

# 30

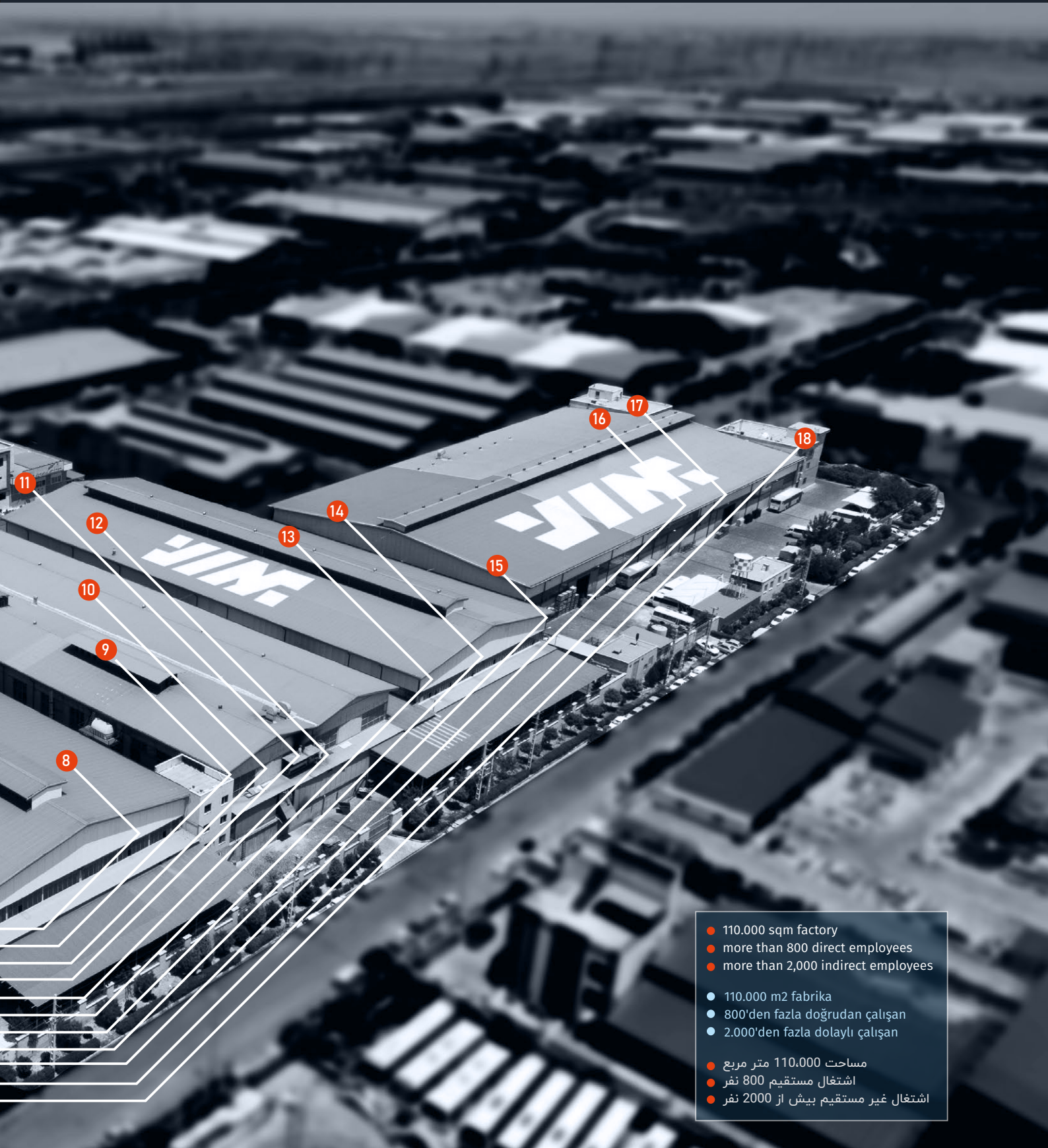
Years of continuous strive for excellence  
Mükemmeliyet için 30 yıllık sürekli çaba  
۳۰ سال تلاش پیوسته در جهت رسیدن به تعالی

Escalator Production Lines	Yürüyen Merdiven Üretim Hatları	خط تولید پله برقی
Elevator Guid Rail Production Lines	Asansör Kılavuz Ray Üretim Hatları	خط تولید ریل آسانسور
3.0 m/s Elevator Test Tower	3,0 m / s Asansör Test Kulesi	برج تست آسانسور ۳m/s
Behran Hotel	Behran Otel	هتل بهران
Management Offices	Yönetim Ofisleri	دفاتر مدیریت
Semi-Finished Production Line	Yarı Mamul Üretim Hattı	انبار قطعات نیمه آماده
Elevator cab production line	Asansör kabini üretim hattı	خط تولید کابین آسانسور

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Escalator Production Line	Yürüyen Merdiven Üretim Hattı	خط تولید پله برقی
Casting Workshop	Döküm Atölyesi	کارگاه ریخته گری
Raw Material Warehouse	Hammadde Deposu	انبار مواد اولیه
Factory Gym	Fabrika Spor Salonu	باشگاه ورزشی
Speed Governor Production Line	Hız Regülatörü Üretim Hattı	خط تولید گاورنر
CNC Machine Shop	CNC Makine Atölyesi	کارگاه تراشکاری سی ان سی
Gearless Motor Production Line	Dişlisiz Motor Üretim Hattı	خط تولید موتور گیرلس
Gearbox Motor Production Line	Şanzıman Motor Üretim Hattı	خط تولید موتور گیربکس
Elevator Door Production Line	Asansör Kapı Üretim Hattı	خط تولید درب آسانسور
Administration Building Nr. 1	Yönetim Binası No. 1	ساختمان اداری شماره یک
Administration Building Nr. 2	Yönetim Binası No. 2	ساختمان اداری شماره دو

8  
9  
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14  
15  
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18



- 110.000 sqm factory
- more than 800 direct employees
- more than 2,000 indirect employees
- 110.000 m2 fabrika
- 800'den fazla doğrudan çalışan
- 2.000'den fazla dolaylı çalışan
- مساحت 110,000 متر مربع
- اشتغال مستقیم 800 نفر
- اشتغال غیر مستقیم بیش از 2000 نفر



## 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.

Mahmoud Shakeri  
Chairman



## 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 yaptıkları uzun yıllar hatırlanan bir ekibin üyesidir.

Ülkenin gelişimine katkıda bulunmak ve müşteri memnuniyetini sağlamak için ürünlerimizin, operasyonlarımızın ve hizmetlerimizin kalitesine yeni ve ilerici 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.

Mehmet Shakeri  
başkan



## پیام مدیرعامل

بهران و چالش‌های همیشگی برای موفقیت همه ما در دنیای مبتنی بر تولید و تجارت به چالش کشیده می‌شویم و به طور قطع، کشمکش‌ها و ناکامی‌های بسیاری را در مسیر موفقیت تجربه می‌کنیم. در این مسیر، مهم‌ترین هدف افراد و مجموعه‌های موفق، نه لزوماً برد و باخت، که ادامه حرکت به سمت جلو، رسیدن به استانداردهای جدید و ایجاد فرایندی با ثبات و تمرکز برای ساختن آینده‌ای بهتر است. این رویه سبب می‌شود که هر آزمایش ناموفق، ما را یک گام به موفقیت، نزدیک‌تر کند.

بر اساس همین دیدگاه، امروز بهران از یک کارگاه کوچک ماشین‌کاری به بزرگ‌ترین کارخانجات ساخت آسانسور و پله‌برقی در خاورمیانه تبدیل شده است. امری که تحقق آن بدون تعهد، پیگیری، درس گرفتن از ناکامی‌ها و تلاش‌های مداوم مدیران، مهندسان، کارمندان و کارگران مجموعه‌ی بهران امکان‌پذیر نبوده است.

مدیریت بهران، همواره در تلاش است تا با تکیه بر مهارت‌های اولیه و توانایی‌های بالقوه کارکنان خود، تخصص آنها را پرورش دهد. همزمان، فرهنگ کاری حرفه‌ای و اخلاقی مجموعه بهران موجب شکوفایی کارمندان می‌شود.

در فلسفه کاری بهران، همه، عضو تیمی هستند که میراثی از خود بر جای می‌گذارد و سال‌ها از آنها بابت آنچه که در عرصه توسعه کشور به انجام رسانده‌اند، یاد می‌شود.

ما خود را به خلق رویکردهای جدید و مترقی در زمینه کیفیت محصولات، عملیات و خدمات خود، متعهد کرده‌ایم تا در توسعه کشور سهیم باشیم و رضایت مشتریان را به دست بیاوریم.

ما از همان آغاز تلاش کردیم با کیفیت‌ترین سازنده آسانسور و پله برقی در کشور باشیم. در این راه، بارها شکست خوردیم، اما سخت کار کردیم تا به موفقیت برسیم. زیرا نتیجه موفقیت‌ها در بلندمدت، به مراتب مهم‌تر و بیشتر از دشواری‌های عبور از مشکلات کوتاه‌مدت هستند.

محمود شاکری  
مدیرعامل





### تاریخچه بهران

بهران فعالیت خود را در سال ۱۳۶۸ از یک کارگاه کوچک ۴۰ متری تراشکاری و تعمیرات قطعات آسانسور آغاز کرد و پس از گذشت ۴ سال در سال ۱۳۷۲ کارگاه بزرگتری را به مساحت ۱۰۰ مترمربع در خیابان هاشمی تهران به این کار اختصاص داد. برادران شاکری رفته رفته با گسترش فعالیت و نیز افزایش دانش و تجربه در این حوزه، در سال ۱۳۷۶ فعالیت خود را در کارگاه بزرگتری به مساحت ۲۵۰ مترمربع در خیابان شادآباد تهران ارتقاء دادند. سرانجام بعد از گذشت ۴ سال، با تلاش و کوشش شبانه روزی توانستند یک کارگاه ۱۲۰۰ مترمربعی واقع در جاده قدیم کرج به صورت اقساطی خریداری نمایند و به ایده‌ی خود برای تولید موتور گیربکس و قطعات آسانسور، جامه‌ی عمل بپوشانند.

بهران به سرعت در مسیر شکوفایی و پیشرفت گام نهاد؛ افزایش خطوط تولید قطعات آسانسور و در نتیجه، نیاز به گسترش این واحد تولیدی، سبب شد تا بهران، کارخانه‌ی ای را به وسعت ۱۱۰۰۰ مترمربع در شهرک صنعتی پرند احداث و تولیدات خود را به این کارخانه منتقل نماید. و اینک؛ پس از گذشت بیش از سی سال تلاش و پویایی، کارخانجات گروه صنعتی بهران (سهامی خاص) به مساحت بالغ بر ۱۱۰۰۰۰ مترمربع و بیش از ۱۰۰۰ نفر نیروی انسانی فعال، تحت نظارت و مدیریت جناب آقای محمود شاکری مدیریت محترم عامل و جناب آقای احمد شاکری ریاست هیأت مدیره و برادران، که از متخصصان و اثرگذاران این حوزه به شمار می‌روند، پیشرو در عرصه‌ی صنعت آسانسور و پله برقی ایران در زمینه‌ی تولید قطعات و پکیج‌های آسانسور و پله برقی و هم‌تراز با برترین شرکت‌های اروپایی، با داشتن شعبات و نمایندگی‌های فعال در سراسر ایران پاسخگوی نیاز بازارهای داخلی و بین‌المللی می‌باشد.

### Behran Tarihi

Behran, 1989 yılında 40 metrelik küçük bir asansör parçalarını tornalama ve tamir atölyesinden başlamış ve 4 yıl sonra, 1993 yılında Tahran, Hashemi Caddesi'nde 100 metrekarelik daha büyük bir atölye açmıştır.

Şakeri kardeşler, 1997 yılında Tahran'da Shad Abad Caddesi'nde 250 metrekarelik daha büyük bir atölyede faaliyetlerinin genişlemesi ve bu alandaki bilgi ve deneyimlerinin artmasıyla faaliyetlerini giderek genişletti.

. Son olarak 4 yıl sonra, günün 24 saati gayretle, Karaj'ın eski yolu üzerinde bulunan 1200 metrekarelik bir atölyeyi taksitli olarak satın alarak şanzıman motor ve asansör parçaları üretme fikrini hayata geçirdiler.

Behran hızla refah ve ilerleme yoluna ayak bastı; Asansör parçalarının üretim hatlarının artması ve bunun sonucunda bu üretim biriminin genişletilmesi ihtiyacı Behran'ın Parand Sanayi Kasabasında 11.000 metrekare alana sahip bir fabrika kurmasına ve ürünlerini bu fabrikaya aktarmasına neden oldu.

Ve şimdi, Behran Industrial Group'un (Özel Anonim Şirket) 110.000 metrekare alana ve 1000'den fazla aktif insan gücüne sahip fabrikalarının otuz yılı aşkın çaba ve dinamizminin ardından, CEO'su Mahmoud Shakeri ve Mr. Ahmad'ın gözetim ve yönetimi altında Shakeri'nin yönetim kurulu başkanı ve bu alanda uzman ve influencer olan kardeşler, İran'da asansör ve yürüyen merdiven parçaları ve paketlerinin üretim alanında İran'da asansör ve yürüyen merdiven endüstrisi alanında lider ve önde gelen Avrupalı firmalara eşit, İran genelinde aktif şubeleri ve acenteleri ile iç ve dış pazarların ihtiyaçlarını karşılamaktadır.

### History of Behran

Behran started its activity in 1989 from a small workshop of 40 square meters turning and repairing elevator parts, and after 4 years, in 1993, it dedicated a larger workshop with an area of 100 square meters in Hashemi Street, Tehran.

Shakeri brothers gradually expanded their activities in a larger workshop with an area of 250 square meters on Shad Abad Street in Tehran in 1997, with the expansion of their activities and the increase of knowledge and experience in this field.

Finally, after 4 years, with the efforts of 24 hours a day, they were able to buy a 1200 square meter workshop located in the old road of Karaj in installments and put their idea of producing gearbox motor and elevator parts into practice. Behran quickly set foot on the path of prosperity and progress; The increase in the production lines of elevator parts and, as a result, the need to expand this production unit, caused Behran to build a factory with an area of 11,000 square meters in Parand Industrial Town and transfer its products to this factory.

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 110,000 square meters and more than 1200 active manpower, under the supervision and management of Mr. Mahmoud Shakeri, CEO, Mr. Ahmad Shakeri as the chairman of the board 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.

30 Years of Continuous Strive for Excellence  
 ۳۰ سال تلاش مستمر برای رسیدن به تعالی  
 30 Yıllık Kesintisiz Mükemmellik için Çabalar

افتتاح اولین برج تست آسانسور  
 ۳ متر در ثانیه در خاور میانه  
 Opening of first 3m/s  
 elevator test tower in Middle East

2019

افتتاح خط تولید موتور گیربکس  
 Gearbox motor Production Line Opening

2005

افتتاح خط تولید پله برقی  
 Escalator Production Line Opening

2017

تاسیس شرکت بهران آسانبر  
 Behran Asanbar Co. Established

1990

Updated Statistic  
 Until Today

آمار بروز  
 تا به امروز

Components Manufactured 78  
 National Projects Completed 42  
 International offices 5  
 Branches and Representatives 20  
 Customers Served 10,421

محصولات تولیدی بهران  
 پروژه های ملی انجام شده  
 دفاتر بین المللی  
 نمایندگی ها و شعب  
 همکاران و مشتریان بهران



افتتاح خط تولید ریل آسانسور  
(کارخانه در حال ساخت)

**New Guide Rail Production Line**  
(factory under construction)

**2021**

افتتاح خط تولید موتور گیرلس  
**Gearless Motor Production Line Opening**

توسعه خط تولید پله برقی  
**Escalator Production Expansion Line**

**2020**



Switzerland



Germany



Italy



Turkey



Spain



China



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- High Technology
- Smooth Comfortable Ride
- Space Saving
- Quiet Performance
- Outstanding Safety
- 2 Year Warranty
- yüksek teknoloji
- Pürüzsüz ve rahat hareket
- Yer aç
- Düşük performans
- Üstün güvenlik
- İki yıl garanti
- فناوری پیشرفته
- حرکت نرم و راحت
- صرفه جویی در فضا
- عملکرد با صدای پایین
- امنیت برجسته
- سه سال گارانتی

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

**Verimli dişli kutusu ve dişlisiz motorlarla düşük ve orta yükseklik çözümleri**

**راه حل های نوآرانه کوتاه مرتبه و میان مرتبه با ماشین های کشش فوق کارآمد گیرلس و گیربوکس دار**



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

**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, bina sahiplerinin yanı sıra kullanıcılara da fayda sağlayan mükemmel asansörlere ve yürüyen merdivenlere yol açar.**

آسانسورهای بهران با محیطهای اداری و مسکونی پر تردد سازگار بوده و خواسته های شما مبنی بر انعطاف پذیری فضا، طراحی و کارایی را برآورده می کنند. فناوری آزمایش شده بهران منجر به تولید آسانسورها و پله برقی های فوق العاده ای شده است. امری که موجب رضایت ساکنان و منفعت مالکان ساختمان ها شده است.



## 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.

## Hizmet sunumunda yeni standartlar oluşturun

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.

## پایه گذاری استانداردهای نوین در ارائه خدمات

مجموعه بهران برای رسیدن به استانداردهای جدید در تعالی، از راه حل های نوآورانه، شامل سیستم های نوین مدیریت در تحقیقات، تولید، کنترل کیفیت، فروش و خدمات پس از فروش استفاده می کند.

## کیفیت در مقابل قیمت

علاوه بر کیفیت، مشتریان به طور طبیعی انتظار محصولی مقرون به صرفه را دارند. به کارگیری مکانیزم‌های فنی و اقتصادی بهینه باعث افزایش کیفیت محصول و در نتیجه قیمت تمام شده پایین، در درازمدت می‌شود. بر این اساس، کیفیت محصولات، باعث ایجاد جذابیت و محبوبیت برند بهران در بین مشتریان گردیده است.

### 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.



# SAFETY

## Emniyet

### ایمنی



#### 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.

#### ایمنی

متخصصین بهران توانسته اند با به کارگیری پیشرفته ترین نرم افزارها و فن آوری های روز دنیا ، محصولات را طراحی و تولید کنند که توانسته است گواهی نامه EN81 (آسانسور) و EN115 (پله برقی) و نیز گواهی نامه CE را در برترین آزمایشگاه های اروپا ، اخذ کنند .  
شایان ذکر است که کلیه ی محصولات تولیدی بهران ، در آزمایشگاه های این شرکت که دارای گواهی نامه ISO 17025 می باشد ، کنترل و تایید می گردد .



### 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.

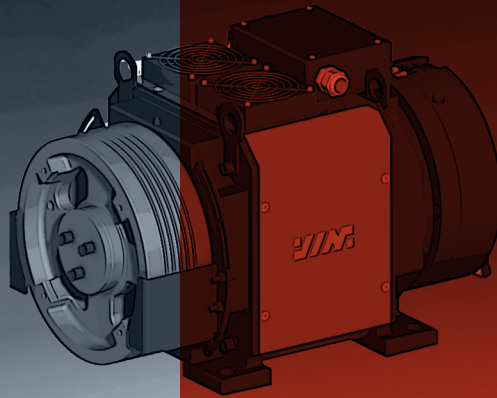
### تضمین ایمنی محصولات

آسانسورها و پله‌برقی‌های بهران با رعایت نکات ایمنی و استفاده از فناوری روز دنیا تولید می‌شوند. بهران این تضمین را می‌دهد که تمام محصولات، الزامات استانداردهای ملی و اروپایی را رعایت می‌کنند و ضمن برخورداری از قیمت اقتصادی، برای طول عمر بالا، طراحی و ساخته شده‌اند و در عین حال، کاملاً قابل اطمینان هستند.

# STRONG R&D TEAM

# GÜÇLÜ AR-GE EKİBİ

# تیم قوی تحقیق و توسعه



## 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 production. Use 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

## Araştırma ve Geliştirme

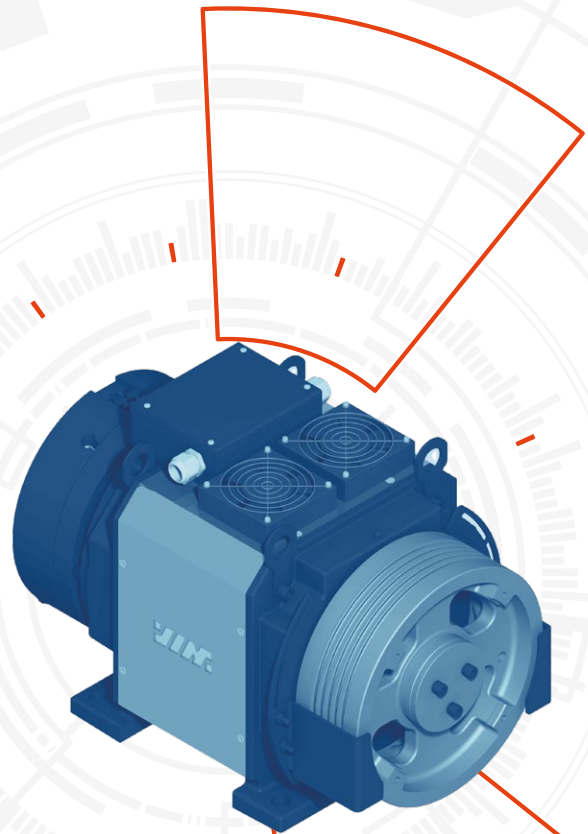
Behran, üretim için gerekli bilgiyi uygulamak için yetkili bilimsel kaynakları, çeşitli uzmanların makalelerini, dünyanın en iyi teknolojilerini, uzman personel, gelişmiş araçlar ve yazılımlar ile son teknoloji laboratuvarları kullanarak teknolojik bilgisini genişletmiştir. Yeni ürünleri kullanın. Bu 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.

## تحقیق و توسعه

بهران با بهره گیری از منابع معتبر علمی، مقالات متخصصین مختلف، تکنولوژی های برتر دنیا، به کارگیری نیروهای متخصص، ابزار و نرم افزارهای پیشرفته و نیز آزمایشگاه فوق پیشرفته، دانش تکنولوژیکی خود را گسترش داده تا در راستای به کارگیری دانش مورد نیاز، جهت تولید محصولات جدید استفاده نماید.

از این رو تحقیق و پژوهش واحد فن آوری و توسعه ی بهران جهت ارتقاء روزافزون محصولات، جایگاه ویژه ای را به خود اختصاص داده است.

براین اساس بهران پیشرو در صنعت ایران و هم گام با بهترین برندهای بین المللی گام برمی دارد.





### 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.

در این راستا ، بهران جهت افزایش کیفی محصولات با سرمایه گذاری مداوم در به روز نگه داشتن فناوری خطوط تولید ، با بهره گیری از تکنولوژی نوین و استفاده از سیستم های رباتیک ، به حفظ یکپارچگی کیفی محصولات خود اقدام نموده است.

### تولید با فناوری نوین

علاوه بر استفاده از نیروی متخصص ، دانش روز دنیا و ماشین آلات پیشرفته ، که نقش به سزایی را در فرآیند تولید ایفا می کنند ، به کارگیری فناوری تولید نیز نقش تعیین کننده ای در کیفیت محصولات بهران دارد .

**HIGH TECH. MANUFACTURING**

**Yüksek teknoloji ile üretim**

**تولید با فناوری پیشرفته**

## 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.

### ارائه مشاوره فنی و تخصصی به مشتریان

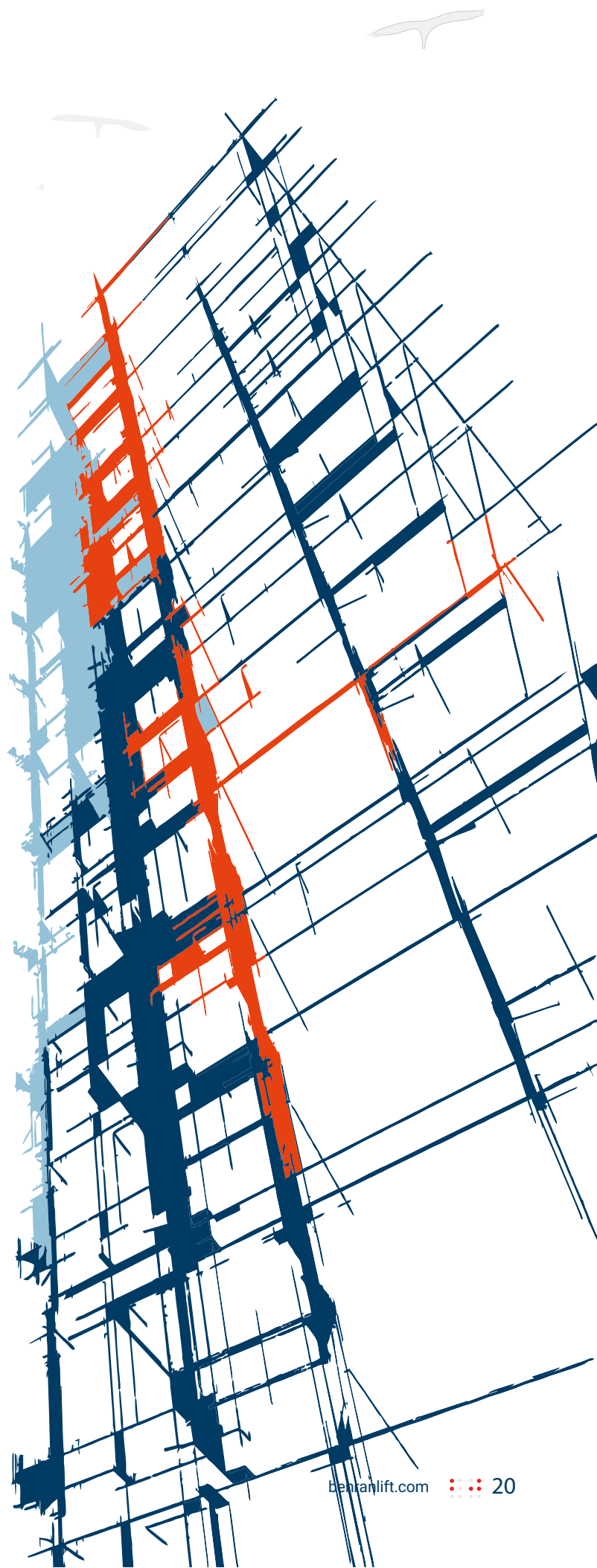
آسانسور و پله برقی به عنوان یک سازه ی صنعتی، با توجه به نوع کاربری و نیز الزامات کاربر، دارای ویژگی های منحصر به فرد می باشد که باید به لحاظ فنی و زیبایی شناختی محیطی، منطبق بر اصول خاصی طراحی گردد. بر این اساس است که کارشناسان فنی بهران با در نظر گرفتن پارامترهای محیطی مانند بسته یا باز بودن فضا و پارامترهای کاربردی مانند حجم تردد و نوع کاربری، با افتخار بر اصل مشتری مداری، اقدام به ارائه ی مشاوره های تخصصی و فنی می نمایند تا علاوه بر در نظر داشتن صرفه ی اقتصادی، برای مشتریان بهترین گزینه را جهت پاسخگویی به نیازشان انتخاب کنند.



