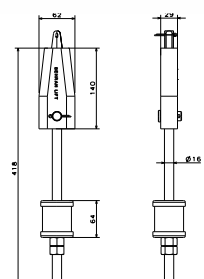
| ORDER NO.    | Wire Rope Dia. (mm) |   |    |    | Bolt Diameter | Nominal Weight (kg) | Max. Weight (kg) |
|--------------|---------------------|---|----|----|---------------|---------------------|------------------|
|              | 6                   | 8 | 10 | 11 |               |                     |                  |
| BE20410608F1 | ✓                   | ✓ | -  | -  | M12           | 3000                | 4000             |
| BE20411011F1 | -                   | - | ✓  | ✓  | M16           | 6000                | 7700             |
| BE20411011F2 | -                   | - | ✓  | ✓  | M16           | 6000                | 7700             |



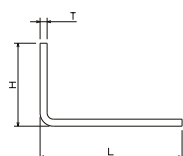
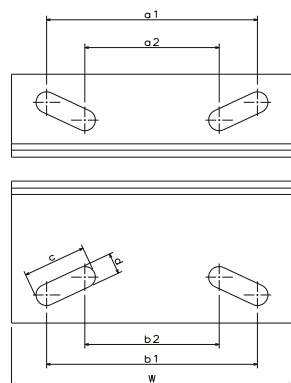
BE20410608F1



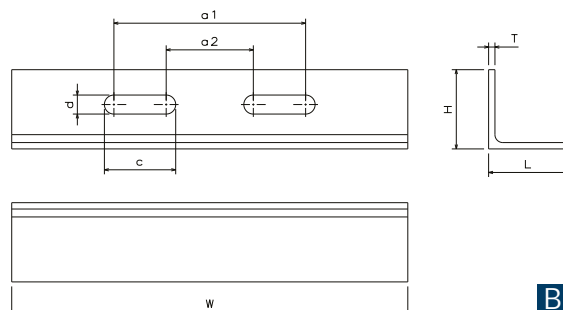
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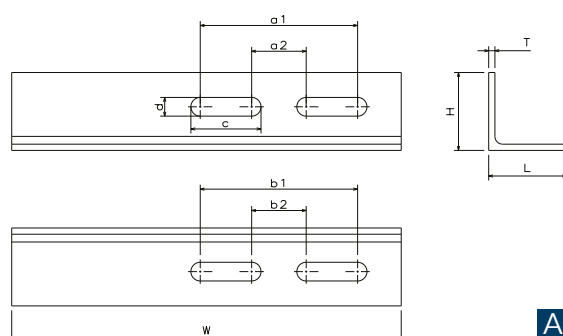
BE20411011F2



C



B



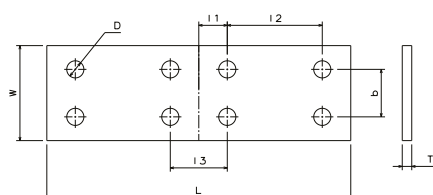
A

| Order No.    | Guide Rails | Dimension (mm) |     |     |    |      |    |     |    |     |    | Drawing Type |
|--------------|-------------|----------------|-----|-----|----|------|----|-----|----|-----|----|--------------|
|              |             | T              | W   | L   | H  | d    | c  | a1  | a2 | b1  | b2 |              |
| BE08245504A1 | T45,T50     | 5              | 250 | 50  | 50 | 12.5 | 45 | 100 | 35 | -   | -  | A            |
| BE08245504A2 | T45,T50     | 5              | 250 | 50  | 50 | 12.5 | 45 | -   | -  | 100 | 35 | A            |
| BE08245504A3 | T45,T50     | 5              | 250 | 50  | 50 | 12.5 | 45 | 100 | 35 | 100 | 35 | A            |
| BE08270754B1 | T70,T75     | 5              | 250 | 50  | 50 | 12.5 | 45 | 100 | 35 | -   | -  | B            |
| BE08270754C1 | T70,T75     | 4              | 150 | 100 | 60 | 12.5 | 45 | 114 | 55 | 114 | 55 | C            |
| BE08270755C2 | T70,T75     | 5              | 150 | 100 | 60 | 12.5 | 45 | 114 | 55 | 114 | 55 | C            |
| BE08289904C3 | T89,T90     | 4              | 200 | 100 | 60 | 15   | 45 | 150 | 96 | 150 | 96 | C            |
| BE08289905C4 | T89,T90     | 5              | 200 | 100 | 60 | 15   | 45 | 150 | 96 | 150 | 96 | C            |

## Fish Plates

## Ray Flansi

## حزام السكة



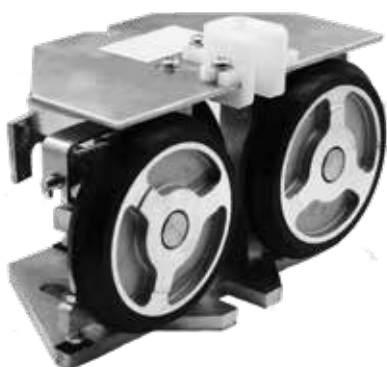
| Order No.    | Guide Rails<br>/iso    | Dimension (mm) |     |    |    |      |      |      |      | Screw Size |
|--------------|------------------------|----------------|-----|----|----|------|------|------|------|------------|
|              |                        | T              | L   | W  | D  | I1   | I2   | I3   | b    |            |
| BE08545XX2XX | T45                    | 5              | 160 | 50 | 9  | 15   | 50   | 30   | 25   | M8         |
| BE08550XX2XX | T50                    | 5              | 180 | 50 | 9  | 25   | 50   | 50   | 30   | M8         |
| BE08570XX2XX | T70 / A&B<br>T75 / A&B | 8              | 250 | 70 | 13 | 25   | 80   | 50   | 42   | M12        |
| BE08590XX2XX | T89 / A&B<br>T90 / A&B | 10             | 280 | 90 | 13 | 38.1 | 76.2 | 76.2 | 57.2 | M12        |



## Makaralı paten

بكرة توجيه

## Roller Guide Shoes

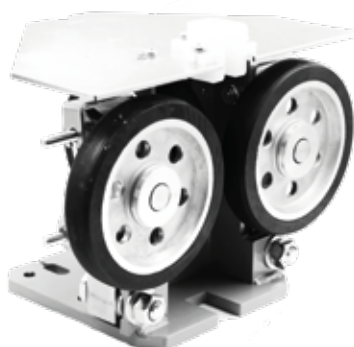


Order No.

BE 08A19F0010

Order No.

CC 08A1250010



Order No.

BE 08B19F0010

Order No.

CC 08B1250010

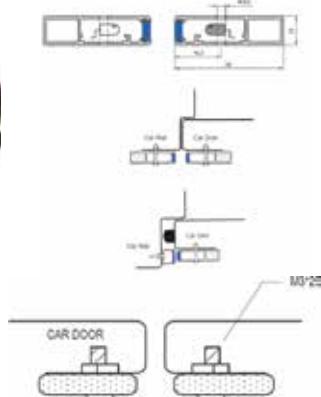


| Roler Guide Shoes | Order Number | max. Nominal Speed |          | Allowable Gross Mass (kg) |
|-------------------|--------------|--------------------|----------|---------------------------|
|                   |              | Cabin Side         | CWT Side |                           |
|                   | BE08A19F0010 | 2.5 m/s            | 7.0m/s   | 1,600                     |
|                   | BE08B19F0010 | 4.0 m/s            | 7.0 m/s  | 2,000                     |
|                   | CC08A1250010 | 2.5 m/s            | 7.0 m/s  | 1,600                     |
|                   | CC08B1250010 | 4.0 m/s            | 7.0 m/s  | 2,000                     |

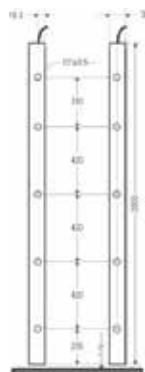
## Elevator Car Door Detector

Asansör kapı fotoseli

خلية كهروضوئية



Mounting Position



### Elevator Car Door Detector -Model BL- B - 32

|                           |               |
|---------------------------|---------------|
| Order No.                 | BE 9041320000 |
| Number of Infrared Diodes | 32            |
| Supply Voltage            | 24VDC         |
| Mechanical Dimensions     | 10*38*2000 mm |
| Operating Temperature     | -20℃ ~ +65℃   |
| Detection Height          | 20 ~ + 1841mm |
| Scanning Beams            | 128 Beams     |
| Protection Level          | IP54          |
| Detection Range           | 0 ~ 4m        |

## Traveling Cable

## Flexible Kablo

## كابل انتقال

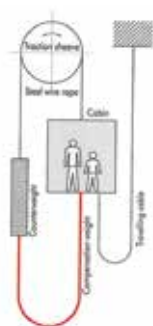


| Order No.    | Description                                                   |
|--------------|---------------------------------------------------------------|
| BE9012400000 | 24x0.75mm <sup>2</sup>                                        |
| BE9012000000 | 20x0.75mm <sup>2</sup>                                        |
| BE9011800000 | 18x0.75mm <sup>2</sup>                                        |
| BE9011200000 | 12x0.75mm <sup>2</sup>                                        |
| BE9011803010 | 18x0.75mm <sup>3</sup> + 2 x 1.5mm <sup>1</sup> + 2 x 0.75PX2 |

## Compensation Chains

## Kompanzasyon Zincirleri

## سلاسل المصعد



Balance Chains Apparatus



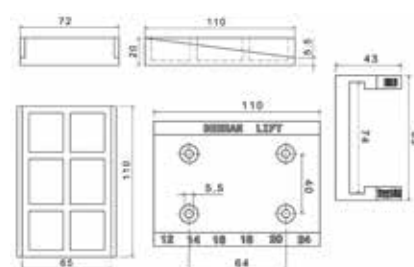
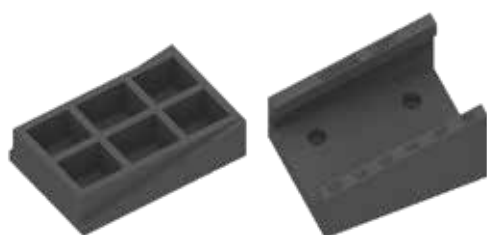
| Order No.    | type  | Unit Weight (Kg/m) | External Diameter (mm) | Bending Diameter (mm) | Diameter of Link (mm) | Breaking Load (Kg) | Maximum Hange (mm) |
|--------------|-------|--------------------|------------------------|-----------------------|-----------------------|--------------------|--------------------|
| BE0911100224 | QL150 | 2.24± 0.20         | 32.0±2.3               | 610.0                 | 7.8± 0.5              | ≥23.68             | 130                |
| BE0911200298 | QL200 | 2.98± 0.20         | 38.0±2.5               | 660.0                 | 9.5± 0.5              | ≥29.97             | 160                |
| BE0911300373 | QL250 | 3.73± 0.20         | 42.0±2.5               | 660.0                 | 10.0± 0.5             | ≥37.00             | 142                |
| BE0911400447 | QL300 | 4.47± 0.20         | 44.0±2.5               | 660.0                 | 11.0± 0.5             | ≥44.70             | 153                |

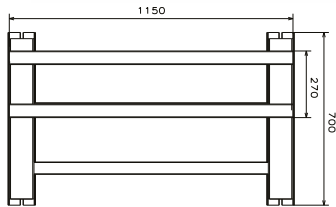
## Traveling Cable Bracket (OS)

## Flexible Kablo Konsolu (OS)

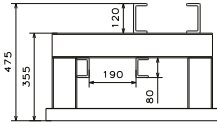
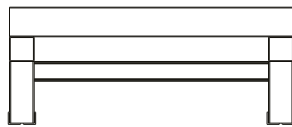
## (OS) سنادة كابل النقل

|           |               |
|-----------|---------------|
| Order No. | BE 9021000000 |
|-----------|---------------|

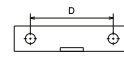




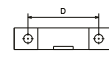
| Order No.    | Gearbox         | Drawing Type | L (mm) | D (mm) |
|--------------|-----------------|--------------|--------|--------|
| BE10201A1XXX | BehranBL240     | A            | 280    | 220    |
| BE10201A2XXX | BehranBL260     | A            | 280    | 225    |
| BE10201A3XXX | BehranBL280     | A            | 360    | 280    |
| BE10201GEXXX | GEM             | A            | 250    | 180    |
| BE10201SLXXX | SASSI LEO       | B            | 250    | 150    |
| BE10201SJXXX | SASSI JEKO      | B            | 250    | 150    |
| BE10201SMXXX | SASSIMF48       | B            | 300    | 230    |
| BE10201MOXXX | Montanari       | B            | 280    | 220    |
| BE10201SIXXX | Sicor (Elecomp) | C            | 245    | 180    |



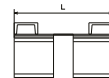
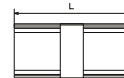
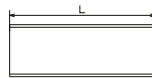
A



B



C

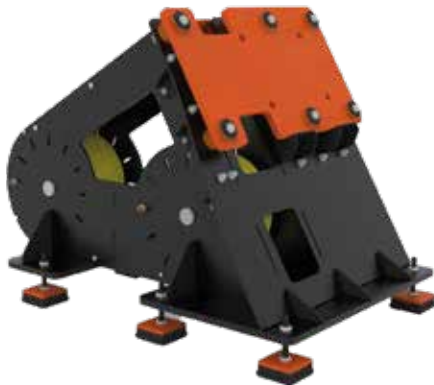


## Ziehl-Abegg Gearless Machine Frame

## Ziehl-Abegg Dişlisiz Makina Şasesi

## قاعدة موتور (gearless) بلا مسننات

| Order No.    | Product                   |
|--------------|---------------------------|
| BE10201ZIXXX | sam-machine-frame-product |







- No need for welding operation on elevator guide rails.
- Easy to replace in case of failure
- Higher accuracy in installation
- Providing higher control over guide rail operation
- More strength

- Raylarda kaynak işleminin ortadan kaldırılması
- problem durumunda kolayca değiştirilebilmek
- Montaj daha yüksek doğruluk
- Kılavuz ray çalışması üzerinde daha yüksek kontrol sağlanması
- Güçte artış

- الغاء عمليات اللحام على السكة
- يتملك قابلية التبديل السهل عند ظهور المشكلات
- رفع نسبة الدقة عند التركيب بسبب تراكبية المرباط
- التحكم الأفضل بالسكة
- رفع مستوى المتانة و الثبات



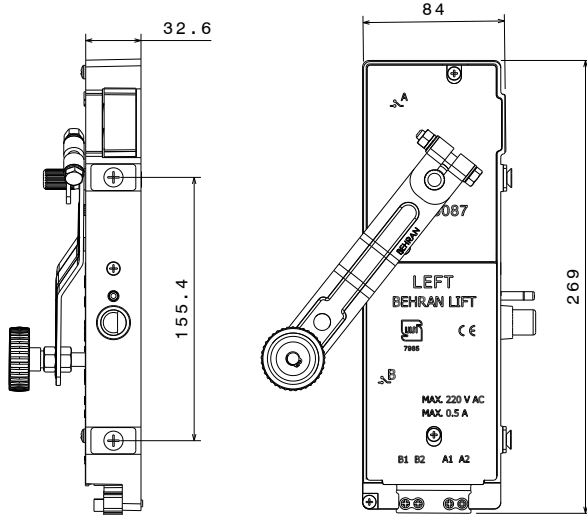
| Order No.    | Product             |
|--------------|---------------------|
| BE08AL050XAB | AB-L50              |
| BE08AL150XAB | AB-L150             |
| BE08AJOLFXXX | JolfaBrackets       |
| BE08A1702XCB | LGO-1702-CB         |
| BE08A1702XCS | LGO-1702-CBS        |
| BE08A1703XCB | LGO-1703-CB-a_s_sem |
| BE08AT090XNE | NE-cabin-T90-02     |
| BE08ACWXXXNE | NE-CW               |
| BE08ASCCWXNE | NE-suspit-C-CW      |



## Yari Otomatik Kapı Kilidi

## Swing Door Lock

### قفل باب مفصلي



| Order Number | Side  |
|--------------|-------|
| BE05GARXXXXX | Right |
| BE05GALXXXXX | Left  |

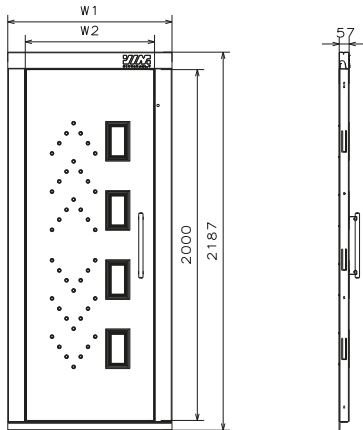
1.000.000 1.000.000 1.000.000  
 impact darbe تائير  
 test testi اختبار



## Yari Otomatik Kapı

## Swing Door

### باب مفصلي



### BW120 series

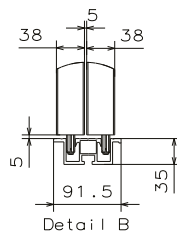
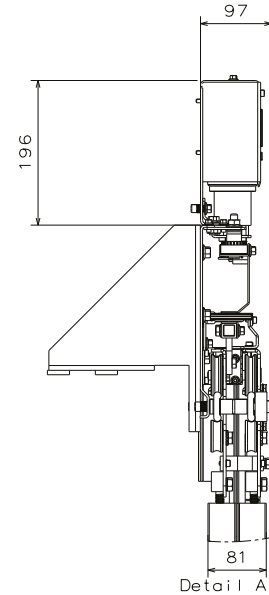
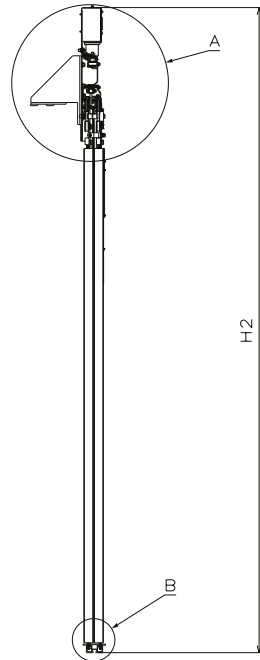
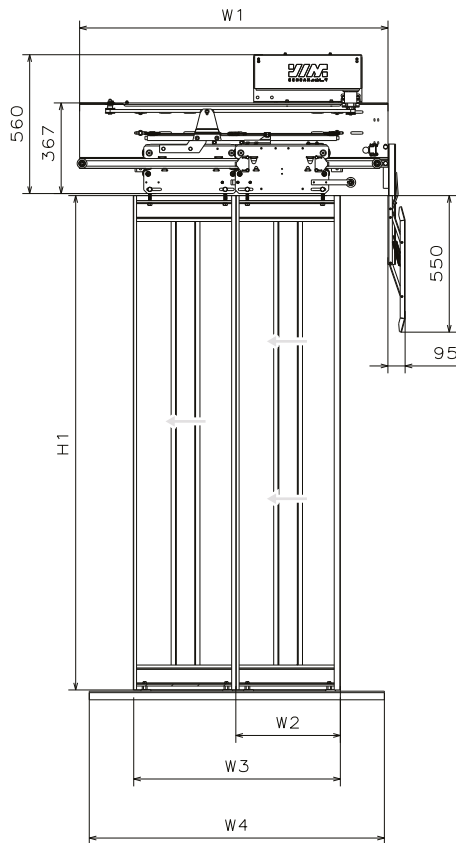
| Order Number | Opening     |       | Dimension (mm) |     |
|--------------|-------------|-------|----------------|-----|
|              | Size / Side |       | W1             | W2  |
| BE051AR170XX | 70          | Right | 950            | 700 |
| BE051AL170XX |             | Left  |                |     |
| BE051AR180XX | 80          | Right | 1050           | 800 |
| BE051AL180XX |             | Left  |                |     |
| BE051AR190XX | 90          | Right | 1150           | 900 |
| BE051AL190XX |             | Left  |                |     |

Hammer is produced in cream leather and copper colors

Krem Deri ve bakır çekiç Renklerinde üretilir.

