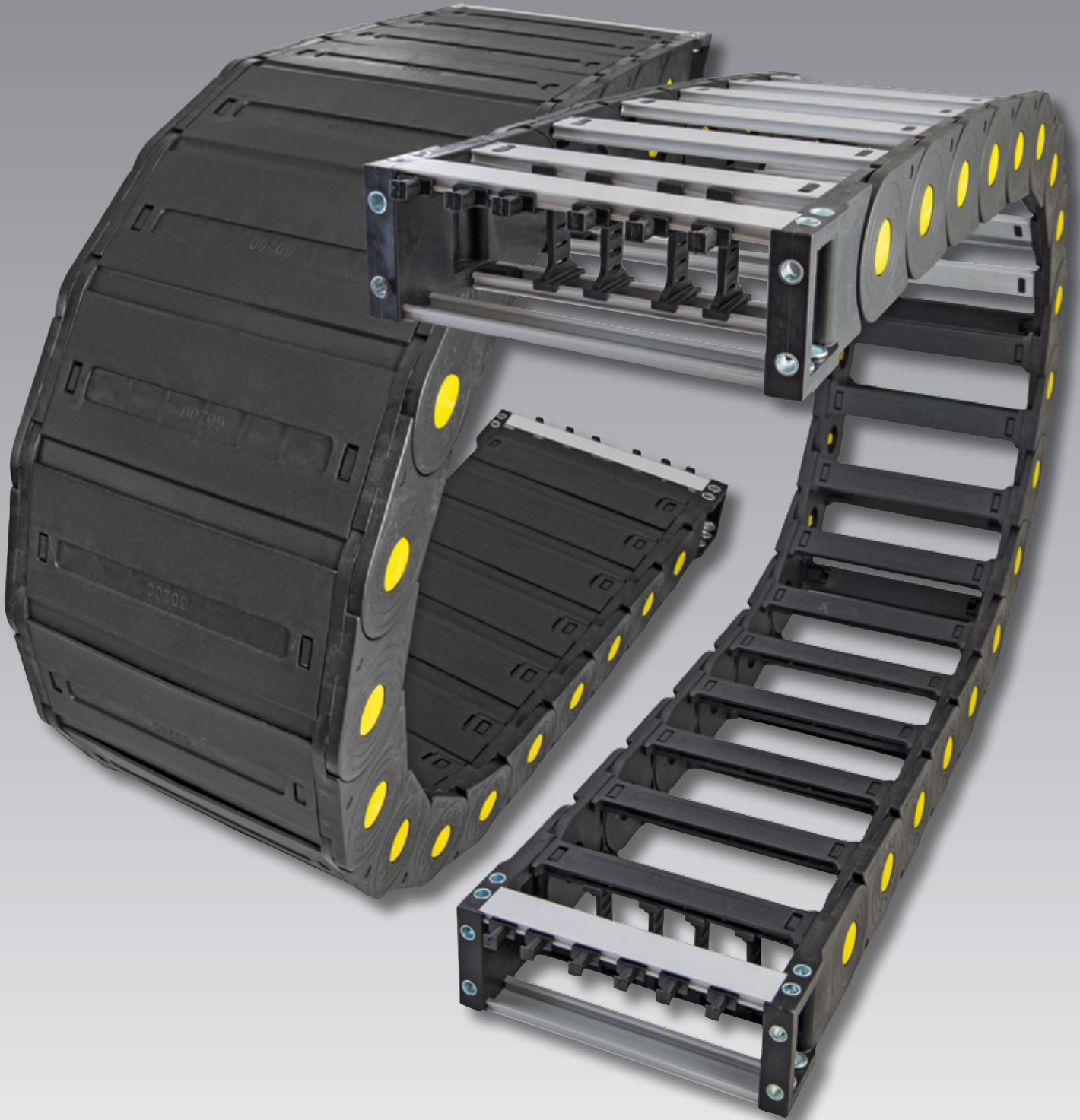




Hartmann & König
STROMZUFÜHRUNGS AG

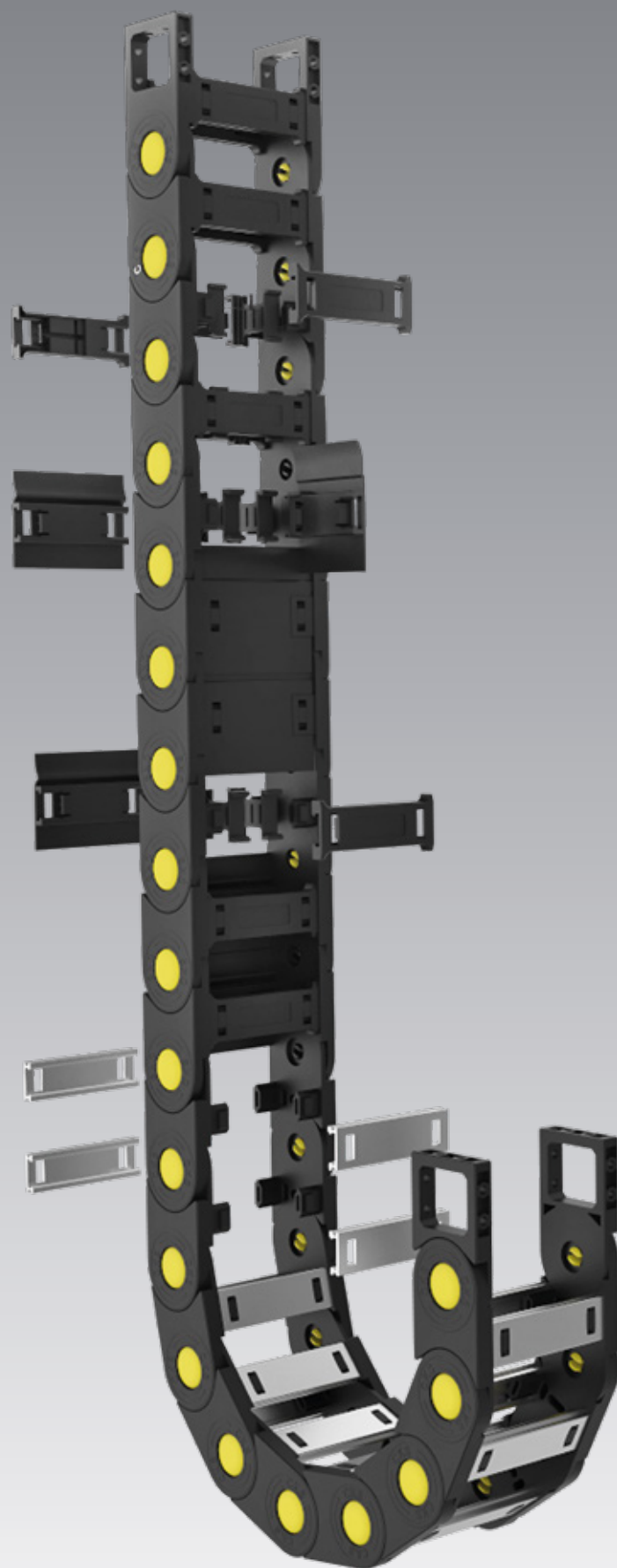


Energieketten / *Energy chains*

We energize mobility. Worldwide.

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Kurzportrait / Short company profile

Hartmann & König



Als einer der führenden Hersteller von Motorleitungstrommeln, Federleitungstrommeln und Schleifringkörpern versorgt Hartmann & König seine Kunden weltweit mit technologisch ausgereiften Systemen zur Energie- und Datenübertragung. Unsere Leitungstrommeln versorgen Portal-, - Schiffs- und Baukrane, Bagger oder Hebezeuge aller Art zuverlässig mit umweltfreundlicher Energie.

As one of the leading manufacturers of motorized cable reels, spring cable reels, and slip ring assemblies, Hartmann & König supplies its customers worldwide with technologically advanced energy and data transfer systems for mobile consumers. Our cable reels and slip ring assemblies are used on container-, deck- and construction cranes, excavators or hoisting equipment of all types.

Ergänzend zu unserem Leitungstrommel- und Schleifring-Portfolio vertreiben wir eine breite Produktpalette an hochwertigen Energieketten des türkischen Qualitätsherstellers CKS. Die mit einer Million Zyklen getesteten Ketten in Kunststoff- oder Stahlausführung lassen sich individuell an Kundenbedürfnisse anpassen und werden auf Kundenwunsch von den Experten in Graben-Neudorf konfektioniert.

As a full-service provider of power supply solutions we provide in addition to our cable reel and slip ring portfolio a wide range of energy chains by the Turkish quality manufacturer CKS. The high-grade energy chains, tested with 1 million cycles, are available in plastic and steel execution and can be configured and completely assembled according to customers' needs by our experts in Germany.

CKS



CKS Cable Systems wurde im Jahr 2004 gegründet. Das mittelständische Unternehmen mit Sitz in Izmir ist heute führender Hersteller von Energieketten in der Türkei. Durch seine Produktvielfalt, Zuverlässigkeit und Qualität hat sich CKS als angesehene Marke weit über den türkischen Markt hinaus etabliert. Über zahlreiche Vertretungen in Europa, Indien und den VAE vertreibt das Unternehmen hochwertige Energieketten in die ganze Welt.

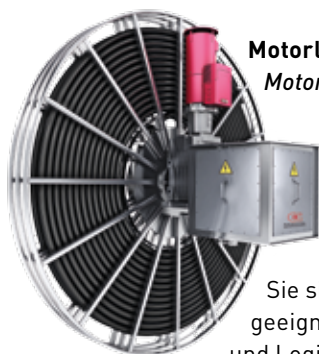
CKS Cable Systems was founded in 2004. Today, the mid-size company with its headquarters in Izmir is Turkey's leading manufacturer of energy chains. CKS has become a desirable brand with its variety, reliability and quality. With several representations in Europe, India and UAE it distributes high-quality energy chains to all over the world.