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

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.

اعتقاد ما بر این اصل استوار است که فروش ، آغاز یک تعهد و خدمات پس از فروش ، وظیفه ای انکار ناشدنی است. با توجه به اینکه ارائه خدمات مؤثر در پشتیبانی ، مستلزم داشتن امکانات لازم می باشد ، بهران ، این امکان را فراهم آورده و با تکیه بر اصل مشتری مداری ، علاوه بر اینکه کلیه قطعات و پکیج های آسانسور و پله برقی تولیدی خود را گارانتی نموده ، با ارائه خدمات پس از فروش ، به مدت ۱۰ سال ، عملکرد مفید آنها را نیز تضمین نماید.





Cabin Decorations  
LUXURY

Kabin Dekorasyonlar  
LÜKS

تزیینات کابین  
لوکس





- CEILING** CS-08 (STS Ion Gold Hairline + LED)
- CAR DOOR** STS Ion Gold Hairline + Laser Marking (LM-T2)
- FRONT WALL** STS Ion Gold Hairline + CI-13X + COP-03N (STS Gold Plate)
- SIDE WALL** STS Ion Gold Hairline + Laser Marking (LM-T2)
- REAR WALL** STS Ion Gold Hairline + Laser Marking (LM-T2)
- HANDRAIL** HR-01 (STS Gold Polishing Pipe)
- FLOOR** Marble (by Local)



Laser Marking (LM-T2)

The print color can be different from the actual object.



- CEILING** Option Type (STS Ion Bronze Mirror + Acrylic Printing + LED + LED Halogen)
- CAR DOOR** STS Ion Bronze 3S Vibration
- FRONT WALL** STS Ion Bronze 3S Vibration + CI-SW + COP-03D (STS Bronze Plate)
- SIDE WALL** STS Ion Bronze Mirror + Marble + Wood + LED Light
- REAR WALL** STS Ion Bronze Mirror + Marble + Wood + LED Light
- HANDRAIL** HR-01 (STS Ion Bronze Polishing Pipe)
- FLOOR** Marble (by Local)



Wood

The print color can be different from the actual object.







Cabin Decorations  
Premium

Kabin Dekorasyonlar  
Ödün

تزئینات کابین  
پریمیوم





- CEILING** CS-S3 (STS Mirror + LED + Steel painted black)
- CAR DOOR** STS Mirror
- FRONT WALL** STS Champagne gold hairline + Ci-SW + COP-02D (Champagne gold hairline)
- SIDE WALL** STS Champagne gold hairline + STS Mirror
- REAR WALL** STS Champagne gold hairline + Rigid metal + Logo Laser marking + Wall LED
- HANDRAIL** HR-01 (STS gold hairline)
- FLOOR** Marble (by Local) Rigid metal (Champagne gold)

The print color can be different from the actual object.

- CEILING** CS-S2 (HEIGHT:50mm, STS Polishing Mirror + Acrylic Lighting Case (Black Color) + LED / Black Painted Steel)
- CAR DOOR** STS Mirror
- FRONT WALL** STS Mirror + Ci-13X + COP-02D
- SIDE WALL** STS Mirror + PCM Panel (Light Wood Pattern) + COP-02H
- REAR WALL** STS Mirror + PCM Panel (Light Wood Pattern)
- HANDRAIL** HR-01 (STS Polishing Pipe)
- FLOOR** Deco tile (DM-10) PCM Panel (Light Wood)

The print color can be different from the actual object.



- CEILING** CS-S2 (HEIGHT:50mm, STS Polishing Mirror + Acrylic Lighting Case (Black Color) + LED / Black Painted Steel)
- CAR DOOR** PCM Panel (Wood)
- FRONT WALL** PCM (Bronze Hairline) + COP-02D
- SIDE WALL** PCM (Bronze Hairline) + PCM Panel (Wood)
- REAR WALL** PCM (Bronze Hairline) + PCM Panel (Wood) + STS Mirror (Customized Logo Laser Marking)
- HANDRAIL** HR-04 (Wood)
- FLOOR** Deco tile (DM-07) PCM Panel (Wood)

The print color can be different from the actual object.

- CEILING** CS-L3 ( STS Polishing Mirror + LED + LED Halogen)
- CAR DOOR** STS Mirror + Laser Marking (LM-04)
- FRONT WALL** VCM Panel (Vib Pattern) + STS Mirror (Transom) + COP-02D
- SIDE WALL** VCM Panel (Vib Pattern) + Printing Glass
- REAR WALL** VCM Panel (Vib Pattern) + Printing Glass
- HANDRAIL** HR-01 (STS Polishing Pipe)
- FLOOR** Deco tile (DM-08) Printing Glass

The print color can be different from the actual object.



- CEILING** CS-S3 (HEIGHT:70mm, PCM (Saplano) + STS Polishing Mirror + LED / Black Painted Steel)
- CAR DOOR** PCM Panel (Saplano)
- FRONT WALL** STS Hairline + CI-SB + COP-02D
- SIDE WALL** STS Hairline + PCM Panel (Saplano)
- REAR WALL** STS Mirror + PCM Panel (Saplano) + Wall LED
- HANDRAIL** HR-01 (STS Polishing Pipe)
- FLOOR** Deco tile (DM-06)



The print color can be different from the actual object.

- CEILING** Option Type (STS Inco Black Mirror + LED + LED Halogen + Steel Painted (White))
- CAR DOOR** STS Inco Black Hairline + Laser Marking (Pattern)
- FRONT WALL** STS Inco Black Hairline + CI-SB + COP-02D (STS TI Black Hairline)
- SIDE WALL** Wood + STS Gold Trim + STS Mirror
- REAR WALL** Wood + STS Gold Trim + STS Mirror
- HANDRAIL** HR-01 (STS Ion Gold Polishing Pipe)
- FLOOR** Marble (by Local)



The print color can be different from the actual object.

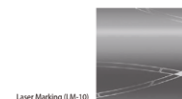


- CEILING** Non Standard (STS 3S Vibration + Acrylic)
- CAR DOOR** STS 3S Vibration
- FRONT WALL** STS Mirror + CI-SB + COP-02D + STS 3S Vibration (Transom)
- SIDE WALL** STS Mirror + STS 3S Vibration Mirror Etching + Marble
- REAR WALL** STS Mirror + STS 3S Vibration Mirror Etching + Marble
- HANDRAIL** Non Standard (Wood + LED light)
- FLOOR** Marble (by Local)



The print color can be different from the actual object.

- CEILING** CS-235 (STS Polishing Mirror + Polycarbonate + LED + LED RGB Color Conversion)
- CAR DOOR** STS Mirror + Laser Marking (LM-10)
- FRONT WALL** STS Mirror + COP-02D
- SIDE WALL** STS Mirror + Laser Marking (LM-10)
- REAR WALL** STS Mirror + Laser Marking (LM-10)
- HANDRAIL** HR-01 (STS Polishing Pipe)
- FLOOR** Deco tile (DM-06)



The print color can be different from the actual object.



Cabin Decorations  
Deluxe

Kabin Dekorasyonlar  
Deluxe

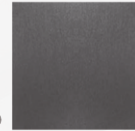
تزیینات کابین  
دلوکس





<b>CEILING</b>	CS-S1 (HEIGHT:70mm, STS Polishing Mirror + STS Hairline + LED / Black Painted Steel)
<b>CAR DOOR</b>	PCM (Deep Grey)
<b>FRONT WALL</b>	PCM (Deep Grey) + CI-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>	HR-01 (STS Polishing Pipe)
<b>FLOOR</b>	Deco tile (DT-17)

PCM (Deep Grey)



The print color can be different from the actual object.



<b>CEILING</b>	CS-S1 (HEIGHT:70mm, STS Polishing Mirror + STS Hairline + LED / Black Painted Steel)
<b>CAR DOOR</b>	PCM (Deep Grey)
<b>FRONT WALL</b>	PCM (Deep Grey) + CI-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>	HR-01 (STS Polishing Pipe)
<b>FLOOR</b>	Deco tile (DT-17)

PCM (Deep Grey)



The print color can be different from the actual object.







Cabin Decorations  
Panorama

Kabin Dekorasyonlar  
Panorama

تزیینات کابین  
پانوراما





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 + CI-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>	HR-01 (STS Gold Polishing Pipe)
<b>FLOOR</b>	Marble (by Local)





Laser Marking (LM-01)

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<b>CEILING</b>	CS-04 (STS Hairline + Acrylic + LED)
<b>CAR DOOR</b>	STS Mirror + Laser Marking (LM-01)
<b>FRONT WALL</b>	STS Mirror + COP-02D
<b>SIDE WALL</b>	STS Mirror + Laser Marking (LM-01) + Glass
<b>REAR WALL</b>	STS Mirror + Glass
<b>HANDRAIL</b>	HR-01 (STS Polishing Pipe)
<b>FLOOR</b>	Deco tile (DM-02)

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■ GS-G01



■ GS-G04



■ GS-G02



■ GS-G05



■ GS-G03



■ GS-G07





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



EP700



EP800



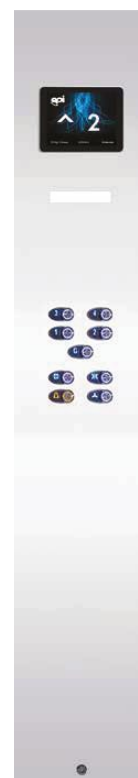
EP900



EP2300



EP1500



EP2000



EP1300



EP715  
Dublex



EP135  
Dublex



Classic  
Dublex



EP145  
Dublex



EP7005  
Dublex



EP7005



EP715



EP135



EP145



EP920  
LCD



EP920  
7Segment



EP995



EP1310



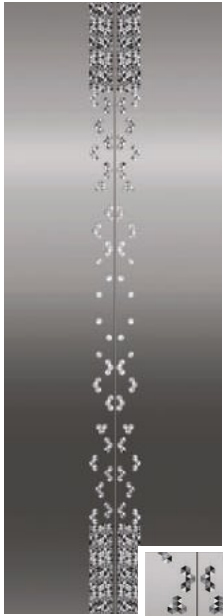
EP970



EP1550



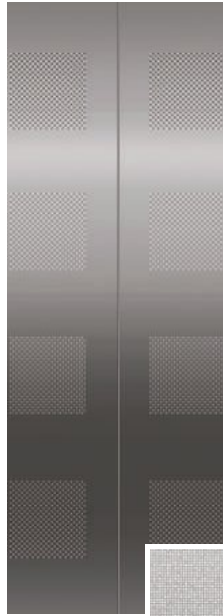
## LASER MARKING



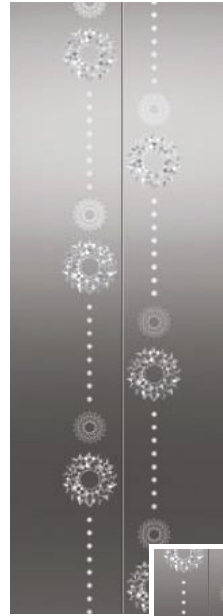
LM-01



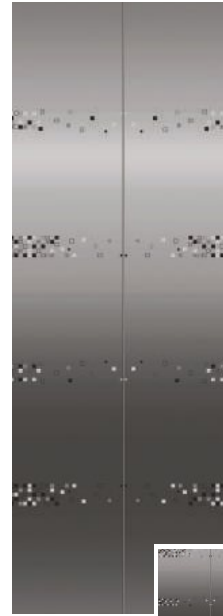
LM-03



LM-04



LM-05



LM-07

## PCM



PCM  
[Wood]



PCM  
[Sapiano]



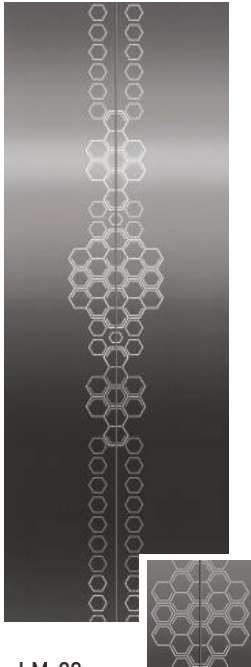
PCM  
[Light wood]



PCM  
[Bronze Hairline]



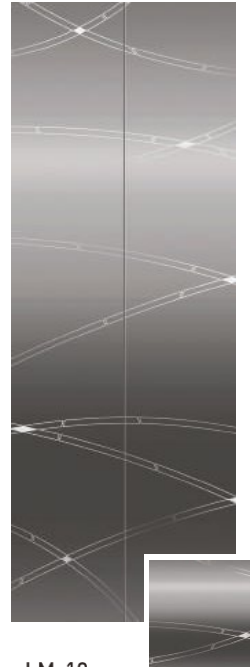
PCM  
[Dark Grey]



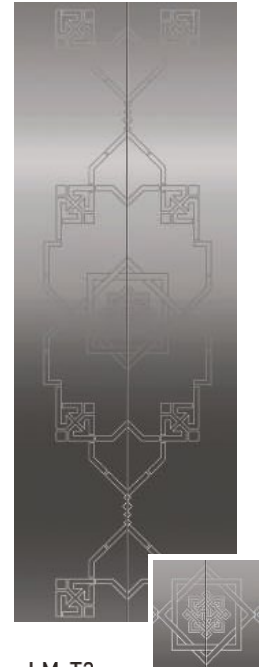
▪ LM-08



▪ LM-09



▪ LM-10



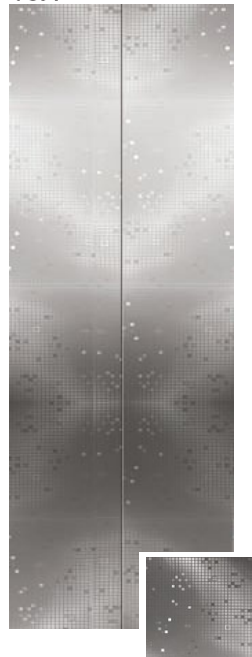
▪ LM-T2

## FABRIC METAL



▪ Fabric metal (Deep Grey)

## VCM

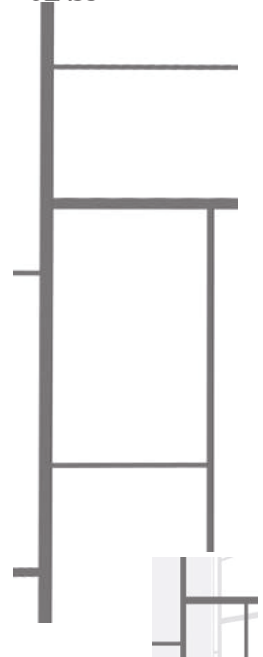


▪ VCM (Cubic)



▪ VCM (Vib)

## GLASS



▪ Printing Glass (White,gray)



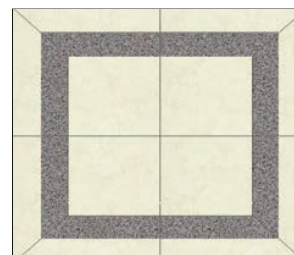
DM-01



DM-02



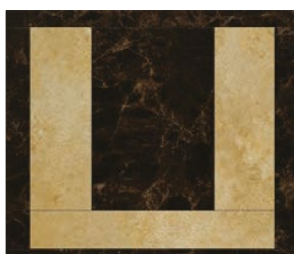
DM-03



DM-04



DM-05



DM-07



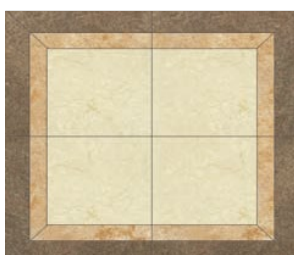
DM-08



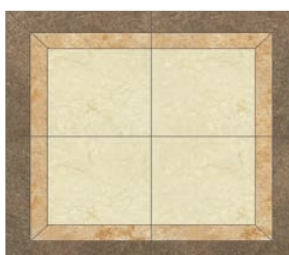
DT-07



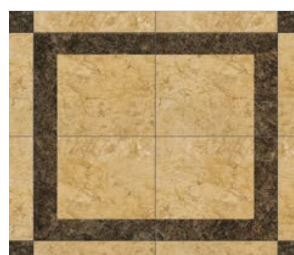
DT-09



DT-10



DT-10



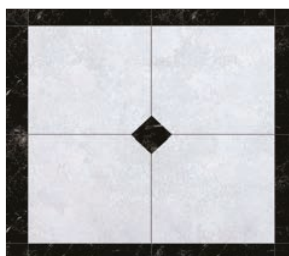
DT-13



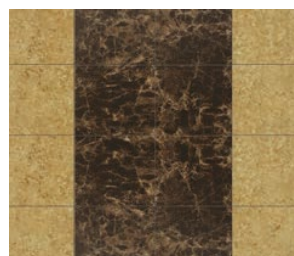
DT-15



DT-16



DT-17



DT-18



CS - 05



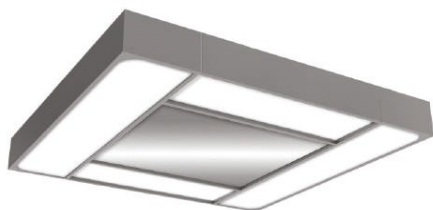
CS - 06



CS - 07



CS - 08



CS - 21



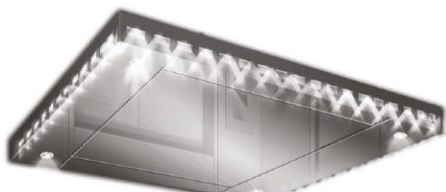
CS - 235  
(RGB Color LED)



CS - 92



CS - L2



CS - L3



CS - S1  
(Slim Type : 70mm)



CS - S2  
(Slim Type : 50mm)



CS - S3  
(Slim Type : 70mm)

# Machine Room (MR) Lifts

Behran offers a suitable solution for using elevators in projects that can not provide sufficient and suitable space to build an engine 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 sağlayamayan projelerde asansör kullanımına uygun bir çözüm sunar. Konut ve ticari projelerde kullanılabilen düşük, orta, yüksek kapasiteli ve farklı hızlara sahip asansörler.

بهران راه حل مناسبی، جهت استفاده از آسانسور در پروژه هایی که امکان تأمین فضای کافی و مناسب جهت ایجاد موتورخانه را ندارند، ارائه می دهد. آسانسورهایی با ظرفیت های پایین، متوسط، بالا و سرعت های مختلف که قابل استفاده در پروژه های مسکونی و تجاری می باشند.

## Behran MR Series Machine Room Complete System

Rated Load	Kg	320	450	630	800	1,000	1,275	1,600
Number of persons		4	6	8	10	13	17	21
Rated Speed	m/s	up to 1.6 m/s						
Machine Room		above the shaft						
Door Type		Telescopic, Central, Right, Left						
Nr. of Car Entrances		1 Entrance or 2 Entrances						
Door Clear Opening		800 / 900 / 1000						
Door Clear Height		2000 / 2100						
Max Nr. of Stops		25						
Max. Travel	cm	8000						
Max. Headroom	cm	350						
Max Pit Depth	cm	140						

### Motor Options



### Door Options



# Machine Room Less (MRL) lifts

Behran offers a suitable solution for using elevators in projects that can not provide sufficient and suitable space to build an engine 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 sağlayabilecek projelerde asansör kullanımına uygun bir çözüm sunar. Konut ve ticari projelerde kullanılabilen düşük, orta, yüksek kapasiteli ve farklı hızlara sahip asansörler.

بهران راه حل مناسبی، جهت استفاده از آسانسور در پروژه هایی که امکان تأمین فضای کافی و مناسب جهت ایجاد موتورخانه را ندارند، ارائه می دهد. آسانسورهایی با ظرفیت های پایین، متوسط، بالا و سرعت های مختلف که قابل استفاده در پروژه های مسکونی و تجاری می باشند.

## Behran MRL Series Machine Room-Less Complete System

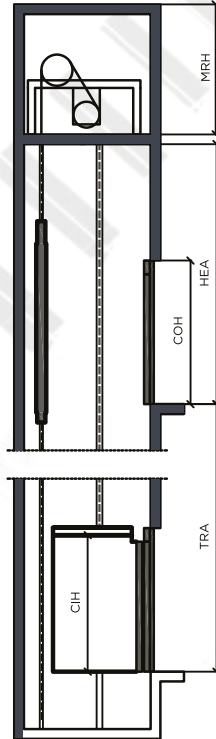
Rated Load	Kg	320	450	630	800	1,000	1,275	1,600
Number of persons		4	6	8	10	13	17	21
Rated Speed	m/s	up to 3.0 m/s						
Machine Room		without						
Door Type		Telescopic, Central, Right, Left						
Nr. of Car Entrances		1 Entrance or 2 Entrances						
Door Clear Opening		800 / 900 / 1000						
Door Clear Height		2000 / 2100						
Max Nr. of Stops		25						
Max. Travel	cm	8000						
Max. Headroom	cm	3650						
Max Pit Depth	cm	100						

