

MACHINE ROOMLESS LIFT SYSTEM MAKİNA DAİRESİZ ASANSÖR SİSTEMİ

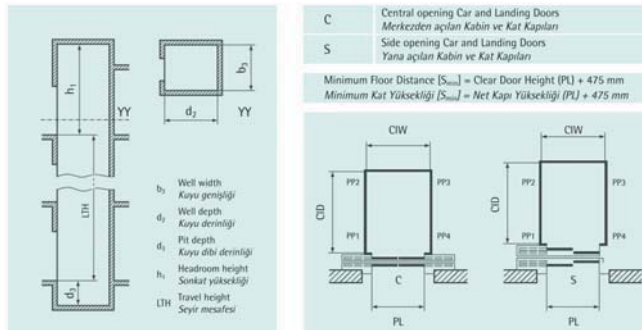
MRL W Line

320kg • 400kg • 450kg • 630kg • 800kg • 1000kg

STANDARD APLICATIONS / STANDARD UYGULAMALAR

Planning Information
Planlama Bilgileri

Layout Number Yerleşim Numarası	Number of Person Yüksek Sayısı	Rated Load Beyan Yüku	Car Weight Kabin Ağırlığı	Rated Speed Beyan Hız	Car Internal Dimensions Kabin İç Ölçüleri	Door Width Kapi Genşliđi	Door opening Kapi açılımı	Clear Well Dimensions Net Kuyu Ölçüleri	Min. Well Pit Min. Kuyu Dibi	Min. Headroom Min. Sınakat	Number of Car entrance Kabin giriş sayısı	Handicapped accessibility Özürü uluşabilirliđi
Q	P _{max}	V	CIW x CID	PL	C/S	b ₂ x d ₂	d ₃	h ₁	h ₁	Number of Car entrance Kabin giriş sayısı	Handicapped accessibility Özürü uluşabilirliđi	
320 R	4	320	750	1,00	0900 x 1000	700	S	1460 x 1375	1100	3630	1 ⁽¹⁾	
400 S	5	400	800	1,00	1100 x 1000	700	S	1660 x 1375	1100	3630	1 ⁽¹⁾	
450 L	6	450	815	1,00	1000 x 1200	700	S	1565 x 1575	1100	3630	1 ⁽¹⁾	
450 S	6	450	830	1,00	1000 x 1250	800	S	1565 x 1625	1100	3630	1 ⁽¹⁾	
630 G	8	630	910	1,00 / 1,60	1100 x 1400	900	S	1665 x 1775	1100 / 1200	3630 / 3780	1 ⁽¹⁾	♿ (1)
800 G	10	800	990	1,00 / 1,60	1350 x 1400	900	C	1940 x 1745	1100 / 1200	3670 / 3820	1 ⁽¹⁾	♿ (1)
1000 T	13	1000	1185	1,00 / 1,60	1100 x 2100	900	S	1680 x 2475	1100 / 1200	3670 / 3820	1 ⁽¹⁾	♿ (1)
1000 L	13	1000	1085	1,00 / 1,60	1750 x 1300	900	S	2330 x 1675	1100 / 1200	3670 / 3820	1 ⁽¹⁾	♿ (1)
1000 G	13	1000	1090	1,00 / 1,60	1600 x 1400	1100	C	2340 x 1745	1100 / 1200	3670 / 3820	1 ⁽¹⁾	♿ (1)
1000 C	13	1000	1160	1,00 / 1,60	2100 x 1100	1200	S	2680 x 1700	1100 / 1200	3670 / 3820	1 ⁽¹⁾	♿ (1)



EXCELLENCE IN COMPONENTS

Subject to change without notice / Tüm deđişlikler hakkında mahfuzdur /

MACHINE ROOMLESS LIFT SYSTEM MAKİNA DAİRESİZ ASANSÖR SİSTEMİ

MRL W Line

320kg • 400kg • 450kg • 630kg • 800kg • 1000kg

EXCELLENCE IN COMPONENTS



- System construction and components in accordance with Directive and standards.
- "Patent-safe" technical solution from Wittur.
- Modular system with interfaces for the usage of other components
- Pre Engineered layout drawings.
- Reduced installation time.
- The bigger part of loads are derived in the shaft pit.
- Minimal shaft dimensions.
- Low energy consumption.
- Environmental friendly solutions.
- Low maintenance.
- Customized solutions for special needs.