يتم انتاجه بألوان الكريم الجلدي و النحاسي





### BN700 series

| Order Number | Panels | Opening     |       | Dimension (mm) |     |     |      |      |      |
|--------------|--------|-------------|-------|----------------|-----|-----|------|------|------|
|              |        | Size / Side |       | W1             | W2  | W3  | W4   | H1   | H2   |
| BE053AR270XX | 2      | 70          | Right | 1104           | 375 | 700 | 1050 | 2010 | 2623 |
| BE053AL270XX |        |             | Left  |                |     |     |      | 2110 | 2723 |
| BE053AR270XX |        |             | Right |                |     |     |      | 2210 | 2823 |
| BE053AL271XX |        |             | Left  |                |     |     |      | 2110 | 2723 |
| BE053AR272XX |        |             | Right |                |     |     |      | 2210 | 2823 |
| BE053AL272XX |        |             | Left  |                |     |     |      | 2110 | 2723 |
| BE053AR280XX |        | 80          | Right | 1254           | 425 | 800 | 1200 | 2010 | 2623 |
| BE053AL280XX |        |             | Left  |                |     |     |      | 2110 | 2723 |
| BE053AR281XX |        |             | Right |                |     |     |      | 2210 | 2823 |
| BE053AL281XX |        |             | Left  |                |     |     |      | 2110 | 2723 |
| BE053AR282XX |        |             | Right |                |     |     |      | 2210 | 2823 |
| BE053AL282XX |        |             | Left  |                |     |     |      | 2110 | 2723 |
| BE053AR290XX |        | 90          | Right | 1405           | 475 | 900 | 1350 | 2010 | 2623 |
| BE053AL290XX |        |             | Left  |                |     |     |      | 2110 | 2723 |
| BE053AR291XX |        |             | Right |                |     |     |      | 2210 | 2823 |
| BE053AL291XX |        |             | Left  |                |     |     |      | 2110 | 2723 |
| BE053AR292XX |        |             | Right |                |     |     |      | 2210 | 2823 |
| BE053AL292XX |        |             | Left  |                |     |     |      | 2110 | 2723 |

It is possible for the customer to choose the color and material of the Panels and frame (glass, steel coating, etc.)  
Müşterinin Panellerin ve çerçevenin rengini ve malzemesini (cam, çelik kaplama vb.) Seçmesi mümkündür.  
يمكن للزبون اختيار اللون، نوع الدرفة و الفريم (زجاجي، غلاف استيل و ...)

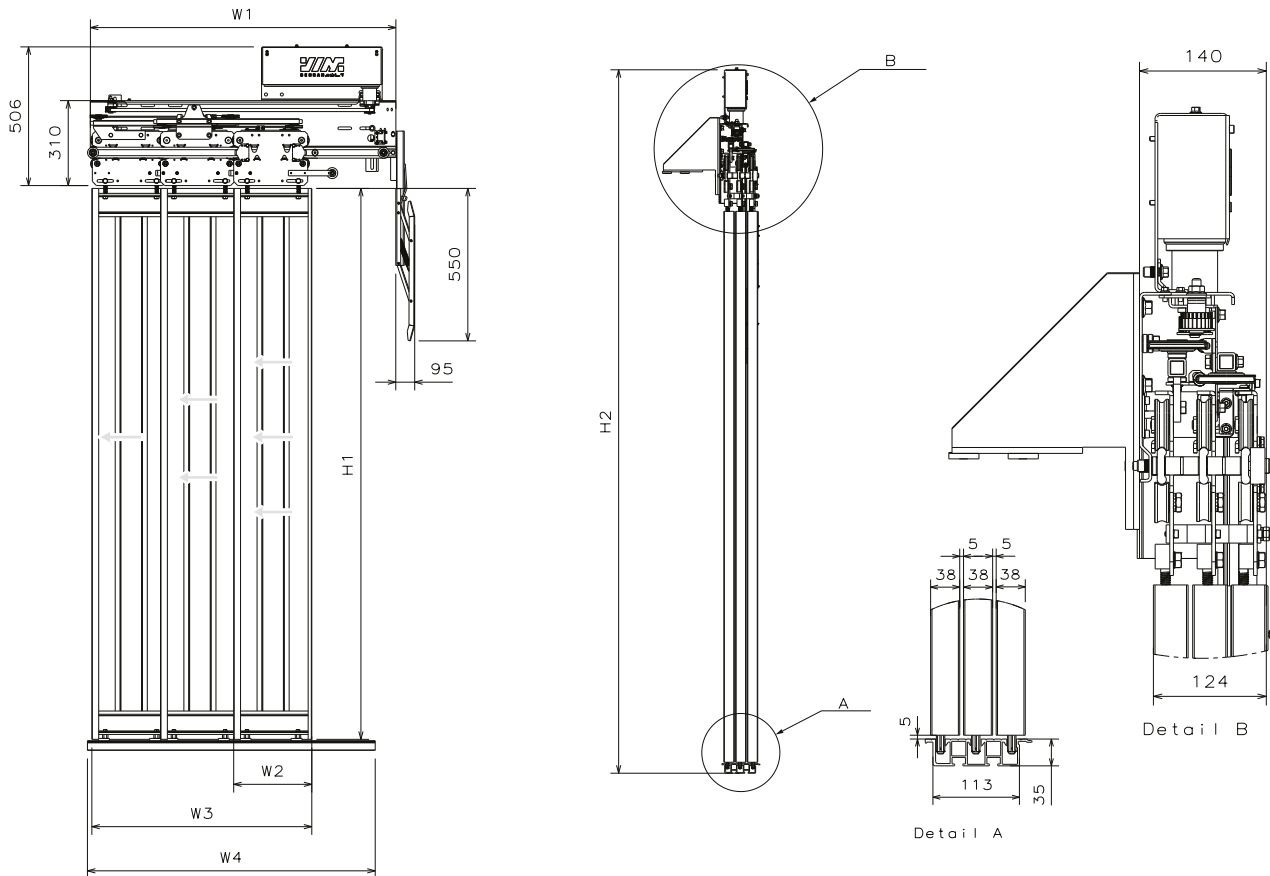


# Semi-Automatic Cabin Door 3 Panels



3 panelli yarı otomatik Kat kapısı

باب الكابينة نصف اتوماتيكي - 3 درفة



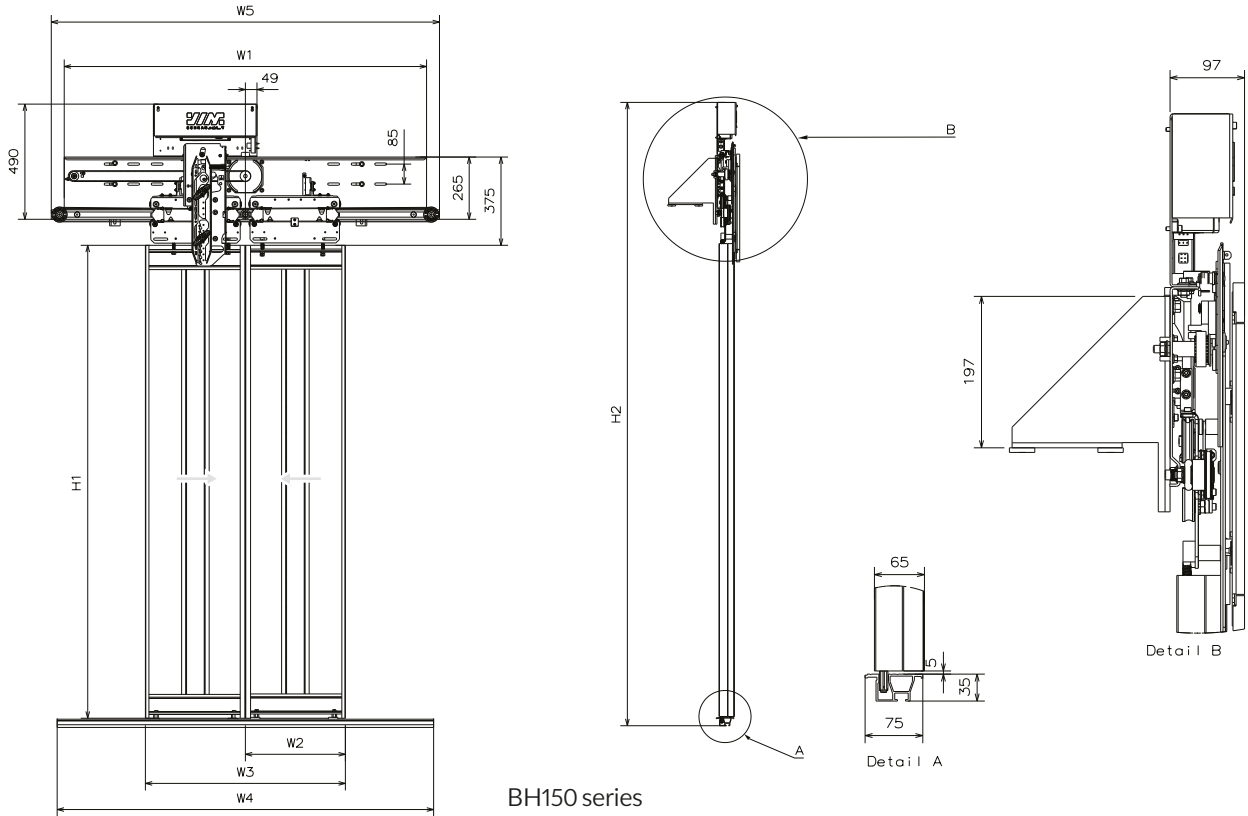
## BN750 series

| Order Number | Panels | Opening     |    | Dimension (mm) |     |     |      |      |      |
|--------------|--------|-------------|----|----------------|-----|-----|------|------|------|
|              |        | Size / Side |    | W1             | W2  | W3  | W4   | H1   | H2   |
| BE053AR380XX | 3      | Right       | 80 | 1115           | 285 | 800 | 1050 | 2010 | 2566 |
| BE053AL380XX |        | Left        |    |                |     |     |      |      |      |
| BE053AR381XX |        | Right       |    |                |     |     |      | 2110 | 2666 |
| BE053AL381XX |        | Left        |    |                |     |     |      |      |      |
| BE053AR382XX |        | Right       |    |                |     |     |      | 2210 | 2766 |
| BE053AL382XX |        | Left        |    |                |     |     |      |      |      |
| BE053AR390XX |        | Right       | 90 | 1250           | 325 | 900 | 1200 | 2010 | 2566 |
| BE053AL390XX |        | Left        |    |                |     |     |      |      |      |
| BE053AR391XX |        | Right       |    |                |     |     |      | 2110 | 2666 |
| BE053AL391XX |        | Left        |    |                |     |     |      |      |      |
| BE053AR392XX |        | Right       |    |                |     |     |      | 2210 | 2766 |
| BE053AL392XX |        | Left        |    |                |     |     |      |      |      |

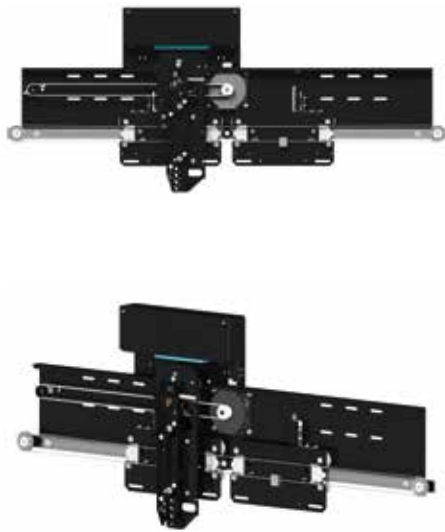
It is possible for the customer to choose the color and material of the Panels and frame (glass, steel coating, etc.)  
 Müşterinin Panellerin ve çerçevenin rengini ve malzemesini (cam, çelik kaplama vb.) Seçmesi mümkündür.  
 يمكن للزبون اختيار اللون، نوع الدرفة و الفريم (زجاجي، غلاف استيل و ...)



## Tam otomatik Merkezi 2 Panelli Kat Kapısı باب كابينه اتوماتيكي سنترال - 2 درفة



BH150 series



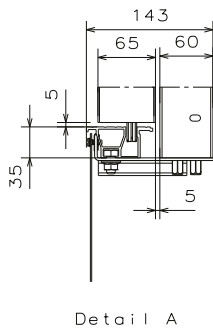
| Order Number | Panels | Opening<br>Size | Dimension (mm) |     |      |      |      |      |      |
|--------------|--------|-----------------|----------------|-----|------|------|------|------|------|
|              |        |                 | W1             | W2  | W3   | W4   | W5   | H1   | H2   |
| BE055AC270XX | 2      | 70              | 1220           | 375 | 750  | 1400 | 1450 | 2010 | 2650 |
| BE055AC271XX |        |                 |                |     |      |      |      | 2110 | 2750 |
| BE055AC272XX |        |                 |                |     |      |      |      | 2210 | 2850 |
| BE055AC280XX |        | 80              | 1540           | 425 | 850  | 1600 | 1650 | 2010 | 2650 |
| BE055AC281XX |        |                 |                |     |      |      |      | 2110 | 2750 |
| BE055AC282XX |        |                 |                |     |      |      |      | 2210 | 2850 |
| BE055AC290XX |        | 90              | 1540           | 475 | 950  | 1800 | 1850 | 2010 | 2650 |
| BE055AC291XX |        |                 |                |     |      |      |      | 2110 | 2750 |
| BE055AC292XX |        |                 |                |     |      |      |      | 2210 | 2850 |
| BE055AC2A0XX |        | 100             | 1900           | 525 | 1050 | 2000 | 2050 | 2010 | 2650 |
| BE055AC2A1XX |        |                 |                |     |      |      |      | 2110 | 2750 |
| BE055AC2A2XX |        |                 |                |     |      |      |      | 2210 | 2850 |
| BE055AC2B0XX |        | 110             | 1900           | 575 | 1150 | 2200 | 2250 | 2010 | 2650 |
| BE055AC2B1XX |        |                 |                |     |      |      |      | 2110 | 2750 |
| BE055AC2B2XX |        |                 |                |     |      |      |      | 2210 | 2850 |
| BE055AC2C0XX |        | 120             | 2280           | 625 | 1250 | 2400 | 2450 | 2010 | 2650 |
| BE055AC2C1XX |        |                 |                |     |      |      |      | 2110 | 2750 |
| BE055AC2C2XX |        |                 |                |     |      |      |      | 2210 | 2850 |
| BE055AC2D0XX |        | 130             | 2280           | 675 | 1350 | 2600 | 2650 | 2010 | 2650 |
| BE055AC2D1XX |        |                 |                |     |      |      |      | 2110 | 2750 |
| BE055AC2D2XX |        |                 |                |     |      |      |      | 2210 | 2850 |

It is possible for the customer to choose the color and material of the Panels and frame (glass, steel coating, etc.)  
Müşterinin Panellerin ve çerçevesinin rengini ve malzemesini (cam, çelik kaplama vb.) Seçmesi mümkündür.  
يمكن للزبون اختيار اللون، نوع الدرفة و الفريم (زجاجي، غلاف استيل و ...)

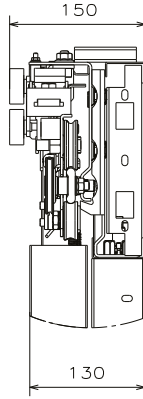
## Automatic Central Landing Door 2 Panels



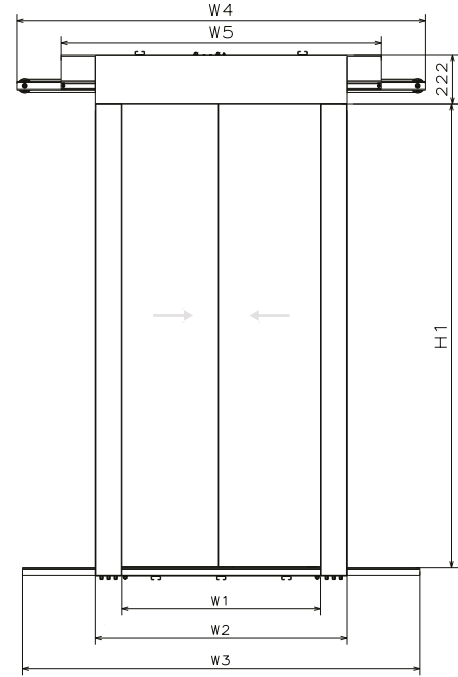
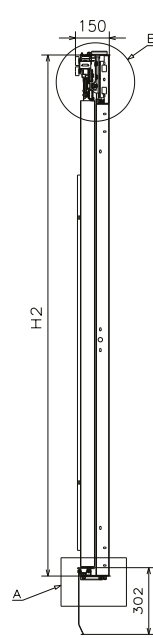
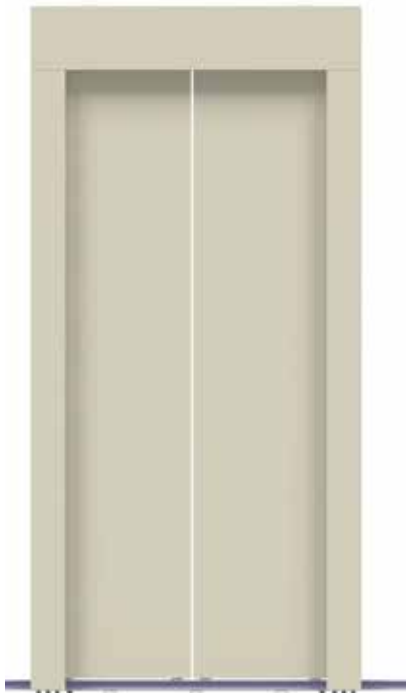
### Tam otomatik merkezi 2 Panelli Kat Kapısı باب طبقة اتوماتيكي سنترال - 2 درفة



Detail A



Detail B



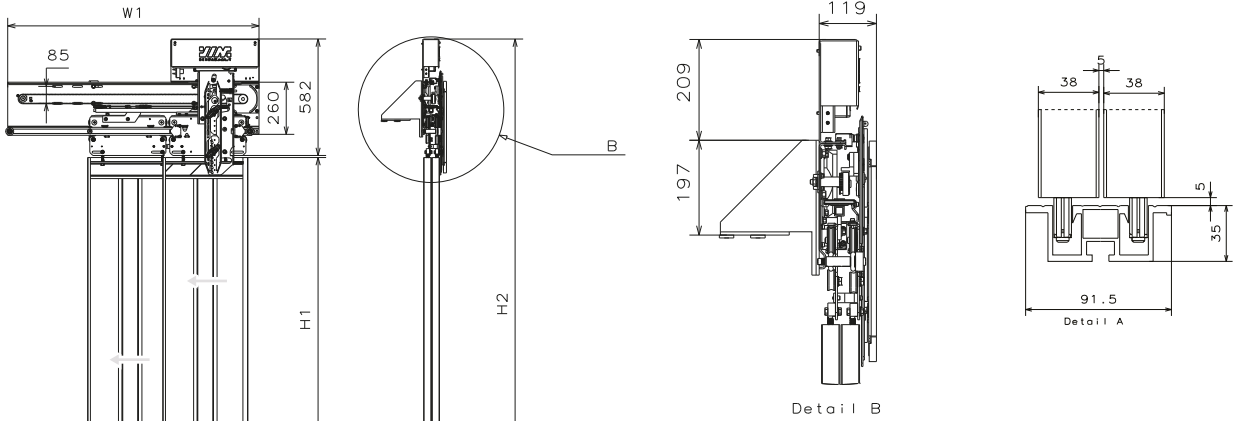
#### BZ100 series

| Order Number | Panels | Opening Size | Dimension (mm) |      |      |      |      |      |      |
|--------------|--------|--------------|----------------|------|------|------|------|------|------|
|              |        |              | W1             | W2   | W3   | W4   | W5   | H1   | H2   |
| BE054AC270XX | 2      | 70           | 700            | 940  | 1400 | 1450 | 1220 | 2000 | 2260 |
| BE054AC271XX |        |              |                |      |      |      |      | 2100 | 2360 |
| BE054AC272XX |        |              |                |      |      |      |      | 2200 | 2460 |
| BE054AC280XX |        | 80           | 800            | 1040 | 1600 | 1650 | 1450 | 2000 | 2260 |
| BE054AC281XX |        |              |                |      |      |      |      | 2100 | 2360 |
| BE054AC282XX |        |              |                |      |      |      |      | 2200 | 2460 |
| BE054AC290XX |        | 90           | 900            | 1140 | 1800 | 1850 | 1450 | 2000 | 2260 |
| BE054AC291XX |        |              |                |      |      |      |      | 2100 | 2360 |
| BE054AC292XX |        |              |                |      |      |      |      | 2200 | 2460 |
| BE054AC2A0XX |        | 100          | 1000           | 1240 | 2000 | 2050 | 1900 | 2000 | 2260 |
| BE054AC2A1XX |        |              |                |      |      |      |      | 2100 | 2360 |
| BE054AC2A2XX |        |              |                |      |      |      |      | 2200 | 2460 |
| BE054AC2B0XX |        | 110          | 1100           | 1340 | 2200 | 2250 | 1900 | 2000 | 2260 |
| BE054AC2B1XX |        |              |                |      |      |      |      | 2100 | 2360 |
| BE054AC2B2XX |        |              |                |      |      |      |      | 2200 | 2460 |
| BE054AC2C0XX |        | 120          | 1200           | 1440 | 2400 | 2450 | 2280 | 2000 | 2260 |
| BE054AC2C1XX |        |              |                |      |      |      |      | 2100 | 2360 |
| BE054AC2C2XX |        |              |                |      |      |      |      | 2200 | 2460 |
| BE054AC2D0XX |        | 130          | 1300           | 1550 | 2600 | 2650 | 2280 | 2000 | 2260 |
| BE054AC2D1XX |        |              |                |      |      |      |      | 2100 | 2360 |
| BE054AC2D2XX |        |              |                |      |      |      |      | 2200 | 2460 |

It is possible for the customer to choose the color and material of the Panels and frame (glass, steel coating, etc.)  
Müşterinin Panellerin ve Çerçevenin rengini ve malzemesini (cam, çelik kaplama vb.) Seçmesi mümkündür.  
يمكن للزبون اختيار اللون، نوع الدرفة و الفريم (زجاجي، غلاف استيل و ...)