### Motor Options

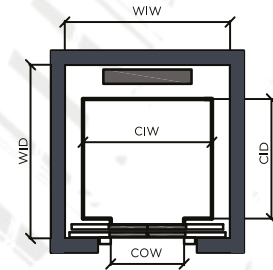


### Door Options

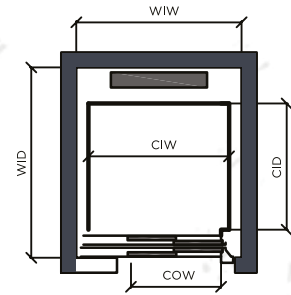




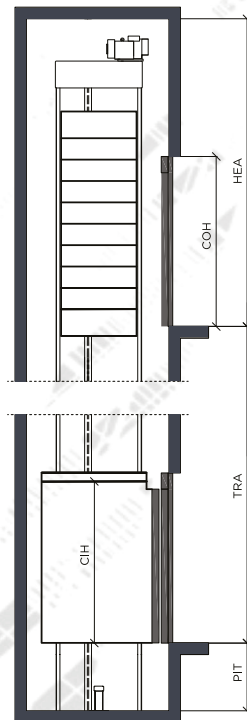
**Central**



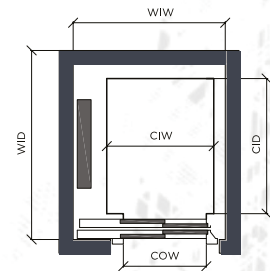
**Telescopic**



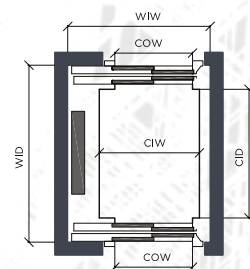
**Behran MR2 General Dimensions**



**Single Entrance**

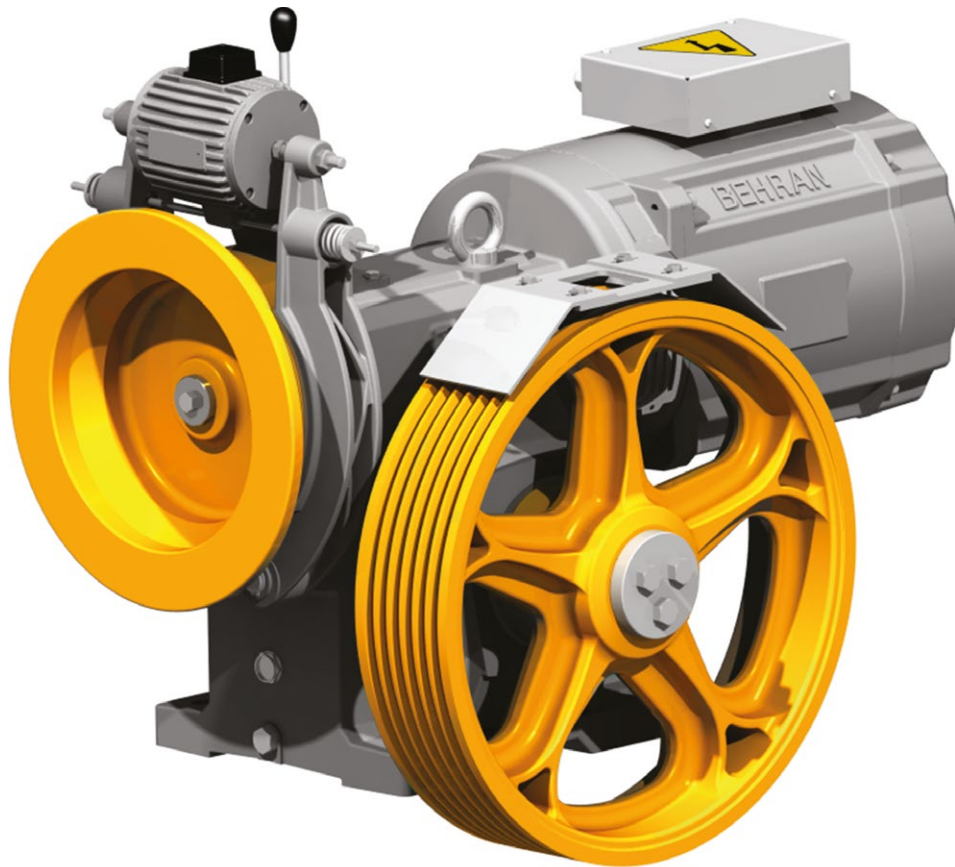


**Double Entrance**



**Behran MRL2 General Dimensions**

**Elevator Gearbox Motors**  
asansör şanzıman motoru  
موتور گیربکس های آسانسور







**Worm Shaft & Gear**



5 Micron Ultra-Precision  
CNC Machining

**Shaft**



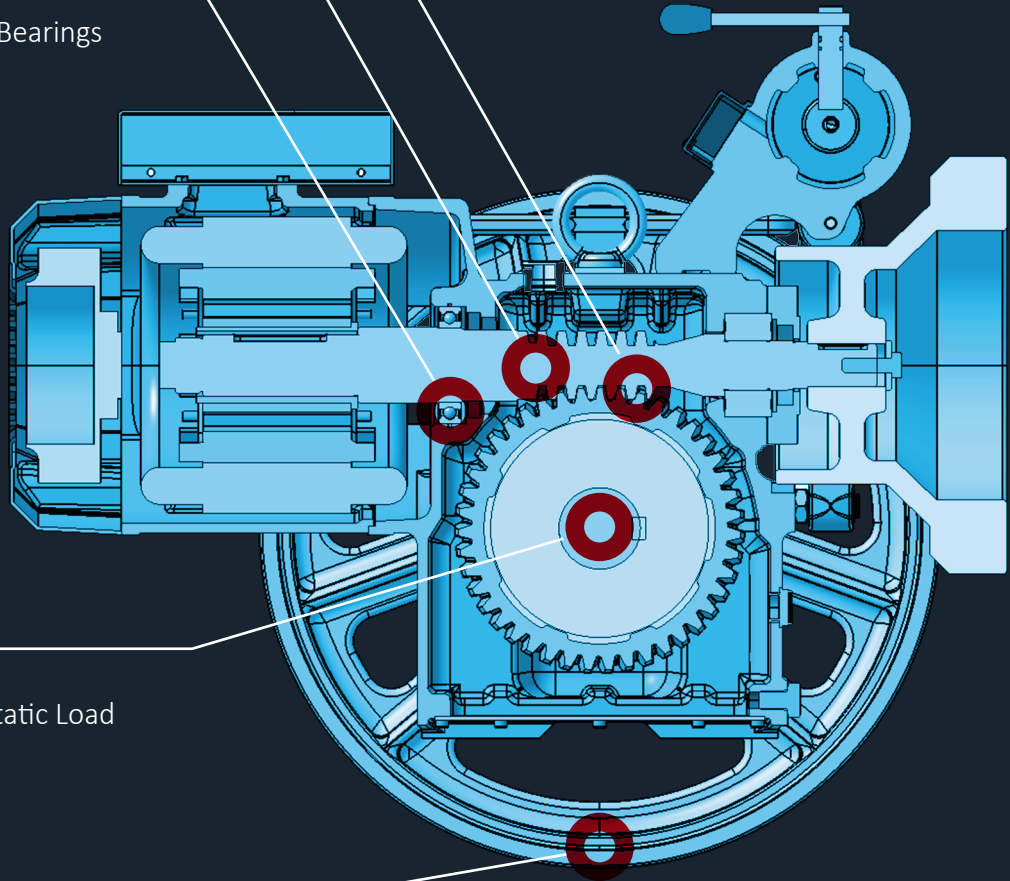
Hardened Worm Shaft

**Bearings**



Heavy Duty Bearings  
High Grade

BL 240 Series  
BL 260 Series  
BL 280 Series



**Super Strength**



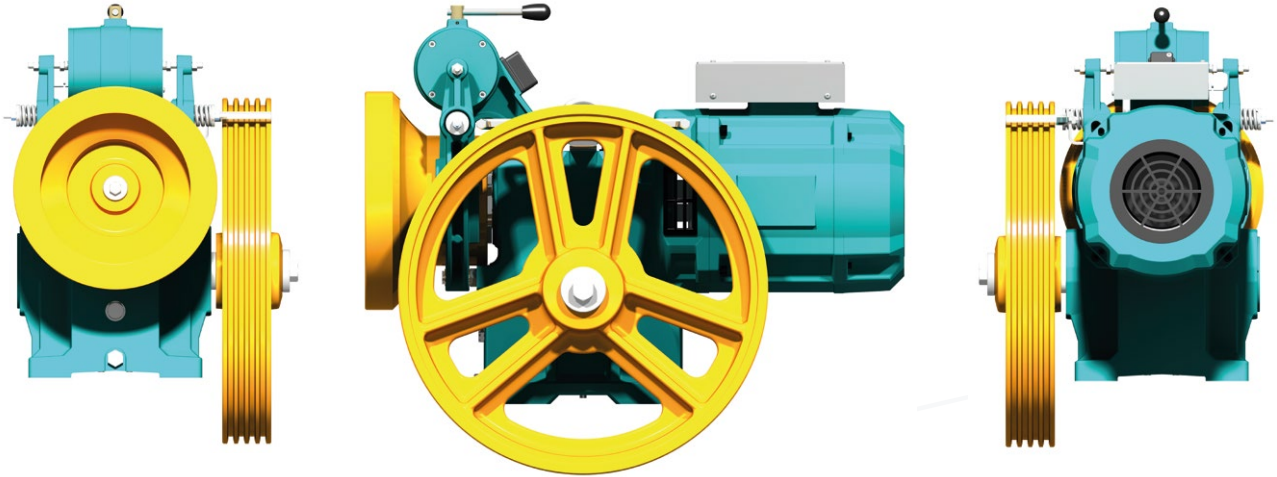
Ultra High Static Load

**Motor Pulley**

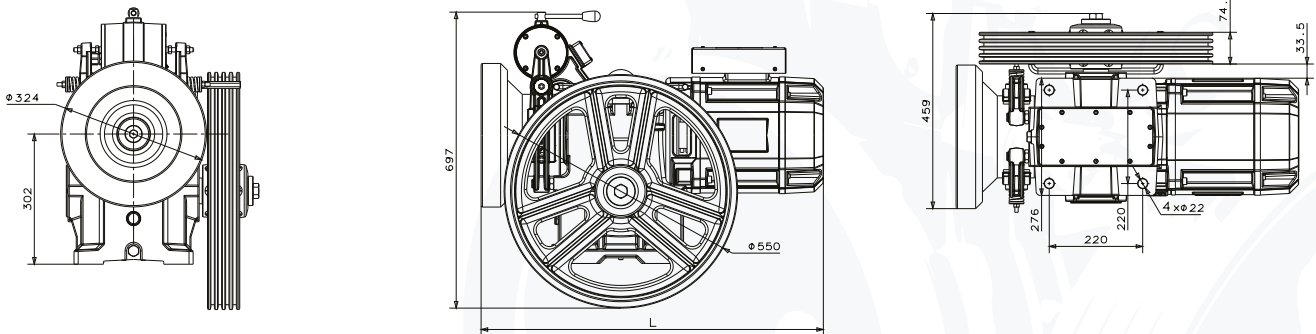


Special Impact/Wear/Fatigue-Resistant  
Graphite-Rich Ductile Cast Iron





### Dimensions

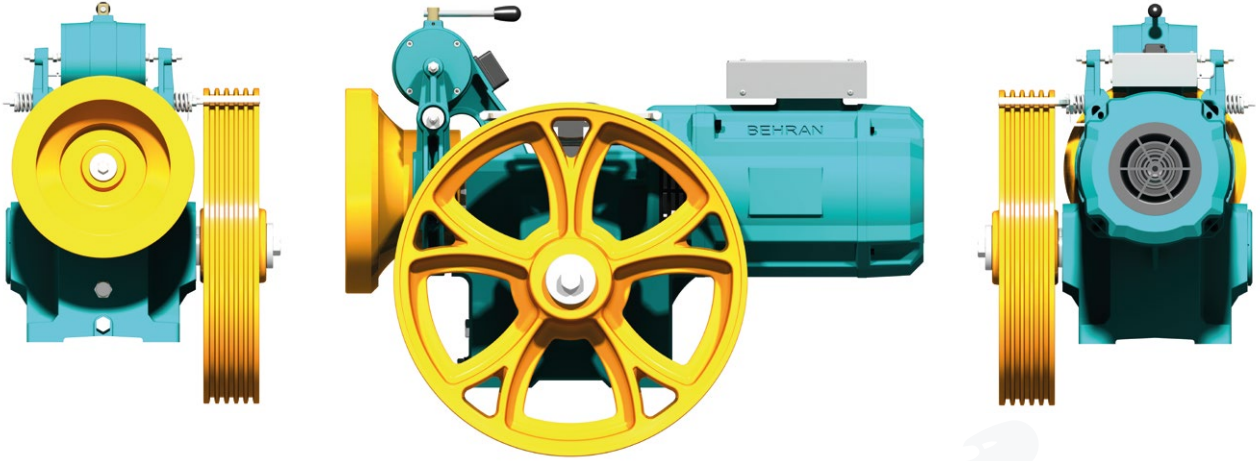


### BL 240 Series

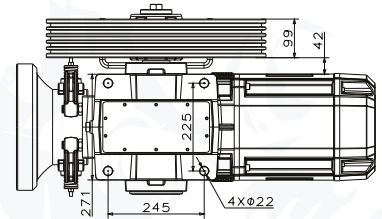
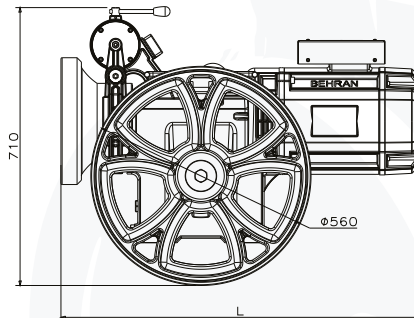
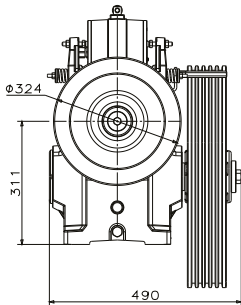
Type	Order No.	Motor Type	MOTOR SPECIFICATION														GEARBOX SPECIFICATION													
			Power (Kw)		Speed (rpm)				Current				Freq. (Hz)	Voltage (V)	Max/Normal Torque (N.m)	Poles Qty.	ED%	Max. Start Per Hour	Load (Kg)	Max. Speed (m/s)	Max. Static Load (Kg)	Traction Sheave Dia. (mm)	Undercut Angle (°)	Groove Angle (°)	Rope Dia. (mm)	Rope Qty.	GearBox Ratio	Efficiency		
			low	high	low	high	low	high	low	high	low	high																MOTOR Efficiency (%)	GEARBOX Efficiency (%)	Length (L)
BL240	BE014155A110	AC2	5.5	300	1470	7.5	13.9	13	44.6	0.55	0.75	50	380	90/38.5	4/16	40	180	450	1	2700	550	35	103	10	4	1/43	75	80	806	
	BE014161A110	AC2	6.1	310	1470	8.5	15	11.9	47.5	0.55	0.75	50	380	100/43	4/16	40	180	500	1	2700	550	35	103	10	4	1/43	75	80	806	
	BE014155V110	VVVF	5.5		1470			10.8		68		0.81	50	380	78/36	4	40	240	450	1	2700	550	35	103	10	4	1/43	76	80	774
	BE014161V110	VVVF	6.1		1470			12.2		74		0.81	50	380	87/40	4	40	240	500	1	2700	550	35	103	10	4	1/43	76	80	774



- Quiet Operation
- Heavy-Duty construction
- Extreme Reliability



### Dimensions



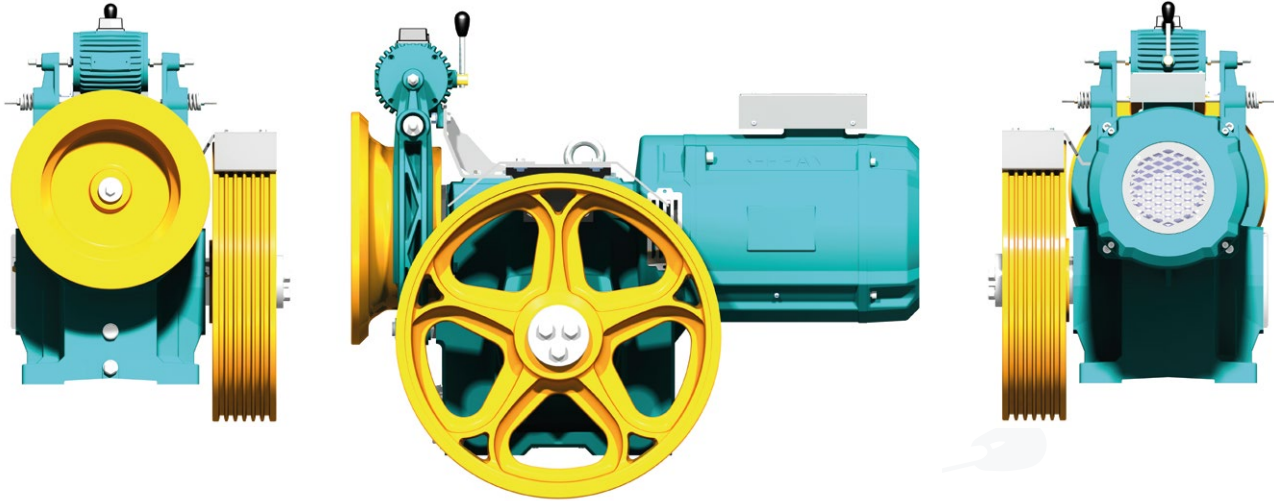
### BL 260 Series

Type	Order No.	Motor Type	MOTOR SPECIFICATION																GEARBOX SPECIFICATION													
			Power (Kw)	Speed (rpm)		Current						Freq. (Hz)	Voltage (V)	Max/Normal Torque (N.m)	Poles Qty.	ED%	Max. Start Per Hour	Load (Kg)	Max. Speed (m/s)	Max. Static Load (Kg)	Traction Sheave Dia. (mm)	Undercut Angle (°)	Groove Angle (°)	Rope Dia. (mm)	Rope Qty.	GearBox Ratio	Efficiency		Length (L)			
						low	high	low	high	low	high																low	high		Cosφ	MOTOR Efficiency (ηm)	GEARBOX Efficiency (ηg)
BL260	BE016173A210	AC2	7.3	310	1470	11	18.5	16	64	0.55	0.8	50	380	120/51	4/16	40	180	630	1	3100	560	35	103	10	5	1/44	78	80	922			
	BE016173V210	VVVF	7.3	1470		15	95		0.82	50	380	104/50	4	40	240	630	1	3100	560	35	103	10	5	1/44	80	80	816					
	BE016173V316	VVVF	7.3	1470		15	95		0.82	50	380	104/50	4	40	240	450	1.6	3100	560	35	103	10	5	2/53	80	89	872					
	BE016192V316	VVVF	9.2	1470		17.6	90		0.86	50	380	101/61	4	40	240	630	1.6	3100	560	35	97	11	5	2/53	81	89	872					

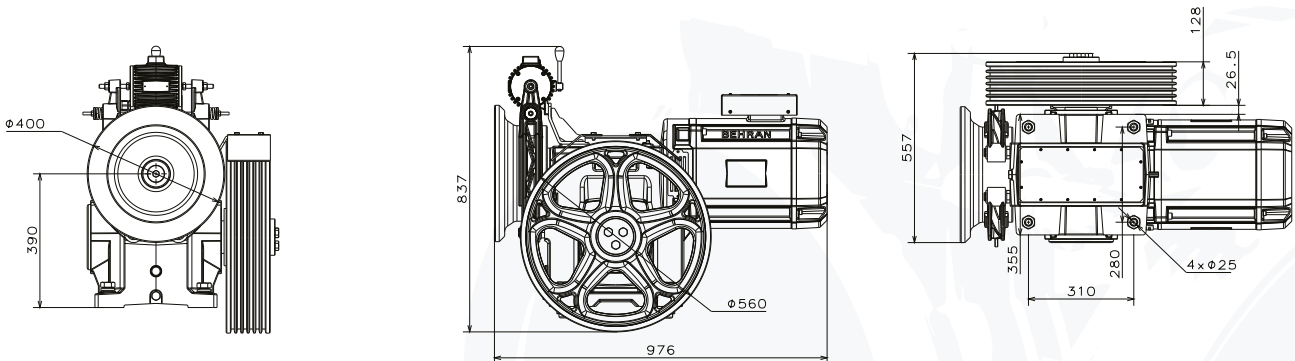


- Quiet Operation
- Heavy-Duty construction
- Extreme Reliability





### Dimensions



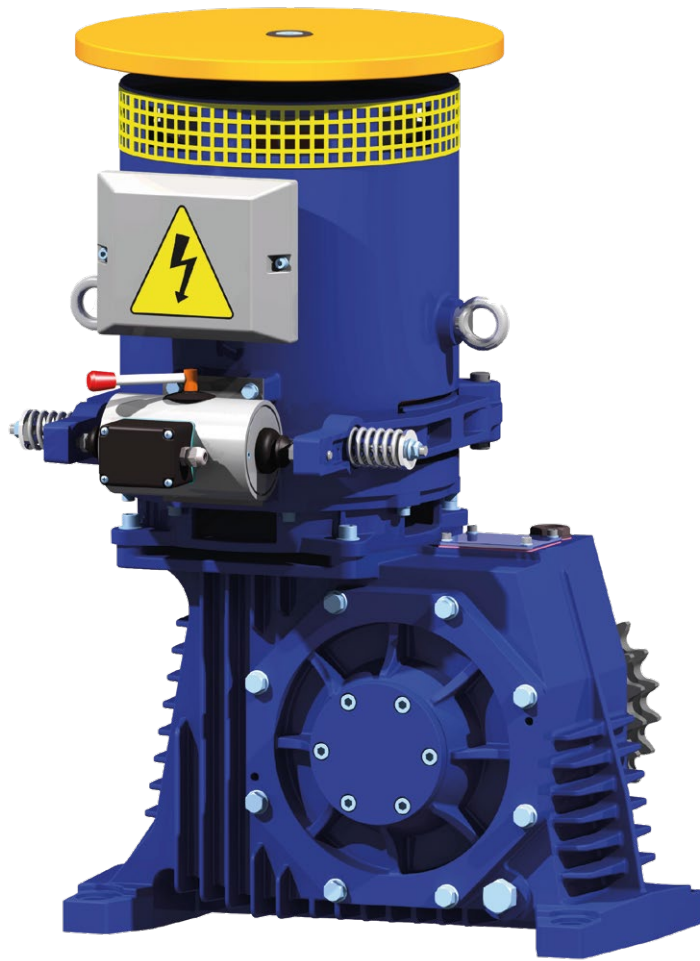
### BL 280 Series

Type	Order No.	Motor Type	Power (Kw)	MOTOR SPECIFICATIONS												GEARBOX SPECIFICATIONS									
				Speed (rpm)		Current			Freq. (Hz)	Voltage (V)	Max/Normal Torque (N.m)	Poles Qty.	ED%	Max. Start Per Hour	Load (Kg)	Max. Speed (m/s)	Max. Static Load (Kg)	Traction Sheave Dia. (mm)	Undercut Angle (Y)	Groove Angle (S)	Rope Dia. (mm)	Rope Qty.	GearBox Ratio	Efficiency	
						In	Ist	Cosφ																MOTOR Efficiency (ηm)	GEARBOX Efficiency (ηg)
				low	high	low	high	low	high	low	high	%	%												
BL280	BE018192V210	VVVF	9.2	1470	17.6	90	0.86	50	380	101/61	4	40	240	975	1	5000	560	35	97	12	5	1/44	89	85	
	BE0181B2V210	VVVF	11.2	1440	22	90	0.88	50	380	101/74	4	40	240	1200	1	5000	560	35	97	12	6	1/44	89	85	
	BE018192V316	VVVF	9.2	1470	17.6	90	0.86	50	380	101/61	4	40	240	750	1.6	5000	560	35	97	12	5	2/53	89	89	
	BE0181D2V316	VVVF	13.2	1430	25	120	0.9	50	380	120/88	4	40	240	975	1.6	5000	560	35	97	12	5	2/53	89	89	
	BE0181F2V316	VVVF	15.2						50	380		4	40	240	1200	1.6	5000	560	35	97	12	6	2/53	89	89



- Quiet Operation
- Heavy-Duty construction
- Extreme Reliability

**Escalator Gearbox Motors**  
**Yürüyen Merdiven Şanzıman Motorları**  
**موتور گیربکس های پله برقی**





BS140 Series

**Worm Shaft & Gear**



5 Micron Ultra-Precision  
CNC Machining

**Bearings**

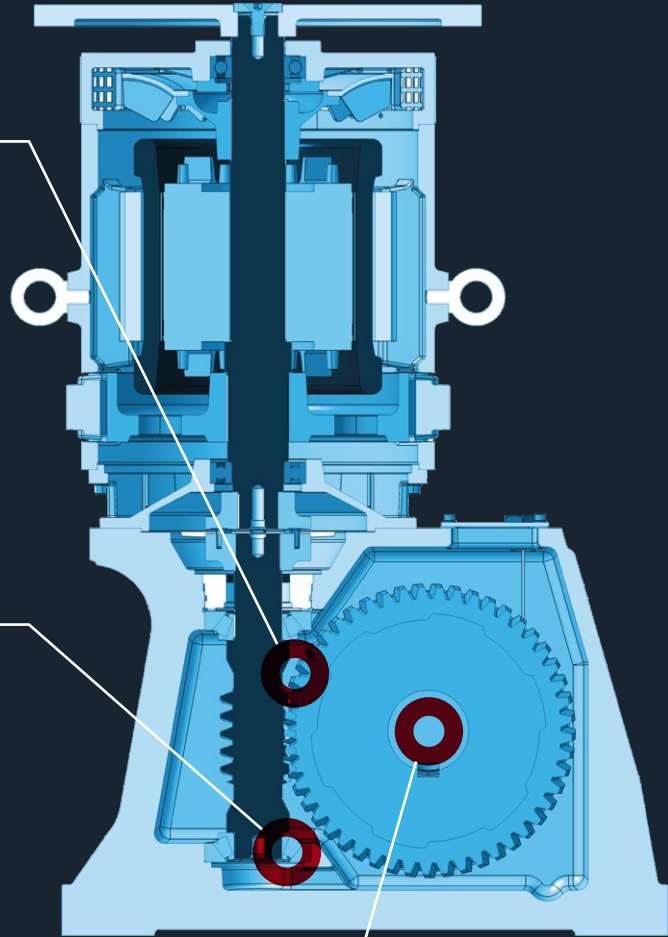


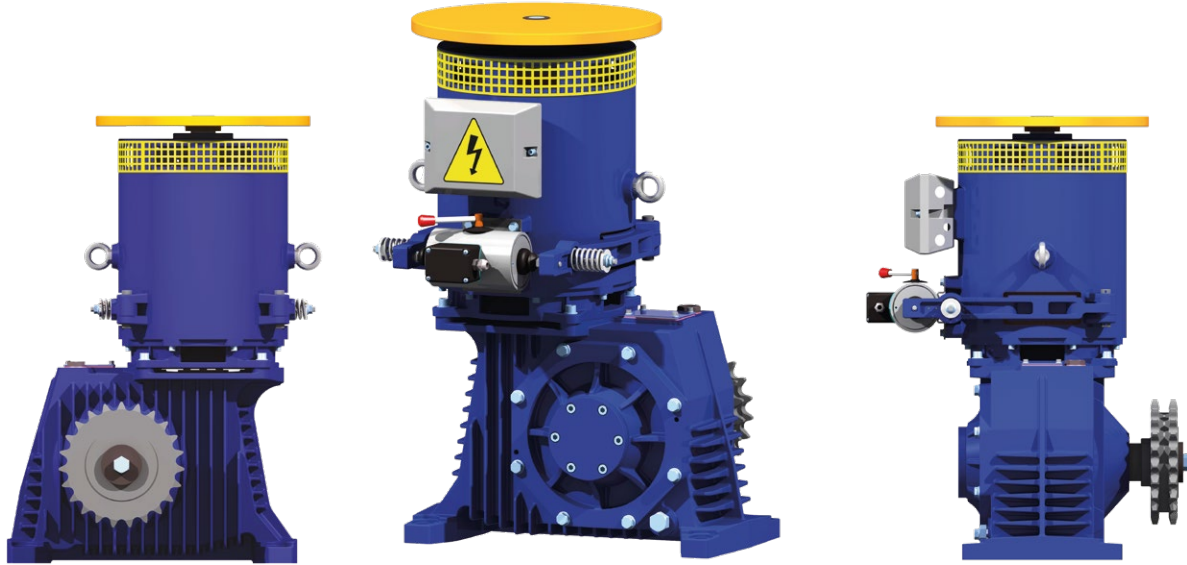
Heavy Duty Bearings  
High Grade

**Super Strength**

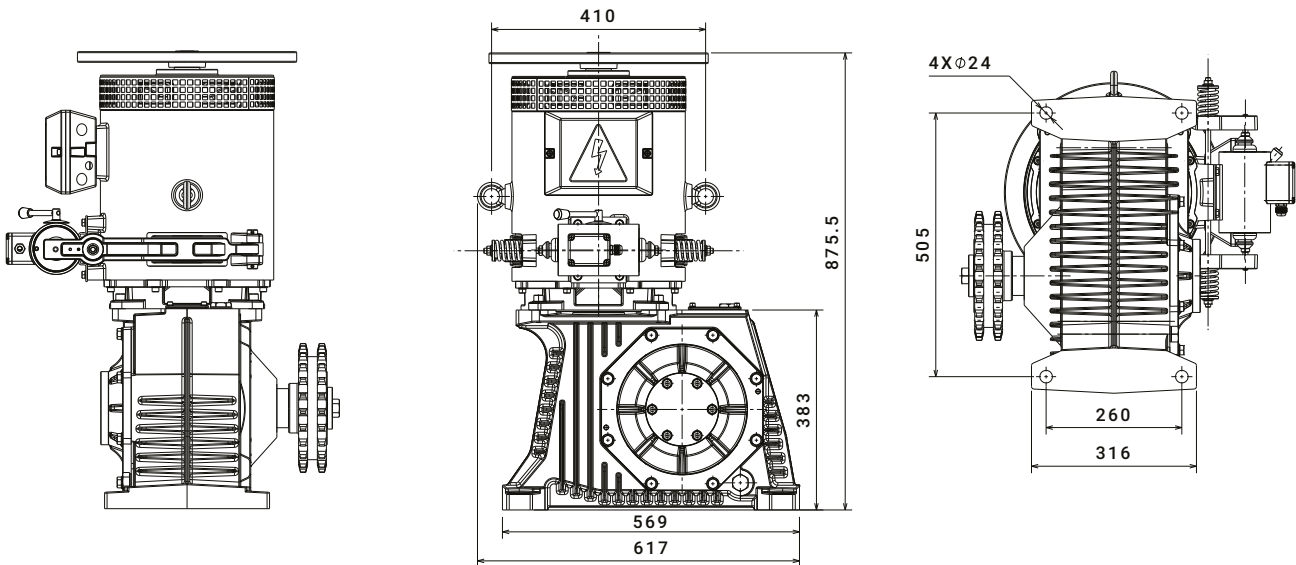


Ultra High Strength





### Dimensions



### BS140 series

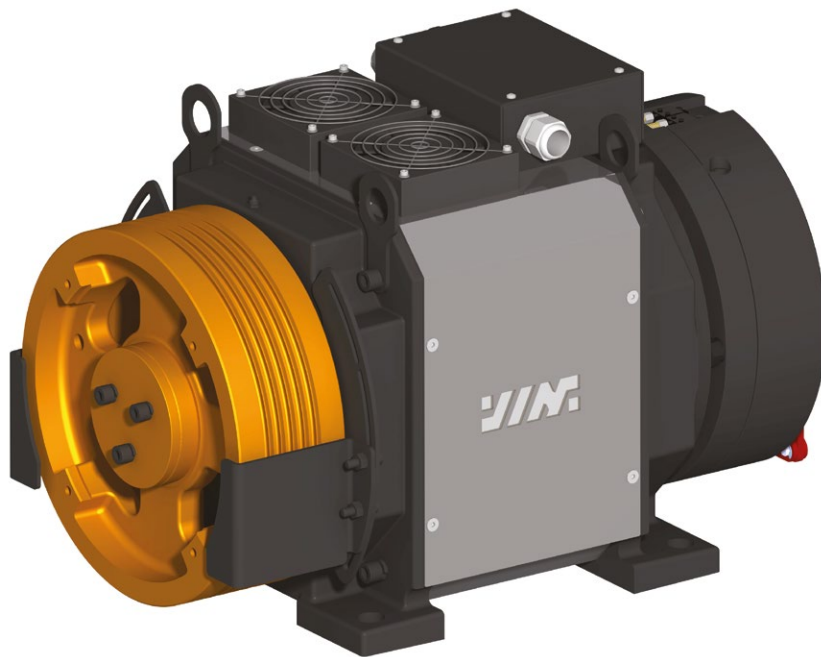
Order No.	Motor Type	Power (Kw)	Speed (rpm)	Current			Freq. (Hz)	Voltage (V)	Mst (Nm)	Mn (Nm)	Poles Qty.	ED%	Ins. Class	Brake Voltage (V)
				In (A)	Ist (A)	Cosφ								
BE031G08AAXX	VVVF	8	960	17.5	75	0.8	50	380	120	74	6	S1	F	AC 220
BE031G11AAXX	VVVF	11	960	24	105	0.82	50	380	170	110	6	S1	F	AC 220