- Asansör Yönetmelik ve standartlarına uyumlu Sistem konstrüksiyonu ve aksamlar
- Wittur Patent güvenceli MRL sistemi
- Diđer ürünlerin kullanımına imkan veren uyumlu ve modüler yapı
- Ön mühendisliđi yapılmış yerleşim planları
- Kısaltılmış montaj süresi
- Yüklerin büyük bölümünü kuyu dibine aktaran sistem
- Minimum kuyu ölçüleri
- Düşük enerji tüketimi
- Çevre dostu çözüm
- Asgari bakım ihtiyacı
- Özel ihtiyaçlar için özelleştirilmiş çözümler

Subject to change without notice / Tüm deđişlikler hakkında mahfuzdur /

MACHINE ROOMLESS LIFT SYSTEM
MAKİNA DAİRESİZ ASANSÖR SİSTEMİ

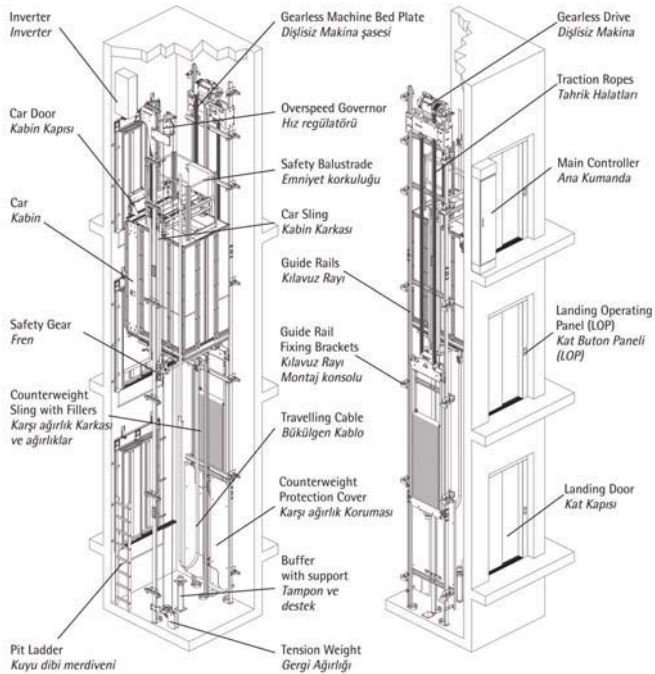
MRL W Line

320kg • 400kg • 450kg • 630kg • 800kg • 1000kg

ECOLINE / ISOLINE / CITYLINE / SPECIALINE

System and main components
Sistem ve ana aksamlar

EXCELLENCE IN COMPONENTS