Um höchste Produktqualität gewährleisten und flexibel nach Kundenanforderungen produzieren zu können, verfügt CKS über eine komplette Eigenfertigung mit modernsten Maschinen und Technologien und verwendet nur hochwertige Rohmaterialien für seine Kunststoff- und Stahlketten. Alle Produkte sind CE gekennzeichnet und nach ISO 9001 und ISO 14001 zertifiziert.

In order to ensure highest product quality and flexibility for customers' needs, CKS holds a complete in-house manufacturing with cutting-edge machines and technologies and processes high-grade raw materials for their plastic and steel series. All energy chains are CE marked and certified according to ISO 9001 and ISO 14001.

Die Produktgruppen / Product groups

Know-how trifft Kundenwünsche / Know-how meets customer requirements



Motorleitungstrommeln
Motorized cable reels

Motorleitungstrommeln von Hartmann & König sind hochwertige Übertragungssysteme für Energie, Steuersignale und Daten für mobile Verbraucher.

Sie sind robust, langlebig und optimal geeignet für die Bewältigung von Hub- und Logistikaufgaben aller Arten von

Hebezeugen, versorgen Greifer und Magnete an Kranen und Baufahrzeugen mit elektrischer Energie und kommen darüber hinaus im Anlagenbau, in Kläranlagen und zahlreichen anderen Einsatzbereichen zum Einsatz.

Motorized cable reels by Hartmann & König are high-quality power and data supply solutions for mobile consumers. They are sturdily designed for both continuous operation in ports and container terminals and reliable power supply to construction cranes as well as overhead cranes, excavators, and hoisting devices. Motor cable reels meet requirements for high speeds, dynamic processes, large cable cross sections and high tractive forces.



Federleitungstrommeln
Spring cable reels

Federleitungstrommeln versorgen Krane, Verladeanlagen und Stapler zuverlässig mit mobiler Energie und kommen darüber hinaus in der Bühnentechnik, in Kläranlagen und vielen anderen Anwendungsbereichen zum Einsatz.

Je nach Einsatzzweck und Einbauefordernissen bestehen sie aus einem zylindrisch oder spiralig wickelnden Trommelkörper, dem Spiralblattfeder-Antrieb aus hochwertigem, texturgewalzten Federbandstahl sowie einem Schleifringkörper.

Spring cable reels supply cranes, loading plants and forklift trucks with reliable mobile energy, and they are used in stage technology, sewage plants and many other applications. Depending on the intended purpose and installation requirements, these consist of a cylindrical or spiral-winding reel body, the spiral leaf spring drive made of premium-grade, texture-milled spring band steel, and a slip ring assembly.