- Quiet Operation
- Heavy-Duty construction
- Extreme Reliability



**Elevator Gearless Motors**  
asansör şanzıman motoru  
موتورهای گیرلس آسانسور



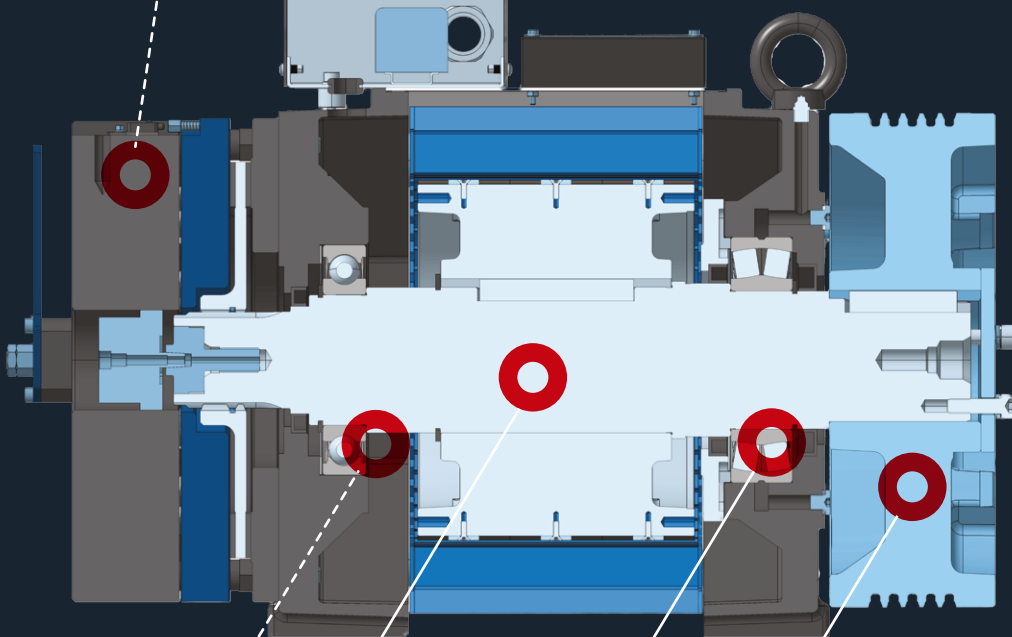


**Motor Brake**



Reliable performance

**BM Series**



**Bearings**



Heavy Duty Bearings  
High Grade

**Super Strength**



Ultra High Static Load

**Motor Pulley**



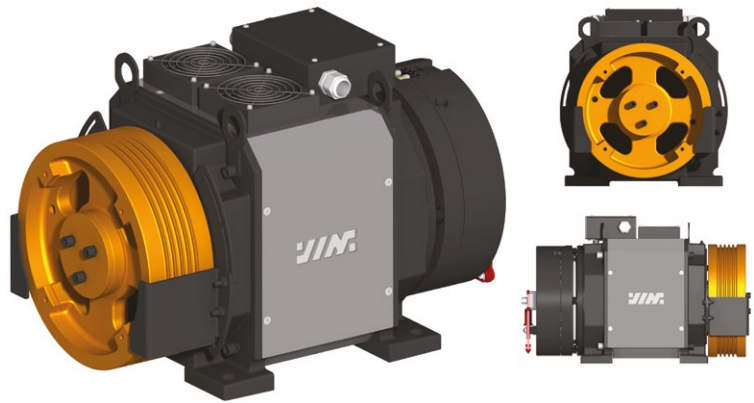
Special Impact/Wear/Fatigue-Resistant  
Graphite-Rich Ductile Cast Iron



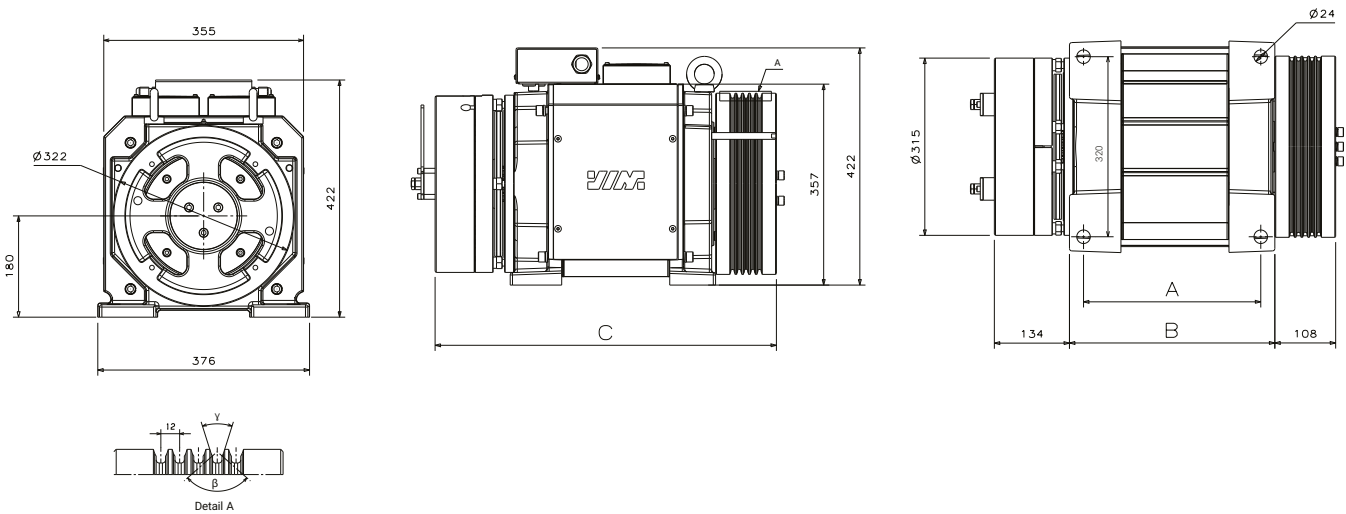
### BM Series

Type	Order Number	Traction Ratio	Load (kg)	Max. axle load (kg)	Elevator Speed (m/s)	Rated Speed (RPM)	Rated Torque (N.m)	Motor					Brake		Sheave					Weight (Kg)	
								Power (kw)	Voltage (V)	Current (A)	Poles (P)	Frequency (Hz)	Voltage (V)	Brake Torque (N.m)	Dia. (mm)	Rope Dia. (mm)	Rope Qty.	$\beta$ angle (°)	$\gamma$ angle (°)		Groove Pitch (mm)
BM320	BE0211301031	2:1	480	3500	1	119	311	3	380	7.8	10	19.8	DC 207	2x800	φ 320	φ8	4	90	30	12	320
	BE0211451631	2:1	450	3500	1.6	191	311	4.5	380	11.2	10	31.8	DC 207	2x800	φ 320	φ8	4	90	30	12	320
	BE0211391031	2:1	630	3500	1	119	311	3.9	380	10.2	10	19.8	DC 207	2x800	φ 320	φ8	4	90	30	12	320
	BE0211631631	2:1	630	3500	1.6	191	311	6.3	380	15.6	10	31.8	DC 207	2x800	φ 320	φ8	4	90	30	12	320
	BE0211491039	2:1	800	3500	1	119	393	4.9	380	11	10	19.8	DC 207	2x800	φ 320	φ8	5	90	30	12	320
	BE0211791639	2:1	800	3500	1.6	191	393	7.9	380	18.9	10	31.8	DC 207	2x800	φ 320	φ8	5	90	30	12	320
BM360	BE0211601048	2:1	1000	3500	1	119	482	6	380	13.8	10	19.8	DC 207	2x800	φ 320	φ8	6	90	30	12	330
	BE0211981648	2:1	1000	3500	1.6	191	482	9.8	380	24	10	31.8	DC 207	2x800	φ 320	φ8	6	90	30	12	330

Type	Order Number	A	B	C
BM320	BE0211301031	315	365	654
	BE0211451631	315	365	654
	BE0211391031	315	365	654
	BE0211631631	315	365	654
	BE0211491039	315	365	654
	BE0211791639	315	365	654
BM360	BE0211601048	355	405	694
	BE0211A71748	355	405	694



### Dimensions



- Quiet Operation
- Heavy-Duty construction
- Extreme Reliability

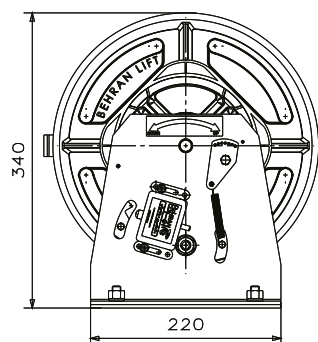
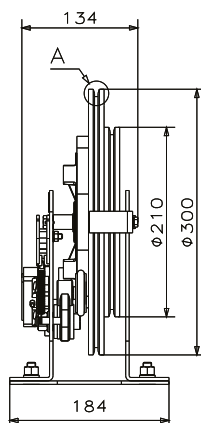
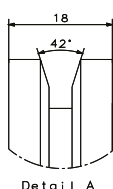
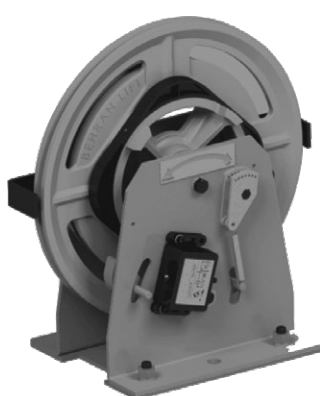
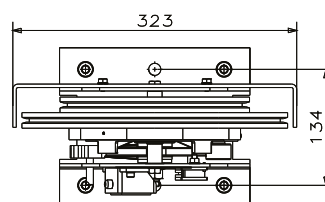
# Overspeed Governor

گاورنر آسانسور



Asansör Valisi

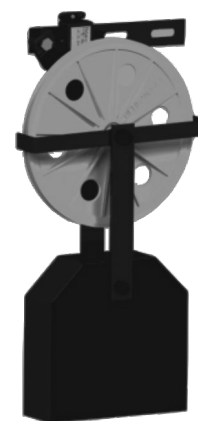
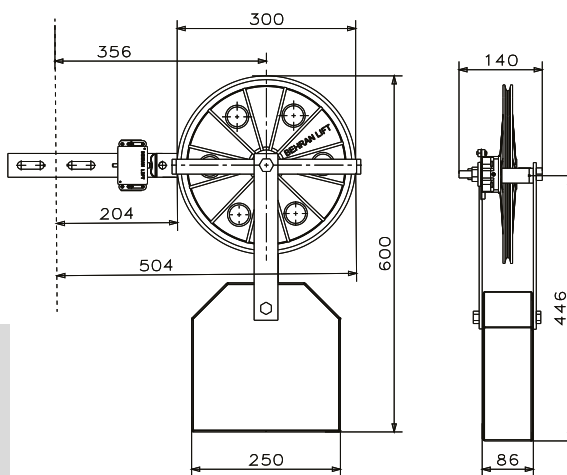
Order No.	Operation	D (mm)	Vn (m/s)	Vtr (m/s)		Ve (m/s)		Wire Rope Dia.
				Down	Up	Down	Up	
BE4011UA1630	Unidirectional	300	0.5	0.7	-	0.65	-	6
BE4011UA1730	Unidirectional	300	0.8	0.99	-	0.93	-	6
BE4011UA2130	Bidirectional	300	1	1.28	1.28	1.23	1.23	6
BE4011UA1130	Unidirectional	300	1	1.28	-	1.23	-	6
BE4011UA2230	Bidirectional	300	1.6	1.98	1.98	1.93	1.93	6
BE4011UA1230	Unidirectional	300	1.6	1.98	-	1.93	-	6



# Governor Deflection Pulley

فلکه کششی گاورنر

Vali Saptırma Kasnağı



Type	D (mm)	V (m/s)	Wire Rope Dia. (mm)	Weight (kg)
BE4011DXX23H	300	1.00 - 1.60	6	18

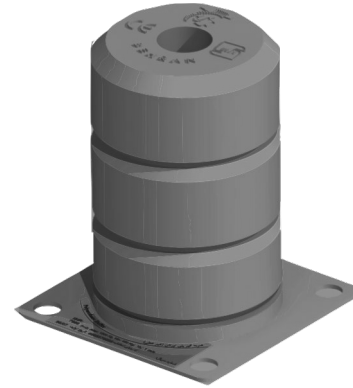
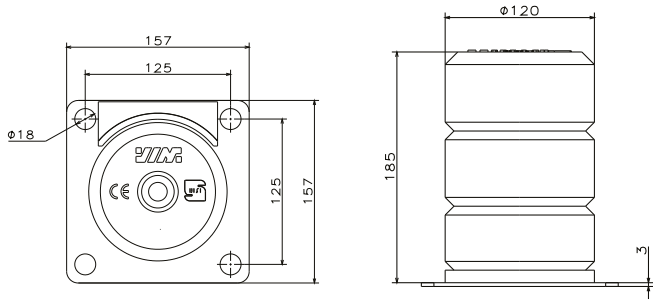


# Polyurethane Buffer

ضربه گیر پلی اورتان



Poliüretan Tampon

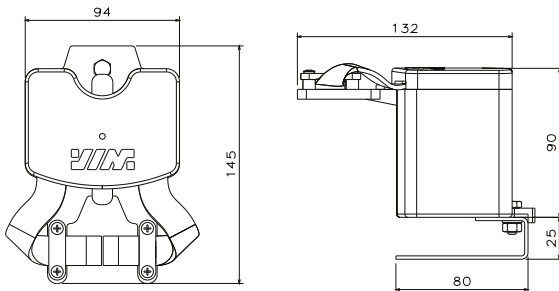


Order No.	P+Q		Vmax (m/s)
	Min.	Max.	
BE4111P41510	400	1500	1

# Rail Lubricator

روغندان ریل

Ray Yağlayıcı

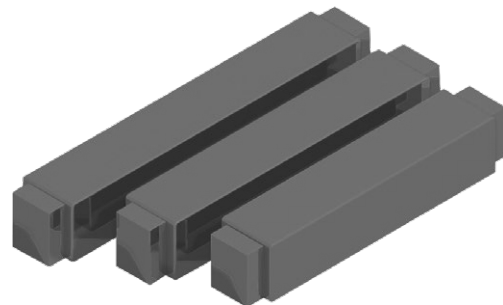
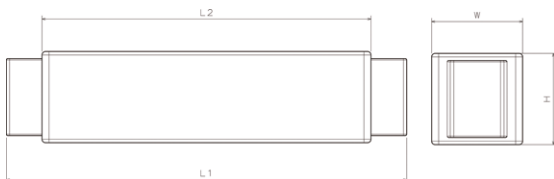


Order No. BE08614590XI

# Counterweights

وزنه های تعادل

karşı ağırlıklar



Order No.	Size	Dimension (mm)				Net Weight (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

# Deflection Pulley

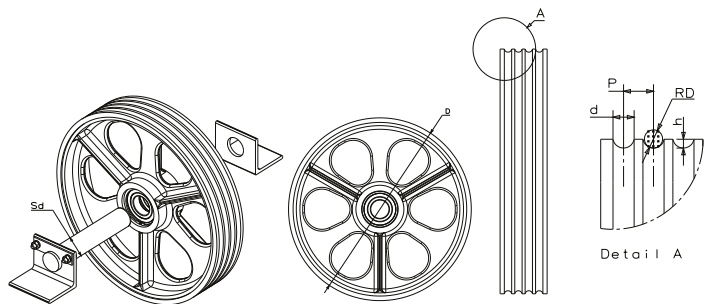
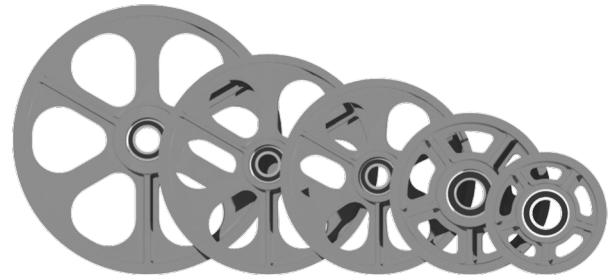
فلکه های هرزگرد



## Saptırma Kasnağı

Order No.	Rope Dia. ( Rd )	D	Groove No. n	d	h	Shaft Dia. ( Sd )
	mm					
BE0611XXCX24	6	240	5-6-7-8	7	3	55
BE0611XXCX33	8	330	5-6-7-8	9	4	55
BE0611XXAX40	10	400	4-5-6	11	5	40
BE0611XXAX44	11	440	4-5-6	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

سایر سایزهای فلک های هرزگرد به سفارش مشتری و در کمترین زمان ممکن قابل تحویل می باشد

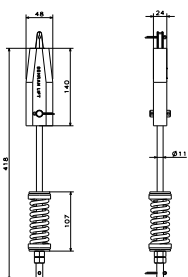
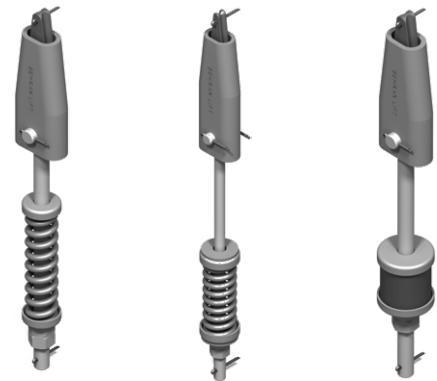


# Wire Rope Holder

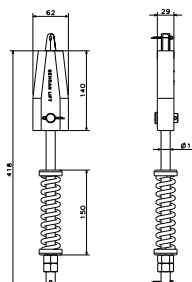
قلاب سر بکسل (مدل فورج)

## Çelik Halat Tutucu

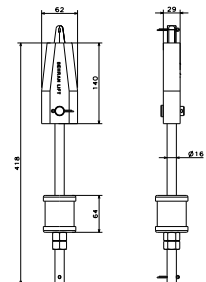
Type	Wire Rope Dia. (mm)				Bolt Diameter	Nominal Weight (kg)	Max. Weight (kg)
	6	8	10	11			
BE20410608F1	✓	✓	-	-	M12	3000	4000
BE20411011F1	-	-	✓	✓	M16	6000	7700
BE20411011F2	-	-	✓	✓	M16	6000	7700



BE20410608F1



BE20411011F1



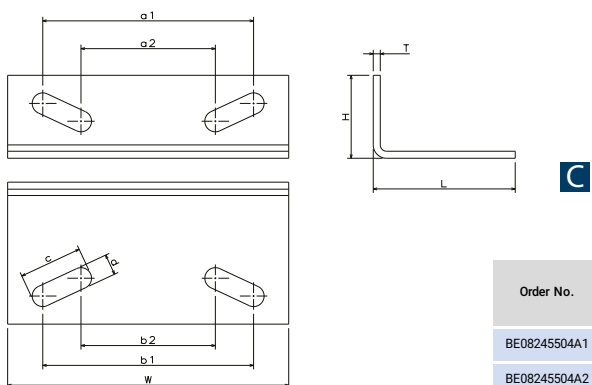
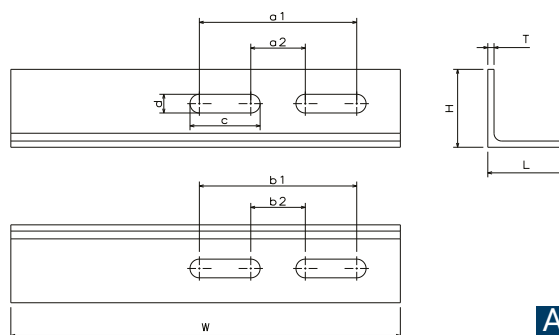
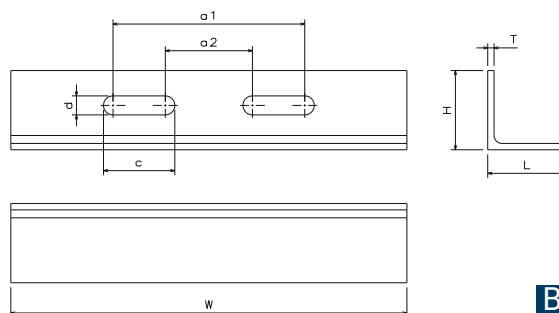
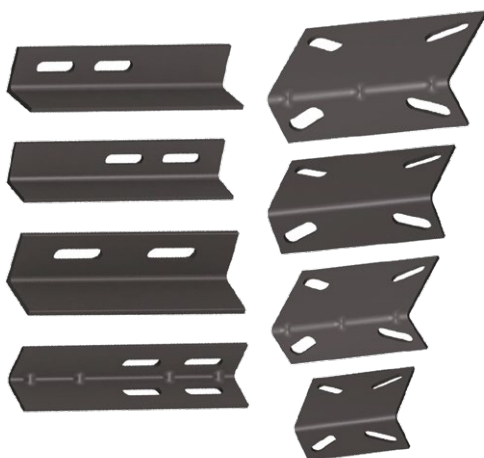
BE20411011F2



# Guide Rail brackets

## Kılavuz ray Parantezler

براکت های ریل

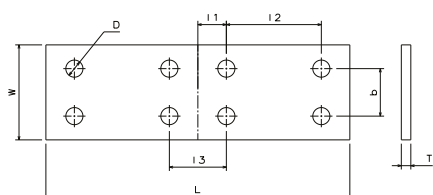


Order No.	Guide Rails	Dimension (mm)										Drawing Type
		T	W	L	H	d	c	a1	a2	b1	b2	
BE08245504A1	T45,T50	4	250	50	50	12.5	45	100	35	-	-	A
BE08245504A2	T45,T50	4	250	50	50	12.5	45	-	-	100	35	A
BE08245504A3	T45,T50	4	250	50	50	12.5	45	100	35	100	35	A
BE08270754B1	T70,T75	4	250	50	50	12.5	45	100	35	-	-	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

## Balık Tabakları

پشت بند ریل



Order No.	Guide Rails /iso	Dimension (mm)								Screw Size
		T	L	W	D	I1	I2	I3	b	
BE08545XX5XX	T45	5	160	50	9	15	50	30	25	M8
BE08550XX5XX	T50	5	180	50	9	25	50	50	30	M8
BE08570758XX	T70 / A&B T75 / A&B	8	250	70	13	25	80	50	42	M12
BE0858990AXX	T89 / A&B T90 / A&B	10	280	90	13	38.1	76.2	76.2	57.2	M12

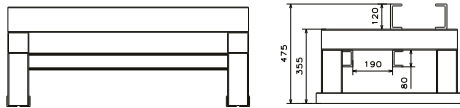
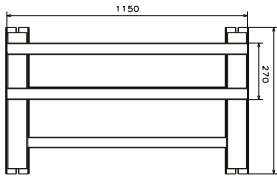




# Machine Fream

## Makine Çerçevesi

پایه موتورگیربکس

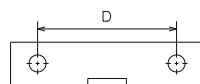


Behran BL240

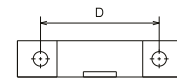
Order No.	Gearbox	Drawing Type	L (mm)	D (mm)
BE10201A1XXX	Behran BL240	A	280	220
BE10201A2XXX	Behran BL260	A	280	225
BE10201A3XXX	Behran BL280	A	360	280
BE10201GEXXX	GEM	A	250	180
BE10201SLXXX	SASSI LEO	B	250	150
BE10201SJXXX	SASSI JEKO	B	250	150
BE10201SMXXX	SASSI MF48	B	300	230
BE10201MOXXX	Montanari	B	280	220
BE10201SIXXX	Sicor (Elecomp)	C	245	180



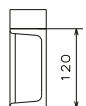
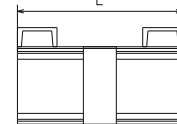
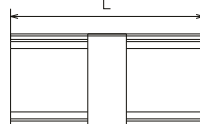
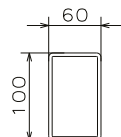
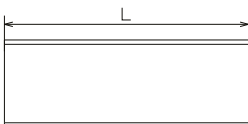
A