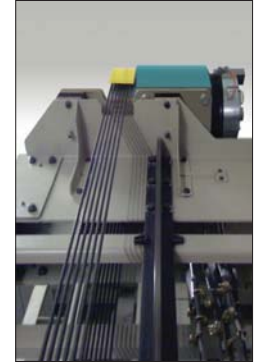
MRL W LINE GEARLESS DRIVE



MRL W LINE WELL



MRL W LINE HEADROOM



MRL W LINE MACHINE BED PLATE



HYDRA / EPP / RAL 7032



HYDRA / SST / 02-3010



CONTROLLER



COP & LOP



TORONTO



AMSTERDAM



ROMA

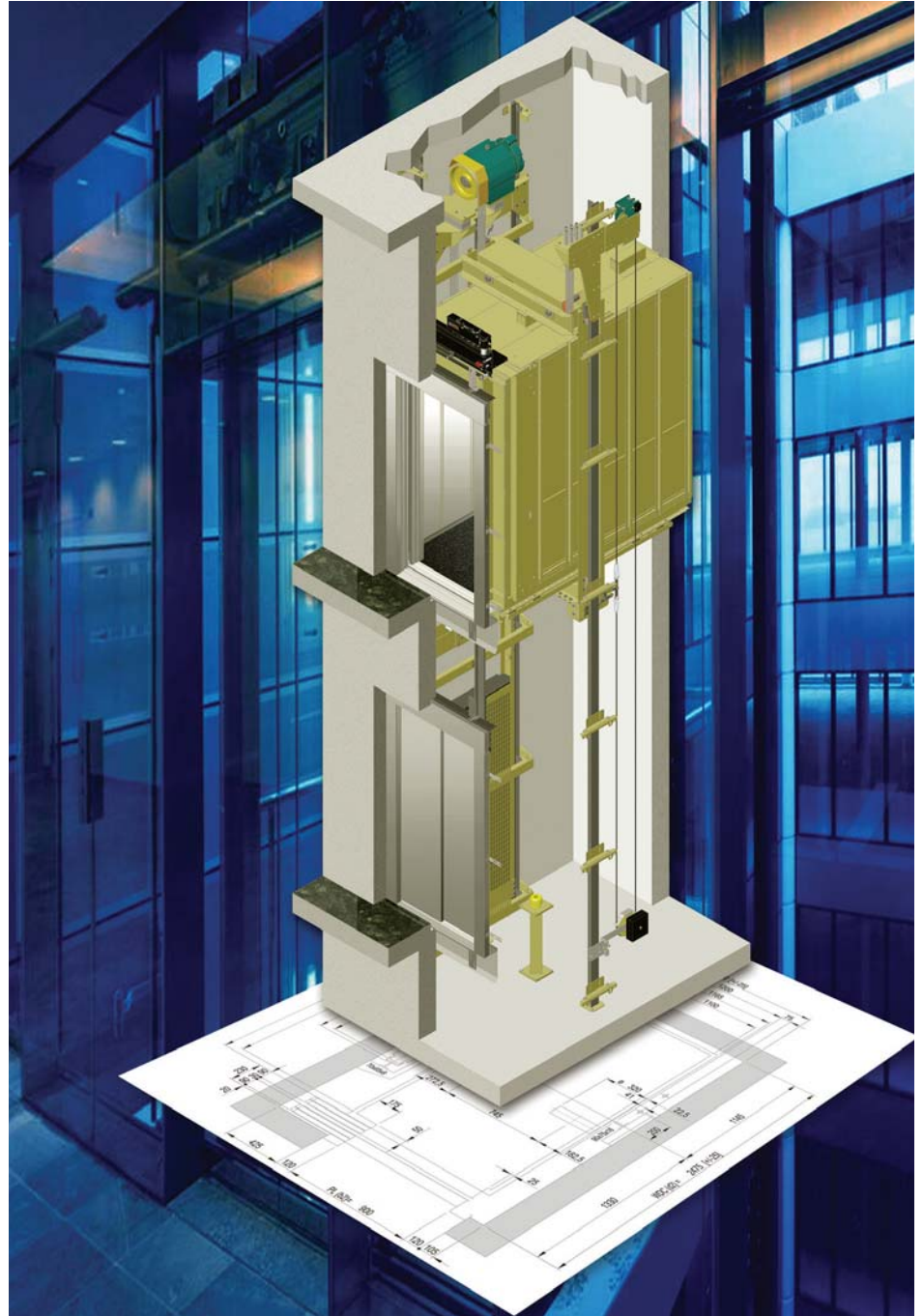


LOS ANGELES

MACHINE ROOMLESS LIFT SYSTEM
MAKINA DAİRESİZ ASANSÖR SİSTEMİ

MRL W Line

EXCELLENCE IN COMPONENTS



MRL W LINE

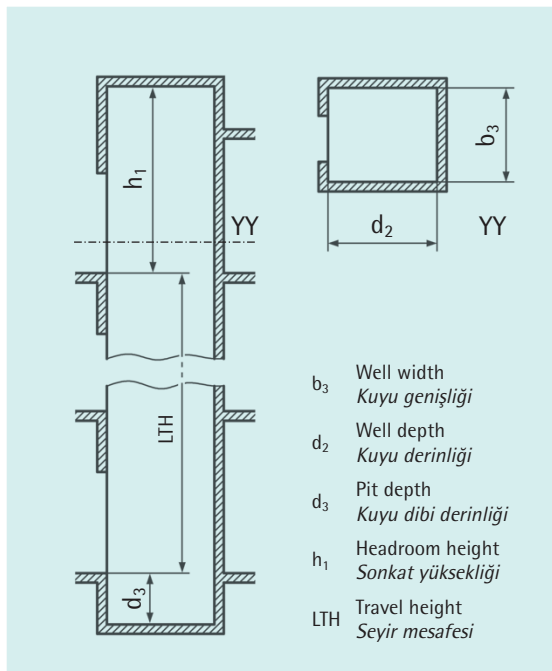
TECHNICAL PLANNING INFORMATION
TEKNİK PLANLAMA BİLGİLERİ

Sheet/Sayfa D005CGBTR.1.5
Date/Tarih 15.03.2008
Version/Versiyon 10.11.2008
Approved/Onay BT/TV

Planning Information

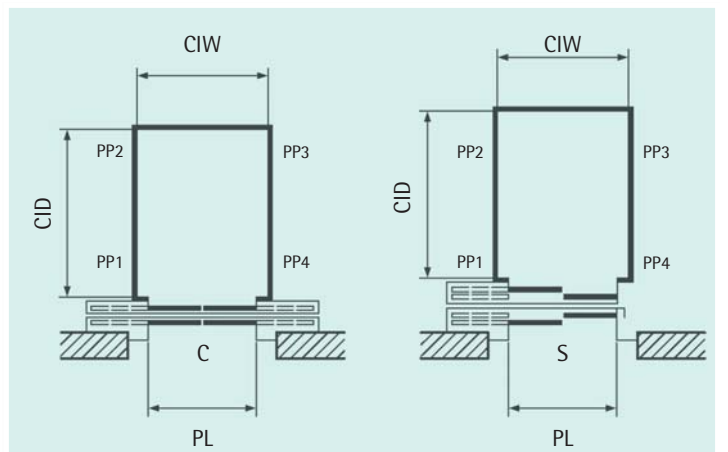
Planlama Bilgileri