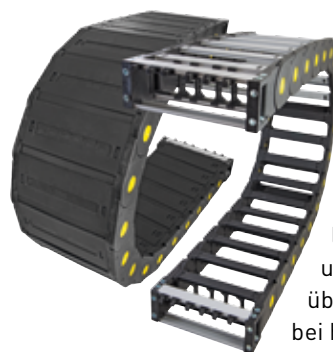


Schleifringkörper
Slip ring assemblies

Schleifringkörper sind elektromechanische Bauteile, mit deren Hilfe Energie, Daten und Steuersignale von einem rotierenden auf ein feststehendes Bauteil übertragen werden. Klassische Einsatzgebiete für Schleifringkörper sind deshalb alle rotierenden Komponenten in Drehkränen, im Anlagenbau, in Kläranlagen, im Bergbau, im Bereich der Bühnentechnik und in vielen weiteren anspruchsvollen industriellen Anwendungen.

Slip ring assemblies are used wherever energy, data, control signals or other media must be transferred from a rotating to a stationary part. Main application fields for our slip ring assemblies are rotating units in mobile cranes, sewage plants, machine tools or for theatre and stage equipment.

Slip ring assemblies are used wherever energy, data, control signals or other media must be transferred from a rotating to a stationary part. Main application fields for our slip ring assemblies are rotating units in mobile cranes, sewage plants, machine tools or for theatre and stage equipment.



Energieketten
Energy chains

Energieketten eignen sich hervorragend für die kombinierte Führung von Energie- und Datenleitungen sowie pneumatischen und hydraulischen Schläuchen über kürzere Entfernungen und bei höheren Geschwindigkeiten.

Die hochwertigen Energieketten in Kunststoff- und Stahlausführung finden in Brückenkränen, Laufkatzen, CNC-Maschinen, Toren, Waschanlagen, Industrierobotern, Theatern u.v.m. Einsatz und ergänzen unser Produktportfolio an Energiezuführungen ideal.

Energy chains are perfectly suited for the combined guidance of power and data cables as well as pneumatic and hydraulic hoses, for short and medium distances and higher speeds. In addition to our cable reel and slip ring portfolio we distribute high-quality energy chains in plastic and steel execution. Application fields are gantry cranes, crane trolleys, CNC machines, gates, car wash systems, industrial robots, theatres and many more.

Light Series



„Light Series“, Kunststoff

Plastic Light Series

CK07 F Series

CK10 F Series

CK15 A-B-F Series

CK18 B Series

CK20 F-Y Series

CK24 A-B-F Series

06-07

Light Series

CK07 F



Materialmerkmale

Material features

PA6 mit 30 % Glasfaser

PA6 with 30 % fiberglass

Geschwindigkeit

Speed

8 m/s

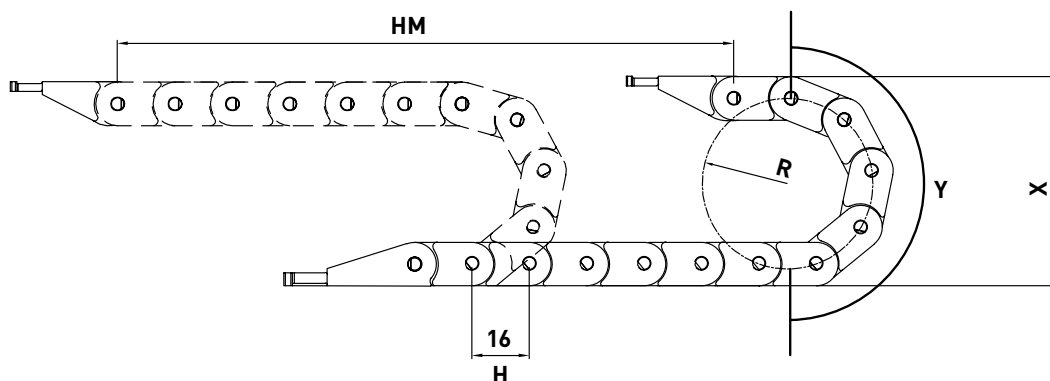
8 m/sec

Arbeitstemperatur

Operating temperature

-30 °C – + 130 °C

-30 °C – + 130 °C



- L** Berechnung der Kettenlänge
Calculation of chain length
- HM** Verfahrweg
Travel distance
- X** Montagehöhe
Mounting height
- Y** Bogenlänge
Arc length
- H** Achsabstand
Pitch

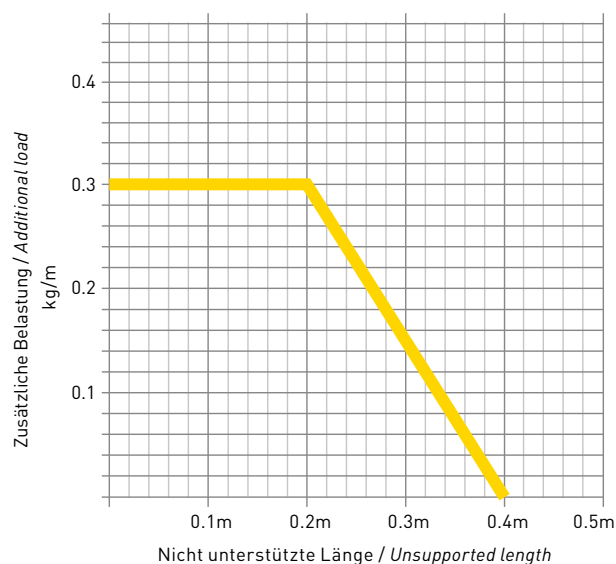
$$L = HM / 2 + Y$$

$$X = R \times 2 + C$$

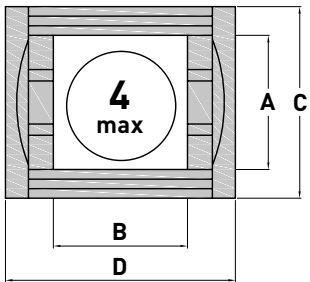
$$Y = R \times \pi$$

Biegeradius / Bending radius	18
H (mm)	16
X (mm)	46
Y (mm)	57

Belastungsdiagramm / Load diagram



Matchcode

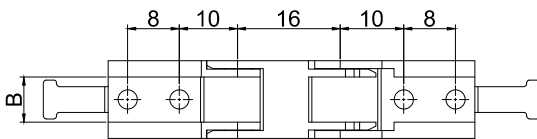
CK07Innenhöhe
Inner height**F**Offene Serie
Open series**007**Innenbreite
Inner width**R018**Biegeradius
Bending radius