B



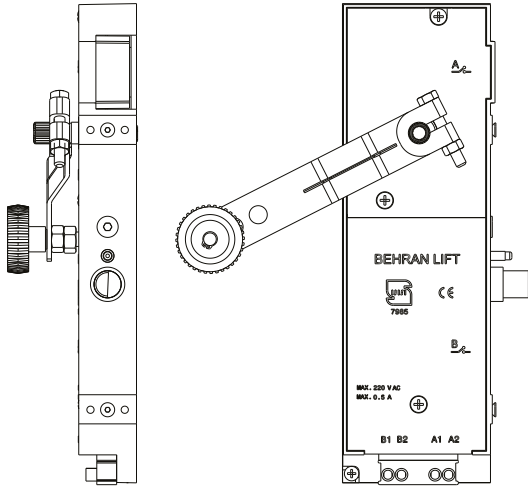
C



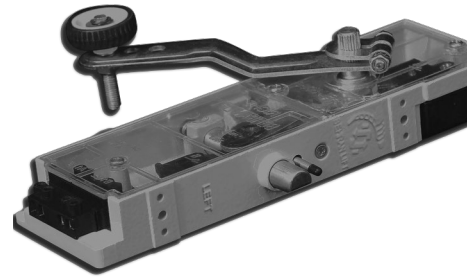
# Swing Door Lock

## Salıncak Kapı Kilidi

قفل درب لولایی



Order Number	Side
BE05GARXXXXX	Right
BE05GALXXXXX	Left



200.000  
impact  
test

200.000  
darbe  
testi

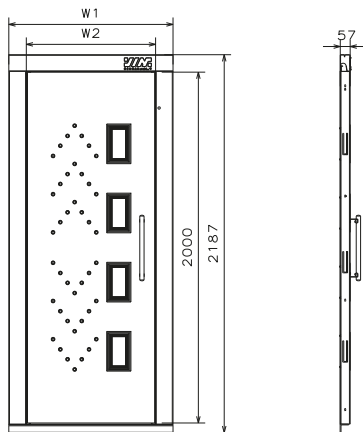
تست  
۲۰۰.۰۰۰  
ضربه ای



# Swing Door

## Çarpma kapı

درب لولایی



### 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		

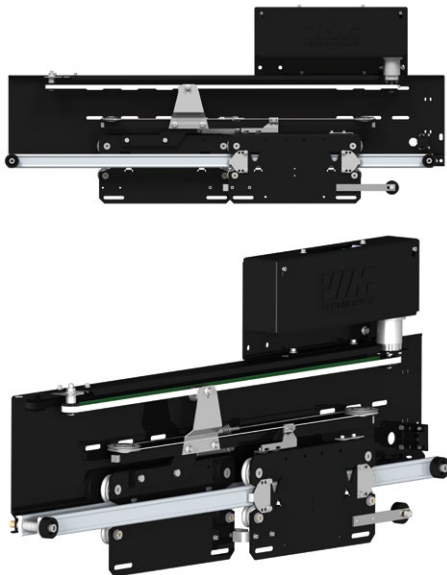
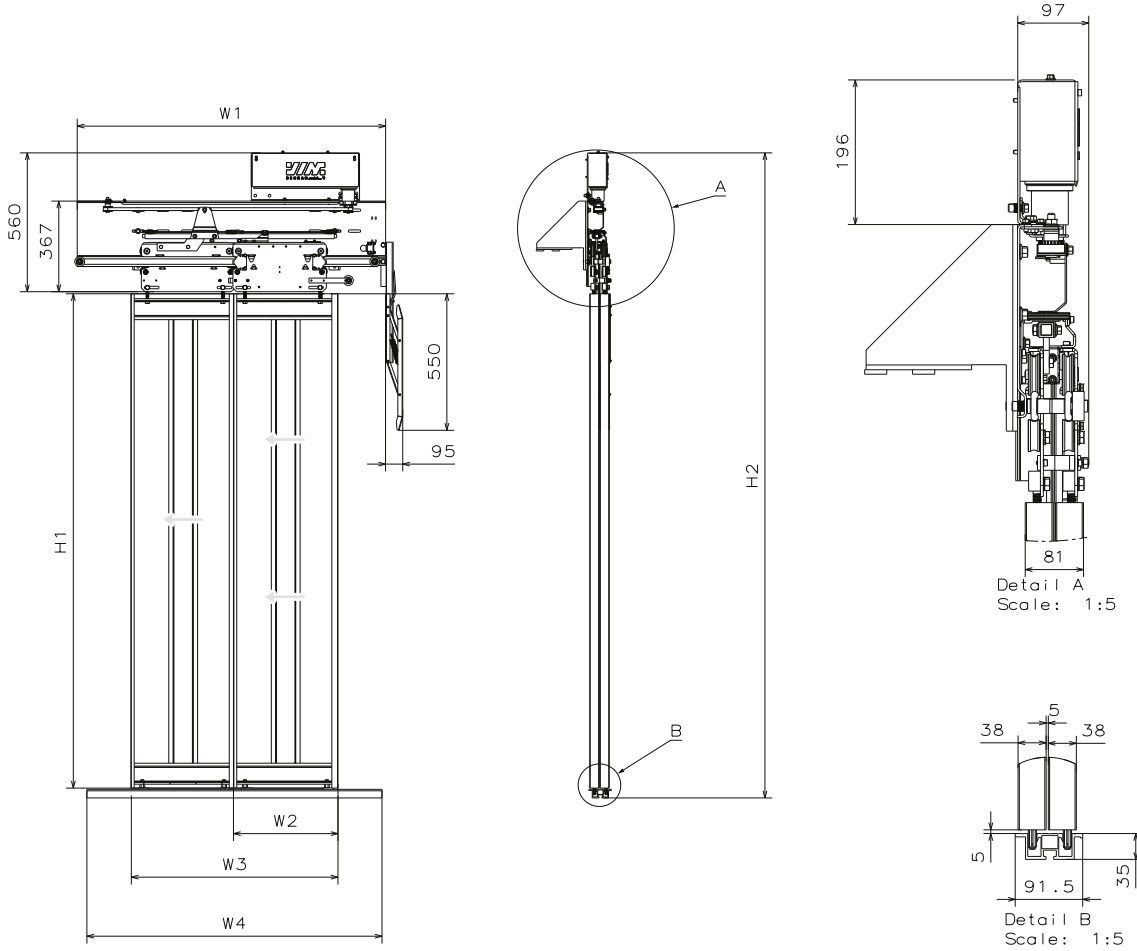
در رنگهای کرم چرمی و مسی چکشی تولید می شود

# Semi-Automatic Cabin Door 2 Panels



درب کابین نیمه اتوماتیک ۲ لته

2 kanatlı yarı otomatik kabin kapısı



## BN700 series

Order Number	Panels	Opening		Dimension (mm)				H1	H2
		Size / Side		W1	W2	W3	W4		
BE053AR270XX	2	70	Right	1104	375	700	1050	2110	2723
BE053AL270XX			Left						
BE053AR271XX			Right						
BE053AL271XX			Left						
BE053AR272XX			Right						
BE053AL272XX			Left						
BE053AR280XX		80	Right	1254	425	800	1200	2110	2723
BE053AL280XX			Left						
BE053AR281XX			Right						
BE053AL281XX			Left						
BE053AR282XX			Right						
BE053AL282XX			Left						
BE053AR290XX	90	Right	1355	475	900	1355	2110	2723	
BE053AL290XX		Left							
BE053AR291XX		Right							
BE053AL291XX		Left							
BE053AR292XX		Right							
BE053AL292XX		Left							

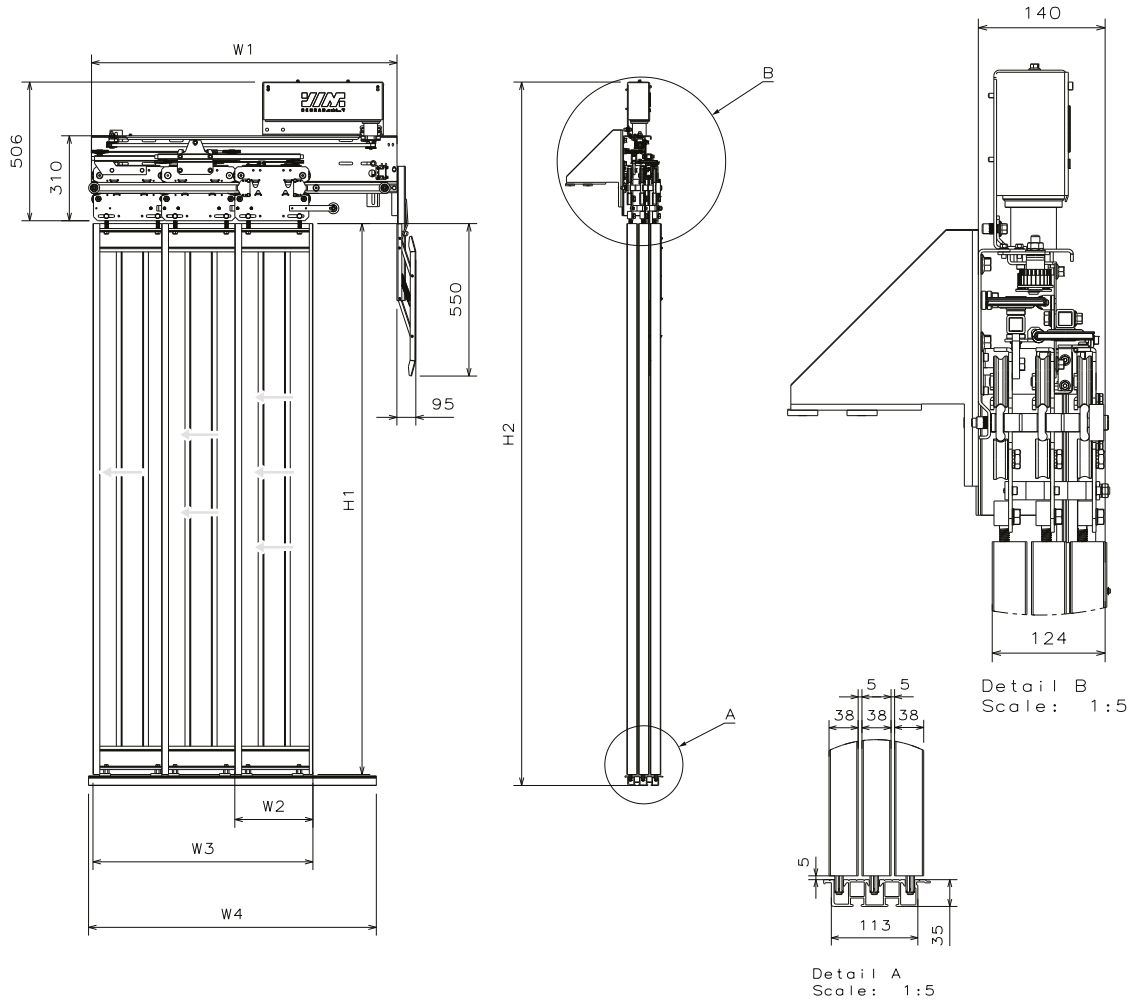
انتخاب رنگ ، جنس لته ها و چهارچوب (شیشه ای، روکش استیل و...) توسط مشتری امکان پذیر است.  
It is possible for the customer to choose the color and material of the Panels and frame (glass, steel coating, etc.)  
Müşterinin Panellerin ve çerçevesinin rengini ve malzemesini (cam, çelik kaplama vb.) Seçmesi mümkündür.

# Semi-Automatic Cabin Door 3 Panels



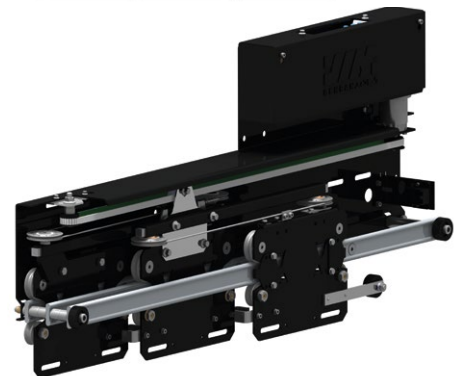
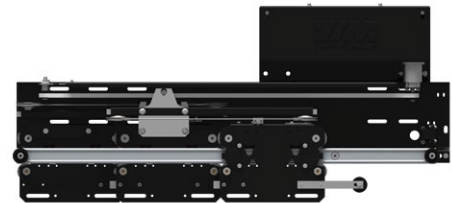
درب کابین نیمه اتوماتیک ۳ لته

3 kanatlı yarı otomatik kabin kapısı



## BN750 series

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



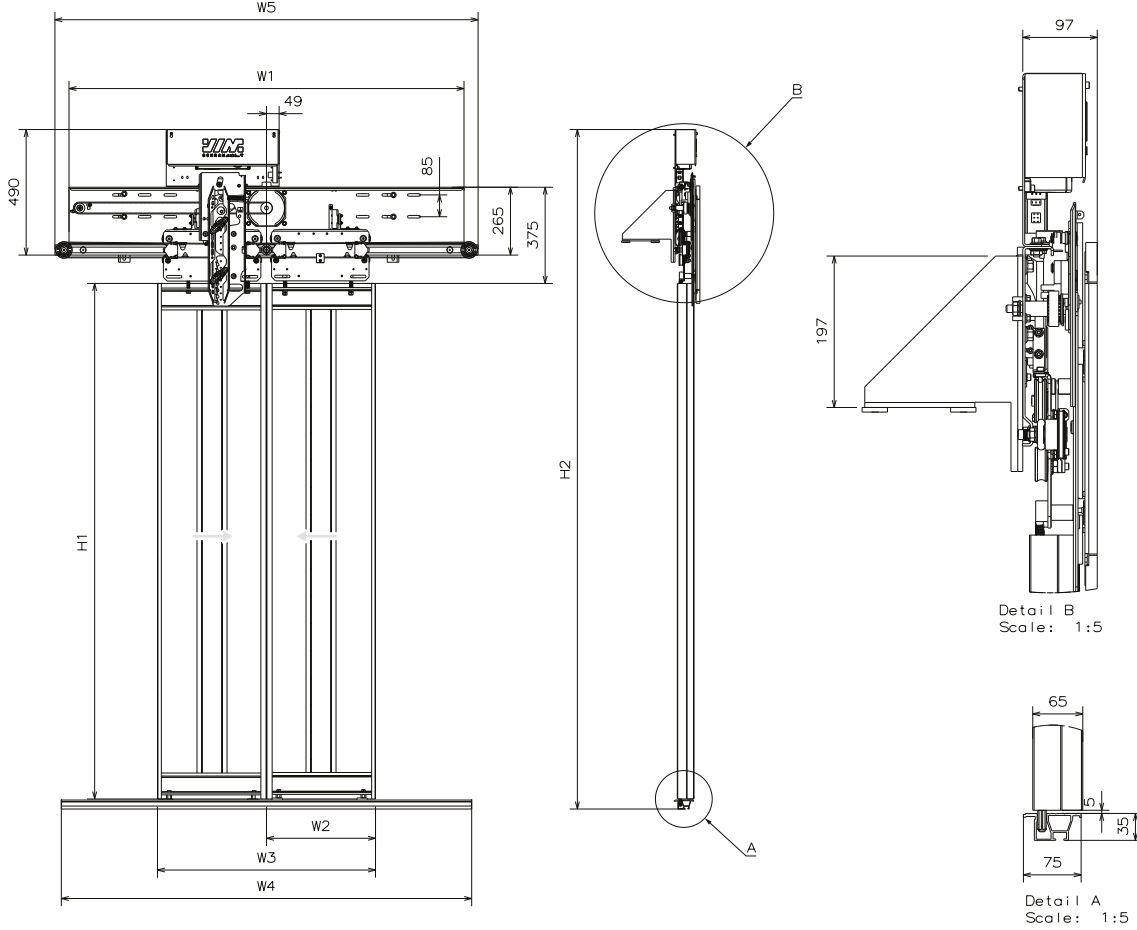
انتخاب رنگ ، جنس لته ها و چهارچوب (شیشه ای، روکش استیل و...) توسط مشتری امکان پذیر است.  
It is possible for the customer to choose the color and material of the Panels and frame (glass, steel coating, etc.)  
Müşterinin Panellerin ve çerçevenin rengini ve malzemesini (cam, çelik kaplama vb.) Seçmesi mümkündür.

# Automatic Central Cabin Door



درب کابین تمام اتوماتیک سانترال ۲ لته

Tam otomatik 2 kapılı merkezi kabin kapısı



## BH150 series



Order Number	Panels	Opening Size	Dimension (mm)						
			W1	W2	W3	W4	W5	H1	H2
BE055AC270XX	2	70	1420	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

انتخاب رنگ ، جنس لته ها و چهارچوب (شیشه ای، روکش استیل و...) توسط مشتری امکان پذیر است.  
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.

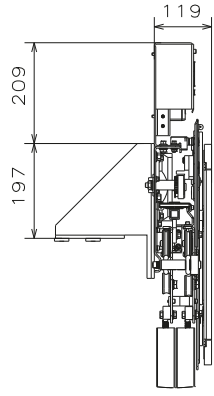
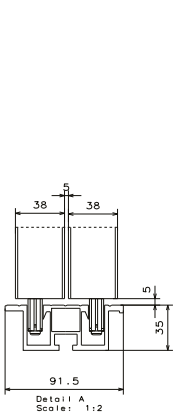


# Automatic Telescopic Cabin Door

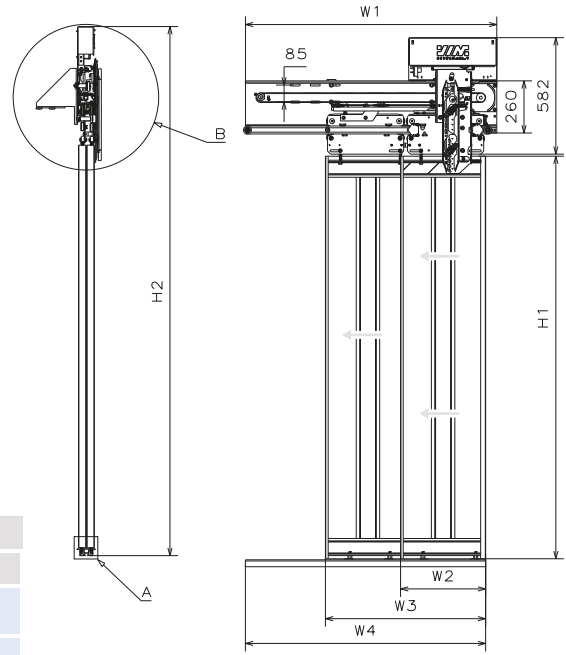


درب کابین تمام اتوماتیک تلسکوپی ۲ لته

Tam otomatik teleskopik kabin kapısı 2 çita

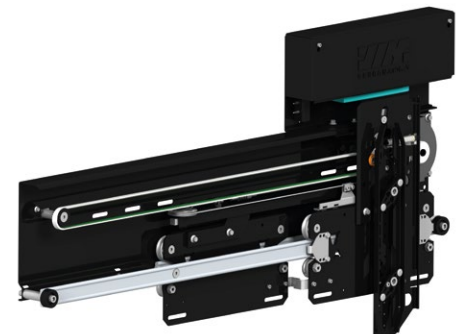
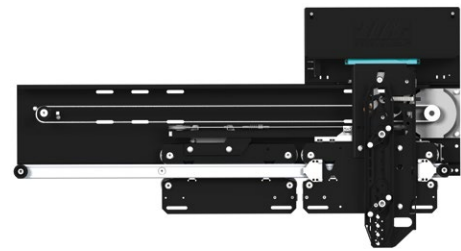


Detail B  
Scale: 1:10



## BH550 series

Order Number	Panels	Opening		Dimension (mm)								
				W1	W2	W3	W4	H1	H2			
BE057AR270XX	2	70	Right	1105	375	700	1050	2010	2542			
BE057AL270XX			Left					2110	2642			
BE057AR271XX		70	Right	1105	375	700	1050	2210	2742			
BE057AL271XX			Left					2210	2742			
BE057AR272XX		70	Right	1105	375	700	1050	2010	2542			
BE057AL272XX			Left					2110	2642			
BE057AR280XX		2	80	Right	1255	425	800	1200	2010	2542		
BE057AL280XX				Left					2110	2642		
BE057AR281XX			80	Right	1255	425	800	1200	2210	2742		
BE057AL281XX				Left					2210	2742		
BE057AR282XX			80	Right	1255	425	800	1200	2010	2542		
BE057AL282XX				Left					2110	2642		
BE057AR290XX			2	90	Right	1355	475	900	1355	2010	2542	
BE057AL290XX					Left					2110	2642	
BE057AR291XX				90	Right	1355	475	900	1355	2210	2742	
BE057AL291XX					Left					2210	2742	
BE057AR292XX				90	Right	1355	475	900	1355	2010	2542	
BE057AL292XX					Left					2110	2642	
BE057AR2A0XX				2	100	Right	1555	525	1000	1500	2010	2542
BE057AL2A0XX						Left					2110	2642
BE057AR2A1XX					100	Right	1555	525	1000	1500	2210	2742
BE057AL2A1XX						Left					2210	2742
BE057AR2A2XX					100	Right	1555	525	1000	1500	2010	2542
BE057AL2A2XX						Left					2110	2642
BE057AR2B0XX	2				110	Right	1705	575	1100	1650	2010	2542
BE057AL2B0XX						Left					2110	2642
BE057AR2B1XX					110	Right	1705	575	1100	1650	2210	2742
BE057AL2B1XX						Left					2210	2742
BE057AR2B2XX					110	Right	1705	575	1100	1650	2010	2542
BE057AL2B2XX						Left					2110	2642
BE057AR2C0XX		2			120	Right	1855	625	1200	1800	2010	2542
BE057AL2C0XX						Left					2110	2642
BE057AR2C1XX					120	Right	1855	625	1200	1800	2210	2742
BE057AL2C1XX						Left					2210	2742
BE057AR2C2XX					120	Right	1855	625	1200	1800	2010	2542
BE057AL2C2XX						Left					2110	2642
BE057AR2D0XX			2		130	Right	1995	675	1300	1950	2010	2542
BE057AL2D0XX						Left					2110	2642
BE057AR2D1XX					130	Right	1995	675	1300	1950	2210	2742
BE057AL2D1XX						Left					2210	2742
BE057AR2D2XX					130	Right	1995	675	1300	1950	2010	2542
BE057AL2D2XX						Left					2110	2642
BE057AR2D2XX				130	Right	1995	675	1300	1950	2210	2742	
BE057AL2D2XX					Left					2210	2742	



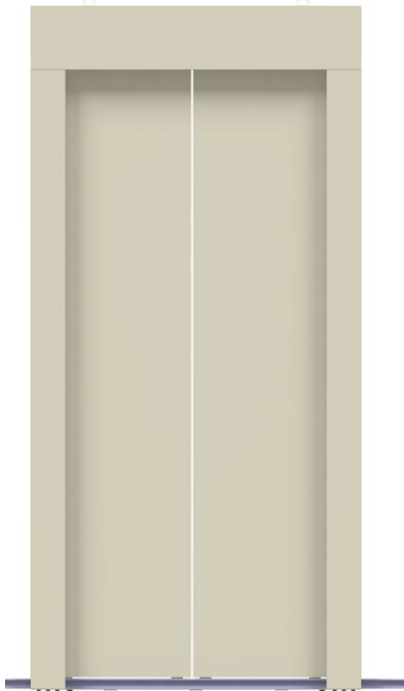
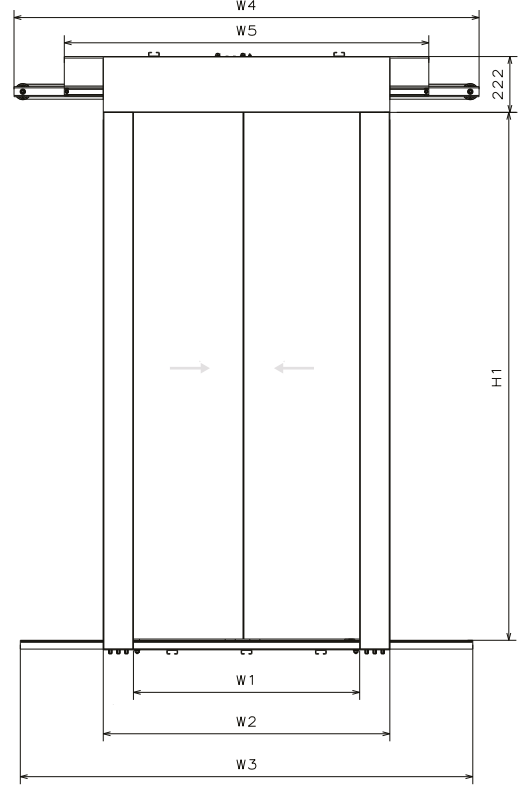
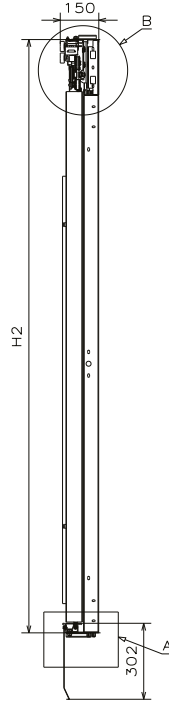
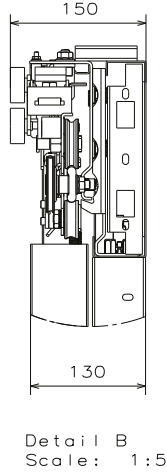
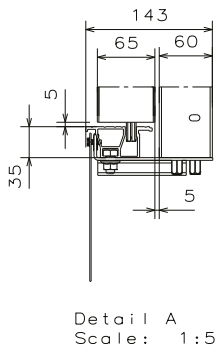
انتخاب رنگ ، جنس لته ها و چهارچوب (شیشه ای، روکش استیل و...) توسط مشتری امکان پذیر است.  
It is possible for the customer to choose the color and material of the Panels and frame (glass, steel coating, etc.)  
Müşterinin Panellerin ve çerçevenin rengini ve malzemesini (cam, çelik kaplama vb.) Seçmesi mümkündür.

# Automatic Central Landing Door



درب طبقه تمام اتوماتیک سانترال ۲ لته

Tam otomatik 2 kanatlı merkezi kapı



## BZ100 series

Order Number	Panels	Opening Size	Dimension (mm)						H1	H2
			W1	W2	W3	W4	W5			
BE054AC270XX	2	70	700	940	1400	1450	1220	2000	2260	
BE054AC271XX								2100	2360	
BE054AC272XX								2200	2460	
BE054AC280XX								2000	2260	
BE054AC281XX								2100	2360	
BE054AC282XX								2200	2460	
BE054AC290XX		2000	2260							
BE054AC291XX		2100	2360							
BE054AC292XX		2200	2460							
BE054AC2A0XX		2000	2260							
BE054AC2A1XX		2100	2360							
BE054AC2A2XX		2200	2460							
BE054AC2B0XX		2000	2260							
BE054AC2B1XX		2100	2360							
BE054AC2B2XX		2200	2460							
BE054AC2C0XX		2000	2260							
BE054AC2C1XX		2100	2360							
BE054AC2C2XX		2200	2460							
BE054AC2D0XX		2000	2260							
BE054AC2D1XX		2100	2360							
BE054AC2D2XX	2200	2460								

انتخاب رنگ ، جنس لته ها و چهارچوب (شیشه ای، روکش استیل و...) توسط مشتری امکان پذیر است.  
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.