Layout Number Yerleşim Numarası	Number of Person Yolcu sayısı	Rated Load Beyan Yüğü		Rated Speed Beyan Hızı	Car Internal Dimensions Kabin İç Ölçüleri	Door Width Kapı Genişliği	Door opening Kapı açılımı	Clear Well Dimensions Net Kuyu Ölçüleri	Min. Well Pit Min. Kuyu Dibi	Min. Headroom Min. Sonkat	Number of Car entrance Kabin giriş sayısı	Handicapped accessibility Özürlü ulaşılabilirliği
		Q [kg]	P _{max} [kg]									
320 R	4	320	750	1,00	0900 x 1000	700	S	1460 x 1375	1100	3630	1 ⁽⁴⁾	
400 S	5	400	800	1,00	1100 x 1000	700	S	1660 x 1375	1100	3630	1 ⁽⁴⁾	
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C	Central opening Car and Landing Doors Merkezden açılan Kabin ve Kat Kapıları
S	Side opening Car and Landing Doors Yana açılan Kabin ve Kat Kapıları

Minimum Floor Distance $[S_{min}] = \text{Clear Door Height (PL)} + 475 \text{ mm}$
Minimum Kat Yüksekliği $[S_{min}] = \text{Net Kapı Yüksekliği (PL)} + 475 \text{ mm}$