CK07 F	A	B	C	D	R	W
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK07 F 007 R018	7	7	10	12	18	0,07
CK07 F 016 R018	7	16	10	21	18	0,10

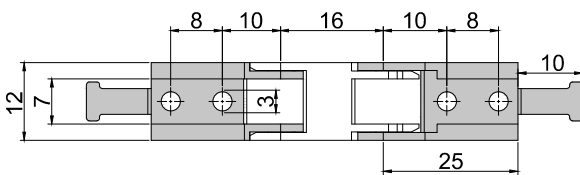
Abmessungen für Endstücke / End bracket assembly dimensions

CK07 P

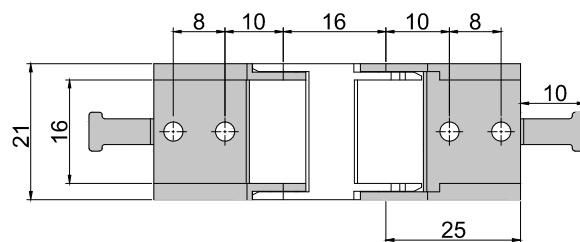
CK07 P



CK07 P07

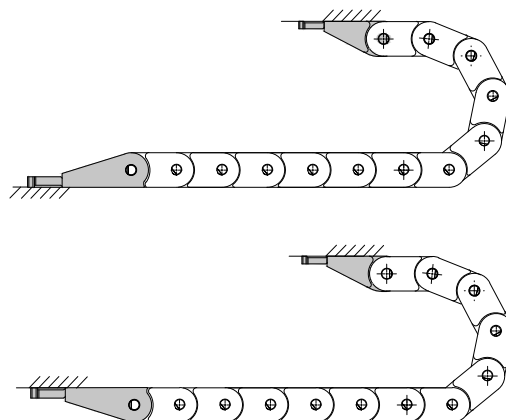
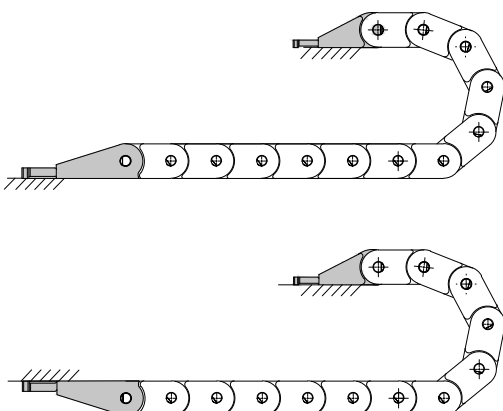


CK07 16



Anordnungsbeispiele der Endstücke / End bracket assembly

CK07 P



08-09

Light Series

CK10 F

**Materialmerkmale****Material features**

PA6 mit 30 % Glasfaser

PA6 with 30 % fiberglass

Geschwindigkeit**Speed**

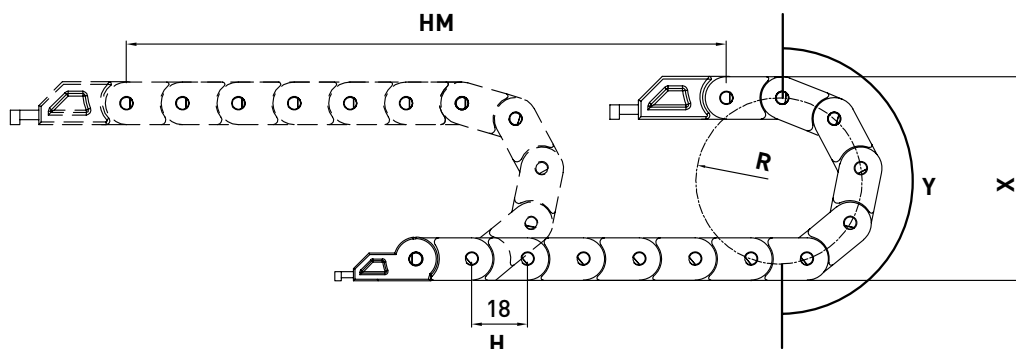
8 m/s

8 m/sec

Arbeitstemperatur**Operating temperature**

-30 °C – + 130 °C

-30 °C – + 130 °C



- L** Berechnung der Kettenlänge
Calculation of chain length
- HM** Verfahrweg
Travel distance
- X** Montagehöhe
Mounting height
- Y** Bogenlänge
Arc length
- H** Achsabstand
Pitch

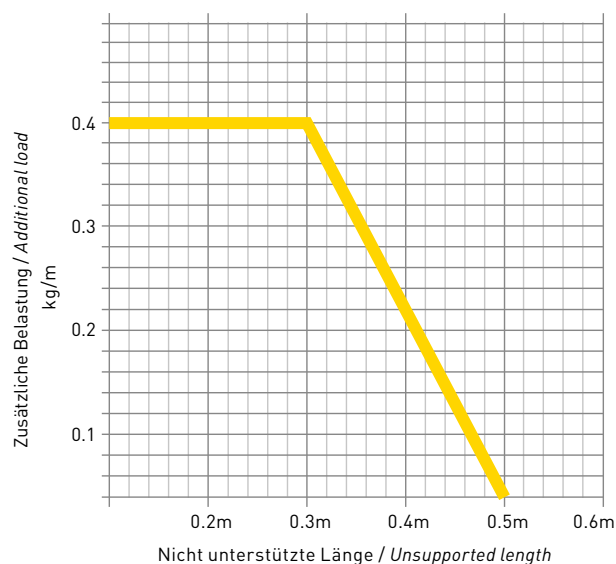
$$L = HM / 2 + Y$$

$$X = R \times 2 + C$$

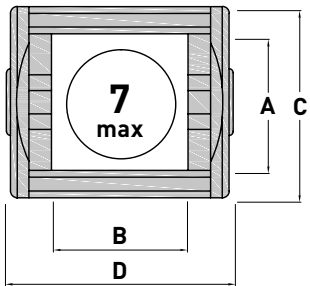
$$Y = R \times \pi$$

Biegeradius / Bending radius**18**

H (mm)	18
X (mm)	50
Y (mm)	57

Belastungsdiagramm / Load diagram

Matchcode

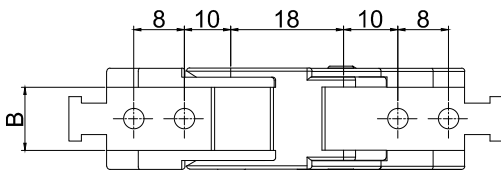
CK10Innenhöhe
Inner height**F**Offene Serie
Open series**010**Innenbreite
Inner width**R018**Biegeradius
Bending radius