## Automatic Telescopic Cabin Door 2 Panels

Tam otomatik teleskopik 2 Panelli Kat kapısı  
باب كايينة اتوماتيكي تلسكوبي - 2 درفة



BH550 series

| Order Number | Panels | Opening<br>Size / Side |       | Dimension (mm) |     |      |      |      |      |
|--------------|--------|------------------------|-------|----------------|-----|------|------|------|------|
|              |        |                        |       | W1             | W2  | W3   | W4   | H1   | H2   |
| BE057AR270XX | 2      | 70                     | Right | 1105           | 375 | 700  | 1050 | 2010 | 2642 |
| BE057AL270XX |        |                        | Left  |                |     |      |      | 2110 | 2742 |
| BE057AR271XX |        |                        | Right |                |     |      |      | 2210 | 2842 |
| BE057AL271XX |        |                        | Left  |                |     |      |      | 2110 | 2742 |
| BE057AR272XX |        | 80                     | Right | 1255           | 425 | 800  | 1200 | 2010 | 2642 |
| BE057AL272XX |        |                        | Left  |                |     |      |      | 2110 | 2742 |
| BE057AR280XX |        |                        | Right |                |     |      |      | 2210 | 2842 |
| BE057AL280XX |        |                        | Left  |                |     |      |      | 2110 | 2742 |
| BE057AR281XX |        | 90                     | Right | 1355           | 475 | 900  | 1350 | 2010 | 2642 |
| BE057AL281XX |        |                        | Left  |                |     |      |      | 2110 | 2742 |
| BE057AR282XX |        |                        | Right |                |     |      |      | 2210 | 2842 |
| BE057AL282XX |        |                        | Left  |                |     |      |      | 2110 | 2742 |
| BE057AR290XX |        | 100                    | Right | 1555           | 525 | 1000 | 1500 | 2010 | 2642 |
| BE057AL290XX |        |                        | Left  |                |     |      |      | 2110 | 2742 |
| BE057AR291XX |        |                        | Right |                |     |      |      | 2210 | 2842 |
| BE057AL291XX |        |                        | Left  |                |     |      |      | 2110 | 2742 |
| BE057AR292XX |        | 110                    | Right | 1705           | 575 | 1100 | 1650 | 2010 | 2642 |
| BE057AL292XX |        |                        | Left  |                |     |      |      | 2110 | 2742 |
| BE057AR2A0XX |        |                        | Right |                |     |      |      | 2210 | 2842 |
| BE057AL2A0XX |        |                        | Left  |                |     |      |      | 2110 | 2742 |
| BE057AR2A1XX |        | 120                    | Right | 1855           | 625 | 1200 | 1800 | 2010 | 2642 |
| BE057AL2A1XX |        |                        | Left  |                |     |      |      | 2110 | 2742 |
| BE057AR2A2XX |        |                        | Right |                |     |      |      | 2210 | 2842 |
| BE057AL2A2XX |        |                        | Left  |                |     |      |      | 2110 | 2742 |
| BE057AR2B0XX |        | 130                    | Right | 1995           | 675 | 1300 | 1950 | 2010 | 2642 |
| BE057AL2B0XX |        |                        | Left  |                |     |      |      | 2110 | 2742 |
| BE057AR2B1XX |        |                        | Right |                |     |      |      | 2210 | 2842 |
| BE057AL2B1XX |        |                        | Left  |                |     |      |      | 2110 | 2742 |
| BE057AR2B2XX |        | 140                    | Right | 2155           | 725 | 1400 | 2050 | 2010 | 2642 |
| BE057AL2B2XX |        |                        | Left  |                |     |      |      | 2110 | 2742 |
| BE057AR2C0XX |        |                        | Right |                |     |      |      | 2210 | 2842 |
| BE057AL2C0XX |        |                        | Left  |                |     |      |      | 2110 | 2742 |
| BE057AR2C1XX |        | 150                    | Right | 2315           | 775 | 1500 | 2200 | 2010 | 2642 |
| BE057AL2C1XX |        |                        | Left  |                |     |      |      | 2110 | 2742 |
| BE057AR2C2XX |        |                        | Right |                |     |      |      | 2210 | 2842 |
| BE057AL2C2XX |        |                        | Left  |                |     |      |      | 2110 | 2742 |
| BE057AR2D0XX |        | 160                    | Right | 2475           | 825 | 1600 | 2300 | 2010 | 2642 |
| BE057AL2D0XX |        |                        | Left  |                |     |      |      | 2110 | 2742 |
| BE057AR2D1XX |        |                        | Right |                |     |      |      | 2210 | 2842 |
| BE057AL2D1XX |        |                        | Left  |                |     |      |      | 2110 | 2742 |
| BE057AR2D2XX |        | 170                    | Right | 2635           | 875 | 1700 | 2400 | 2010 | 2642 |
| BE057AL2D2XX |        |                        | Left  |                |     |      |      | 2110 | 2742 |

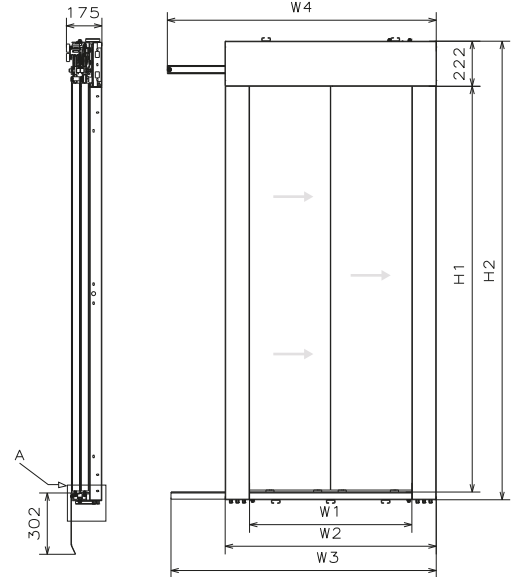
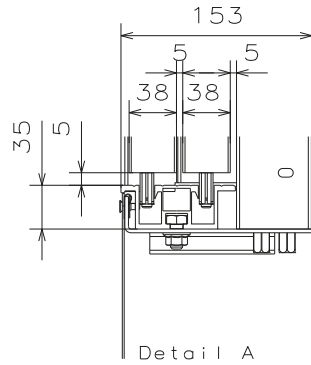
It is possible for the customer to choose the color and material of the Panels and frame (glass, steel coating, etc.)  
Müşterinin Panellerin ve çerçevenin rengini ve malzemesini (cam, çelik kaplama vb.) Seçmesi mümkündür.  
يمكن للزبون اختيار اللون و نوع الدرفة و الفريم (زجاجي، غلاف استيل و ...)



# Automatic Telescopic Landing Door 2 Panels



Tam otomatik teleskopik 2 Panelli Kat kapısı  
باب طبقة اتوماتيكي تلسكوبي - 2 درفة



## BZ500 series

| Order Number | Panels | Opening Size / Side |       | Dimension (mm) |      |      |      |      |      |
|--------------|--------|---------------------|-------|----------------|------|------|------|------|------|
|              |        |                     |       | W1             | W2   | W3   | W4   | H1   | H2   |
| BE056AR270XX | 2      | 70                  | Right | 700            | 940  | 1158 | 1176 | 2000 | 2260 |
| BE056AL270XX |        |                     | Left  |                |      |      |      | 2100 | 2360 |
| BE056AR271XX |        |                     | Right |                |      |      |      | 2200 | 2460 |
| BE056AL271XX |        |                     | Left  |                |      |      |      | 2300 | 2560 |
| BE056AR272XX |        |                     | Right |                |      |      |      | 2400 | 2660 |
| BE056AL272XX |        |                     | Left  |                |      |      |      | 2500 | 2760 |
| BE056AR280XX |        | 80                  | Right | 800            | 1040 | 1308 | 1326 | 2000 | 2260 |
| BE056AL280XX |        |                     | Left  |                |      |      |      | 2100 | 2360 |
| BE056AR281XX |        |                     | Right |                |      |      |      | 2200 | 2460 |
| BE056AL281XX |        |                     | Left  |                |      |      |      | 2300 | 2560 |
| BE056AR282XX |        |                     | Right |                |      |      |      | 2400 | 2660 |
| BE056AL282XX |        |                     | Left  |                |      |      |      | 2500 | 2760 |
| BE056AR290XX |        | 90                  | Right | 900            | 1140 | 1458 | 1476 | 2000 | 2260 |
| BE056AL290XX |        |                     | Left  |                |      |      |      | 2100 | 2360 |
| BE056AR291XX |        |                     | Right |                |      |      |      | 2200 | 2460 |
| BE056AL291XX |        |                     | Left  |                |      |      |      | 2300 | 2560 |
| BE056AR292XX |        |                     | Right |                |      |      |      | 2400 | 2660 |
| BE056AL292XX |        |                     | Left  |                |      |      |      | 2500 | 2760 |
| BE056AR2A0XX |        | 100                 | Right | 1000           | 1240 | 1608 | 1626 | 2000 | 2260 |
| BE056AL2A0XX |        |                     | Left  |                |      |      |      | 2100 | 2360 |
| BE056AR2A1XX |        |                     | Right |                |      |      |      | 2200 | 2460 |
| BE056AL2A1XX |        |                     | Left  |                |      |      |      | 2300 | 2560 |
| BE056AR2A2XX |        |                     | Right |                |      |      |      | 2400 | 2660 |
| BE056AL2A2XX |        |                     | Left  |                |      |      |      | 2500 | 2760 |
| BE056AR2B0XX |        | 110                 | Right | 1100           | 1340 | 1758 | 1776 | 2000 | 2260 |
| BE056AL2B0XX |        |                     | Left  |                |      |      |      | 2100 | 2360 |
| BE056AR2B1XX |        |                     | Right |                |      |      |      | 2200 | 2460 |
| BE056AL2B1XX |        |                     | Left  |                |      |      |      | 2300 | 2560 |
| BE056AR2B2XX |        |                     | Right |                |      |      |      | 2400 | 2660 |
| BE056AL2B2XX |        |                     | Left  |                |      |      |      | 2500 | 2760 |
| BE056AR2C0XX |        | 120                 | Right | 1200           | 1440 | 1908 | 1926 | 2000 | 2260 |
| BE056AL2C0XX |        |                     | Left  |                |      |      |      | 2100 | 2360 |
| BE056AR2C1XX |        |                     | Right |                |      |      |      | 2200 | 2460 |
| BE056AL2C1XX |        |                     | Left  |                |      |      |      | 2300 | 2560 |
| BE056AR2C2XX |        |                     | Right |                |      |      |      | 2400 | 2660 |
| BE056AL2C2XX |        |                     | Left  |                |      |      |      | 2500 | 2760 |
| BE056AR2D0XX |        | 130                 | Right | 1300           | 1540 | 2070 | 2076 | 2000 | 2260 |
| BE056AL2D0XX |        |                     | Left  |                |      |      |      | 2100 | 2360 |
| BE056AR2D1XX |        |                     | Right |                |      |      |      | 2200 | 2460 |
| BE056AL2D1XX |        |                     | Left  |                |      |      |      | 2300 | 2560 |
| BE056AR2D2XX |        |                     | Right |                |      |      |      | 2400 | 2660 |
| BE056AL2D2XX |        |                     | Left  |                |      |      |      | 2500 | 2760 |



It is possible for the customer to choose the color and material of the Panels and frame (glass, steel coating, etc.)

Müşterinin Panellerin ve çerçevenin rengini ve malzemesini (cam, çelik kaplama vb.) Seçmesi mümkündür.

يمكن للزبون اختيار اللون، نوع الدرفة و الفريم (زجاجي، غلاف اسيتل و ...)



ELEVATOR GLASSDOORS  
ASANSÖR CAM KAPILAR  
الأبواب الزجاجية للمصعد

This product is custom made and the customer can order the size, type of material and color  
Bu ürün kişiye özel olup müşteri ihtiyaçlarına göre ölçü, malzeme cinsi ve rengini sipariş edebilir.  
يتم إنتاج هذا النوع حسب الطلب و عند التوضيعة و يمكن للزبون ان يحدد الحجم و النوع و اللون الذي يناسبه

## Escalator

Today, with the increase of commercial centers, shops and urban development projects based on the expansion of roads and highways, escalators are considered as environmental components in the city that are most used in public places, subways, passenger terminals and department stores. The importance of this issue, as well as the lack of a system that is compatible with the weather and environmental conditions of Iran, led the large group of Behran to use its years of experience to design and produce escalators and moving sidewalks that are compatible with new global technologies.

Behran Elevator and Escalator Industrial Group has taken a safer step than ever before by using the best knowledge and technology in the world and benefiting from its experienced experts in research and development, by launching standard units and quality control. This caused Behran to gain more trust in the Iranian market for its products and to achieve the best quality in the field of escalator production in a short period of time. Design, production, installation and commissioning, as well as extensive support services, are the main areas on which Behran Industrial Group focuses. Behran escalators and moving sidewalks are produced in cooperation with the most reputable international companies and in accordance with EN115 standard.

## Yürüyen merdiven

Günümüzde ticari merkezlerin, mağazaların ve karayollarının ve otoyolların genişletilmesine dayalı kentsel gelişim projelerinin artmasıyla birlikte yürüyen merdivenler, kentte halka açık yerlerde, metrolarda, yolcu terminallerinde ve büyük mağazalarda en çok kullanılan çevresel bileşenler olarak kabul edilmektedir. Bu konunun önemi ve İran'ın hava ve çevre koşullarına uyumlu bir sistemin olmaması, Behran'ın büyük grubunun yılların deneyimini yeni küresel teknolojilerle uyumlu yürüyen merdivenler ve yürüyen merdivenler tasarlamak ve üretmek için kullanmasına neden oldu. Tamamlandı.

Behran Asansör ve Yürüyen Merdiven Sanayi Grubu, dünyadaki en iyi bilgi ve teknolojiyi kullanarak, araştırma ve geliştirme konusunda deneyimli uzmanlarından yararlanarak, standart birimleri ve kalite kontrolünü devreye alarak her zamankinden daha güvenli bir adım attı. Bu, Behran'ın İran pazarında ürünleri için daha fazla güven kazanmasına ve yürüyen merdiven üretimi alanında en iyi kaliteyi kısa sürede elde etmesine neden oldu. Tasarım, üretim, kurulum ve devreye alma ile kapsamlı destek hizmetleri Behran Industrial Group'un odaklandığı ana alanlardır. Behran'daki yürüyen merdivenler ve yürüyen merdivenler en saygın uluslararası firmalarla işbirliği içinde ve EN115 standardına uygun olarak üretilmektedir. .

## السلم الكهربائي

اليوم و بعد انتشار المراكز التجارية و المحلات التجارية و مشاريع المدن التي تعتمد على اتساع المعابر و الطرق السريعة، أصبحت السلالم الكهربائية جزءاً لا يتجزأ من المدن و التي يتم استخدامها بشكل كبير في الأماكن العامة و مترو الأنفاق و الكراجات و المحلات التجارية الكبيرة. بسبب أهمية هذا الأمر و عدم وجود نظام يتوافق مع الظروف الجوية و المحيطية لإيران أقدمت شركة بهران على الدخول الى مجال صناعة السلالم الكهربائية و معابر المارة المتحركة (الأرصفة المتحركة) و التي تتطابق مع المعايير العالمية و التكنولوجيا الحديثة. قامت المجموعة الصناعية للمصاعد و السلالم الكهربائية بهران و من خلال استخدام العلم الحديث و التكنولوجيا المتطورة و المتخصصين بتدشين قسم مراقبة و ضبط الجودة و استطاعت بذلك ان تكسب ثقة الزبائن و السوق في ايران من خلال المنتجات الموثوقة التي تقدمها في مجال السلالم الكهربائية خلال وقت قصير.

ان أقسام التصميم و التصنيع و التركيب و خدمات الدعم تعتبر من الأقسام الأساسية التي تركز عليها شركة بهران. ان السلالم الكهربائية و المعابر المتحركة (الأرصفة المتحركة) في شركة بهران يتم انتاجها بالتعاون مع افضل الشركات العالمية و تطابق معايير

EN 115







يتم انتاج السلالم الكهربائية في شركة بهران بارتفاعات وتصاميم مختلفة وبعرض ٦٠، ٨٠ و ١٠٠ سانتيمتر و بزوايا ٣٠ و ٣٥ درجة. و تم ادخال احدث التكنولوجيا إلى هذه المنتجات.

يتم ايضا تصنيع المعابر المتحركة (أرصفة متحركة) بزوايا مختلفة ١٠، ١١ و ١٢ درجة و بعرض ٨٠ و ١٠٠ سانتيمتر و أرصفة متحركة بزوايا ١٠٠ و ١٢٠ و بعرض ١٠٠، ٨٠، ١٢٠ و ١٤٠ سانتيمتر.

يمكن استخدام الأرصفة المتحركة و السلالم الكهربائية من شركة بهران في الحالات العادية او في الظروف الشديدة الازدحام في المشاريع ذات المساحات المفتوحة او المساحات المغلقة او نصف المغلقة

Behran yürüyen merdivenleri Farklı yükseklik ve tasarımlarda 60, 80 ve 100 cm genişliklerinde 30 ve 35 derecelik açılara sahip bu ürünlerde üretilmektedir, yürüyen merdiven sektöründeki en son teknolojiler göz önünde bulundurulmuştur.

Behran yürüyen merdivenleri farklı açılardan pazarlanmaktadır. 10, 11 ve 12 derecelik kaldırımların genişliği 80 ve 100 cm ve sıfır derece açılı yürüyen merdiven genişliği 80,100, 120 ve 140 santimetre vardır.

Behran yürüyen merdivenleri ve yürüyen yollar, hem normal hem de tam trafik koşullarında dış mekan, iç mekan ve yarı iç mekan projelerinde kullanılabilir.