MRL W LINE

TECHNICAL PLANNING INFORMATION

TEKNİK PLANLAMA BİLGİLERİ

Sheet/Sayfa D005CGBTR.1.7

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Version/Versiyon 10.11.2008

Approved/Onay BT/TV

Layout drawings with Hydra Landing and Car doors

Hydra Kat ve Kabin kapılı yerleşim çizimleri

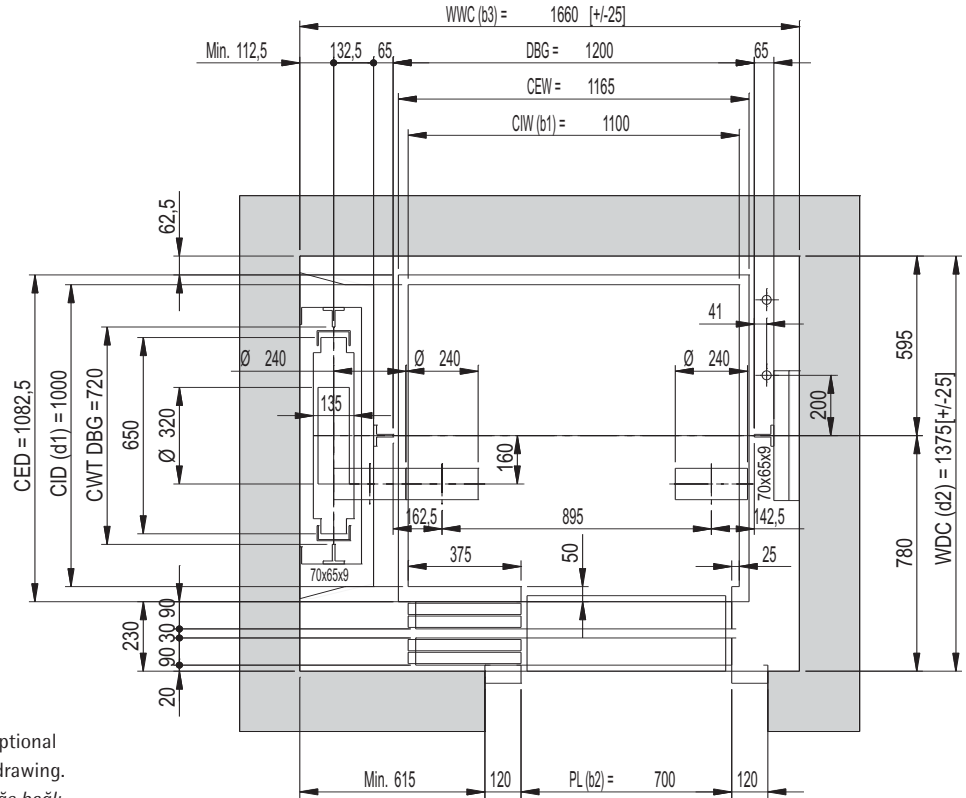
MRL W Line 400 S

400 kg / 5 persons

400 kg / 5 kişi

- Mirrored (symetrical) layouts are possible
- Sketchs are only for information, don't use in scale
- Measures are in milimeter [mm]

- Yerleşimler simetrik olarak uygulanabilir
- Çizimler bilgi içindir, büyüterek kullanmayınız
- Ölçüler milimetredir [mm]



⊘ Fire Resistant Landing Doors are optional and may require different layout drawing. Yangına dayanıklı kat kapıları isteğe bağlı olup farklı yerleşim çizimi gerektirebilir.