CK10 F	A	B	C	D	R	W
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK10 F 010 R018	10	10	14	16	18	0,123
CK10 F 020 R018	10	20	14	26	18	0,154
CK10 F 030 R018	10	30	14	36	18	0,183

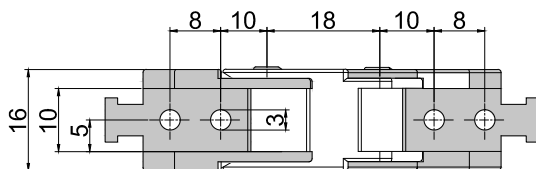
Abmessungen für Endstücke / End bracket assembly dimensions

CK10 P

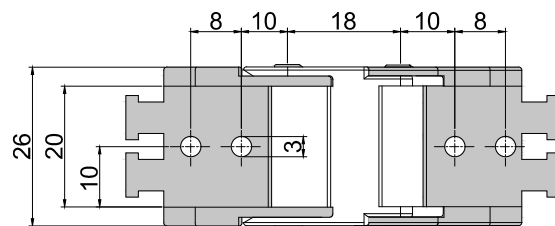
CK10 P



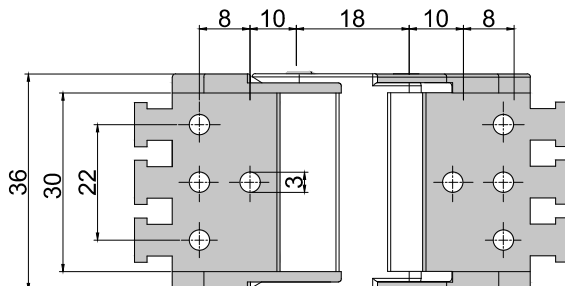
CK10 P10



CK10 P20

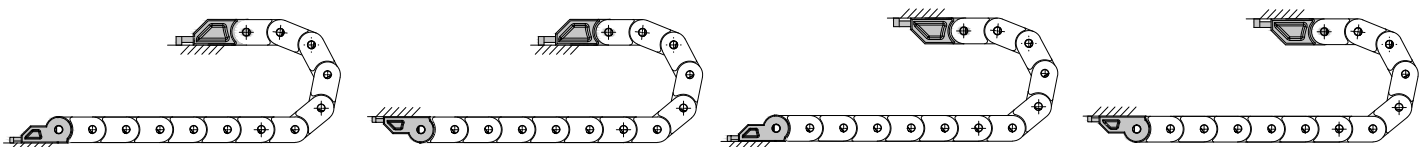


CK10 P30



Anordnungsbeispiele der Endstücke / End bracket assembly

CK10 P



CK15 A

CK15 B

CK15 F

**Materialmerkmale****Material features**

PA6 mit 30 % Glasfaser

PA6 with 30 % fiberglass

Geschwindigkeit**Speed**

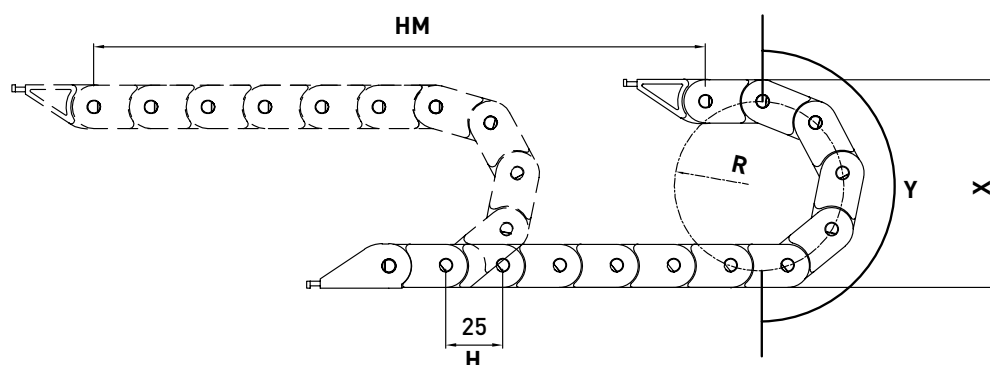
9 m/s

9 m/sec

Arbeitstemperatur**Operating temperature**

-30 °C – + 130 °C

-30 °C – + 130 °C



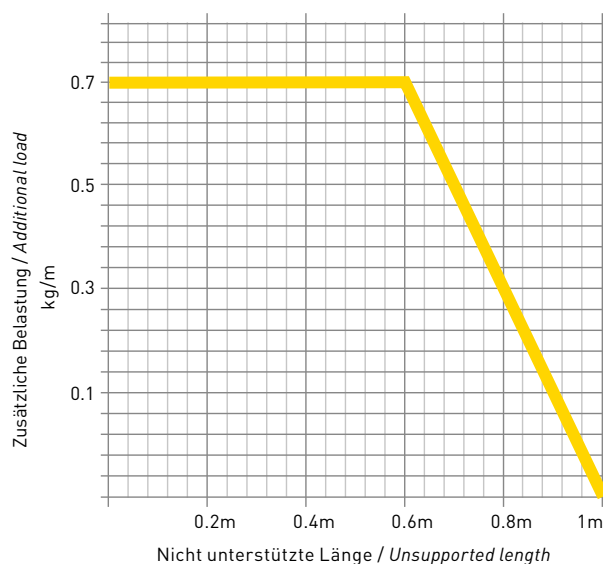
- L** Berechnung der Kettenlänge
Calculation of chain length
- HM** Verfahrweg
Travel distance
- X** Montagehöhe
Mounting height
- Y** Bogenlänge
Arc length
- H** Achsabstand
Pitch