Behran escalators are produced in different heights and designs with widths of 60, 80 and 100 cm with angles of 30 and 35 degrees. These products include the latest technologies in the escalator industry.

Behran moving autowalks are also offered to the market in different angles of 10, 11 and 12 degrees. Autowalks have widths of 80 and 100 cm and autowalks with zero degree angle have widths of 80, 100, 120 and 140 centimeters.

Behran escalators and moving autowalks can be used in both normal and full traffic modes in indoor and outdoor environments.



# ESCALATOR

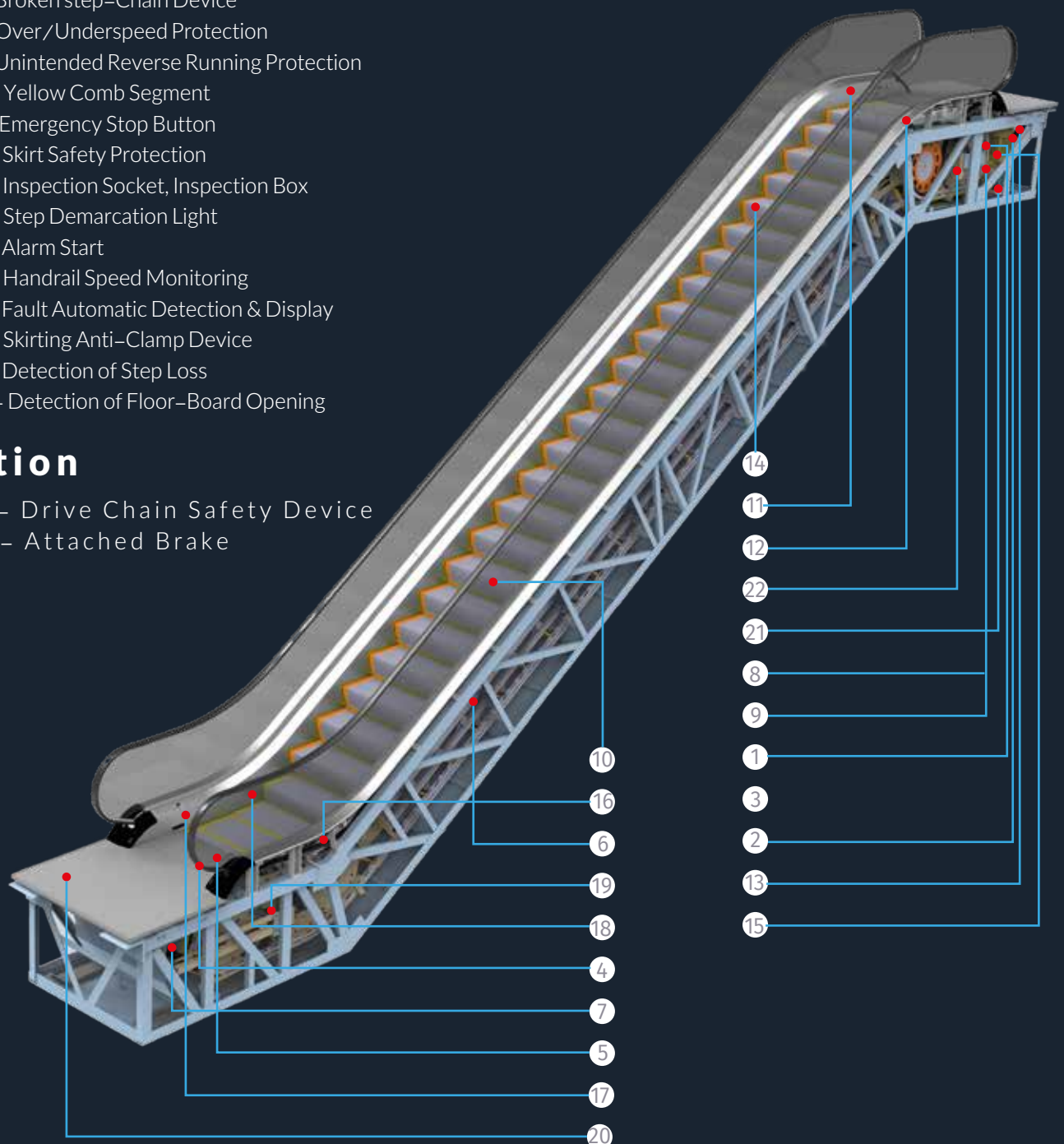


## Standard

- 1- Phase Fault Protection
- 2- Motor Overload Protection
- 3- Electrical Circuit Protection
- 4- Handrail Entry Protection
- 5- comb Teeth Obstruction Device
- 6- Step Sagging Guard and Roller Rapture Protection
- 7- Broken step-Chain Device
- 8- Over/Underspeed Protection
- 9- Unintended Reverse Running Protection
- 10- Yellow Comb Segment
- 11- Emergency Stop Button
- 12- Skirt Safety Protection
- 13- Inspection Socket, Inspection Box
- 14- Step Demarcation Light
- 15- Alarm Start
- 16- Handrail Speed Monitoring
- 17- Fault Automatic Detection & Display
- 18- Skirting Anti-Clamp Device
- 19- Detection of Step Loss
- 20- Detection of Floor-Board Opening

## Option

- 21- Drive Chain Safety Device
- 22- Attached Brake

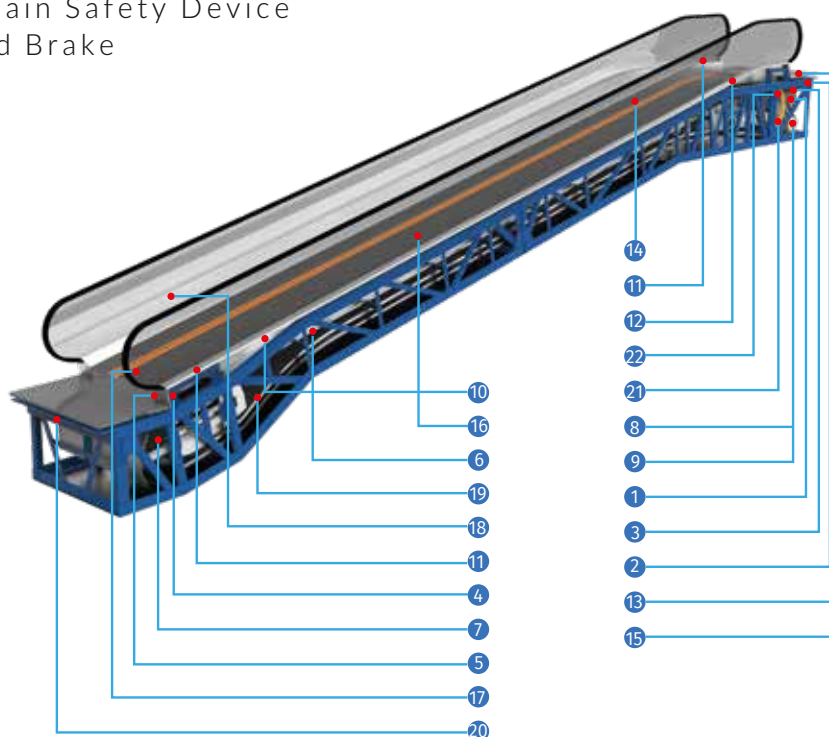


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# ESCALATORS



## Transportation of people in comfort

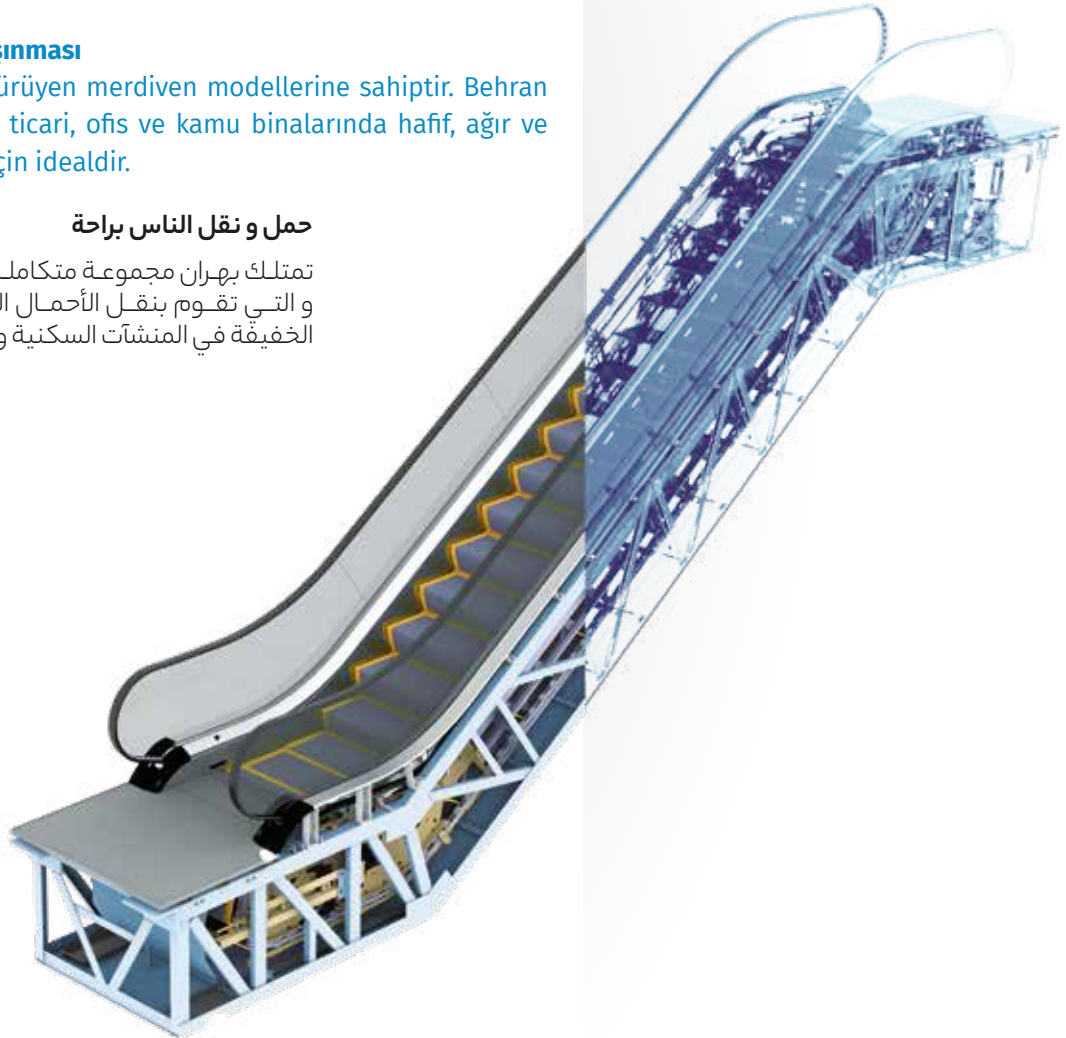
Behran has the most complete set of escalator models. Behran escalators are ideal for light, heavy and ultra-heavy movements in commercial, office and public buildings.

## İnsanların rahatça taşınması

Behran, en eksiksiz yürüyen merdiven modellerine sahiptir. Behran yürüyen merdivenleri ticari, ofis ve kamu binalarında hafif, ağır ve ultra ağır hareketler için idealdir.

## حمل و نقل الناس براحة

تمتلك بهران مجموعة متكاملة من السلالم الكهربائية والتي تقوم بنقل الأحمال الثقيلة و فوق الثقيلة و الخفيفة في المنشآت السكنية و التجارية و الإدارية



### عائلة السلالم الكهربائية بهران

- ◆ الحمل و النقل التجاري
- ◆ الحمل و النقل المزدحم
- ◆ الحمل و النقل شديد الازدحام

### اماكن العمليات

- ◆ المساحات المفتوحة
- ◆ المساحات المغلقة

### التجاري (Supreme Transit)

تم تصميم هذا النوع من السلالم الكهربائية طبقا لمكان الاستخدام و ظروف الاستعمال و طبق فترة استخدام ١٢ الى ١٦ ساعة حتى يكون بجانب كونه اقتصاديا متمكنا من نقل الأشخاص في المراكز التجارية. هذا النوع من السلالم الكهربائية و بسبب المساحات المحدودة في المراكز التجارية يكون غالبا بزاوية ٣٥ درجة و يمكن انتاجه بزاوية ٣٠ ايضا. بسبب اهمية الجمالية في هذا النوع من السلالم فإن الدرابزون الخاص به صنع من الزجاج الحراري بسمكة ١٠ ميلمتر

### اجهاد عالي (MASS TRANSIT)

حيث ان فترة الاستخدام تقارب ال ٢٠ ساعة يوميا و بشكل متواصل. بسبب اهمية هذا النوع فيتم استخدامه غالبا في خطوط مترو الانفاق و يكون الدرابزون الخاص به من الاستيل و اما في المطارات فيكون درابزونه من نوع الزجاج و ذلك بسبب الأهمية الجمالية للمطارات. هذا النوع من السلالم و بسبب اهميته العملية تم تجهيزه بعلبة سرعة هيليكال

### اجهاد كبير جدا (Mass plus transit)

هذا النوع من السلالم الكهربائية يستخدم لتحمل الأوزان الكبيرة جدا و لساعات عمل متواصلة ٢٤ ساعة او الاستعمال في الارتفاعات العالية ١٤ متر وهو من نوع roller outside chain اي السلاسل الخارجية. هذا النوع من السلالم يستخدم فيه درابزون من الاستيل و يكون معامل الأمان الخاص بالسلسلة مساويا ل ٦ على الأقل. يصمم بزاوية ٣٠ ايضا mass plus transit

### Behran elektrikli köprü ailesi

- ◆ Süper Transit
- ◆ Toplu taşıma
- ◆ Toplu Taşıma Artı

### Çalışma ortamları:

- ◆ iç mekan
- ◆ Dış mekan

### Süper Transit (Commercial)

Geçici kurulumlarının yanı sıra kullanım yeri ve çalışma koşulları nedeniyle, bu tür yürüyen merdivenler, ticari komplekslerdeki insanları tamamen hareket ettirmek için uygun maliyetli olmanın yanı sıra 12 ila 16 saatlik bir çalışma aralığı temel alınarak tasarlanmıştır. Bu tip tasarımı ticari komplekslerdeki küçük boşluktan dolayı çoğunlukla 35 derecelik bir açıyla kullanılır, ancak 30 derecelik bir açı da üretilebilir. Bu tip yürüyen merdivenlerde güzelliğin önemi nedeniyle korkuluklar 10 mm kalınlığında ısıtmalı camdan yapılmıştır.

### Toplu taşıma (Heavy Duty)

Bu tip yürüyen merdivenler, üstün tipten daha yüksek kapasite ve iş yükü için tasarlanmıştır, böylece günde 20 saate kadar sürekli çalışabilirler. Bu tip yürüyen merdivenin önemi ve yüksek kapasitesi nedeniyle daha çok çelik korkuluklu metro hatlarında, havalimanlarında ise dekorasyonun önemi nedeniyle cam korkuluklar kullanılmaktadır. Yüksek verimli ekipmanların önemi nedeniyle, bu tip yürüyen merdivenlerde helical dişli makine kullanılmıştır.

### Toplu Taşıma Artı (Ultra Heavy Duty)

Bu tip yürüyen merdiven, son derece yüksek kapasite ve 24 saatlik çalışma süresi veya 14 metreden fazla yüksekliklerde kullanılması nedeniyle dış zincirli (makaralı dış zincir) yürüyen merdiven türü olarak kullanılır. Bu tip yürüyen merdivenler kullanım yerine bağlı olarak çelik korkuluklardan yapılmaktadır. Ve en az 6. zincir güvenlik faktörüne sahip olacaktır. Ayrıca Mass Plus Transit tipinde 30 derecelik açı tasarlanmıştır.

### Behran Escalator Family:

- ◆ Supreme Transit
- ◆ Mass Transit
- ◆ Mass Transit Plus

### Operating Environments:

- ◆ Indoor
- ◆ Outdoor

### Supreme Transit ( Commercial )

Due to their place of use and operating conditions, these types of escalators are designed based on a working interval of 12 to 16 hours, in addition to being cost-effective, to completely move people in commercial complexes. In this type of design, due to the small space in commercial complexes, it is mostly used at an angle of 35 degrees, but an angle of 30 degrees can also be produced. Due to the importance of beauty in this type of escalators, railings are made of heated glass with a thickness of 10 mm.

### Mass Transit (Heavy Duty)

These types of escalators are designed for higher capacity and workload than the supreme type, so that they can work continuously for up to 20 hours a day. Due to the importance and high capacity of this type of escalator, it is mostly used for subway lines with steel railings and for airports, glass railings are used due to the importance of decorations in the airport. Due to the importance of high efficiency equipment, helical gearboxes have been used in this type of escalators.

### Mass plus Transit (Ultra Heavy Duty)

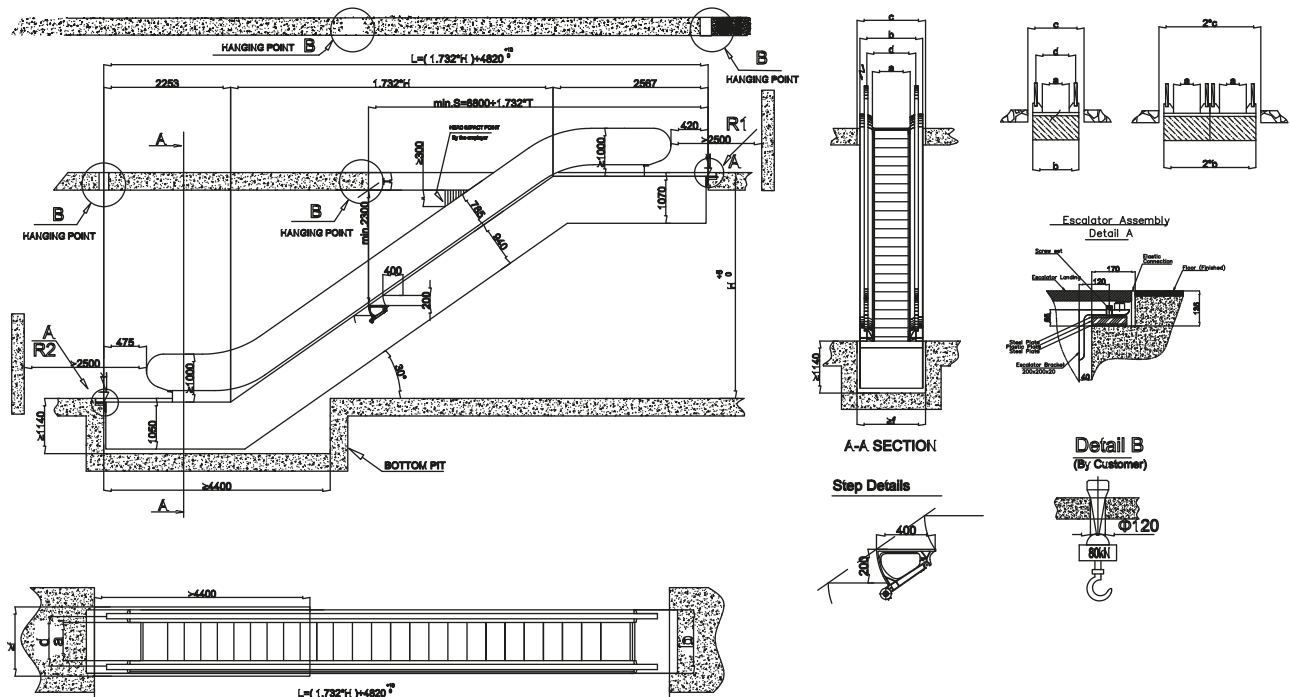
This type of escalator is used as a type of escalator with external chains (roller outside chain) due to its extremely high capacity and 24-hour operating time or use at heights of more than 14 meters. These types of escalators are made of steel railings depending on the place of use. And will have a chain safety factor of at least 6. Also in Mass Plus Transit type, an angle of 30 degrees is designed.