WWC (b₃) = Well Width
Kuyu Genişliği

CIW (b₁) = Car Internal Width
Kabin İç Genişliği

WDC (d₂) = Well Depth
Kuyu Derinliği

CID (d₁) = Car Internal Depth
Kabin İç Derinliği



WITTUR

MRL W LINE

TECHNICAL PLANNING INFORMATIONS

TEKNİK PLANLAMA BİLGİLERİ

Sheet/Sayfa D005CGBTR.1.16

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MRL W Line / Standard Layouts						Modules	Packages				
Supply Content							P1	P2	P3	P4	P5
	Gearless Drive	Encoder	Encoder Cable	Motor Cable	Brake Cable	E 1.1	●	●	●	●	●
					Mechanical Brake Opening	E 1.2	○	○	○	○	○
Inverter	SM Application (Software)	Brake Resistor (for P1)	Cabinet (for P1)	Serial Interface Cable (for P1)	Line Filter (for P2)	E 2.1	●	●	-	-	-
					Inverter Keypad (LCD)	E 2.2	○	○	-	-	-
Lift Main Controller	Shaft Information System	Shaft Wiring System	COP	LOP	Emergency Rescue	E 3.1	●	-	-	-	-
					Shaft Lightning System	E 3.2	○	-	-	-	-
		Guide Rails	Fish Plates	Guide Rail Clips	Oil Collectors	S 1.1	●	●	●	-	-
				Fixing Brackets	Plates under Guide Rails	S 1.2	●	●	●	●	●
	Overspeed Governor (OSG)	OSG Support	OSG Tension Weight	Machine Bed Plate	Dead Point Bracket	S 2.1	●	●	●	●	●
				Ropes	Rope Fixings	S 2.2	●	●	●	●	-
				Compensation Rope	Compensation Rope Hanger	S 2.3	○	○	○	○	-
					Pit Ladder	S 2.4	●	●	●	●	-
					Counterweight Fillers	S 3.1	●	●	●	●	-
				Buffers	Buffer Support	S 3.2	●	●	●	●	●
			Car	Safety Balustrade	Ventilation Fan	C 1.1	●	●	●	●	●
				Car Sling	Load Weighing Device	C 1.2	●	●	●	●	●
				Counterweight Sling	CW Sling Protection Cover	C 1.3	●	●	●	●	●
			Car Door	Light Screen	Landing Door	D 1.1	●	●	●	●	●
Module S2.3 : If compensation necessary			Features of Modules: acc. to standard layouts			●	○	-			
Options of Modules are defined in Form A & B			For the customized MRL W Line contact to Wittur			Included	Optional	Excluded			

MRL W LINE

TECHNICAL PLANNING INFORMATION

TEKNİK PLANLAMA BİLGİLERİ

Sheet/Sayfa D005CGBTR.1.19

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STANDARD FEATURES

STANDARD ÖZELLİKLER

TORONTO

WALL PANELS	EPP RAL 7032
DUVAR PANELLERİ	EPP RAL 7032
PROFILES	SST 02-3010
PROFİLLER	SST 02-3010
HANDRAIL	SST 02-3010
TUTAMAK	SST 02-3010
MIRROR	CRYSTAL 6mm
AYNA	KRİSTAL 6mm
CEILING	SST 02-3010
TAVAN	SST 02-3010
LIGHTING	FLUORESCENT
AYDINLATMA	FLORESAN
DIFFUSER	PLEXIGLASS
DİFÜZÖR	PLEKSİGLAS
KICKPLATE	SST 02-3010
SÜPÜRGELİK	SST 02-3010
FLOOR MATERIAL	BLACK PVC
ZEMİN MALZEMESİ	SİYAH PVC

PASSENGER CARS

YOLCU KABİNLERİ



TORONTO

LANDING DOORS

KAT KAPILARI



HYDRA / EPP / RAL 7032

AMSTERDAM

WALL PANELS	SST 02-3010
DUVAR PANELLERİ	SST 02-3010
PROFILES	SST 02-3010
PROFİLLER	SST 02-3010
HANDRAIL	SST 02-3010
TUTAMAK	SST 02-3010
MIRROR	CRYSTAL 6mm
AYNA	KRİSTAL 6mm
CEILING	SST 02-3010
TAVAN	SST 02-3010
LIGHTING	FLUORESCENT
AYDINLATMA	FLORESAN
DIFFUSER	PLEXIGLASS
DİFÜZÖR	PLEKSİGLAS
KICKPLATE	SST 02-3010
SÜPÜRGELİK	SST 02-3010
FLOOR MATERIAL	ANTRASİT LİNOLEYUM
ZEMİN MALZEMESİ	ANTRASİT LİNOLEYUM



AMSTERDAM



HYDRA / SST / 02-3010