$$L = HM / 2 + Y$$

$$X = R \times 2 + C$$

$$Y = R \times \pi$$

Biegeradius / Bending radius	25	35
H (mm)	25	25
X (mm)	70	90
Y (mm)	78,5	110

Belastungsdiagramm / Load diagram

CK15 A

Von innen zu öffnen / Openable from inside

Matchcode

CK15

Innenhöhe
Inner height

A

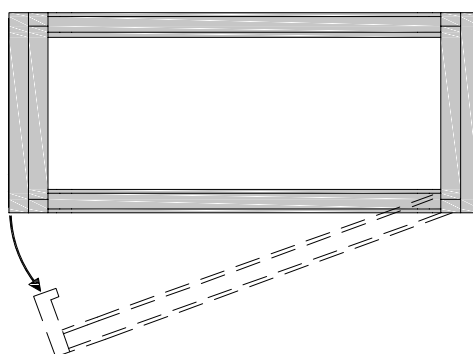
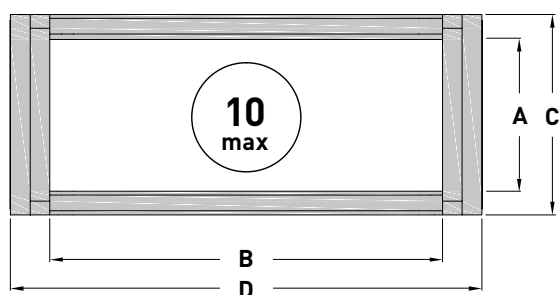
Offene Serie
Open series

015

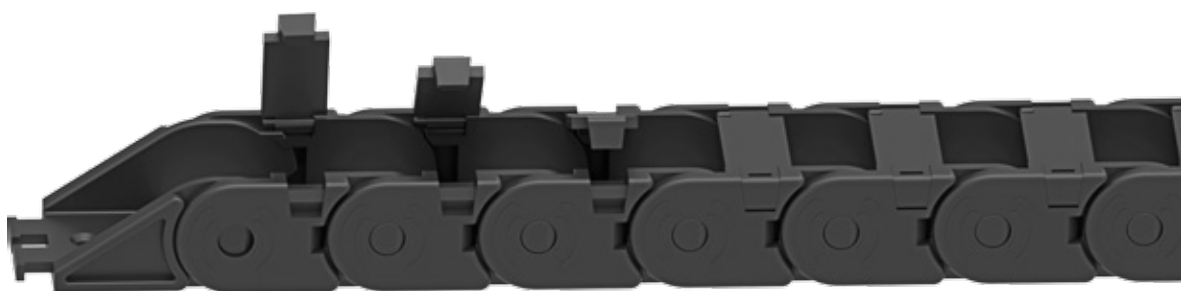
Innenbreite
Inner width

R025

Biegeradius
Bending radius



Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK15 A 015 R...	15	15	20	23	25 - 35	0,266
CK15 A 020 R...	15	20	20	28	25 - 35	0,282
CK15 A 030 R...	15	30	20	38	25 - 35	0,310
CK15 A 040 R...	15	40	20	48	25 - 35	0,336



CK15 B

Von außen zu öffnen / Openable from outside

Matchcode

CK15

Innenhöhe
Inner height

B

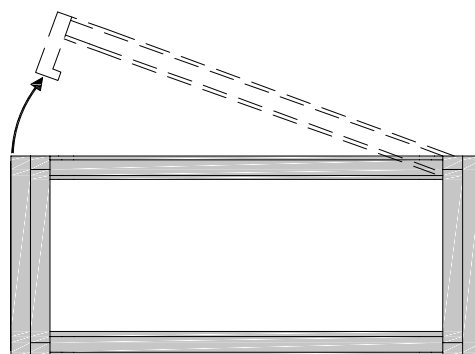
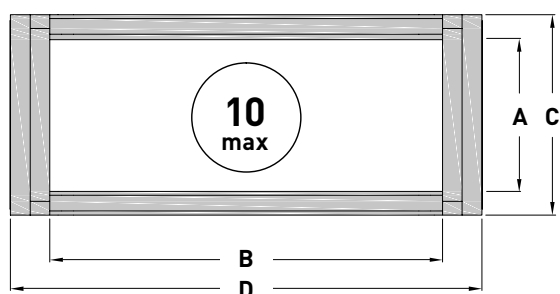
Outdoor Serie
Open Serie

015

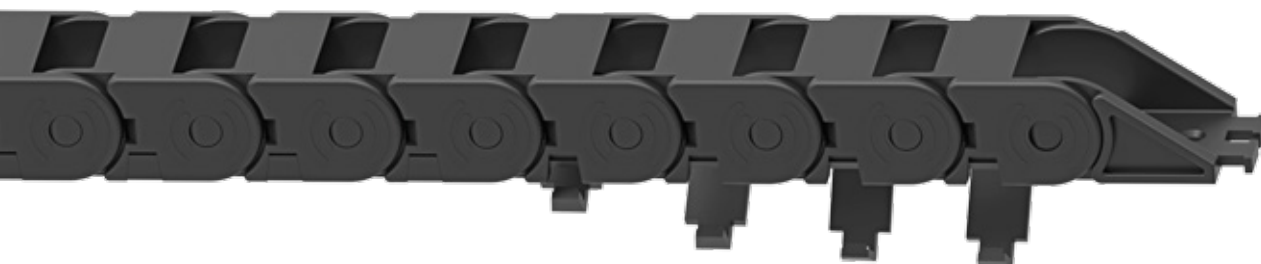
Innenbreite
Inner width

R025

Biegeradius
Bending radius



Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK15 B 015 R...	15	15	20	23	25 - 35	0,266
CK15 B 020 R...	15	20	20	28	25 - 35	0,282
CK15 B 030 R...	15	30	20	38	25 - 35	0,310
CK15 B 040 R...	15	40	20	48	25 - 35	0,336