## Construction Parameter Layout

BLF -K-30°-Single | indoor  
2 Steps Flat - 0.5 m/s - Rise ≤ 6 m



For 600mm with / the upper truss should be increased 550mm

Note1: A vertical anti-pinch plate that has no acute angle edge should be set on the handrail belt in the junction between escalator and floorslab. If the distance between the outer edge of the handrail belt and any obstruction is greater than 400mm, it does not have to install the anti-pinch plate.

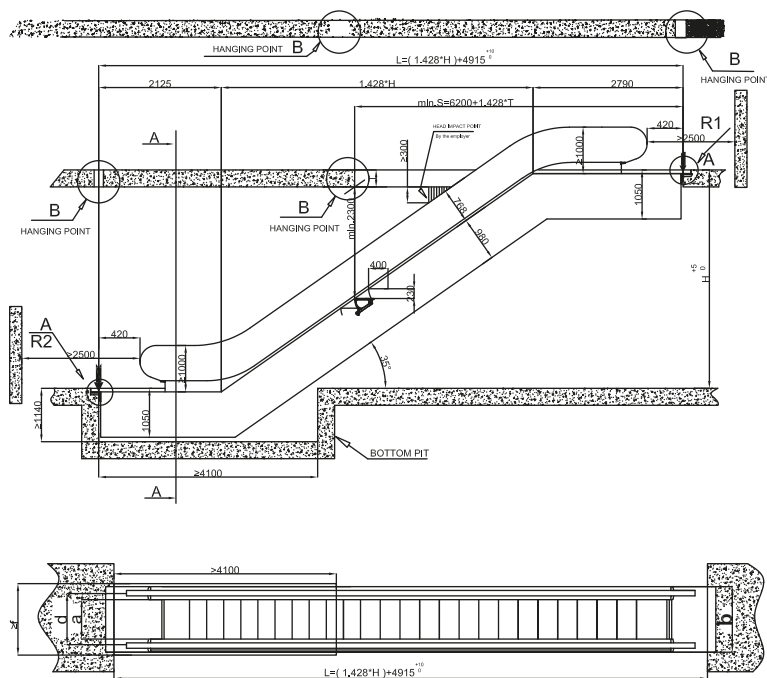
Note2: There should be adequate flow area to accommodate passengers at the entrance and exit of the escalator. If the width of the area is more than twice the distance between outer edge of the handrail belt plus 160mm, its depth dimension is allowed to be less than 2 meters.

| Step width    | 600        | 800    | 1000       | Remarks     |
|---------------|------------|--------|------------|-------------|
| R1 (KN)       | 3.5*L+17.5 | 4*L+19 | 4.5*L+20.5 | L unit is m |
| R2 (KN)       | 3.5*L+12   | 4*L+13 | 4.5*L+13.5 |             |
| Machine power | 5.5 Kw     | H≤6    | H≤4        | 13 A        |
|               | 8 Kw       |        | 4<H≤6      | 18 A        |
|               | 11 Kw      |        | 4.9<H≤6    | 24 A        |

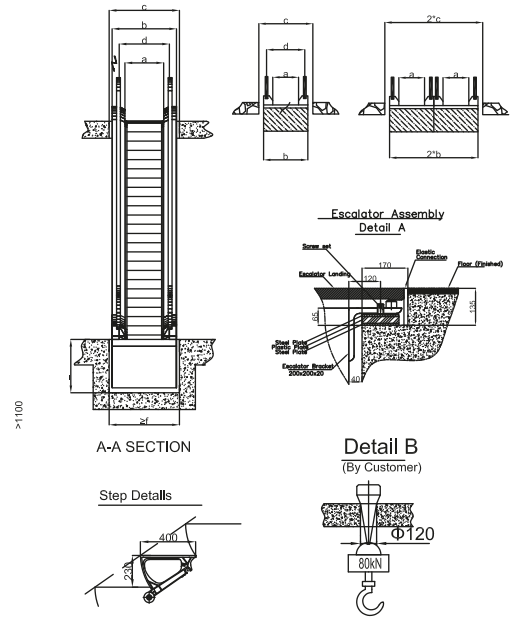
| Model                                  | Symbols | BLF-60K-30 | BLF-80K-30 | BLF-100K-30 |
|----------------------------------------|---------|------------|------------|-------------|
| Step Width                             | a       | 600        | 800        | 1000        |
| Decoration Width                       | b       | 1140       | 1340       | 1540        |
| Construction layout opening Width      | c       | 1260       | 1460       | 1660        |
| Handrail Spencer                       | d       | 838        | 1038       | 1238        |
| Safe construction layout opening Width | e       | 1800       | 2000       | 2200        |
| construction layout opening Width      | f       | 1260       | 1460       | 1660        |

## Construction Parameter Layout

BLF -K-35°-Single | indoor  
2 Steps Flat - 0.5 m/s - Rise ≤ 6 m



For 600mm with / the upper truss should be increased 550mm



Note1: A vertical anti-pinch plate that has no acute angle edge should be set on the handrail belt in the junction between escalator and floorslab. If the distance between the outer edge of the handrail belt and any obstruction is greater than 400mm, it does not have to install the anti-pinch plate.

Note2: There should be adequate flow area to accommodate passengers at the entrance and exit of the escalator. If the width of the area is more than twice the distance between outer edge of the handrail belt plus 160mm, its depth dimension is allowed to be less than 2 meters.

Reaction force and power

| Step width    | 600        | 800    | 1000       | Remarks     |
|---------------|------------|--------|------------|-------------|
| R1 (KN)       | 3.5*L+16.5 | 4*L+18 | 4.5*L+19.5 | L unit is m |
| R2 (KN)       | 3.5*L+11   | 4*L+12 | 4.5*L+12.5 |             |
| Machine power | 5.5 Kw     | H≤6    | H≤4.2      | 13 A        |
|               | 8 Kw       |        | 3.2<H≤5.2  | 18 A        |
|               | 11 Kw      |        | 5.2<H≤6    | 24 A        |

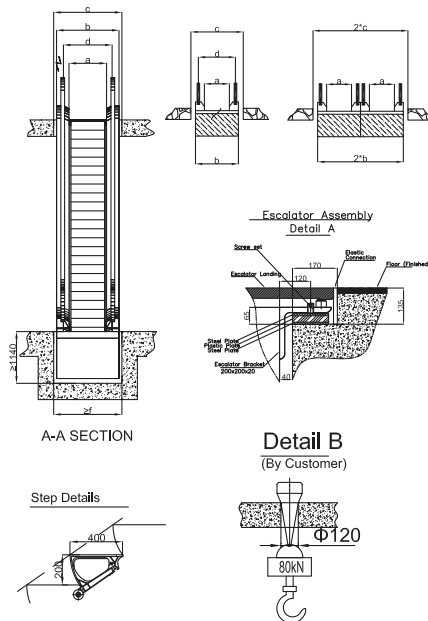
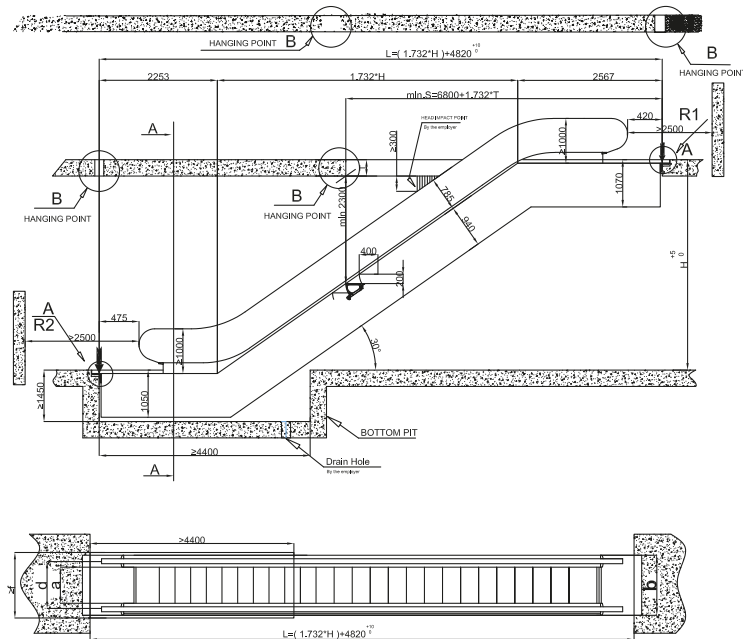
Standard Specification and size unit (mm)

| Model                                  | Symbols | BLF-60K-35 | BLF-80K-35 | BLF-100K-35 |
|----------------------------------------|---------|------------|------------|-------------|
| Step Width                             | a       | 600        | 800        | 1000        |
| Decoration Width                       | b       | 1140       | 1340       | 1540        |
| Construction layout opening Width      | c       | 1260       | 1460       | 1660        |
| Handrail Spencer                       | d       | 838        | 1038       | 1238        |
| Safe construction layout opening Width | e       | 1800       | 2000       | 2200        |
| construction layout opening Width      | f       | 1260       | 1460       | 1660        |



## Construction Parameter Layout

BLF -K-30°-Single | outdoor  
2 Steps Flat - 0.5 m/s - Rise ≤ 6 m



For 600mm with / the upper truss should be increased 550mm

Note1: A vertical anti-pinch plate that has no acute angle edge should be set on the handrail belt in the junction between escalator and floorslab. If the distance between the outer edge of the handrail belt and any obstruction is greater than 400mm, it does not have to install the anti-pinch plate.

Note2: There should be adequate flow area to accommodate passengers at the entrance and exit of the escalator. If the width of the area is more than twice the distance between outer edge of the handrail belt plus 160mm, its depth dimension is allowed to be less than 2 meters.

Reaction force and power

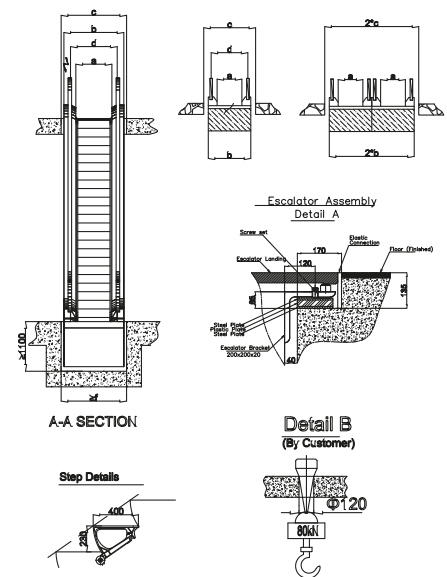
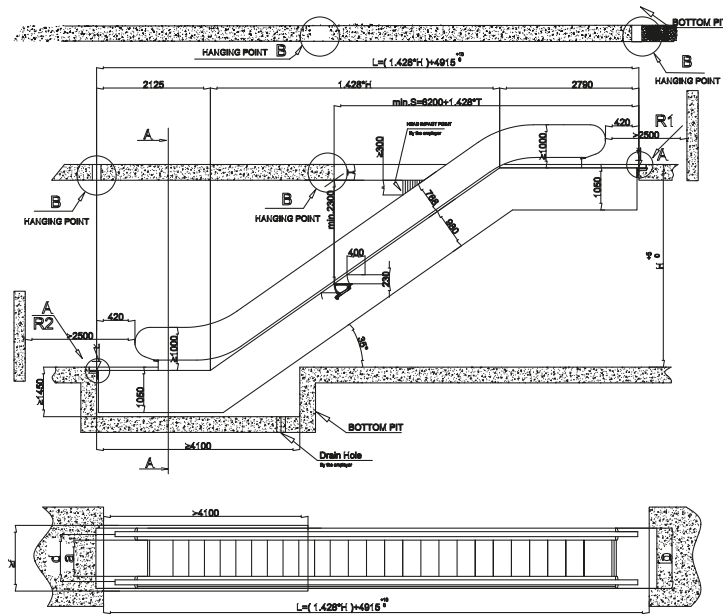
| Step width    | 600        | 800      | 1000     | Remarks     |
|---------------|------------|----------|----------|-------------|
| R1 (KN)       | 3.5*L+18   | 4*L+19.5 | 4.5*L+21 | L unit is m |
| R2 (KN)       | 3.5*L+12.5 | 4*L+13.5 | 4.5*L+14 |             |
| Machine power | 5.5 Kw     | H≤6      | 3H≤4     | H≤3.5       |
|               | 8 Kw       |          | 4<H≤6    | 3.5<H≤4.8   |
|               | 11 Kw      |          |          | 4.8<H≤6     |
|               |            |          |          | 13 A        |
|               |            |          |          | 18 A        |
|               |            |          |          | 24 A        |

Standard Specification and size unit (mm)

| Model                                  | Symbols | BLF-60K-30 | BLF-80K-30 | BLF-100K-30 |
|----------------------------------------|---------|------------|------------|-------------|
| Step Width                             | a       | 600        | 800        | 1000        |
| Decoration Width                       | b       | 1140       | 1340       | 1540        |
| Construction layout opening Width      | c       | 1260       | 1460       | 1660        |
| Handrail Spencer                       | d       | 838        | 1038       | 1238        |
| Safe construction layout opening Width | e       | 1800       | 2000       | 2200        |
| construction layout opening Width      | f       | 1260       | 1460       | 1660        |

## Construction Parameter Layout

BLF -K-35° - Single | outdoor  
2 Steps Flat - 0.5 m/s - Rise ≤ 6 m



For 600mm with / the upper truss should be increased 550mm

Note1: A vertical anti-pinch plate that has no acute angle edge should be set on the handrail belt in the junction between escalator and floorslab. If the distance between the outer edge of the handrail belt and any obstruction is greater than 400mm, it does not have to install the anti-pinch plate.

Note2: There should be adequate flow area to accommodate passengers at the entrance and exit of the escalator. If the width of the area is more than twice the distance between outer edge of the handrail belt plus 160mm, its depth dimension is allowed to be less than 2 meters.

action force and power

| action force and power |        |            |          |          |                |         |
|------------------------|--------|------------|----------|----------|----------------|---------|
| Step width             |        | 600        | 800      | 1000     | Remarks        |         |
| R1 (KN)                |        | 3.5*L+17   | 4*L+18.5 | 4.5*L+20 | L unit<br>is m |         |
| R2 (KN)                |        | 3.5*L+11.5 | 4*L+12.5 | 4.5*L+13 |                |         |
| achine<br>ower         | 5.5 Kw | H≤6        | 3H≤5     | H≤4      | 13 A           | Current |
|                        | 8 Kw   |            | 5<H≤6    | 4<H≤5    | 18 A           |         |
|                        | 11 Kw  |            |          | 5<H≤6    | 24 A           |         |

Standard Specification and size unit (mm)

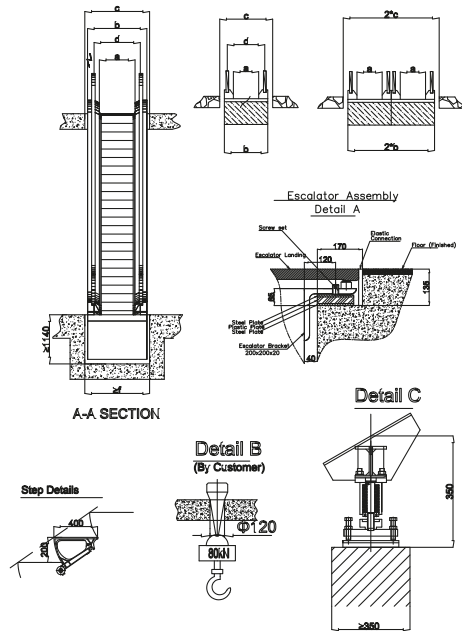
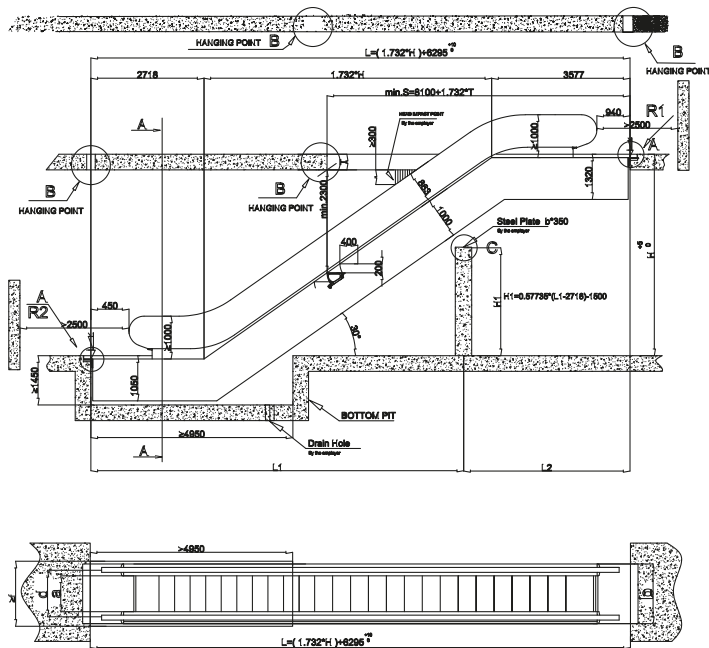
| Model                                  | Symbols | BLF-60K-35 | BLF-80K-35 | BLF-100K-35 |
|----------------------------------------|---------|------------|------------|-------------|
| Step Width                             | a       | 600        | 800        | 1000        |
| Decoration Width                       | b       | 1140       | 1340       | 1540        |
| Construction layout opening Width      | c       | 1260       | 1460       | 1660        |
| Handrail Spencer                       | d       | 838        | 1038       | 1238        |
| Safe construction layout opening Width | e       | 1800       | 2000       | 2200        |
| construction layout opening Width      | f       | 1260       | 1460       | 1660        |





## Construction Parameter Layout

BLF -K-30°-Single | indoor and outdoor  
3 Steps Flat -0.5- 0.65 m/s - Rise ≤ 12 m



For 600mm with / the upper truss should be increased 550mm  
Middle support is required for height more than 5.7m  
TO add  $\Delta$  capability to a VVVF system, the length of the upper truss should meet a 300mm increase.

Note1: A vertical anti-pinch plate that has no acute angle edge should be set on the handrail belt in the junction between escalator and floorslab. If the distance between the outer edge of the handrail belt and any obstruction is greater than 400mm, it does not have to install the anti-pinch plate.

Note2: There should be adequate flow area to accommodate passengers at the entrance and exit of the escalator. If the width of the area is more than twice the distance between outer edge of the handrail belt plus 160mm, its depth dimension is allowed to be less than 2 meters.