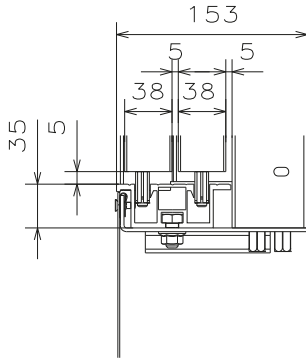


# Automatic Telescopic Landing Door

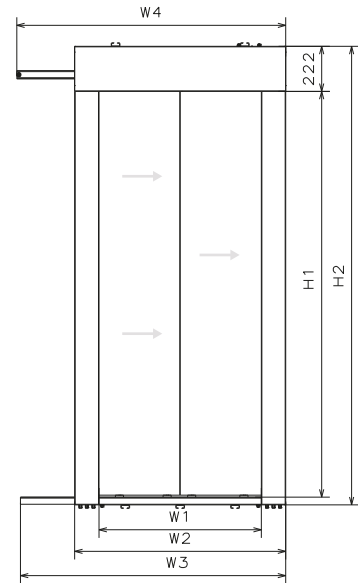
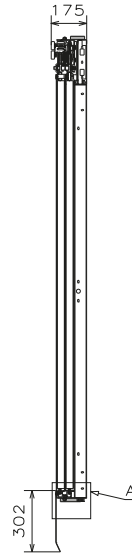


درب طبقه تمام اتوماتیک تلسکوپی ۲ لته

Tam otomatik teleskopik kat kapısı 2 çita

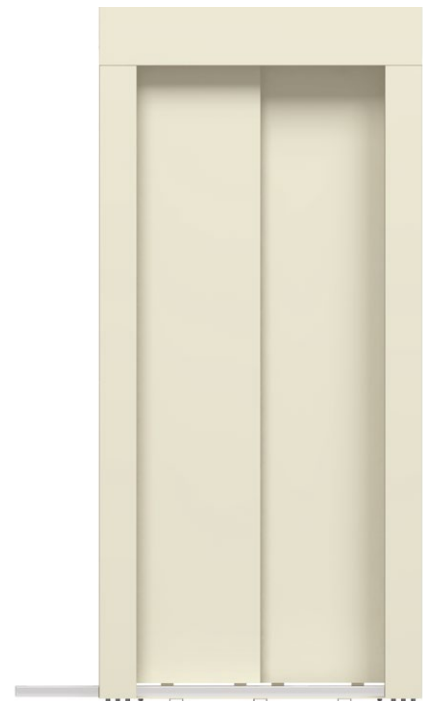


Detail A  
Scale: 1:5



## 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								
BE056AR271XX		70	Right	700	940	1158	1176	2100	2360		
BE056AL271XX			Left								
BE056AR272XX		70	Right	700	940	1158	1176	2200	2460		
BE056AL272XX			Left								
BE056AR280XX		80	80	Right	800	1040	1308	1326	2000	2260	
BE056AL280XX				Left							
BE056AR281XX			80	Right	800	1040	1308	1326	2100	2360	
BE056AL281XX				Left							
BE056AR282XX			80	Right	800	1040	1308	1326	2200	2460	
BE056AL282XX				Left							
BE056AR290XX		90	90	Right	900	1140	1458	1476	2000	2260	
BE056AL290XX				Left							
BE056AR291XX			90	Right	900	1140	1458	1476	2100	2360	
BE056AL291XX				Left							
BE056AR292XX			90	Right	900	1140	1458	1476	2200	2460	
BE056AL292XX				Left							
BE056AR2A0XX		100	100	Right	1000	1240	1608	1626	2000	2260	
BE056AL2A0XX				Left							
BE056AR2A1XX			100	Right	1000	1240	1608	1626	2100	2360	
BE056AL2A1XX				Left							
BE056AR2A1XX			100	Right	1000	1240	1608	1626	2200	2460	
BE056AL2A1XX				Left							
BE056AR2B0XX		110	110	Right	1100	1340	1758	1776	2000	2260	
BE056AL2B0XX				Left							
BE056AR2B1XX			110	Right	1100	1340	1758	1776	2100	2360	
BE056AL2B1XX				Left							
BE056AR2B2XX			110	Right	1100	1340	1758	1776	2200	2460	
BE056AL2B2XX				Left							
BE056AR2C0XX		120	120	Right	1200	1440	1908	1926	2000	2260	
BE056AL2C0XX				Left							
BE056AR2C1XX			120	Right	1200	1440	1908	1926	2100	2360	
BE056AL2C1XX				Left							
BE056AR2C2XX			120	Right	1200	1440	1908	1926	2200	2460	
BE056AL2C2XX				Left							
BE056AR2D0XX		130	130	Right	1300	1540	2058	2076	2000	2260	
BE056AL2D0XX				Left							
BE056AR2D1XX			130	Right	1300	1540	2058	2076	2100	2360	
BE056AL2D1XX				Left							
BE056AR2D2XX			130	Right	1300	1540	2058	2076	2200	2460	
BE056AL2D2XX				Left							



انتخاب رنگ ، جنس لته ها و چهارچوب (شیشه ای، روکش استیل و...) توسط مشتری امکان پذیر است.  
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.



## ELEVATOR GLASSDOORS

### درب های شیشه ای آسانسور



این محصول بصورت سفارشی تولید می شود و مشتری میتواند سایز ، نوع جنس و رنگ را متناسب با نیاز خود سفارش دهد

This product is custom made and the customer can order the size, type of material and color according to their needs.

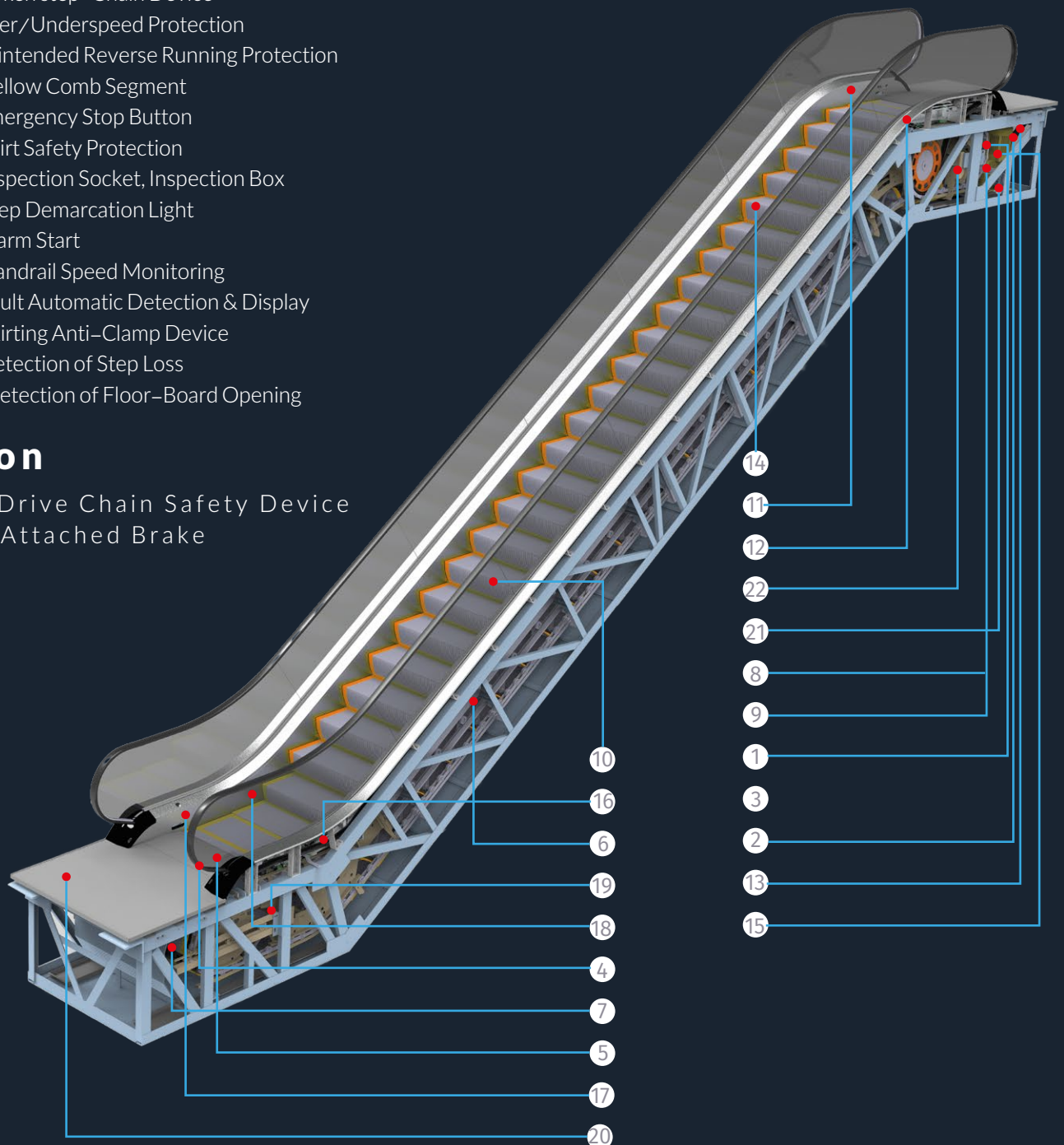
Bu ürün kişiye özel olup müşteri ihtiyaçlarına göre ölçü, malzeme cinsi ve rengini sipariş edebilir.

## Standard

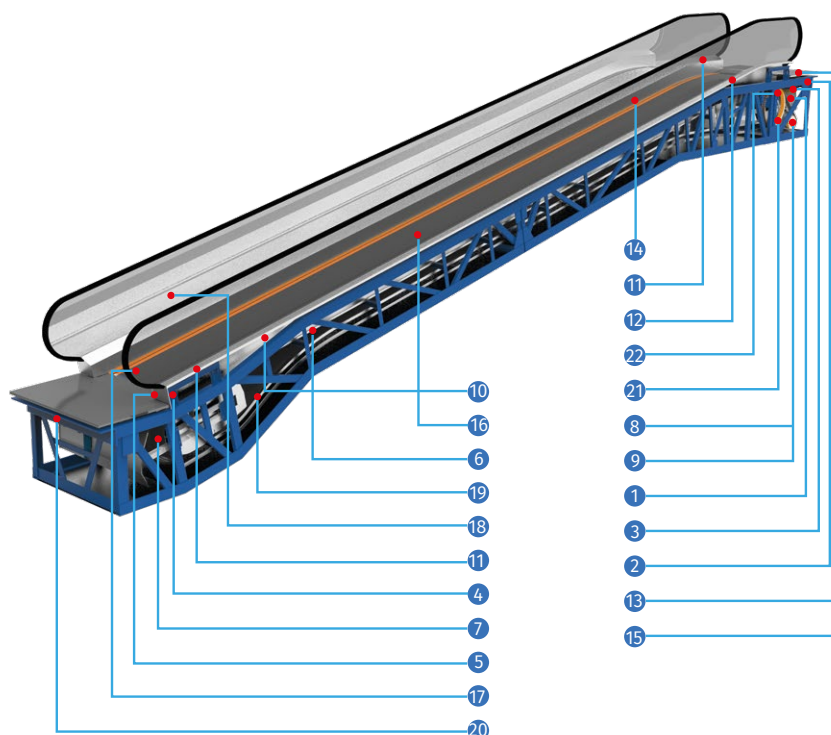
- 1- Phase Fault Protection
- 2- Motor Overload Protection
- 3- Electrical Circuit Protection
- 4- Handrail Entry Protection
- 5- comb Teeth Obstruction Device
- 6- Step Sagging Guard and Roller Rapture Protection
- 7- Broken step-Chain Device
- 8- Over/Underspeed Protection
- 9- Unintended Reverse Running 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



- Automatic Stop in Case of Phase Error
  - Automatic Stop in Case of Current Exceed
  - Safety Circuit to Protect Motor or Power Device from Overload
  - Automatic Stop in Case of Object in Handrail Entry
  - Automatic stop in Case of Obstruction between Comb Teeth & Steps
  - Automatic stop Before Entering Front Comb to Prevent Rapture in Case of Abnormal Bending of a Step
  - Automatic stop in Case of Brake of Sag of Step–Chain
  - Automatic stop in Case of Over or Under–Speed
  - Automatic stop in Case of Unintended Reverse Movement
  - Yellow Comb Segments Installed to Attract Passenger’s Attention About the Beginning and End of Position of the Travel.
  - Stop Buttons at Both Ends Enable Persons to Activate Emergency Stop.
  - Automatic stop in Case of Obstruction Between Skirting & Steps
  - Safety Device to Prevent Start During Inspection or Maintenance
  - Flourescent Lights to Attract Passenger’s Attention About the Beginning and End Position of the Travel.
  - The Alarm is Activated When Starting the to Alert Passengers.
  - Automatic stop in Case of Speed Difference Between Steps & Handrail of More than %15.
  - Display Mounted on the Skirts Boards Indicate Error or Need for Maintenance.
  - Installed Above the Steps to Prevent Object Touching the Skirt Panel or Something into the Gap Between Skirt & Steps.
  - Automatic Stop in Case Missing Steps are Detected.
  - Automatic Stop When the Door Board is Opened.
- 
- Automatic stop in Case the Drive Chain Brakes or is Stretched Beyond an Allowable Limit.
  - Prevents Skidding in Case of Broken Chain or Brake Failure.



## 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. .

## پله برقی

امروزه با افزایش مراکز تجاری، فروشگاه‌ها و پروژه‌های شهرسازی که مبتنی بر گسترش معابر و بزرگراه‌هاست، پله برقی از اجزای محیطی در شهر محسوب می‌شود که بیشترین کاربرد را در اماکن عمومی، متروها، پایانه‌های مسافری و فروشگاه‌های بزرگ دارد. اهمیت این موضوع و همچنین فقدان سیستمی که با شرایط جوی و محیطی ایران سازگار باشد، مجموعه‌ی بزرگ بهران را بر آن داشت تا با استفاده از سالها تجربه خود، اقدام به طراحی و تولید پله برقی‌ها و پیاده‌روهای متحرکی نماید که با فناوریهای نوین جهانی همخوانی کامل دارند.

گروه صنعتی آسانسور و پله برقی بهران با به کارگیری برترین دانش و تکنولوژی روز دنیا و بهره‌گیری از متخصصین کار آزموده‌ی خود در بخش تحقیق و توسعه، با راه اندازی واحدهای استاندارد و کنترل کیفی، مطمئن تر از هر زمان دیگری گام برداشت و این امر موجب شد تا بهران، موجبات اعتماد سازی هر چه بیشتر را در بازار ایران نسبت به محصولات خود فراهم آورد و در مدت زمان کوتاهی به برترین کیفیت در زمینه تولید پله برقی دست یابد.

طراحی، تولید، نصب و راه اندازی و همچنین خدمات پشتیبانی گسترده، از اصلی ترین بخش‌هایی است که گروه صنعتی بهران بر روی آن‌ها تمرکز دارد. پله برقی و پیاده‌روهای متحرک بهران با همکاری معتبرترین شرکت‌های بین‌المللی و مطابق با استاندارد EN115 تولید می‌گردد.

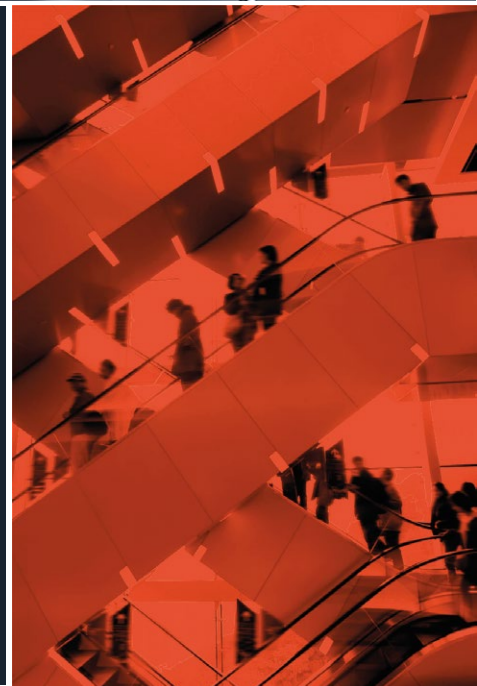


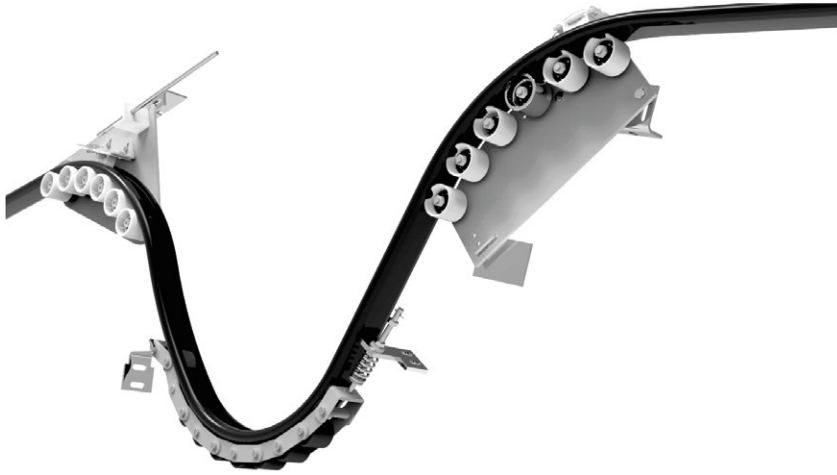


پله برقی های بهران در ارتفاع و طرح های مختلف با عرض ۸۰ و ۱۰۰ سانتی متر و بازو ایای ۳۰ و ۳۵ درجه تولید می گردند. در این محصولات آخرین فناوری ها در صنعت پله برقی لحاظ شده است.

پیاده روهای متحرک بهران نیز در زوایای مختلف به بازار عرضه می شوند. پیاده روهای ۱۱، ۱۰، ۱۲ و ۱۳ درجه دارای عرض های ۸۰ و ۱۰۰ سانتی متر می باشند و پیاده روها با زاویه صفر درجه دارای عرض های ۱۰۰، ۸۰، ۱۲۰ و ۱۴۰ سانتی متر هستند.

از پله برقی ها و پیاده روهای متحرک بهران می توان در دو حالت معمولی و پرتراфик در پروژه های فضای باز، فضای سرپوشیده و نیمه سرپوشیده استفاده نمود.





### Transportation of people in comfort

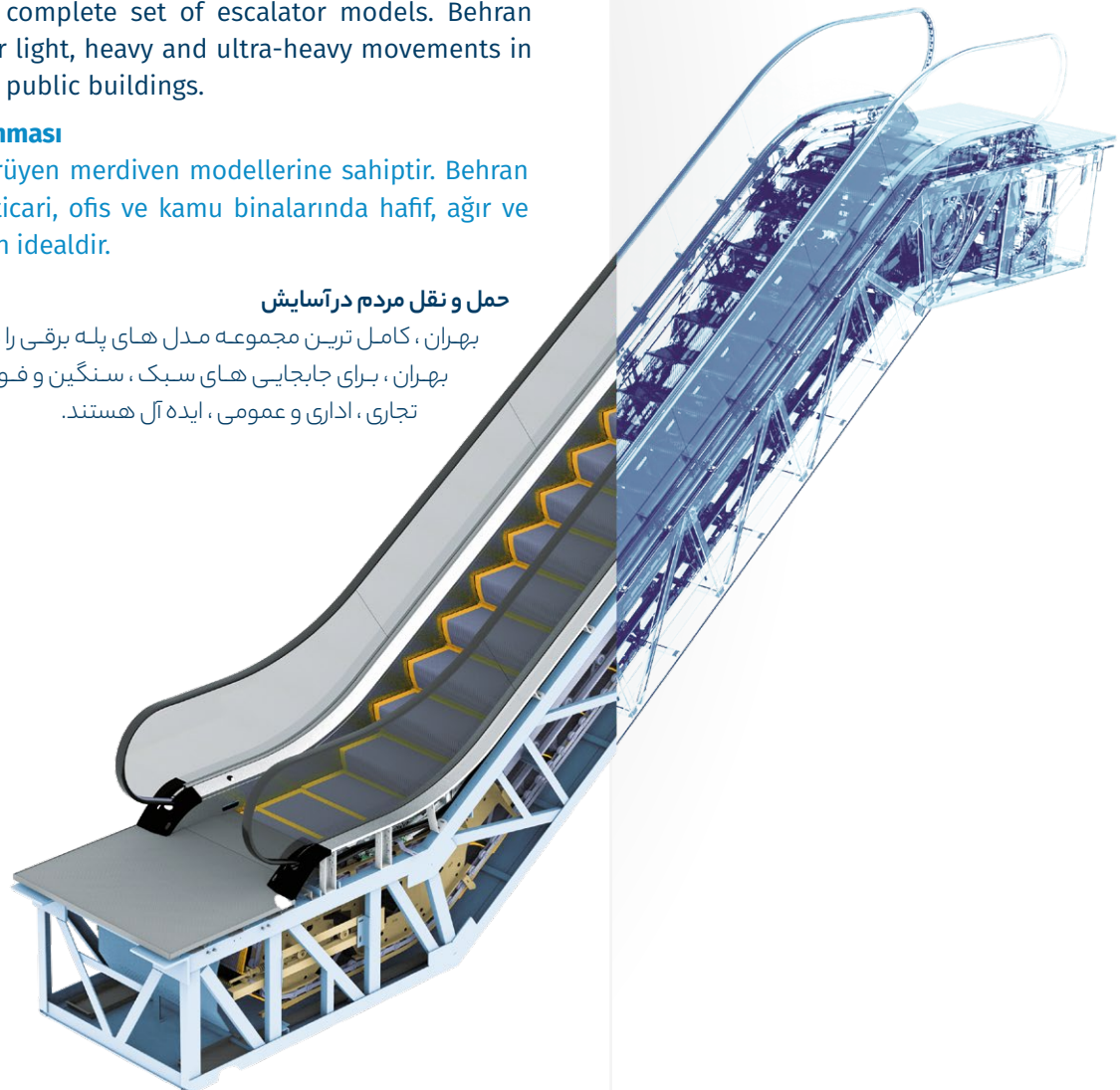
Behran has the most complete set of escalator models. Behran escalators are ideal for light, heavy and ultra-heavy movements in commercial, office and public buildings.

### 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 مردم در آسایش

بهران، کامل ترین مجموعه مدل های پله برقی را در اختیار دارد. پله برقی های بهران، برای جایجایی های سبک، سنگین و فوق سنگین در ساختمان های تجاری، اداری و عمومی، ایده آل هستند.



### Behran elektrikli köprü ailesi

- ◆ Üstün Geçiş
- ◆ Zor Geçiş
- ◆ Ultra zor iş (Toplu Taşıma)

### Çalışma ortamları:

- ◆ Kapalı
- ◆ Dış mekan

### Üstün Geçiş

Geçici kuruşumlarının 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 tasarımda ticari komplekslerdeki küçük boşluktan dolayı çoğunlukla 35 derecelik bir açıyla kullanılır, ancak 30 derecelik bir açı da üretilebilir.

Butip yürüyen merdivenlerde güzelliğin önemi nedeniyle korkuluklar 10 mm kalınlığında ısıtmalı camdan yapılmıştır.

### Zor Geçiş

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 helis dişli kutuları kullanılmıştır.

### Ultra zor iş (Toplu Taşıma)

Bu tip yürüyen merdiven, son derece yüksek kapasitesi 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.

### خانواده پلی برقی های بهران

- ◆ حمل و نقل تجاری
- ◆ حمل و نقل یا ترافیک بالا
- ◆ حمل و نقل با ترافیک بسیار بالا

### محیطهای عملیاتی

- ◆ فضای بسته
- ◆ فضای باز

### تجاری (Supreme Transit)

این نوع پله برقی ها به علت محل استفاده و شرایط کارکرد و بر اساس بازه کاری ۱۲ الی ۱۶ ساعت طراحی شده اند تا در کنار مقرون به صرفه بودن، جابجایی نفرات مجتمع های تجاری را بصورت کامل انجام دهند.

در این نوع طراحی به علت فضای کم در مجتمع های تجاری، بیشتر در زاویه ۳۵ درجه استفاده می گردد ولیکن زاویه ۳۰ درجه نیز قابل تولید است.

به علت اهمیت زیبایی در این نوع پله برقی ها، نرده ها از نوع شیشه حرارت دیده به ضخامت ۱۰ میلیمتر می باشد.

### سخت کار (Mass Transit)

این نوع پله برقی ها نسبت به نوع supreme برای ظرفیت و حجم کاری بالاتری طراحی شده اند به نحوی که تا ۲۰ ساعت در روز قابلیت کار بصورت پیوسته را دارا می باشند.

به علت اهمیت و ظرفیت بالای این نوع پله برقی ها بیشتر برای خطوط مترو با نرده های استیل و برای فرودگاه ها، از نوع نرده شیشه به جهت اهمیت تزئینات در فرودگاه استفاده می گردد.

این نوع پله برقی ها به سبب اهمیت راندمان بالای تجهیزات از گیربکس های هلیکال در آنها استفاده شده است.

### فوق سخت کار (Mass plus Transit)

این نوع پله برقی ها به جهت ظرفیت فوق العاده بالا و زمان کارکرد ۲۴ ساعته و یا استفاده در ارتفاع های بیش از ۱۴ متر از نوع پله برقی با زنجیر های خارجی ( roller outside chain ) استفاده می گردد.

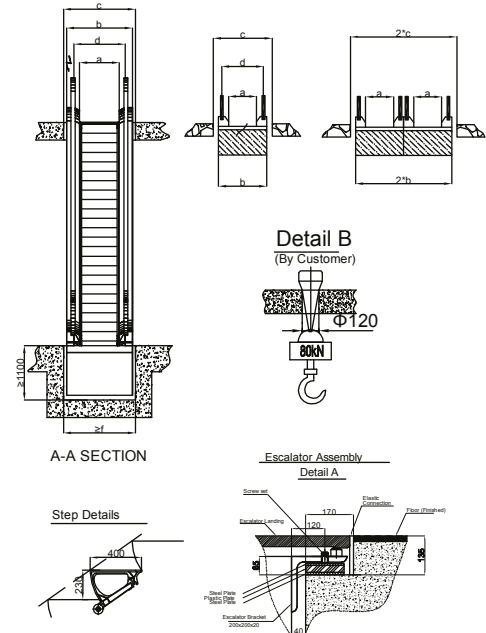
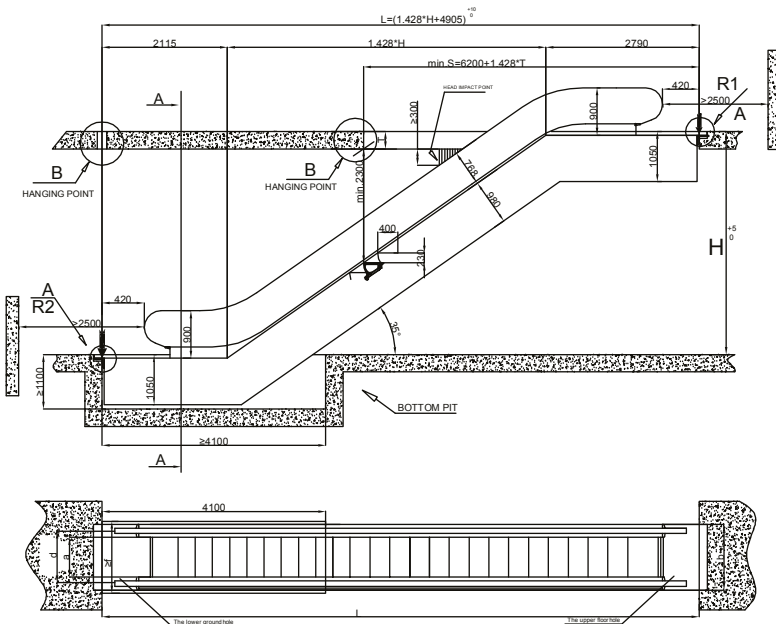
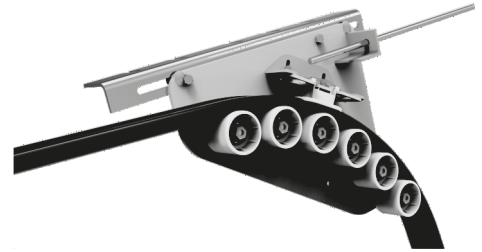
این نوع پله برقی ها به جهت محل استفاده، از نوع نرده استیل در آنها استفاده می گردد. و ضریب ایمنی زنجیر حداقل ۶ را خواهند داشت.

همچنین در نوع Mass Plus Transit زاویه ۳۰ درجه طراحی می گردد.