CK15 F

Fixierte Ausführung / Fixed frame

Matchcode

CK15

Innenhöhe
Inner height

F

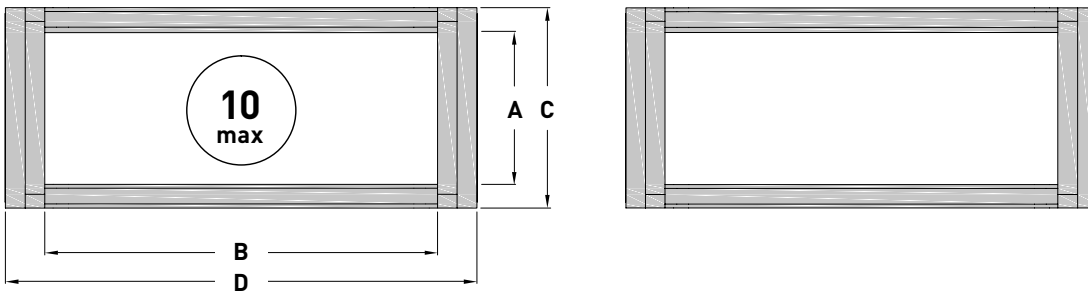
Offene Serie
Open series

015

Innenbreite
Inner width

R025

Biegeradius
Bending radius

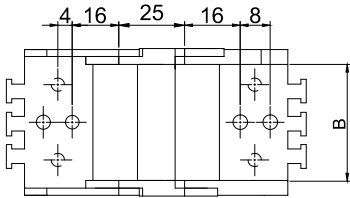


Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK15 F 015 R...	15	15	20	23	25 - 35	0,266
CK15 F 020 R...	15	20	20	28	25 - 35	0,282
CK15 F 030 R...	15	30	20	38	25 - 35	0,310
CK15 F 040 R...	15	40	20	48	25 - 35	0,336



Abmessungen für Endstücke / End bracket assembly dimensions**CK15 P**

CK15 P



CK15 A



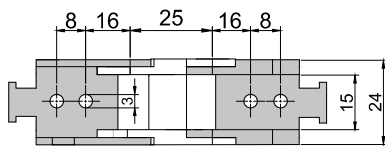
CK15 B



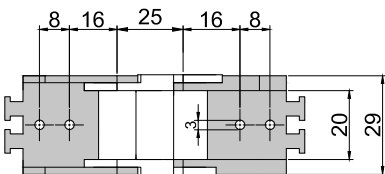
CK15 F



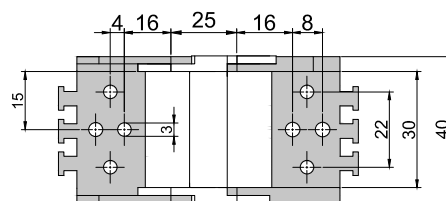
CK15 P15



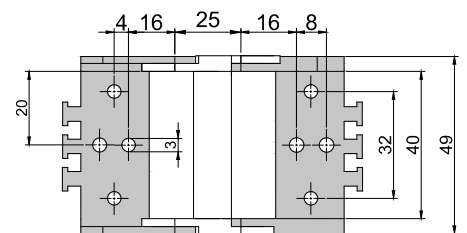
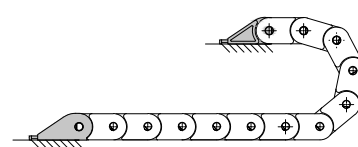
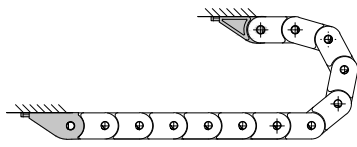
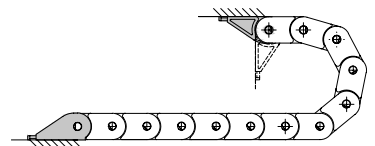
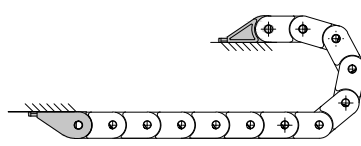
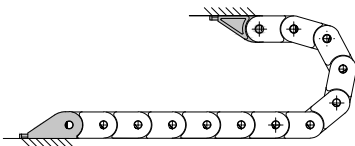
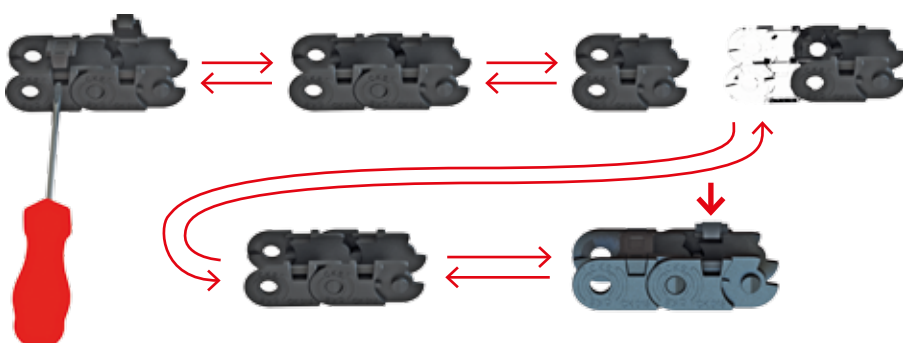
CK15 P20