Reaction force and power

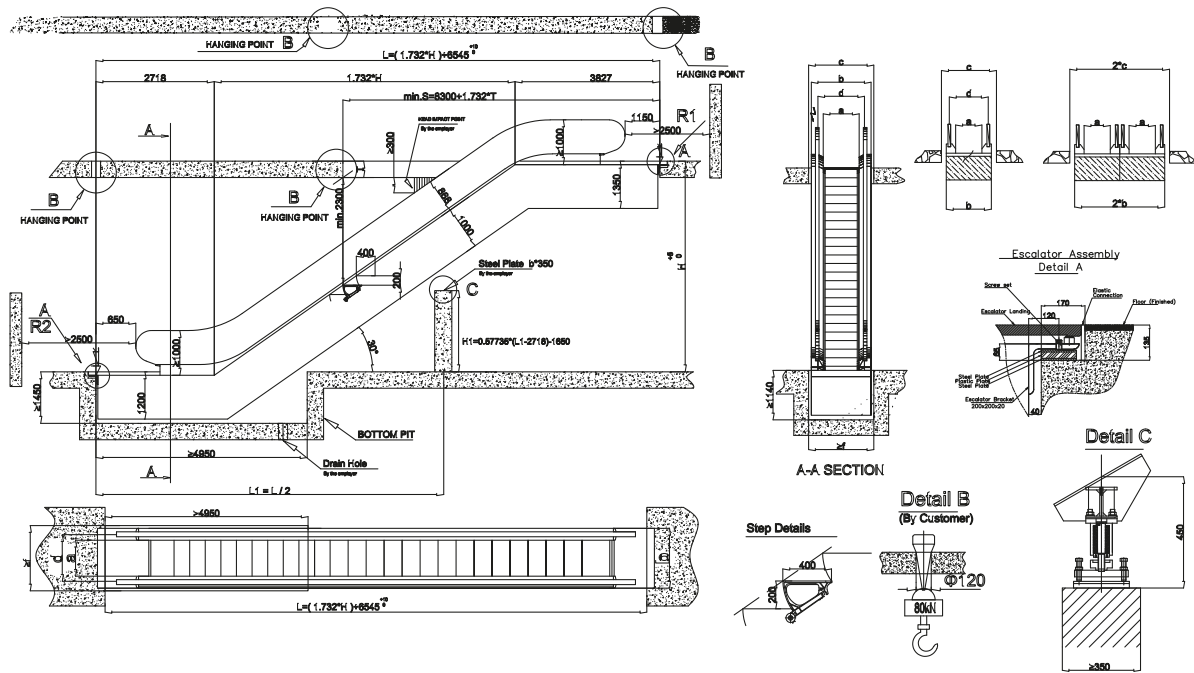
| Step width    |        | 600         | 800         | 1000       | Remarks                                    |         |
|---------------|--------|-------------|-------------|------------|--------------------------------------------|---------|
| R1 (KN)       |        | 4.1*L2+17.5 | 4.5*L2+18.1 | 5*L2+19.5  | L1,L2 unit is m<br>L1,L2 are Less than 15m |         |
| R2 (KN)       |        | 4.1*L1+9.8  | 4.5*L1+9.8  | 5*L1+10.5  |                                            |         |
| R3 (KN)       |        | 4.25*L+11.5 | 4.5*L+12.5  | 5.2*L+13.5 |                                            |         |
| Machine power | 5.5 Kw | H≤5.6       | H≤4         | H≤3        | 13 A                                       | Current |
|               | 8 Kw   | 5.6<H≤9.2   | 4 <H≤6.4    | 3<H≤4.9    | 18 A                                       |         |
|               | 11 Kw  | 9.2<H≤13    | 6.4<H≤9.3   | 4.9<H≤7.2  | 24 A                                       |         |
|               | 15 Kw  |             | 9.3<H≤9.8   | 7.2<H≤7.9  | 32 A                                       |         |

Standard Specification and size unit (mm)

| Model                                  | Symbols | BLF-60M-30 | BLF-80M-30 | BLF-100M-30 |
|----------------------------------------|---------|------------|------------|-------------|
| Step Width                             | a       | 600        | 800        | 1000        |
| Decoration Width                       | b       | 1140       | 1340       | 1540        |
| Construction layout opening Width      | c       | 1260       | 1460       | 1660        |
| Handrail Spencer                       | d       | 838        | 1038       | 1238        |
| Safe construction layout opening Width | e       | 1800       | 2000       | 2200        |
| construction layout opening Width      | f       | 1260       | 1460       | 1660        |

## Construction Parameter Layout

BLXF -M-30°-Single | Indoor and outdoor  
3 Steps Flat -0.5 - 0.65 m/s - Rise ≤ 10 m



For 600mm with / the upper truss should be increased 550mm  
Middle support is required for height more than 5.7m  
TO add Y\_A capability to a VVVF system, the length of the  
upper truss should meet a 300mm increase.

Note1: A vertical anti-pinch plate that has no acute angle edge should be set on the handrail belt in the junction between escalator and floorslab. If the distance between the outer edge of the handrail belt and any obstruction is greater than 400mm, it does not have to install the anti-pinch plate.

Note2: There should be adequate flow area to accommodate passengers at the entrance and exit of the escalator. If the width of the area is more than twice the distance between outer edge of the handrail belt plus 160mm, its depth dimension is allowed to be less than 2 meters.

Reaction force and power

| Step width    |           | 800                     | 1000                  | Remarks                                         |         |
|---------------|-----------|-------------------------|-----------------------|-------------------------------------------------|---------|
| R1 (KN)       |           | $4.5 \times L_2 + 18.6$ | $5.2 \times L_2 + 20$ | L, L1, L2 unit is m<br>L1, L2 are Less than 15m |         |
| R2 (KN)       |           | $4.5 \times L_1 + 10.3$ | $5.2 \times L_1 + 11$ |                                                 |         |
| R3 (KN)       |           | $4.5 \times L + 13.5$   | $5.2 \times L + 14.5$ |                                                 |         |
| Machine power | 8 Kw      | $H \leq 4.5$            | $H \leq 3.2$          | 18 A                                            | Current |
|               | 11 Kw     | $4.5 < H \leq 5.7$      | $3.2 < H \leq 4.3$    | 24 A                                            |         |
|               | 15 Kw     | $5.7 < H \leq 8$        | $4.3 < H \leq 6.1$    | 32 A                                            |         |
|               | 18.5 Kw   | $8 < H \leq 10$         | $6.1 < H \leq 8$      | 40 A                                            |         |
|               | 2*11 Kw   | $10 < H \leq 12$        | $8 < H \leq 9.2$      | 48 A                                            |         |
|               | 2*15 Kw   | $12 < H \leq 16.7$      | $9.2 < H \leq 12.7$   | 64 A                                            |         |
|               | 2*18.5 Kw | $16.7 < H \leq 20$      | $12.7 < H \leq 15.3$  | 80 A                                            |         |

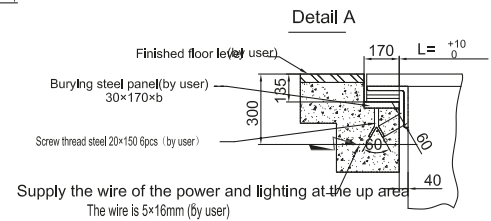
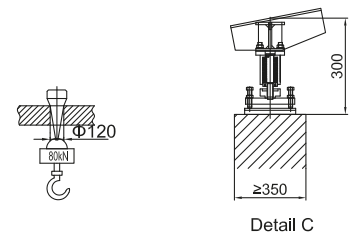
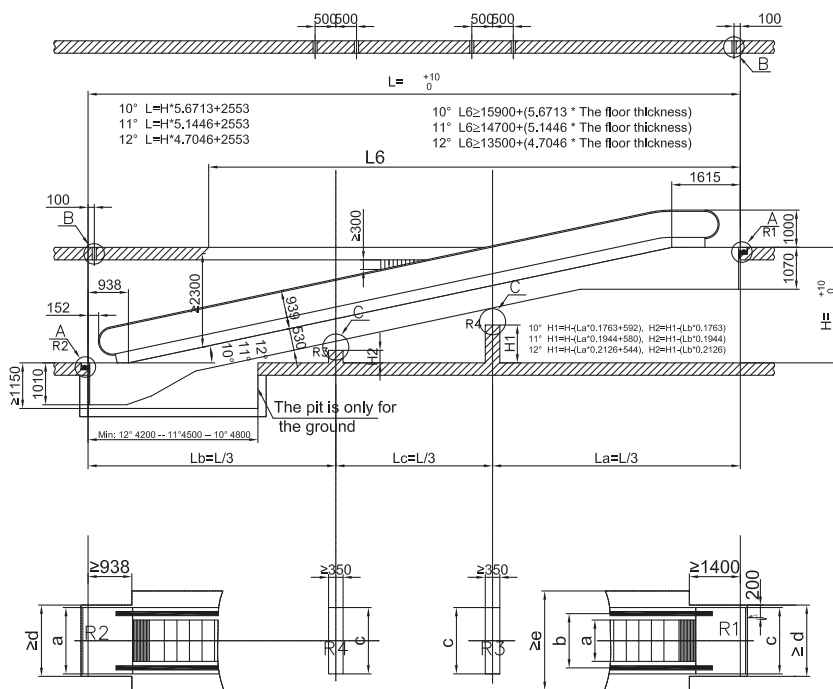
Standard Specification and size unit (mm)

| Model                                  | Symbols | BLXF-80M-30 | BLXF-100M-30 |
|----------------------------------------|---------|-------------|--------------|
| Step Width                             | a       | 800         | 1000         |
| Decoration Width                       | b       | 1400        | 1600         |
| Construction layout opening Width      | c       | 1460        | 1660         |
| Handrail Spencer                       | d       | 1110        | 1310         |
| Safe construction layout opening Width | e       | 2000        | 2200         |
| construction layout opening Width      | f       | 1460        | 1660         |



## Construction Parameter Layout

B L R F / 10° 11° 12° - Single | indoor  
0.5 m/s - Rise ≤ 7m



Note1: A vertical anti-pinch plate that has no acute angle edge should be set on the handrail belt in the junction between escalator and floorslab. If the distance between the outer edge of the handrail belt and any obstruction is greater than 400mm, it does not have to install the anti-pinch plate.

Note2: There should be adequate flow area to accommodate passengers at the entrance and exit of the escalator. If the width of the area is more than twice the distance between outer edge of the handrail belt plus 160mm, its depth dimension is allowed to be less than 2 meters.

| Supporting force               |                                    |                                    |
|--------------------------------|------------------------------------|------------------------------------|
| Without middle supporting (KN) | With one middle supporting (KN)    | With two middle supporting (KN)    |
| $R1 = L \cdot q + M$           | $R1 = La \cdot q + M$              | $R1 = La \cdot q + M$              |
|                                | $R2 = Lb \cdot q + N$              | $R2 = Lb \cdot q + N$              |
| $R2 = L \cdot q + N$           | $R3 = (La + Lb) \cdot q \cdot 1.3$ | $R3 = (La + Lc) \cdot q \cdot 1.3$ |
|                                |                                    | $R4 = (Lb + Lc) \cdot q \cdot 1.3$ |

Power Table

| Rise/12°/0.5ms |      | 5.5 Kw                                    | 8 Kw      | 11 Kw   | 15 Kw |
|----------------|------|-------------------------------------------|-----------|---------|-------|
| Machine power  | 1000 | H≤2.8                                     | 2.8<H≤4.5 | 4.5<H≤6 | 6<H≤7 |
|                | 800  | H≤3.5                                     | 3.5<H≤5.7 | 5.5<H≤7 |       |
| Notes          |      | L,L1,L2 is m<br>L1 , L2 are less than 15m |           |         |       |

## Construction Parameter Layout

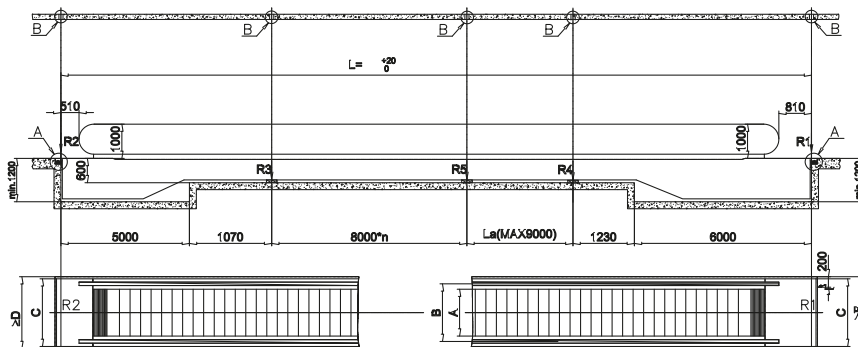
BLRF / 10° 11° 12° Single | indoor  
0.5 m/s - Rise ≤ 7m



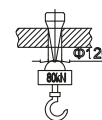
|                  |      |        |                   |     | Pallet width | 800  | 1000 |
|------------------|------|--------|-------------------|-----|--------------|------|------|
|                  |      |        |                   |     | a            | 800  | 1000 |
|                  |      |        |                   |     | b            | 1038 | 1238 |
|                  |      |        |                   |     | c            | 1340 | 1540 |
|                  |      |        |                   |     | d            | 1400 | 1600 |
| Supporting force |      | q      | M                 | N   | e            | 1918 | 2118 |
| 800              |      | 0.0039 | 10.5              | 5.5 | f            | 1340 | 1540 |
| 1000             |      | 0.0045 | 12                | 6   | g            | 5    | 6    |
| Angle            | Rise |        | Middle supporting |     | La           | Lb   | Lc   |
|                  | From | To     | R3                | R4  |              |      |      |
| 10°              | 1297 | 2178   | -                 | -   | -            | -    | -    |
|                  | 2179 | 4823   | 1                 | -   | L/2          | L/2  | -    |
|                  | 4824 | 6600   | 1                 | 1   | L/3          | L/3  | L/3  |
| 11°              | 1449 | 2420   | -                 | -   | -            | -    | -    |
|                  | 2421 | 5335   | 1                 | -   | L/2          | L/2  | -    |
|                  | 5336 | 7300   | 1                 | 1   | L/3          | L/3  | L/3  |
| 12°              | 1601 | 2645   | -                 | -   | -            | -    | -    |
|                  | 2645 | 5830   | 1                 | -   | L/2          | L/2  | -    |
|                  | 5830 | 8000   | 1                 | 1   | L/3          | L/3  | L/3  |

## Parameter Construction Layout

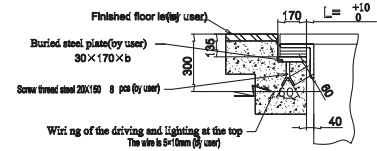
BLRP / - 0 - Single | indoor  
0.5 m/s - Length ≤ 100m



Detail B



Detail A



| Pallet width(mm) | 800  | 1000 | 1200 | 1400 |
|------------------|------|------|------|------|
| A                | 800  | 1000 | 1200 | 1400 |
| B                | 1038 | 1238 | 1430 | 1648 |
| C                | 1340 | 1540 | 1740 | 1950 |
| D                | 1400 | 1600 | 1800 | 2010 |
| E                | 1400 | 1600 | 1800 | 2010 |





#### Single unit arrangement

Single link between two levels with one traffic direction. Change of escalator direction depending on traffic flow possible.

#### Tek ünite düzenlemesi

Tek trafik yönü ile iki seviye arasında tek bağlantı. Trafik akışına bağlı olarak yürüyen merdiven yönünün değiştirilmesi mümkündür.

#### Continuous arrangement (one travel direction)

It is convenient for the passengers, but enough space is required and mainly used in small department stores.

#### Sürekli düzenleme (bir hareket yönü)

Yolcuların rahatlığı için uygundur, ancak yeterli alan gerektirir ve çoğunlukla küçük mağazalarda kullanılır.

#### Interrupted arrangement (one travel direction)

Since customers attention can be attracted on the small detours, a bit inconvenient for the passengers, but less space consuming and favorable for the department store.

#### Kesintili düzenleme (bir hareket yönü)

Küçük dolambaçlı yollarda müşterinin dikkatini çekebildiğinden, gezginler için biraz sakıncalıdır ancak daha az yer kaplar ve uygun bir mağaza için uygundur.

#### Crisscross, continuous arrangement (two way traffic)

Suitable for a minimum transportation time and highest capacity. Mainly used in major department stores, public buildings and public transportation areas.

#### Sürekli karşılıklı düzenleme (Çift yönlü trafik)

Minimum taşıma süresi ve daha yüksek kapasite için uygundur. Temelde büyük mağazalarda, kamu binalarında ve toplu taşıma alanlarında kullanılır.

#### Parallel, interrupted arrangement (two-way traffic)

Since no lateral claddings are required, it can be economically installed and since customers attention can be attracted on the small detours, it is favourable for the department store owners.

#### Paralel, kesintili düzenleme (çift yönlü trafik)

Hiçbir yanall kaplamaya ihtiyaç duyulmadığından, ekonomik olarak kurulabilir ve müşterilerin küçük sapmalara dikkat çekebilmesi nedeniyle, mağaza sahipleri için uygundur.

#### الترتيب بجهة واحدة

في هذه الطريقة يتم الربط بين سطحين بجهة مرور واحدة و يتم تغيير جهة السلم الكهربائي طبق جريان المرور



#### الترتيب المتواصل (جهة حركية واحدة)

يناسب هذا الترتيب المارة و يؤمن لهم الراحة الكافية لكنه يحتاج الى مساحات كافية و يتم تركيبه عادة في المحلات التجارية الصغيرة



#### الترتيب المتقاطع (جهة حركة واحدة)

هذا الترتيب و لانه يجلب انتباه المارة لخط سير قصير لا يعتبر مرغوبا و يحتاج الى مساحات اقل و يناسب المحلات التجارية



#### الترتيب باشارة اكس (العبور من الطرفين)

يستعمل للحمل و النقل السريع باكثر استطاعة ممكنة و يستخدم للمراكز التجارية الكبيرة و الابنية العامة و مواقف الحمل و النقل



#### الترتيب المتوازي و المتقاطع (عبور باتجاهين)

لان تركيب هذا السلم لا يحتاج الى غطاء جانبي فتكون تكلفته اقل و لأنه يقوم بلفت انتباه الركاب الى خط سير اقصر فهو مناسب للاصحاب المحلات التجارية.







## HANDRAIL COLOR



Black (Standard)



Gray (Optional)



Red (Optional)



Orange (Optional)



Blue (Optional)



Shallow Bluish Green (Optional)



Light Brown (Optional)



Yellow (Optional)

## BALUSTRADE COLOR



Transparent (standard)



Gray



Bronze (Optional)

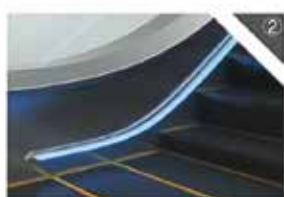


Transparent Silk Screen (Optional)

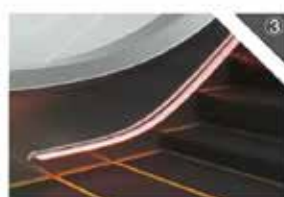
## LIGHTING



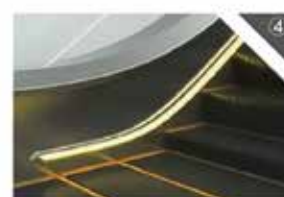
White (Optional)



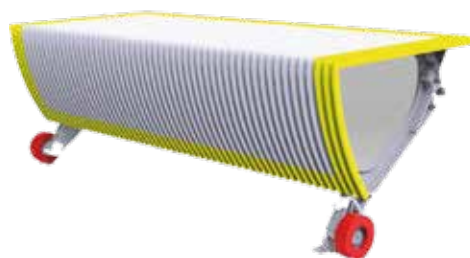
Blue (Optional)



Red (Optional)



Yellow (Optional)



## STEP COLOR



Black Stainless Steel  
(Standard Configuration for Indoor Escalator)



Silver Gray Aluminum Alloy  
(Standard Configuration for outdoor Escalator)



Black Aluminum Alloy  
(Optional)



Frame Spraying C-Type  
(Optional)



Frame Yellow Plastic C-Type  
(Optional)

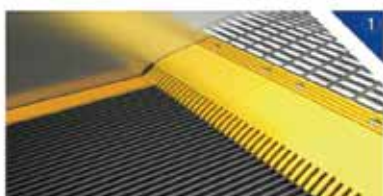


Frame Spraying E-Type  
(Optional)

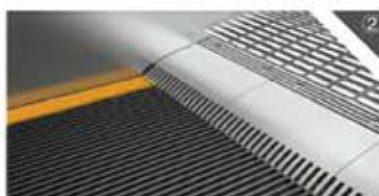


Frame Yellow Plastic E-Type  
(Optional)

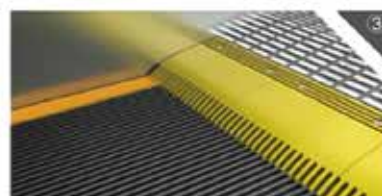
## COMB TOOTH



Yellow Plastic  
(Standard)

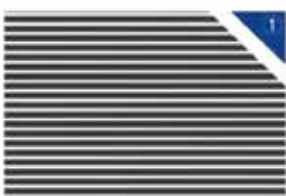


Aluminum  
(Optional)



Aluminum Surface Yellow Paint  
(Optional)

## LANDING PLATE



Aluminum Patch  
(Standard)



Stainless Steel Striped Patch  
(Optional)