# Parameter Construction Layout

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



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

Note 1: 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.  
 Note 2: 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

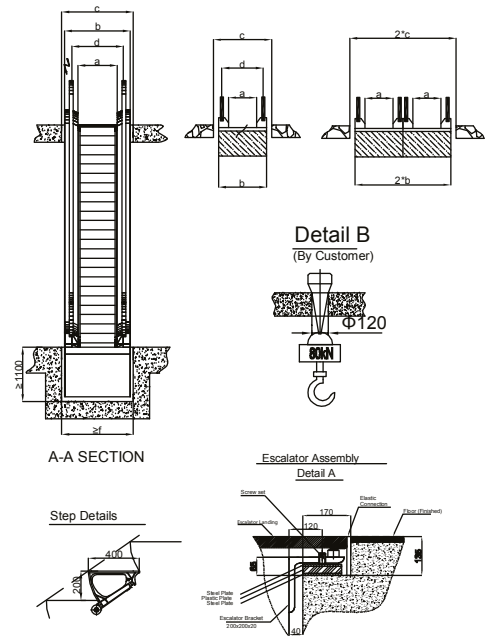
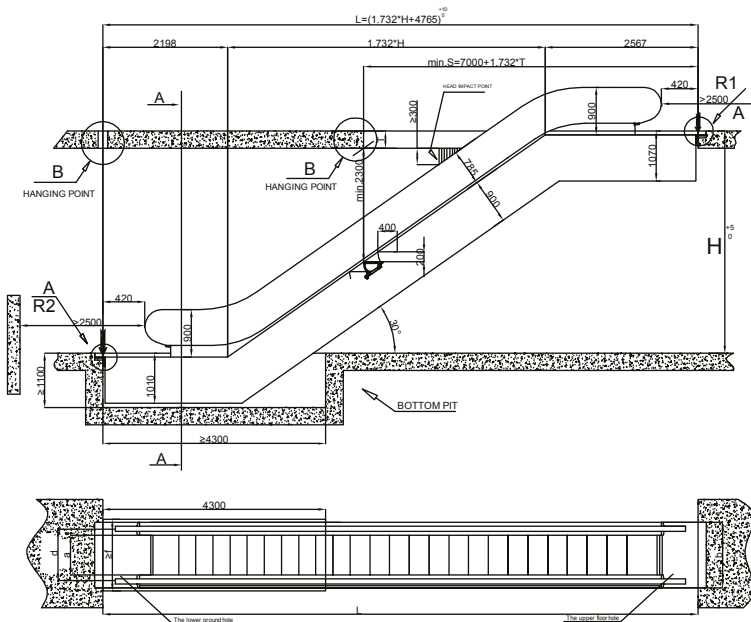
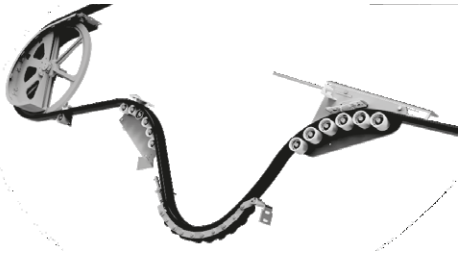
step width	600	800	1000	Remark		
R1 (Kn)	3.5 x L+16.5	4 x L+16.5	4.5 x L+19.5	L Unit is m		
R2 (Kn)	3.5 x L+11	4 x L+12	4.5 x L+12.5			
Machine Power	5.5 Kw	3 ≤ H ≤ 6	3 ≤ H ≤ 4		3 ≤ H ≤ 3.5	12.5 A
	8 kw	-	4 < H ≤ 6	3.5 < H ≤ 4.8	17.5 A	
	11 kw	-	-	4.8 < H ≤ 6	23.5 A	

### Standard specification and size Unit (mm)

Model	BLF-30-60k	BLF-30-80k	BLF-30-100k	
step width	a	600	800	1000
Decoration width	b	1140	1340	1540
Construction layout openin width	c	1260	1460	1660
Handrail spacer	d	838	1038	1238
Safe construction	e	1718	1918	2118
Construction layout openin width	f	1260	1460	1660

# Parameter Construction Layout

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



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

Note 1: 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.  
 Note 2: 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

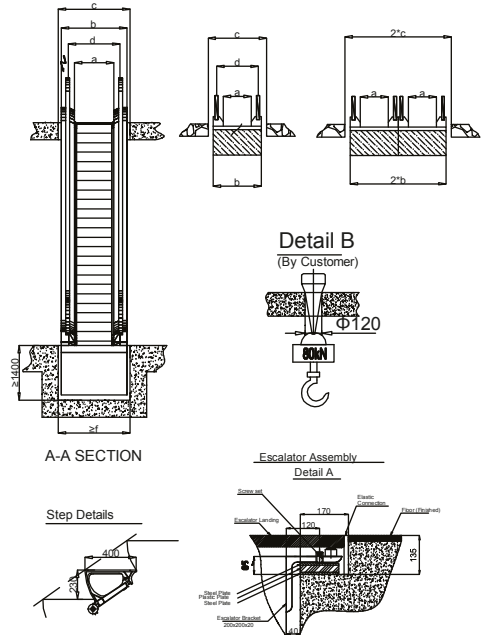
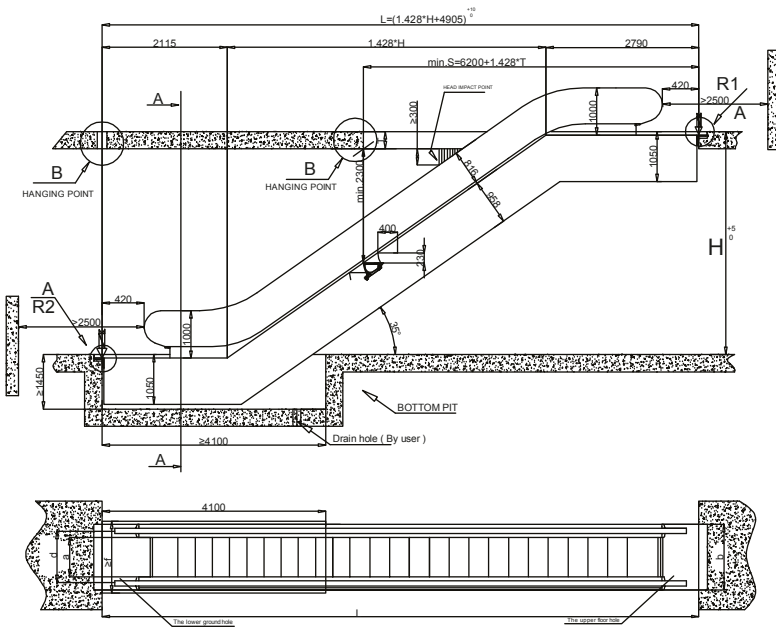
step width	600	800	1000	Remark	
R1 (Kn)	3.5 x L+16.5	4 x L+16.5	4.5 x L+19.5	L Unit is m	
R2 (Kn)	3.5 x L+11	4 x L+12	4.5 x L+12.5		
Machine Power	5.5 Kw	8 kw	11 kw		Current
	3 ≤ H ≤ 6	3 ≤ H ≤ 4	3 ≤ H ≤ 3.5	12.5 A	
	-	4 < H ≤ 6	3.5 < H ≤ 4.8	17.5 A	
	-	-	4.8 < H ≤ 6	23.5 A	

### Standard specification and size Unit (mm)

Model	BLF-30-60k	BLF-30-80k	BLF-30-100k	
step width	a	600	800	1000
Decoration width	b	1140	1340	1540
Construction layout openin width	c	1260	1460	1660
Handrail spacer	d	838	1038	1238
Safe construction	e	1718	1918	2118
Construction layout openin width	f	1260	1460	1660

# Parameter Construction Layout

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



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

Note 1: 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.  
Note 2: 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

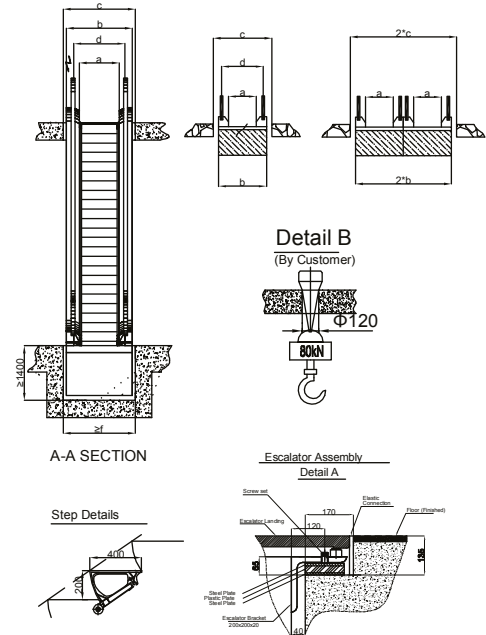
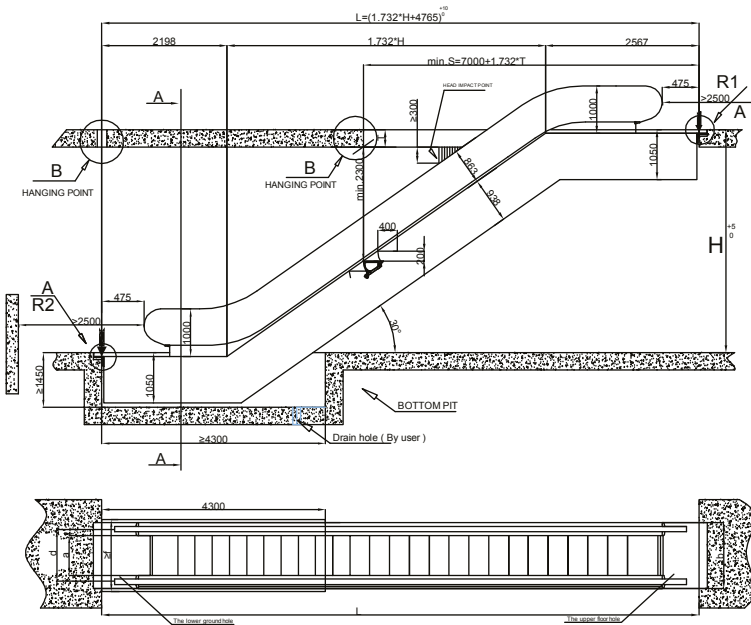
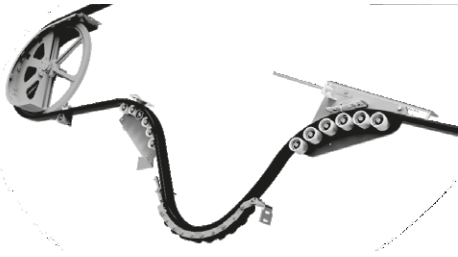
step width	600	800	1000	Remark	
R1 (Kn)	3.5 x L+16.5	4 x L+16.5	4.5 x L+19.5	L Unit is m	
R2 (Kn)	3.5 x L+11	4 x L+12	4.5 x L+12.5		
Machine Power	5.5 Kw	3 ≤ H ≤ 6	3 ≤ H ≤ 4		3 ≤ H ≤ 3.5
	8 kw	-	4 < H ≤ 6	3.5 < H ≤ 4.8	17.5 A
	11 kw	-	-	4.8 < H ≤ 6	23.5 A

## Standard specification and size Unit (mm)

Model		BLF-30-60k	BLF-30-80k	BLF-30-100k
step width	a	600	800	1000
Decoration width	b	1140	1340	1540
Construction layout openin width	c	1260	1460	1660
Handrail spacer	d	838	1038	1238
Safe construction layout opening width	e	1718	1918	2118
Construction layout openin width	f	1260	1460	1660
Threaded steel PCS	g	4	5	6

# Parameter Construction Layout

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



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

Note 1: 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.  
Note 2: 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

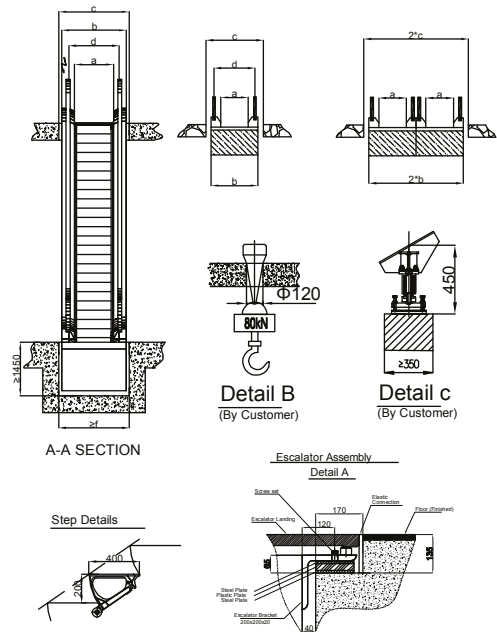
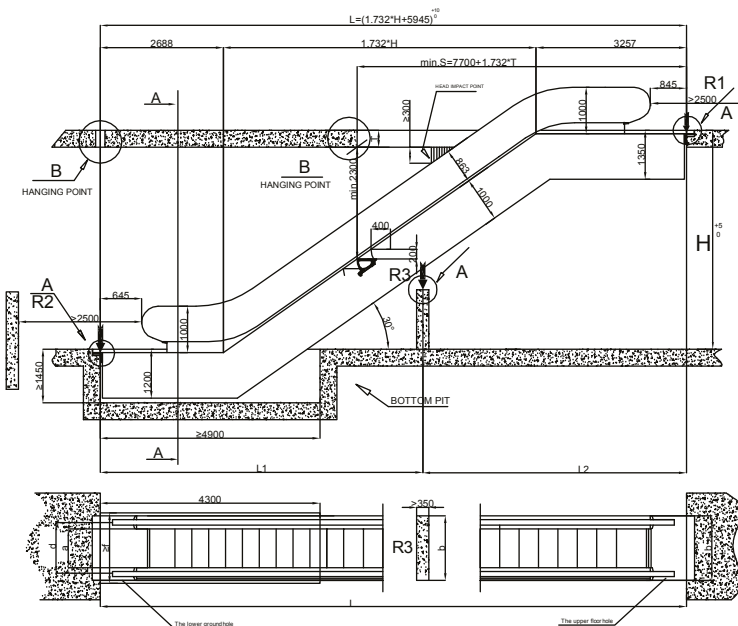
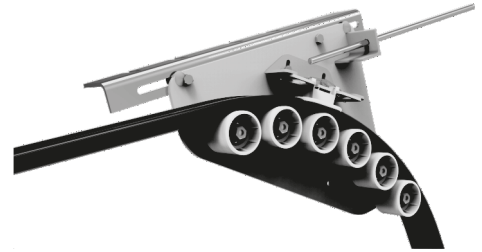
step width	600	800	1000	Remark	
R1 (Kn)	$3.5 \times L + 16.5$	$4 \times L + 16.5$	$4.5 \times L + 19.5$	L Unit is m	
R2 (Kn)	$3.5 \times L + 11$	$4 \times L + 12$	$4.5 \times L + 12.5$		
Machine Power	5.5 Kw	8 kw	11 kw		Current
	$3 \leq H \leq 6$	$3 \leq H \leq 4$	$3 \leq H \leq 3.5$	12.5 A	
	-	$4 < H \leq 6$	$3.5 < H \leq 4.8$	17.5 A	
	-	-	$4.8 < H \leq 6$	23.5 A	

## Standard specification and size Unit (mm)

Model		BLF-30-60k	BLF-30-80k	BLF-30-100k
step width	a	600	800	1000
Decoration width	b	1140	1340	1540
Construction layout openin width	c	1260	1460	1660
Handrail spacer	d	838	1038	1238
Safe construction layout opening width	e	1718	1918	2118
Construction layout openin width	f	1260	1460	1660
Threaded steel PCS	g	4	5	6

# Parameter Construction Layout

BLXF-M-30°-Single | outdoor  
 3 steps horizontal – 0.5 – 0.65 m/s – Rise ≤ 8m



- ✓ For 600mm width/ the upper truss should be increased 550mm
- ✓ Middle support is required for height more than 5.7m
- ✓ To add Y-Δ capability to a VVVF system, the length of the upper truss should meet a 300mm increase.

**Note 1:** 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.  
**Note 2:** 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

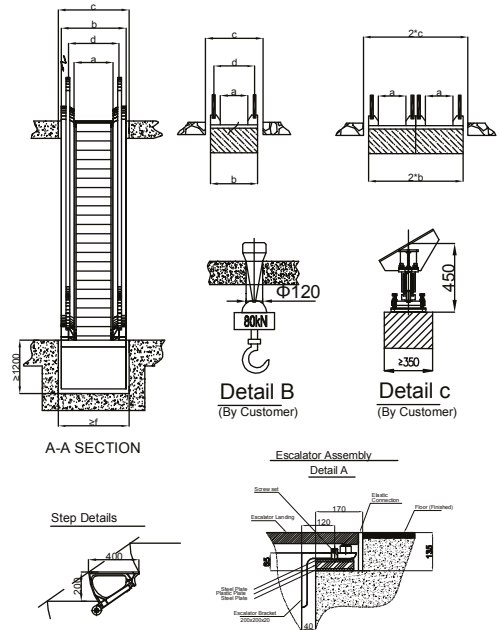
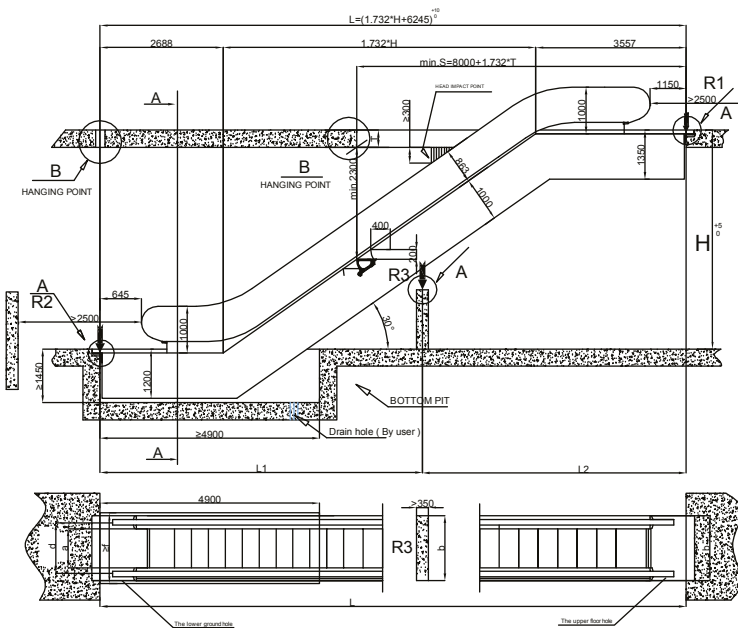
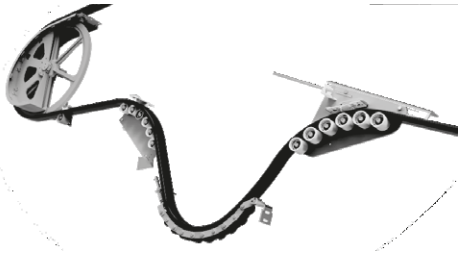
step width	600	800	1000	Remark	
R1 (Kn)	4.1 x L2+16.5	4.5 x L2+16.5	5 x L2+18.5	L Unit is m	
R2 (Kn)	4.1 x L1+8.8	4.5 x L1+8.8	5 x L1+9.5		
R3 (Kn)	4.25 x L+10.5	4.5 x L11.5	5.2 x L+12.5		
Machine Power	5.5 Kw	3 ≤ H ≤ 6	3 ≤ H ≤ 4	3 ≤ H ≤ 3.5	Current
	8 kw	6 < H ≤ 8	4 < H ≤ 6	3.5 < H ≤ 4.8	
	11 kw	8 < H ≤ 10	6 < H ≤ 8	4.8 < H ≤ 6	
	11 kw	10 < H ≤ 16	8 < H ≤ 10	6.5 < H ≤ 8	
	11 kw	-	10 < H ≤ 15	8 < H ≤ 12.5	
	11 kw	-	15 < H ≤ 16	12.5 < H ≤ 16	
Remark	Unit for L,L1,L2 is m, L1,L2 are less than 15 m				

### Standard specification and size Unit (mm)

Model	BLF-30-60k	BLF-30-80k	BLF-30-100k	
step width	a	600	800	1000
Decoration width	b	1200	1400	1600
Construction layout opening width	c	1260	1460	1660
Handrail spacer	d	910	1110	1310
Safe construction layout opening width	e	1790	1990	2190
Construction layout opening width	f	1260	1460	1660
Threaded steel PCS	g	4	5	6

# Parameter Construction Layout

BLXF-M-30°-Single | indoor  
3 steps horizontal - 0.5 - 0.65 m/s - Rise ≤ 16 m



- ✓ For 600mm width/ the upper truss should be increased 550mm
- ✓ Middle support is required for height more than 5.7m
- ✓ To add Y-Δ capability to a VVVF system, the length of the upper truss should meet a 300mm increase.

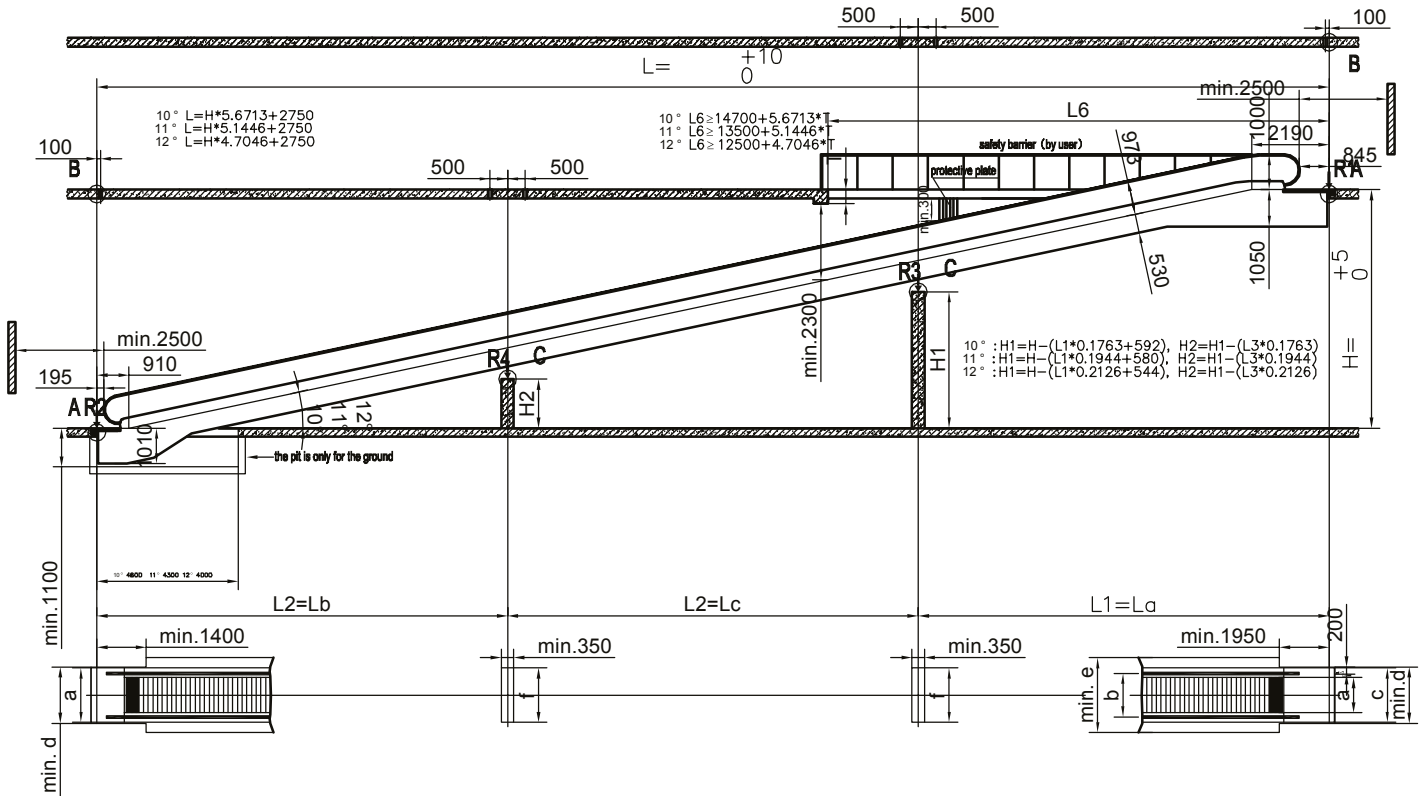
Note 1: A vertical anti-pinch plate that has no acute angle edge should be set on the handrail belt in the junction between escalator and floorslab. If the distance between the outer edge of the handrail belt and any obstruction is greater than 400mm, it does not have to install the anti-pinch plate.  
 Note 2: 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

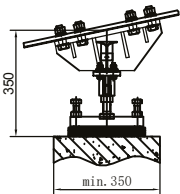
step width	600	800	1000	Remark	
R1 (Kn)	4.1 x L2+16.5	4.5 x L2+16.5	5 x L2+18.5	L Unit is m	
R2 (Kn)	4.1 x L1+8.8	4.5 x L1+8.8	5 x L1+9.5		
R3 (Kn)	4.25 x L+10.5	4.5 x L11.5	5.2 x L+12.5		
Machine Power	5.5 Kw	3 ≤ H ≤ 6	3 ≤ H ≤ 4	3 ≤ H ≤ 3.5	Current
	8 kw	6 < H ≤ 8	4 < H ≤ 6	3.5 < H ≤ 4.8	
	11 kw	8 < H ≤ 10	6 < H ≤ 8	4.8 < H ≤ 6	
	11 kw	10 < H ≤ 16	8 < H ≤ 10	6.5 < H ≤ 8	
	11 kw	-	10 < H ≤ 15	8 < H ≤ 12.5	
	11 kw	-	15 < H ≤ 16	12.5 < H ≤ 16	
Remark	Unit for L,L1,L2 is m, L1,L2 are less than 15 m				

## Standard specification and size Unit (mm)

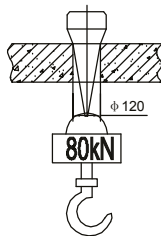
Model		BLF-30-60k	BLF-30-80k	BLF-30-100k
step width	a	600	800	1000
Decoration width	b	1200	1400	1600
Construction layout opening width	c	1260	1460	1660
Handrail spacer	d	910	1110	1310
Safe construction layout opening width	e	1790	1990	2190
Construction layout opening width	f	1260	1460	1660
Threaded steel PCS	g	4	5	6



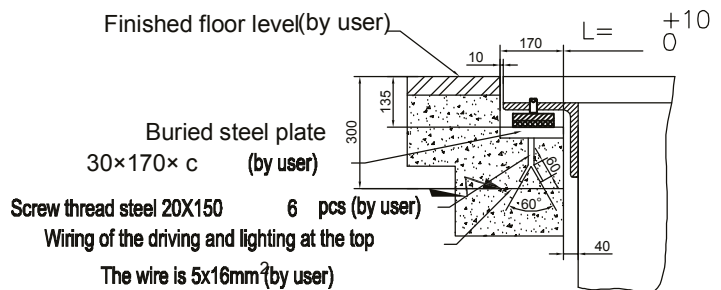
Detail C

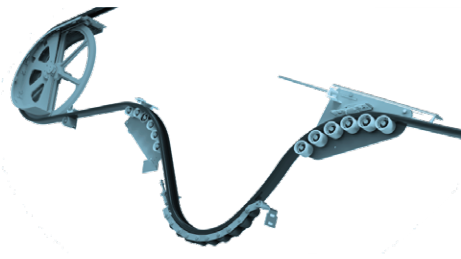


Detail B



Detail A





## Parameter Construction Layout

B L R F / B L R B - Single | indoor  
0.5 m/s – Rise ≤ 8 m

Supporting Force		
without middle supporting (kN)	with one middle supporting (kN)	with tow middle supporting (kN)
R1= L x q + M	R1= La x q + M	R1= La x q + M
	R2= Lb x q + M	R2= Lb x q + M
R2= L x q + M	R3=( La x Lb ) x 1.3 x q	R3=( La x Lc ) x 1.3 x q
		R4=( Lb x Lc ) x 1.3 x q

Note 1: 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.

Note 2: 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.

				Pallet width							
				800	1000						
				a	800	1000					
				b	1038	1238					
				c	1340	1540					
				d	1400	1600					
				e	1918	2118					
				f	1340	1540					
				g	5	6					
									1000		
									Height	Power	
									3 ≤ H ≤ 3.7	8 Kw	
									3.7 < H ≤ 4.6	11 Kw	
									4.6 < H ≤ 4.9	15 Kw	
									4.9 < H ≤ 6.6	2x11 Kw	
									3 ≤ H ≤ 4.5	8 Kw	
									4.5 < H ≤ 5.8	11 Kw	
									3 ≤ H ≤ 4.9	8 Kw	
									5.8 < H ≤ 6.6	15 Kw	
									4.1 < H ≤ 5.1	11 Kw	
									3 ≤ H ≤ 5	8 Kw	
									5.1 < H ≤ 5.5	15 Kw	
									5 < H ≤ 6.4	11 Kw	
									5.5 < H ≤ 7.3	2x11 Kw	
									6.4 < H ≤ 7.3	15 Kw	
									3 ≤ H ≤ 4.5	8 Kw	
									4.5 < H ≤ 5.6	11 Kw	
									3 ≤ H ≤ 5.5	8 Kw	
									5.5 < H ≤ 7	11 Kw	
									5.6 < H ≤ 6	15 Kw	
									7 < H ≤ 8	15 Kw	
									6 < H ≤ 8	2x11 Kw	
Supporting force parameter	q	M	N	e	f	g					
800	0.0039	9.5	4.5	f	1340	1540					
1000	0.0045	11	5	g	5	6					
Angle	rise		Middle Supporting		La	Lb	Lc	800		1000	
	From	To	R3	R4				Height	Power	Height	Power
10°	1297	2178	-	-	-	-	-	3 ≤ H ≤ 4.5	8 Kw	4.9 < H ≤ 6.6	2x11 Kw
	2197	4823	1	-	L/2	L/2	-	4.5 < H ≤ 5.8	11 Kw	3 ≤ H ≤ 4.9	8 Kw
	4824	6600	1	1	L/3	L/3	L/3	5.8 < H ≤ 6.6	15 Kw	4.1 < H ≤ 5.1	11 Kw
11°	1449	2400	-	-	-	-	-	3 ≤ H ≤ 5	8 Kw	5.1 < H ≤ 5.5	15 Kw
	2421	5335	1	-	L/2	L/2	-	5 < H ≤ 6.4	11 Kw	5.5 < H ≤ 7.3	2x11 Kw
	5336	7300	1	1	L/3	L/3	L/3	6.4 < H ≤ 7.3	15 Kw	3 ≤ H ≤ 4.5	8 Kw
12°	1601	2645	-	-	-	-	-	3 ≤ H ≤ 5.5	8 Kw	4.5 < H ≤ 5.6	11 Kw
	2645	5830	1	-	L/2	L/2	-	5.5 < H ≤ 7	11 Kw	5.6 < H ≤ 6	15 Kw
	5830	8000	1	1	L/3	L/3	L/3	7 < H ≤ 8	15 Kw	6 < H ≤ 8	2x11 Kw



### چیدمان تک واحدی

در این شیوه، پیوند واحد بین دو سطح با یک جهت تردد انجام می‌شود و تغییر جهت پله‌برقی بسته به جریان تردد است.

### چیدمان پیوسته (یک جهت حرکتی)

این چیدمان برای راحتی مسافران مناسب است، اما برای اجرا به فضای کافی نیاز دارد و عمدتاً در فروشگاه‌های کوچک به کار می‌رود.

### چیدمان متقاطع (یک جهت حرکتی)

این چیدمان، از آنجایی که توجه مسافران به خط سیر کوتاه جلب می‌شود، کمی ناخوشایند است؛ اما فضای کمتری برای اجرا نیاز دارد و برای فروشگاه‌ها مناسب است.

### چیدمان ضربدری (تردد دو طرفه)

برای حمل‌ونقل سریع با بالاترین ظرفیت مناسب است و به طور عمده در فروشگاه‌های بزرگ، ساختمان‌های عمومی و ایستگاه‌های حمل‌ونقل به کار می‌رود.

### چیدمان موازی و متقطع (تردد دو طرفه)

نصب این پله‌برقی‌ها، از آنجایی که به پوشش جانبی احتیاج ندارند، هزینه کمتری دارد و از آنجایی که توجه مسافران به خط سیر کوتاه جلب می‌شود، این پله‌برقی‌ها برای فروشگاه‌داران مناسب هستند.

### Tek birim makyaj

Tek trafik yönü ile yalnızca iki seviye arasında bağlantı kurun. Yürüyen merdiven, olası trafik miktarına bağlı olarak yön değiştirir.

### Sürekli makyaj

(Seyahat etmenin bir yolu) Yolcuların rahatlığı için uygundur, ancak yeterli alan gerektirir ve çoğunlukla küçük dükkanlarda kullanılır.

### Kesintili düzenleme (bir hareket yönü)

Müşteriler küçük yollara dikkat çekebildiğinden, yolcular için biraz rahatsız edici, ancak daha az yer kaplayan ve mağaza için elverişli.

### Çapraz, sürekli düzenleme (çift yönlü trafik)

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

### Paralel, kesintili düzenleme

(çift yönlü trafik) Hiçbir yanıl kaplamaya ihtiyaç duyulmadığından, ekonomik olarak kurulabilir ve müşterilerin küçük sapmalara dikkat çekebilmesi nedeniyle, mağaza sahipleri için uygundur.

### Single unit arrangement

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



### Continuous arrangement (one travel direction)

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



### 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.



### 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.



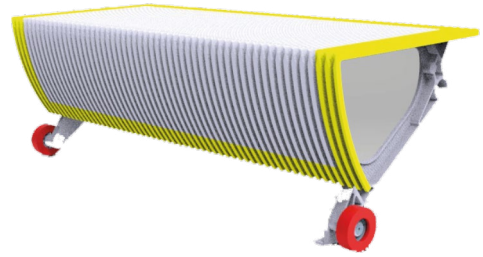
### Parallel, interrupted arrangement (two-way traffic)

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.

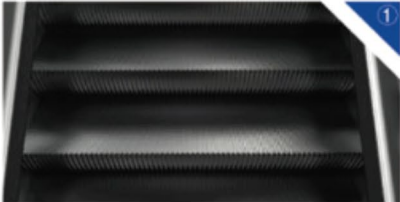


**JIN**  
BEHRAN





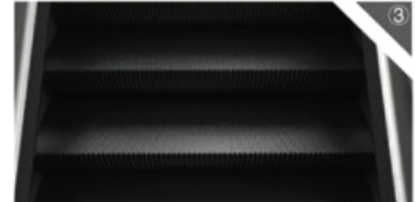
## // STEP COLOR



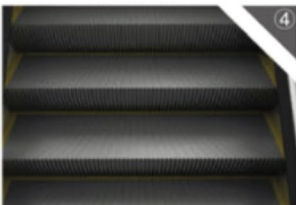
Black Stainless Steel  
(Standard Configuration for Indoor Escalator)



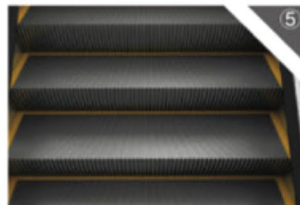
Silver Gray Aluminum Alloy  
(Standard Configuration for Outdoor Escalator)



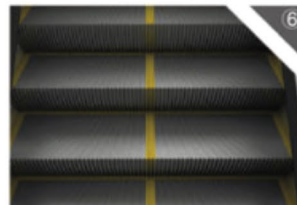
Black Aluminum Alloy  
(Optional)



Frame Spraying C-Type  
(Optional)



Frame Yellow Plastic C-Type  
(Optional)

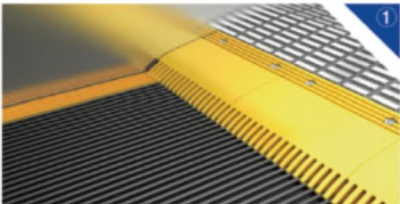


Frame Spraying E-Type  
(Optional)

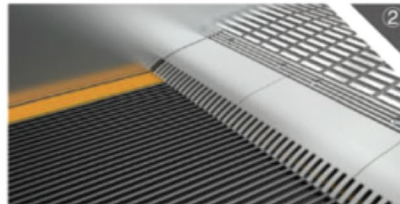


Frame Yellow Plastic E-Type  
(Optional)

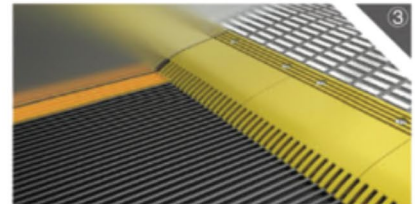
## // COMB TOOTH



Yellow Plastic  
(Standard)



Aluminum  
(Optional)



Aluminum Surface Yellow Paint  
(Optional)

## // LANDING PLATE



Aluminum Patch  
(Standard)



Stainless Steel Striped Patch  
(Optional)

## // INDICATOR



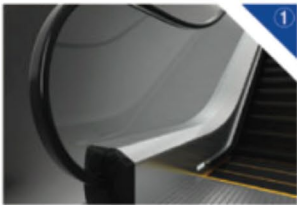
Transparent Plastic LED Display  
(Optional)



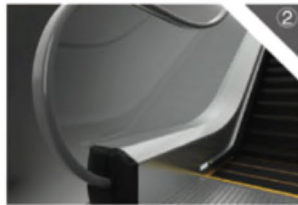
Black Plastic Dot Matrix Display  
(Optional)



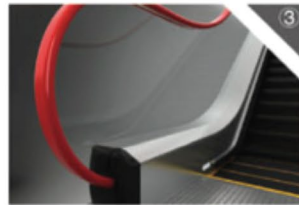
## // HANDRAIL COLOR



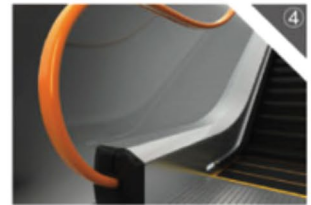
Black (Standard)



Gray (Optional)



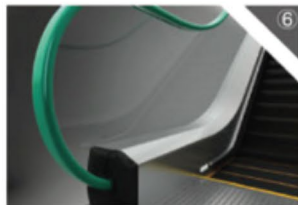
Red (Optional)



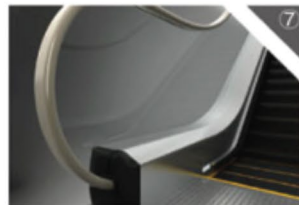
Orange (Optional)



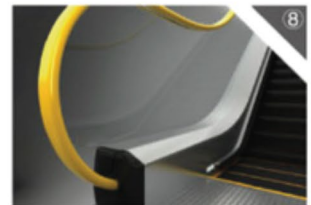
Blue (Optional)



Shallow Bluish Green (Optional)

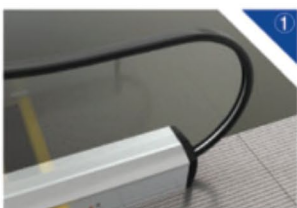


Light Brown (Optional)



Yellow (Optional)

## // BALUSTRADE COLOR



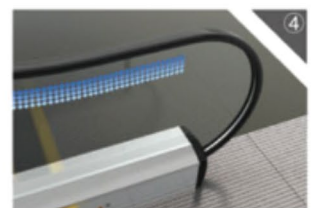
Transparent (Standard)



Gray

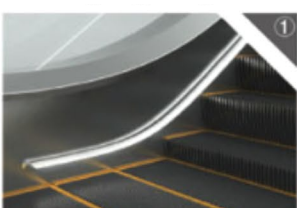


Bronze (Optional)

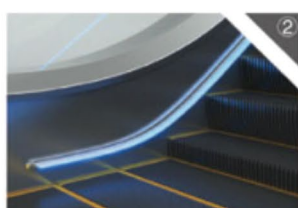


Transparent Silk Screen (Optional)

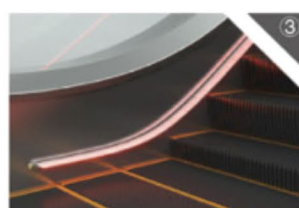
## // LIGHTING



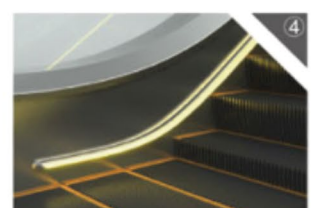
White (Optional)



Blue (Optional)



Red (Optional)



Yellow (Optional)

## Quality control laboratory

Behran Advanced Laboratory is equipped with the most modern testing and measuring devices for products with the aim of ensuring quality and safety.

In addition to this equipped laboratory, Behran Industrial Group has used the necessary inspection equipment and in order to test the products in real conditions, set up a test tower with a height of 50 meters, which has two laboratory elevators with a maximum speed of 3 meters per second. Has done

With the opening of HEAVY-DUTY's 14-meter-high Middle East Electric Stair Tower, the expansive complex has taken a major step toward improving the quality of its escalator products in line with European standards and is able to produce and market global quality products.

## Kalite kontrol laboratuvarı

Behran Advanced Laboratory, kalite ve güvenliği sağlamak amacıyla en modern test ve ürün test cihazları ile donatılmıştır.

Bu donanımlı laboratuvara ek olarak, Behran Industrial Group gerekli muayene ekipmanını kullanmış ve ürünleri gerçek koşullarda test etmek için, saniyede maksimum 3 metre hızda iki laboratuvar asansörüne sahip 50 metre yüksekliğinde bir test kulesi kurmuştur.

Yapıldı

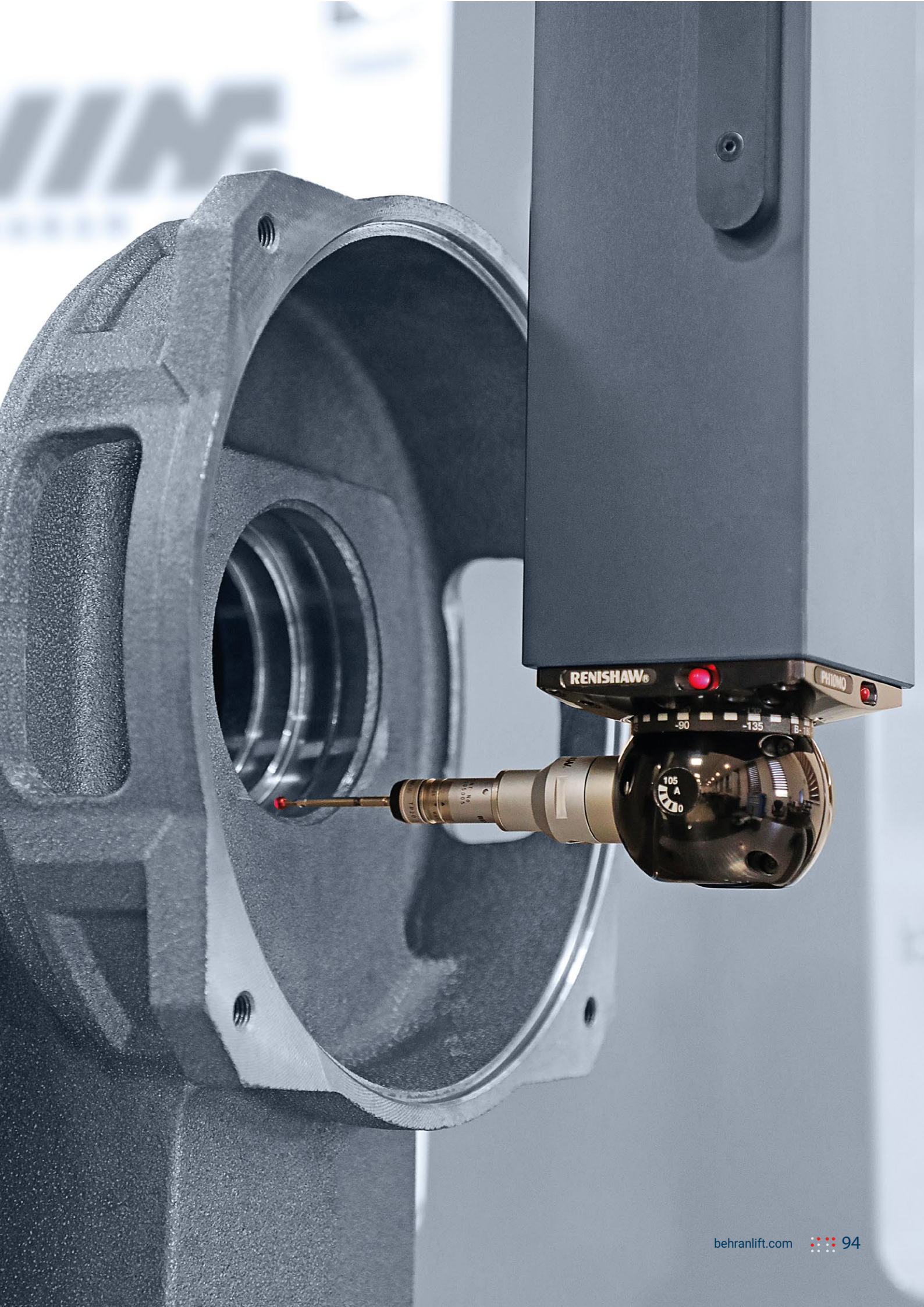
HEAVY-DUTY'nin 14 metre yüksekliğindeki Orta Doğu Elektrikli Merdiven Kulesi'nin açılmasıyla, geniş kompleks, yürüyen merdiven ürünlerinin kalitesini Avrupa standartlarına uygun olarak iyileştirmek

## آزمایشگاه کنترل کیفیت

آزمایشگاه پیشرفته بهران، مجهز به مدرن ترین دستگاه های تست و سنجش محصولات با هدف تضمین کیفیت و ایمنی است.

گروه صنعتی بهران، در کنار این آزمایشگاه مجهز، تجهیزات بازرسی لازم را نیز به کار گرفته و به منظور تست محصولات در شرایط واقعی، یک برج تست به ارتفاع ۵۰ متر که دارای دو دستگاه آسانسور آزمایشگاهی با سرعت حداکثر ۳ متر بر ثانیه است راه اندازی کرده است. این مجموعه صنعتی با افتتاح مترفع ترین برج تست پله برقی خاور میانه به ارتفاع ۱۴ متر از نوع گامی بزرگ برای HEAVY-DUTY ارتفاع سطح کیفی محصولات پله برقی خود مطابق با استاندارد اروپا برداشته و تا بتواند CE محصولات با کیفیت جهانی تولید و روانه بازار کند.





◆ Tehran metro lines 6 , 7      ◆ مترو | خط ۶ و ۷ تهران



<b>■ Elevator</b> Metro Line 6      17 Units Metro Line 7      64 Units		<b>■ Asansörler</b> Metro Hattı 6      17 adet Metro Hattı 7      64 adet		<b>■ آسانسور</b> خط ۶ مترو      ۱۷ دستگاه خط ۷ مترو      ۶۴ دستگاه	
<b>■ Escalator</b> Metro Line 6      98 Units Metro Line 7      111 Units		<b>■ Yürüyen merdiven</b> Metro Hattı 6      98 adet Metro Hattı 7      111 adet		<b>■ پله برقی</b> خط ۶ مترو      ۸۹ دستگاه خط ۷ مترو      ۱۱۱ دستگاه	

◆ Complexes of Tehran      ◆ مجتمع های تهران



<b>■ Elevator</b> Imam Khomeini Airport      8 Units Parliament      7 Units Fayyaz Bakhsh Hosp.      42 Units Masih Daneshvari Hosp.      41 Units		<b>■ Asansörler</b> İmam Humeyni Havalimanı      8 Adet Parlamento      7 Adet Fayaz Bakhsh Hastanesi.      42 Adet Masih Daneshvari Hasta.      41 Adet		<b>■ آسانسور</b> فرودگاه امام خمینی ره      ۸ دستگاه مجلس شورای اسلامی      ۷ دستگاه بیمارستان فیاض بخش      ۴۲ دستگاه بیمارستان مسیح دانشوری      ۴۱ دستگاه	
<b>■ Escalator</b> Imam Khomeini Airport      6 Units Tehran Railway      1 Units Welfare chain store      4 Units		<b>■ Yürüyen merdiven</b> İmam Humeyni Havalimanı      6 Adet Tahran Demiryolu      1 Adet Refah zinciri mağazası      4 Adet		<b>■ پله برقی</b> فرودگاه امام خمینی ره      ۶ دستگاه راه آهن تهران      ۱ دستگاه فروشگاه زنجیره ای رفاه      ۴ دستگاه	

# شهر تهران

## Tehran City



راه آهن جمهوری اسلامی ایران - ایستگاه تهران



مجتمع تجاری شمیران سنتر



ساختمان اداری مجلس شورای اسلامی ایران



## ◆ Tabriz City

## ◆ شهر تبریز



### ■ Elevator

Tabriz World Trade Center 3 Units

### ■ Escalator

Tabriz Metro 17 Units

Great Mosque of Tabriz 5 Units

### ■ Asansörler

Tebriz Dünya Ticaret Merkezi 17 adet

### ■ Yürüyen merdiven

Tebriz Metrosu 17 adet

Tebriz Ulu Camii 5 adet

### ■ آسانسور

۱۷ دستگاه برج تجارت جهانی تبریز

### ■ پله برقی

۱۷ دستگاه مترو تبریز

۵ دستگاه مصلى بزرگ تبریز

## ◆ All over IRAN

## ◆ سراسر ایران



### ■ Elevator

Imam Khomeini Airport 8 Units

Parliament 7 Units

Fayyaz Bakhsh Hosp. 42 Units

Masih Daneshvari Hosp. 41 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

### ■ Asansörler

İmam Humeyni Havalimanı 8 Adet

Parlamento 7 Adet

Fayaz Bakhsh Hastanesi. 42 Adet

Masih Daneshvari Hasta. 41 Adet

### ■ Yürüyen merdiven

Meşhed Demiryolu 36 Adet

Kashan Belediyesi 14 Adet

İmam Masum Türbesi 2 Adet

Al-Zahra Toplum Enstitüsü 4 Adet

Omid Sepehr Mashhad 10 Adet

Ati Center Meşhed Comp. 4 Adet

Irak El Beşir Şirketi 6 Adet

### ■ آسانسور

۸ دستگاه مترو هشتگرد

۶ دستگاه شمیران سنتر

۴ دستگاه برج آسمان بابلسر

۶ دستگاه مجتمع ستاره سرو

### ■ پله برقی

۳۶ دستگاه راه آهن مشهد

۱۴ دستگاه شهرداری کاشان

۲ دستگاه حرم حضرت معصومه

۴ دستگاه موسسه جامعه الزهرا

۱۰ دستگاه امید سپهر مشهد

۴ دستگاه مجتمع آتی سنتر مشهد

۶ دستگاه شرکت البشیر عراق

# سرتاسر ایران

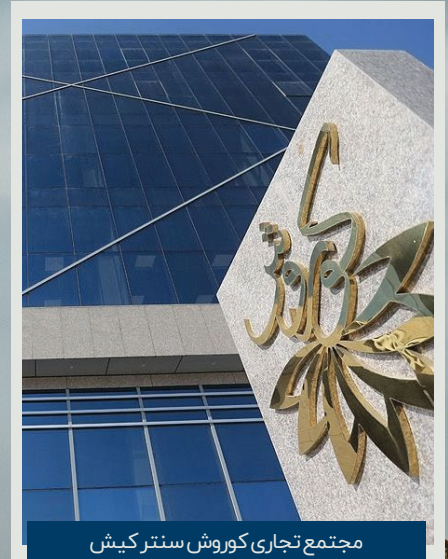
## All over IRAN



مجتمع تجاری آفتاب سنتر مشهد



راه آهن جمهوری اسلامی ایران - ایستگاه مشهد



مجتمع تجاری کوروش سنتر کیش

◆ Top Standard Company of 2020

◆ واحد نمونه استاندارد سال 1399



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

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

گروه صنعتی آسانسور و پله برقی بهران ، در راستای دستیابی به اهداف تبیین شده ی بلند مدت ، همواره بر مدار اهمیت به کیفیت محصولات خود حرکت کرده است . از این رو و با این نگرش ، بهران توانسته است مهر تایید و نشان استاندارد سازمان ملی استاندارد ایران را از آن خود سازد .

◆ All over IRAN

◆ دیگر موفقیت ها



استاندارد TUV intercert

Standard Tuv intercert  
Standart Tuv intercert



استاندارد CE اروپا

European CE standard  
Avrupa CE standardi



استاندارد ملی ایران

National Standard of Iran  
Iran Ulusal Standardi



استاندارد TUV intercert

Standard Tuv intercert  
Standart Tuv intercert



استاندارد EN115

EN115 standard  
EN 115 standardi




استاندارد EN81-1

EN81-1 standard  
EN81-1 standardi

◆ Behran Expansion Plan

◆ طرح توسعه بهران

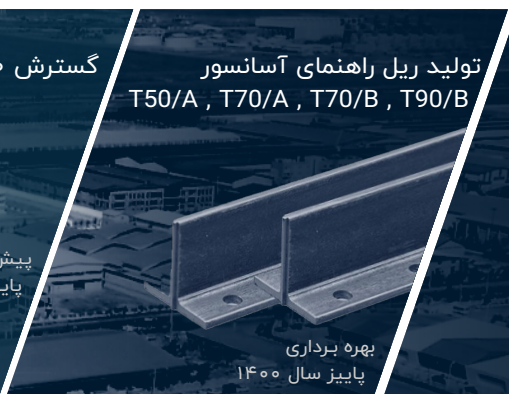
گسترش ۶۰/۰۰۰ متر مربع فضای تولید



پیش درآمد  
پاییز سال ۱۳۹۹

بهره برداری  
پاییز سال ۱۴۰۰

تولید ریل راهنمای آسانسور  
T50/A , T70/A , T70/B , T90/B



بهره برداری  
پاییز سال ۱۴۰۰

افزایش ظرفیت تولید پله برقی  
سالانه ۲۰۰۰ دستگاه



بهره برداری  
بهار سال ۱۴۰۰

# افتتاحیه

# شروع قرارداد



آذر ۹۹

بهره برداری



نصب و راه اندازی



تست نهایی عملکرد



ساخت پایه برقی ها



مهر ۹۹ عقد قرارداد



زمانبندی پروژه ی مترو تهران  
خط شش و هفت | دو ایستگاه  
۲۰ عدد پایه برقی سخت کار  
۱۰ عدد آسانسور پترافیک ویژه معلولین

# ۹۰ روز