## INDICATOR

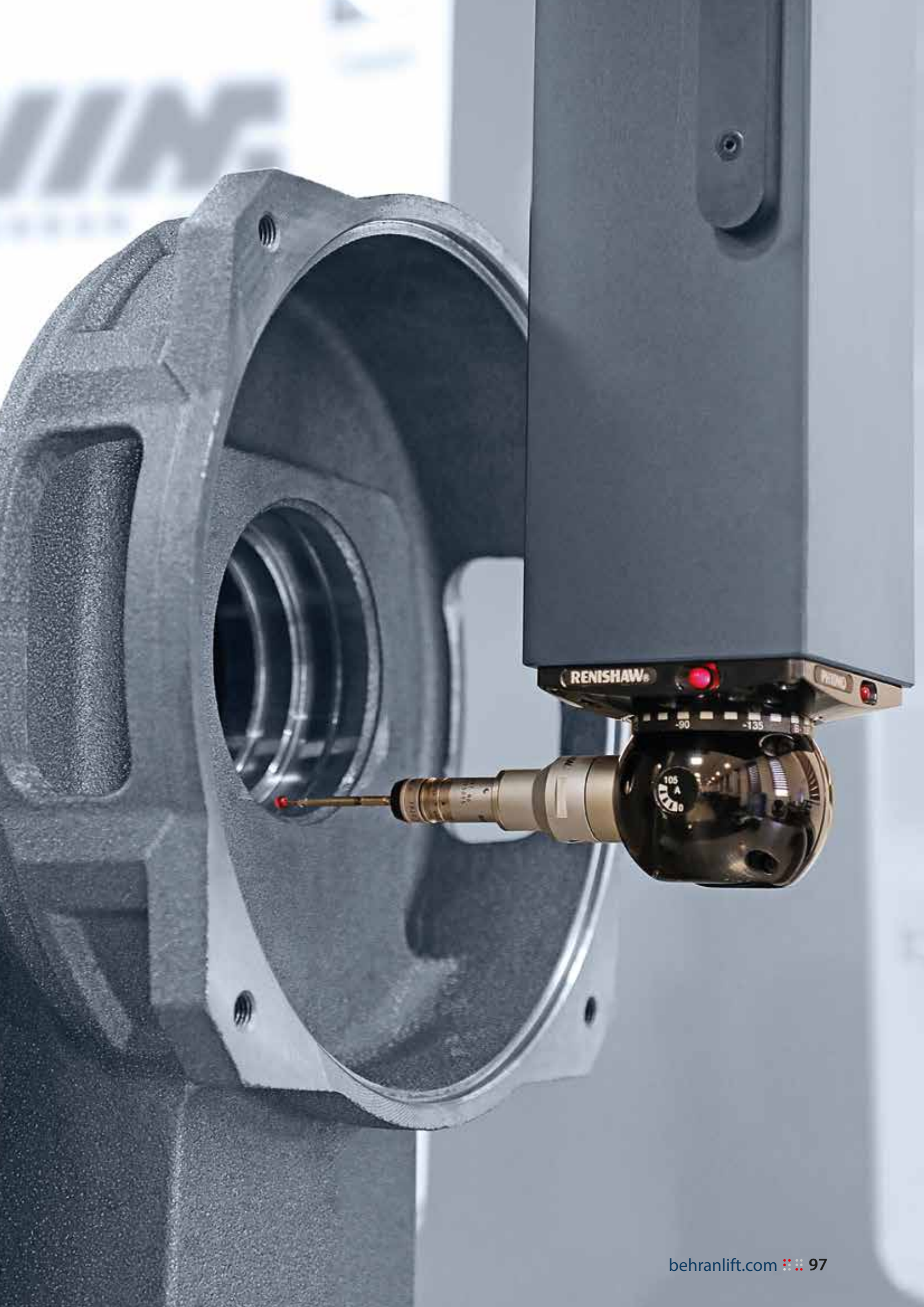


Transparent Plastic LED Display  
(Optional)



Black Plastic Dot Matrix Display  
(Optional)





## مخبر ضبط الجودة

ان مختبر بهران المتقدم مجهز بأحدث اجهزة الاختبار و القياس و ذلك لضمانة الجودة و الأمان. ان مجموعة بهران الصناعية تمتلك بجانب هذا المختبر تجهيزات فحص حديثة و لفحص المنتجات تحت ظروف واقعية فهي تمتلك برج اختبار بارتفاع 520 متر يحتوي على جهازي فحص للمصاعد بسرعة ٣ متر/ثا و قامت هذه الشركة بافتتاح و تدشين اعلى برج اختبار للسلاالم الكهربائية بارتفاع ١٤ مترا و ذلك ارضاء لشعورها بالمسؤولية HEAVY-DUTY تجاه المنتجات و جودتها و حيث ان السلاالم الكهربائية تطابق المعايير الاوروبية و تعد ذات مواصفات عالمية. ان المختبر المتقدم بهران، مجهز بأحدث اجهزة الفحص و الاختبار و قياس الجودة و في العام ٢٠٢١ استطاع الحصول على شهادة الايزو ١٧٠٢٥ ISO و حصل على موافقة المركز الوطني الإيراني ليكون مخبرا مرجعيا في البلاد.

## Kalite kontrol laboratuvarı

Behran Advanced Laboratory, kalite ve güvenliği sağlamak amacıyla en modern test ve ölçüm cihazları ile donatılmıştır. Bu donanımlı laboratuvara ek olarak, Behran Industrial Group gerekli muayene ekipmanını kullanmış ve ürünleri gerçek koşullarda test etmek için, maksimum 3 metre/san hızda iki laboratuvar asansörüne sahip 50 metre yüksekliğinde bir test kulesi kurmuştur. Behran ilk olan Ortadoğu'da 14 metre yüksekliğe montaj edilmiş Heavy-Duty yürüyen merdiven test kulesi tesislerinde, Bu eylemlerle büyük bir adım attık Kaliteyi artırmak için Asansör ve yürüyen merdiven ürünlerimiz Avrupa standartlarına uygun Üretebilmek ve Piyasaya dünya kalitesinde ürünler sunmak. Behran Laboratuvar Modern ve Teknik olarak donatılmış ISO 17025 sertifikasına ve en son donanıma ve Deneyimli personel sahiptir.

## Quality Control Laboratory

Behran's advanced laboratory is equipped with the most modern testing and measuring equipment with the aim of ensuring quality and safety. In addition to this modern laboratory, Behran Industrial Group has used the necessary inspection methods in order to test it's products in real conditions by setting up a 50 meter elevator test tower, having two test elevators with a maximum speed of 3 meters per second. Behran has also installed a 14 - meter - high Heavy-Duty escalator test tower in its premises whihc is the first in the Middle East. With these measures we have taken a major step toward improving the quality of our elevator & escalator products in line with European standards to be able to produce and market global qualit products. Behran has set up a modern and equipped technical laboratory that enjoys an ISO17025 certificate, the latest equipment as well as experienced personnel.





# Tehran City

## Tahran şehri

### مدينة طهران



Railway of the Islamic Republic of Iran – Tehran Station  
İran İslam Cumhuriyeti Demiryolu – Tahran İstasyonu

موقف طهران ، سكك الجمهورية الإسلامية الإيرانية



Shemiran Center Commercial Complex  
Shemiran Center Ticaret Kompleksi

المجمع التجاري شميران سينتر



Islamic Consultative Assembly of Iran  
İran İslam Danışma Meclisi

البناء الإداري لمجلس الشورى الإيراني



قطار الأنفاق - خط ٧ و ٦ في طهران

Metro | Tahrān'in 6. ve 7. hatları

Metro | Lines 6 and 7 of Tehran



### المصعد

الخط ٦ لقطار الأنفاق ----- ٧٠ جهاز  
الخط ٧ لقطار الأنفاق ----- ٤٩ جهاز

### السلم الكهربائي

الخط ٦ لقطار الأنفاق ----- ٩٨ جهاز  
الخط ٧ لقطار الأنفاق ----- ١٧٧ جهاز

### Asansörler

Metro Hattı 6 ----- 70 adet  
Metro Hattı 7 ----- 49 adet

### Yürüyen merdiven

Metro Hattı 6 ----- 98 adet  
Metro Hattı 7 ----- 177 adet

### Elevator

Metro Line 6 ----- 70 Units  
Metro Line 7 ----- 49 Units

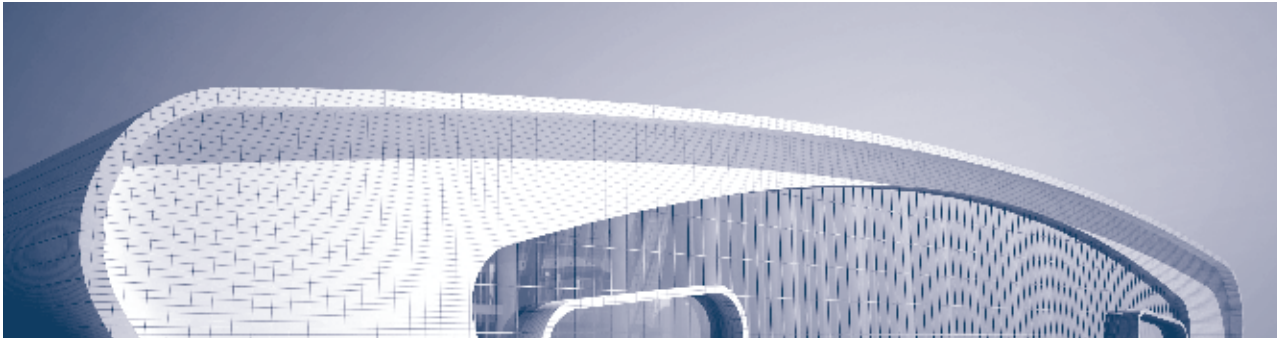
### Escalator

Metro Line 6 ----- 98 Units  
Metro Line 7 ----- 177 Units

مجمعات طهران

Tahrān Kompleksleri

Tehran Complexes



### المصعد

مجلس الشورى الإسلامي ----- ١٠ أجهزة  
مشفى فياض بخش ----- ٢٤ جهاز  
مشفى مسيح دانشوري ----- ١٤ جهاز

### السلم الكهربائي

مطار الامام الخميني (ره) ----- ٤ أجهزة  
المحلات السلسلية رفاه ----- ٤ أجهزة

### Asansörler

Parlamento ----- 10 Adet  
Fayaz Bahş Hastanesi ----- 24 Adet  
Masih Daneşvari Hastanesi ----- 14 Adet

### Yürüyen merdiven

İmam Humeyni Havalimanı ----- 4 Adet  
Refah zinciri mağazası ----- 4 Adet

### Elevator

Parliament ----- 10 Units  
Fayyaz Bakhsh Hosp ----- 24 Units  
Masih Daneshvari Hosp ----- 14 Units

### Escalator

Imam Khomeini Airport ----- 4 Units  
Refah chain store ----- 4 Units



# All over IRAN

## İRAN'ın her yerinde

## في كل انحاء ايران



Ati Center Commercial Complex, Mashhad  
Ati Center Ticaret Kompleksi, Meşhed  
المجمع التجاري اتي سنتر مشهد



IRI Railways, Mashhad Station  
IRI Demiryolları, Meşhed İstasyonu  
السكك الحديدية للجمهورية الإسلامية الإيرانية  
موقف مشهد



Kourosh Center Commercial Complex, Kish Island  
Kourosh Center Ticaret Kompleksi, Kish Adası  
سنتر في كيش



## مدينة تبريز

## Tebriz Şehri

## Tabriz City



### المصعد

برج التجارة العالمي في تبريز --- ٣ أجهزة  
قطار الأنفاق تبريز --- ١٧ جهاز  
المصلى الكبير في تبريز --- ٨ أجهزة

### السلام الكهربائية

قطار الأنفاق في تبريز --- ٨٣ جهاز

### Asansörler

Tebriz Dünya Ticaret Merkezi ---- 3 adet  
Tebriz Metrosu ---- 17 adet  
Tebriz Ulu Camii ---- 8 adet

### Yürüyen merdiven

Tebriz Metrosu ---- 83 adet

### Elevator

Tabriz World Trade Center ---- 3 Units  
Tabriz Metro ---- 17 Units  
Great Mosque of Tabriz ---- 8 Units

### Escalator

Tabriz Metro ---- 83 Units

## جميع أنحاء إيران

## İRAN'ın her yerinde

## All over İRAN



### المصعد

قطار انفاق هشتگرد --- ٨ أجهزة  
شميران سينتر --- ٧ أجهزة  
برج أسمان بابلسر --- ٤ أجهزة  
مجمع ستاره سرو --- ٦ أجهزة

### السلام الكهربائية

سكة قطار طهران مشهد --- ٣٦ جهاز  
بلدية كاشان --- ١٤ جهاز  
مقام السيدة المعصومة --- ٢ أجهزة  
مؤسسة جامعة الزهراء --- ٤ أجهزة  
اميد سبهر مشهد --- ١٠ أجهزة  
مجمع اتي سينتر مشهد --- ٤ أجهزة  
شركة البشير في العراق --- ٦ أجهزة

### Asansörler

Haştgird Metrosu ---- 8 adet  
Şemiran center ---- 7 Adet  
Babolsar Aseman Kulesi ---- 4 Adet  
Setareh Sarv Kompleksi ---- 6 Adet

### Yürüyen merdiven

Meşhed Demiryolu ---- 36 Adet  
Kasan Belediyesi ---- 14 Adet  
İmam Masum Türbesi ---- 2 Adet  
Al-Zahra Toplum Enstitüsü --- 4 Adet  
Omid Sepehr Meşhed ---- 10 Adet  
Ati Center Meşhed Comp ---- 4 Adet  
Irak El Beşir Şirketi ---- 6 Adet

### Elevator

Hashtgerd Metro ---- 8 Units  
Shemiran center ---- 7 Units  
Babolsar Aseman Tower ---- 4 Units  
Setareh Sarv complex ---- 6 Units

### Escalator

Mashhad Railway ---- 36 Units  
Kashan Municipality ---- 14 Units  
Shrine of Imam Masoumeh -- 2 Units  
Al-Zahra Society Institute ---- 4 Units  
Omid Sepehr Mashhad ---- 10 Units  
Ati Center Mashhad Comp -- 4 Units  
Al-Bashir Company of Iraq --- 6 Units

◆ القسم المثالي في العام ٢٠٢٠ 2020'nin En İyi Standart Şirketi Top Standard Company of 2020 ◆



ان مجموعة صناعة المصاعد و السلالم الكهربائية بهران و للوصول إلى اهدافها المذكورة على المدى الطويل دائما ما تولي عناية خاصة و اهمية كبيرة للمنتجات الخاصة بها. و لذلك استطاعت بهران الحصول ختم الموثوقية و علامة الجودة من المؤسسة الوطنية الإيرانية لمعايير الجودة.

Behran Asansör ve Yürüyen Merdiven Sanayi Grubu, uzun vadeli hedeflerine ulaşmak için her zaman ürünlerinin kalitesinin önemine odaklanmıştır. Bu nedenle Behran, bu tavrı ile İran Ulusal Standartlar Teşkilatı'nın onay mührü ve standart işaretini elde edebilmiştir.

Behran Elevator and Escalator Industrial Group, in order to achieve its long-term goals, has always focused on the importance of the quality of its products. Therefore, with this attitude, Behran has been able to obtain the seal of approval and the standard mark of the National Standard Organization of Iran.

◆ الانجازات الأخرى

Diğer başarılar

Other Successes ◆



Standard Tuv intercert

Standart Tuv intercert  
معيار TUV intercert



Standard MTIC intercert

Standart MTIC intercert  
معيار MTIC INTRCERT



European CE standard

Avrupa CE standardı  
معايير CE الأوروبية

SZUTEST

EN115 standard

EN 115 standardı  
معايير EN115



National Standard of Iran

İran Ulusal Standardı  
المعايير الوطنية الإيرانية

SZUTEST

EN81-1 standard

EN81-1 standardı  
معايير EN 81-1

◆ مخطط تطوير طهران

Behran Genişleme Planı

Behran Expansion Plan ◆



## Behran Asansör Referansları

### الخبرات و المشاريع السابقة لبهران في مجال المصاعد

| ردیف | Item | Project Name                                  | نام پروژه                                                                         | City       | شهر    | Qty | (m/s) | Capacity (People) | Stops | Type                   | نوع                  |
|------|------|-----------------------------------------------|-----------------------------------------------------------------------------------|------------|--------|-----|-------|-------------------|-------|------------------------|----------------------|
| 1    |      | Tabriz World Trade Center Tower               | برج تجارت جهانی تبریز                                                             | Tabriz     | تبریز  | 3   | 3     | 25                | 34    | Passenger/ Cargo       | مسافر - باربر        |
| 2    |      | Shemiran Center Commercial Complex            | مجمع تجاری اداری شمیران ستر                                                       | Tehran     | تهران  | 6   | 2.5   | 13                | 22    | Passenger/ Cargo       | مسافر - باربر        |
| 3    |      | Aseman Residential Tower                      | برج مسکونی آسمان بابلسر                                                           | Babolsar   | بابلسر | 4   | 2/5   | 13                | 31    | Passenger/ Cargo       | مسافر - باربر        |
| 4    |      | Kourosh Brand Center Commercial Complex       | مجمع تجاری تفریحی کوروش برند ستر                                                  | Kish       | کیش    | 2   | 1     | 13                | 5     | Passenger              | مسافر                |
| 5    |      | El Mall Commercial Complex                    | مجمع تجاری ال مال                                                                 | Zanjan     | زنجان  | 13  | 1/6   | 30                | 11    | Passenger/ Cargo       | مسافر - باربر        |
| 6    |      | Iran Parliment Administrative Buildings       | ساختمان کمیسیون های مجلس شورای اسلامی                                             | Tehran     | تهران  | 10  | 1/6   | 13                | 13    | Passenger/ Cargo       | مسافر - باربر        |
| 7    |      | Baharan Residential/ Commercial Complex       | مجمع مسکونی تجاری بهاران                                                          | Tehran     | تهران  | 8   | 2     | 13                | 25    | Passenger/ Trolley Bed | مسافر - برانکاردر بر |
| 8    |      | Ofogh Ekbatan Residential/ Commercial Complex | مجمع مسکونی، تجاری افق اکباتان                                                    | Tehran     | تهران  | 37  | 2     | 13                | 19    | Passenger/ Cargo       | مسافر - باربر        |
| 9    |      | Mashhad Firoozeh Shargh Commercial Complex    | مجمع تجاری اداری فیروزه شرق مشهد                                                  | Mashhad    | مشهد   | 20  | 2     | 16                | 11    | Passenger              | مسافر                |
| 10   |      | Refah Chain Stores, Park Royal Building       | فروشگاه زنجیره ای رفاه ساختمان پارک رویال                                         | Tehran     | تهران  | 2   | 1/6   | 16                | 8     | Passenger/ Panorama    | پانوراما - مسافر     |
| 11   |      | Refah Chain Stores, Zartosht Building         | فروشگاه زنجیره ای رفاه شعبه زرتشت، قصرالدشت                                       | Tehran     | تهران  | 4   | 1     | 13                | 8     | Passenger              | مسافر                |
| 12   |      | Refah Chain Stores, Khorasan Square           | فروشگاه زنجیره ای رفاه شعب جمهوری خیابان مولوی، میدان خراسان، میدان امام حسین (ع) | Tehran     | تهران  | 4   | 0/8   | 26                | 5     | Passenger              | مسافر                |
| 13   |      | Salam Building                                | ساختمان سلام                                                                      | Tehran     | تهران  | 4   | 1/6   | 14                | 6     | Passenger              | مسافر                |
| 14   |      | Imam Reza Commercial/ Hotel Complex           | مجمع تجاری اقامتی امام رضا (ع)                                                    | Mashhad    | مشهد   | 6   | 2     | 18                | 22    | Passenger              | مسافر                |
| 15   |      | Qadir residential Complex                     | پروژه مجمع مسکونی غدیر                                                            | Tehran     | تهران  | 3   | 2     | 21                | 25    | Passenger              | مسافر                |
| 16   |      | Refah Chain Stores, Qazvin                    | فروشگاه زنجیره ای رفاه شعبه قزوین                                                 | Qazvin     | قزوین  | 5   | 1     | 26                | 8     | Passenger/ Cargo       | نفر - باربر          |
| 17   |      | Imam Khomeini Charity Foundation              | مصلی تبریز                                                                        | Tabriz     | تبریز  | 8   | 1     | 16                | 3     | Passenger              | مسافر                |
| 18   |      | Omid Farda Rehabilitation Center              | مرکز توانبخشی مینا                                                                | Tehran     | تهران  | 3   | 1/6   | 14                | 14    | Passenger              | مسافر                |
| 19   |      | The Seminary Service Center of the Country    | مجمع مسکونی پانزده خرداد قم                                                       | Qom        | قم     | 18  | 1     | 8                 | 9     | Passenger/ Cargo       | مسافر - باربر        |
| 20   |      | The Seminary Service Center of the Country    | مجمع مسکونی پردیس - ممتاز قم                                                      | Qom        | قم     | 8   | 1     | 8                 | 8     | Passenger              | مسافر                |
| 21   |      | The Seminary Service Center of the Country    | مجمع مسکونی اهواز                                                                 | Qom        | قم     | 8   | 1     | 8                 | 8     | Passenger              | مسافر                |
| 22   |      | The Seminary Service Center of the Country    | مجمع مسکونی دزفول                                                                 | Qom        | قم     | 5   | 1     | 8                 | 6     | Passenger              | مسافر                |
| 23   |      | The Seminary Service Center of the Country    | ساختمان های اداری شیراز - دزفول - اهواز                                           | Qom        | قم     | 6   | 1     | 8                 | 4     | Passenger              | مسافر                |
| 24   |      | Parsazeh Construction Co.                     | بیمارستان مسیح دانشوری                                                            | Tehran     | تهران  | 14  | 1/6   | 27                | 12    | Passenger/ Trolley Bed | مسافر - برانکاردر    |
| 25   |      | Siber International for Tehran Metro          | آسانسورهای خط ۶ مترو تهران                                                        | Tehran     | تهران  | 70  | 1/6   | 16                | 2     | Passenger/ Wheel Chair | مسافر - ویلچر        |
| 26   |      | Farab Co for Tehran Metro                     | آسانسورهای خط ۷ مترو تهران                                                        | Tehran     | تهران  | 49  | 1/6   | 16                | 2     | Passenger              | مسافر                |
| 27   |      | Parsazeh Construction Co.                     | بیمارستان فیاض بخش                                                                | Tehran     | تهران  | 24  | 1/6   | 21                | 7     | Passenger/ Trolley Bed | مسافر - برانکاردر بر |
| 28   |      | Hashtgerd New City                            | آسانسورهای مترو شهر جدید هشتگرد                                                   | Tehran     | تهران  | 8   | 1/6   | 21                | 2     | Passenger              | مسافر                |
| 29   |      | Payambaran Hospital                           | بیمارستان پیامبران                                                                | Tehran     | تهران  | 10  | 1/6   | 15                | 17    | Trolley Bed            | برانکاردر            |
| 30   |      | Tabriz Metor                                  | آسانسورهای خط یک مترو تبریز و حومه                                                | Tabriz     | تبریز  | 17  | 1/6   | 16                | 2     | Passenger              | مسافر                |
| 31   |      | West Azarbaizan Medical Science University    | بیمارستان فوق تخصصی زنان ارومیه                                                   | Aroumihyeh | ارومیه | 10  | 1/6   | 21                | 9     | Trolley Bed            | برانکاردر            |
| 32   |      | Iran Country-Wide Airports                    | فرودگاه مهر آباد تهران                                                            | Tehran     | تهران  | 1   | 1     | 13                | 2     | Passenger              | مسافر                |
| 33   |      | Gandi Towers                                  | برج های گاندی و جردن                                                              | Tehran     | تهران  | 3   | 1/6   | 14                | 14    | Passenger              | مسافر                |
| 34   |      | Merdas Commercial Complex                     | مجمع تجاری اداری مرداس                                                            | Tehran     | تهران  | 7   | 1/6   | 19                | 15    | Passenger              | مسافر                |
| 35   |      | Safir Commercial Complex                      | مجمع تجاری اداری سفیر                                                             | Tabriz     | تبریز  | 7   | 1/6   | 16                | 9     | Passenger              | مسافر                |
| 36   |      | Matrix Co.                                    | مجمع اداری ماتریکس (msi)                                                          | Tehran     | تهران  | 2   | 1/6   | 13                | 9     | Passenger              | مسافر                |
| 37   |      | Arses Parsian Kish Co.                        | مجمع تجاری اداری هایلند و صدف                                                     | Kish       | کیش    | 1   | 1/6   | 16                | 8     | Passenger              | مسافر                |



# Behran Escalator References



## Behran Yürüyen Merdiven Referansları

## الخبرات و المشاريع السابقة لبهرا في مجال السلالم الكهربائية

| Item | ردیف | Project Name                            | نام پروژه                                       | Province         | استان             | Nr. Of Escalators | تعداد پله برقی | Escalator Type | نوع پله برقی |
|------|------|-----------------------------------------|-------------------------------------------------|------------------|-------------------|-------------------|----------------|----------------|--------------|
| 1    |      | Tehran Metro Line Nr. 7                 | خط ۷ متروی تهران                                | Tehran           | تهران             | 177               |                | HD             |              |
| 2    |      | Tehran Metro Line Nr. 6                 | خط ۶ متروی تهران                                | Tehran           | تهران             | 98                |                | HD             |              |
| 3    |      | Imam Hossein main Metor station, Line 6 | ایستگاه امام حسین                               | Tehran           | تهران             | 1                 |                | HD             |              |
| 4    |      | Imam Khomeini Airport City              | شهر فرودگاهی امام خمینی                         | Tehran           | تهران             | 6                 |                | HD             |              |
| 5    |      | Tabriz Metro                            | قطار شهری تبریز                                 | East Azarbaizan  | آذربایجان شرقی    | 5                 |                | HD             |              |
| 6    |      | Tabriz Metro                            | قطار شهری تبریز                                 | East Azarbaizan  | آذربایجان شرقی    | 5                 |                | HD             |              |
| 7    |      | Tehran-Mashhad Rail way                 | راه آهن تهران-مشهد                              | Khorasan- Tehran | تهران-خراسان رضوی | 28                |                | HD             |              |
| 8    |      | Merdas Project                          | پروژه مرداس                                     | Tehran           | تهران             | 10                |                | CM             |              |
| 9    |      | Shamsolemareh Project                   | شمس الماره                                      | Tehran           | تهران             | 8                 |                | CM             |              |
| 10   |      | Alin Center                             | آلین سنتر                                       | Tehran           | تهران             | 8                 |                | CM             |              |
| 11   |      | Toos Commercial Sports Complex          | مجتمع تجاری ورزشی طوس                           | Tehran           | تهران             | 6                 |                | CM             |              |
| 12   |      | Saleh Abad Almas Project                | الماس صالح آباد                                 | Tehran           | تهران             | 6                 |                | CM             |              |
| 13   |      | Makrun Center                           | مکران سنتر                                      | Tehran           | تهران             | 6                 |                | CM             |              |
| 14   |      | Etbatan                                 | مجتمع تجاری افق اکباتان ۳                       | Tehran           | تهران             | 6                 |                | CM             |              |
| 15   |      | Negin Cancer Specialists Center         | مرکز تخصصی سرطان نگین                           | Tehran           | تهران             | 4                 |                | CM             |              |
| 16   |      | Baharan Commercial Center               | مجتمع تجاری بهاران                              | Tehran           | تهران             | 2                 |                | CM             |              |
| 17   |      | Pasargad Furniture Mall                 | بازار میل پاسارگاد                              | Tehran           | تهران             | 2                 |                | CM             |              |
| 18   |      | Soldoosh Project                        | پروژه سولدوش                                    | Tehran           | تهران             | 2                 |                | CM             |              |
| 19   |      | Aramis Tower                            | برج آرامیس                                      | Tehran           | تهران             | 4                 |                | CM             |              |
| 20   |      | Atrim Complex                           | مجتمع آتریم                                     | Tehran           | تهران             | 6                 |                | CM             |              |
| 21   |      | Remak Project                           | پروژه رماک                                      | Tehran           | تهران             | 8                 |                | CM             |              |
| 22   |      | Bamdad Super Market                     | سوپر پروتئین بامداد                             | Tehran           | تهران             | 2                 |                | CM             |              |
| 23   |      | Zarnam Co.                              | شرکت زرنام                                      | Tehran           | تهران             | 1                 |                | CM             |              |
| 24   |      | Gold Mall                               | پروژه گلدمال                                    | Tehran           | تهران             | 4                 |                | CM             |              |
| 25   |      | Imam Khomeini Mosala                    | مصلای امام خمینی                                | Tehran           | تهران             | 2                 |                | CM             |              |
| 26   |      | Meghvayee Hyper Market                  | هایپر ستاره مغویایی                             | Tehran           | تهران             | 2                 |                | CM             |              |
| 27   |      | Noor Commecial Complex                  | پروژه تجاری و اداری نور                         | Tehran           | تهران             | 6                 |                | CM             |              |
| 28   |      | Paradis Commercial Complex              | مجتمع تجاری پارادایس                            | Tehran           | تهران             | 6                 |                | CM             |              |
| 29   |      | Parand Mall                             | مجتمع تجاری تفریحی سینمایی پرند مال             | Tehran           | تهران             | 3                 |                | CM             |              |
| 30   |      | Ghazanfari Project                      | پروژه آقای غزنفری                               | Tehran           | تهران             | 2                 |                | CM             |              |
| 31   |      | Ibrahim Mirzayee Commercial Complex     | مجتمع تجاری ابراهیم میرزایی                     | Tehran           | تهران             | 2                 |                | CM             |              |
| 32   |      | Mandegar                                | پروژه ماندگار                                   | West Azarbaijan  | آذربایجان غربی    | 6                 |                | CM             |              |
| 33   |      | Ghanbaro Book Store                     | کتاب فروشی قبری                                 | West Azarbaijan  | آذربایجان غربی    | 2                 |                | CM             |              |
| 34   |      | Part Hoter Commercial Complex           | مجتمع تجاری هتل پارک                            | West Azarbaijan  | آذربایجان غربی    | 4                 |                | CM             |              |
| 35   |      | Lara Commercial Complex                 | مجتمع تجاری لارا                                | East Azarbaizan  | آذربایجان شرقی    | 6                 |                | CM             |              |
| 36   |      | Aipak Palace Commercial Complex         | مجتمع تجاری تفریحی ایپک پالاس                   | East Azarbaizan  | آذربایجان شرقی    | 4                 |                | CM             |              |
| 37   |      | Imiam Khoemini Charity Foundation       | بنیاد خیریه مصلای حضرت امام خمینی               | East Azarbaizan  | آذربایجان شرقی    | 8                 |                | CM             |              |
| 38   |      | Milad Commercial Complex                | مجتمع تجاری میلاد                               | East Azarbaizan  | آذربایجان شرقی    | 4                 |                | CM             |              |
| 39   |      | Miyabeh Commercial Complex              | پروژه میانه                                     | East Azarbaizan  | آذربایجان شرقی    | 1                 |                | CM             |              |
| 40   |      | Arshad Commercial Complex               | پروژه تجاری ارشد                                | East Azarbaizan  | آذربایجان شرقی    | 2                 |                | CM             |              |
| 41   |      | Agha Mall                               | مرکز خرید آقا                                   | Ardabin          | اردبیل            | 4                 |                | CM             |              |
| 42   |      | Reza Commercial Complex                 | مجتمع تجاری تفریحی رضا                          | Ardabin          | اردبیل            | 8                 |                | CM             |              |
| 43   |      | Forosha Commercial Complex              | مجتمع تجاری فروشا                               | Alborz           | البرز             | 6                 |                | CM             |              |
| 44   |      | Karaj Municipality                      | ساختمان شهرداری صندوق ذخیره کارکنان شهرداری کرج | Alborz           | البرز             | 4                 |                | CM             |              |
| 45   |      | Arya Nejad Commercial Complex           | پروژه آریا نژاد                                 | Alborz           | البرز             | 4                 |                | CM             |              |

**CM** Commercial

تجاری

**HD** Heavy Duty

سخت کار

| Item | ردیف | Project Name                          | نام پروژه                             | Province        | استان       | Nr. Of Escalators | تعداد پله برقی | Escalator Type | نوع پله برقی |
|------|------|---------------------------------------|---------------------------------------|-----------------|-------------|-------------------|----------------|----------------|--------------|
| 46   |      | Palari Store                          | فروشگاه پالاریس                       | Alborz          | البرز       | 1                 |                | CM             |              |
| 47   |      | Aras Mall Commercial Complex          | مجتمع تجاری اداری ارس مال             | Alborz          | البرز       | 1                 |                | CM             |              |
| 48   |      | Ice Mall Commercial Complex           | مجتمع تجاری آیس مال                   | Alborz          | البرز       | 4                 |                | CM             |              |
| 49   |      | Anahita Commercial Complex            | مجتمع تجاری آناهیتا                   | Alborz          | البرز       | 6                 |                | CM             |              |
| 50   |      | Baran Commercial Complex              | مجتمع تجاری باران                     | Alborz          | البرز       | 2                 |                | CM             |              |
| 51   |      | Sajadi Far Commercial Complex         | مجتمع تجاری سجادی فر                  | Alborz          | البرز       | 1                 |                | CM             |              |
| 52   |      | City Centre                           | سیتی سنتر نور                         | Isfahan         | اصفهان      | 10                |                | CM             |              |
| 53   |      | Zarin Shahr City Center               | سیتی سنتر زرین شهر                    | Isfahan         | اصفهان      | 8                 |                | CM             |              |
| 54   |      | Aras Star Commercial Complex          | مجتمع ارس استار                       | Isfahan         | اصفهان      | 2                 |                | CM             |              |
| 55   |      | Alikhani metro Station                | ایستگاه مترو علیخانی                  | Isfahan         | اصفهان      | 1                 |                | CM             |              |
| 56   |      | Symbolic                              | پروژه سمبلیک                          | Isfahan         | اصفهان      | 6                 |                | CM             |              |
| 57   |      | parsian Commercial Complex            | مجتمع تجاری پارسیان                   | Booshehr        | بوشهر       | 2                 |                | CM             |              |
| 58   |      | Saebedaran City Center                | سیتی سنتر سربداران                    | Booshehr        | بوشهر       | 2                 |                | CM             |              |
| 59   |      | Morvarid Mall                         | پاساژ مروارید                         | Booshehr        | بوشهر       | 2                 |                | CM             |              |
| 60   |      | Ati Center                            | پروژه آتی سنتر مشهد                   | Khorasan Razavi | خراسان رضوی | 4                 |                | CM             |              |
| 61   |      | Royal 1 Commercial Complex            | مجتمع تجاری لوپال ۱                   | Khorasan Razavi | خراسان رضوی | 1                 |                | CM             |              |
| 62   |      | Azadi Parking                         | پارکینگ آزادی                         | Khorasan Razavi | خراسان رضوی | 12                |                | CM             |              |
| 63   |      | Omid Sepehr Commercial Complex        | پروژه امید سپهر                       | Khorasan Razavi | خراسان رضوی | 10                |                | CM             |              |
| 64   |      | Hojat Mall                            | پاساژ حجت                             | Khorasan Razavi | خراسان رضوی | 1                 |                | CM             |              |
| 65   |      | Aseman Commercial Complex             | مجتمع تجاری آسمان                     | khuzestan       | خوزستان     | 6                 |                | CM             |              |
| 66   |      | Setila Shopping Center                | مرکز خرید ستیلا                       | khuzestan       | خوزستان     | 7                 |                | CM             |              |
| 67   |      | Almas Shargh Commercial Complex       | پروژه الماس شرق                       | khuzestan       | خوزستان     | 3                 |                | CM             |              |
| 68   |      | Hendi Jun City Center                 | سیتی سنتر هندی جان                    | khuzestan       | خوزستان     | 2                 |                | CM             |              |
| 69   |      | Zanjan Al Mall                        | مجتمع تجاری ال مال زنجان              | Zanjan          | زنجان       | 14                |                | CM             |              |
| 70   |      | Karbala Shrne                         | پروژه کربلا                           | Najaf. Iraq     | کشور عراق   | 4                 |                | CM             |              |
| 71   |      | Qoqnoos Tower                         | برج ققنوس                             | Semnam          | سمنان       | 4                 |                | CM             |              |
| 72   |      | Galeh Dar Centrla Bazaar              | بازار مرکزی شهر گله دار               | Fars            | فارس        | 5                 |                | CM             |              |
| 73   |      | Negin Jahrom Shopping Center          | مرکز خرید نگین جهرم                   | Fars            | فارس        | 2                 |                | CM             |              |
| 74   |      | Niyayesh Qazvin Commercial Complex    | مجتمع تجاری نیایش قزوین               | Qazvin          | قزوین       | 4                 |                | CM             |              |
| 75   |      | Qom Harir                             | پروژه حریر قم                         | Qom             | قم          | 9                 |                | CM             |              |
| 76   |      | Ghasre-baneh Commercial Complex       | مجتمع تجاری-تفریحی و اداری قصر بانه   | Kordestan       | کردستان     | 6                 |                | CM             |              |
| 77   |      | Star Commercial Complex               | پروژه ته استیره (ستاره)               | Kordestan       | کردستان     | 2                 |                | CM             |              |
| 78   |      | Saqez Commercial Cultural Center      | مجتمع تجاری فرهنگی سقز                | Kordestan       | کردستان     | 2                 |                | CM             |              |
| 79   |      | Foroozeh Mal                          | پاساژ فیروزه                          | Kerman          | کرمان       | 6                 |                | CM             |              |
| 80   |      | Kerman Jooyar Commercial Complex      | مرکز تجاری-تفریحی جویار کرمان         | Kerman          | کرمان       | 2                 |                | CM             |              |
| 81   |      | Hedayat Square Commercial Complex     | مجتمع تجاری میدان هدایت               | Kermanshah      | کرمانشاه    | 2                 |                | CM             |              |
| 82   |      | Hubland                               | پروژه هابلند                          | Kish            | کیش         | 2                 |                | CM             |              |
| 83   |      | Tala                                  | پروژه طلا                             | Golestan        | گلستان      | 12                |                | CM             |              |
| 84   |      | Atlas Commercial Complex              | مجتمع تجاری اطلس                      | Golestan        | گلستان      | 4                 |                | CM             |              |
| 85   |      | Galleria Commercial Complex           | مجتمع تجاری گالریا                    | Golestan        | گلستان      | 4                 |                | CM             |              |
| 86   |      | Rasht Golsar Commercial Complex       | مجموعه تجاری خدماتی گلسار رشت         | Gilan           | گیلان       | 2                 |                | CM             |              |
| 87   |      | Hahijan Residental Commercial Complex | مجتمع تجاری مسکونی لاهیجان(برج ابرشم) | Gilan           | گیلان       | 4                 |                | CM             |              |
| 88   |      | Homafarn Commercial Complex           | مجتمع تجاری همافران                   | Mazandaran      | مازندران    | 6                 |                | CM             |              |
| 89   |      | Oxin                                  | مجتمع اکسین                           | Mazandaran      | مازندران    | 10                |                | CM             |              |
| 90   |      | Amin Commercial Complex               | مجتمع تجاری امین                      | Mazandaran      | مازندران    | 3                 |                | CM             |              |
| 91   |      | Hamedan Ati Center Commercial Complex | مجتمع تجاری آتی سنتر همدان            | Hamedan         | همدان       | 8                 |                | CM             |              |
| CM   |      | Commercial                            |                                       |                 |             |                   |                |                |              |
|      |      | تجاری                                 |                                       |                 |             |                   |                |                |              |
| HD   |      | Heavy Duty                            |                                       |                 |             |                   |                |                |              |
|      |      | سخت کار                               |                                       |                 |             |                   |                |                |              |









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