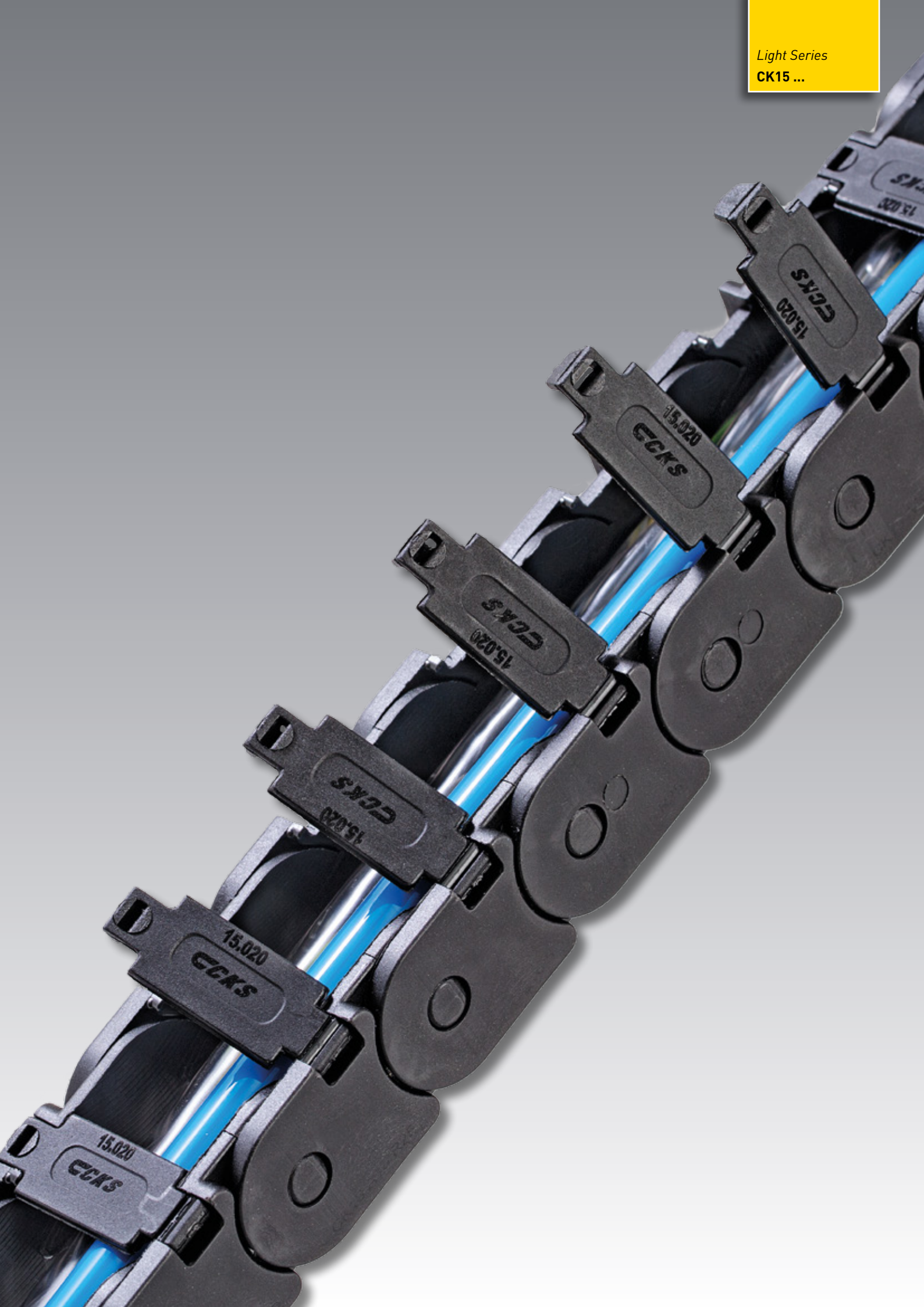
CK15 P30



CK15 P40

**Anordnungsbeispiele der Endstücke / End bracket assembly****CK15 P****Montage-Demontage-Anleitung / Assembly-disassembly-instruction****CK15 P**

Light Series
CK15 ...



16-17

Light Series

CK18 B

Von außen zu öffnen /
Openable from outside



Materialmerkmale

Material features

PA6 mit 30 % Glasfaser
PA6 with 30 % fiberglass

Geschwindigkeit

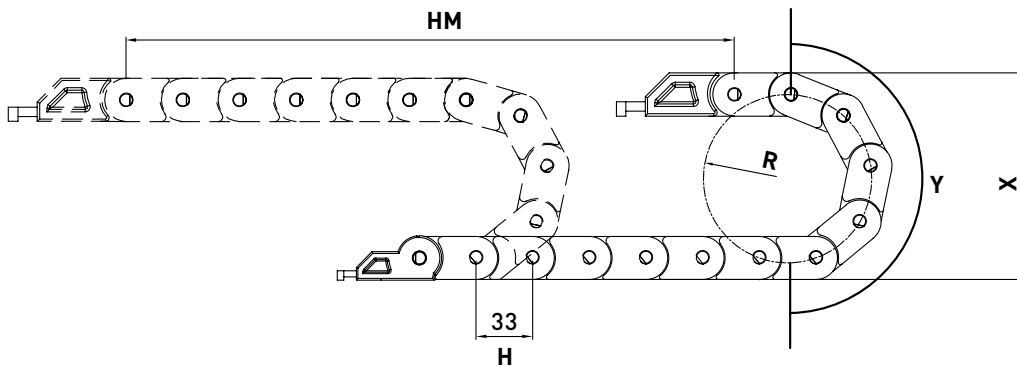
Speed

9 m/s
9 m/sec

Arbeitstemperatur

Operating temperature

-30 °C - + 130 °C
-30 °C - + 130 °C



- L** Berechnung der Kettenlänge
Calculation of chain length
- HM** Verfahrweg
Travel distance
- X** Montagehöhe
Mounting height
- Y** Bogenlänge
Arc length
- H** Achsabstand
Pitch

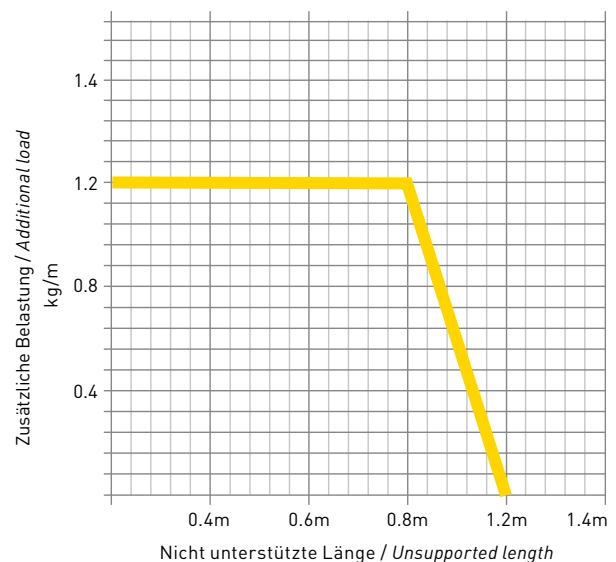
$$L = HM / 2 + Y$$

$$X = R \times 2 + C$$

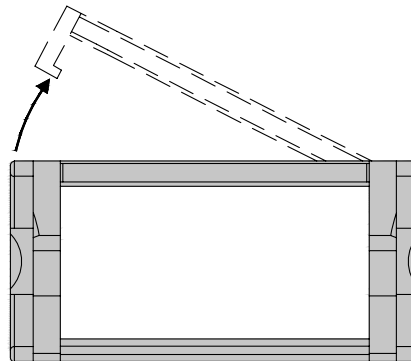
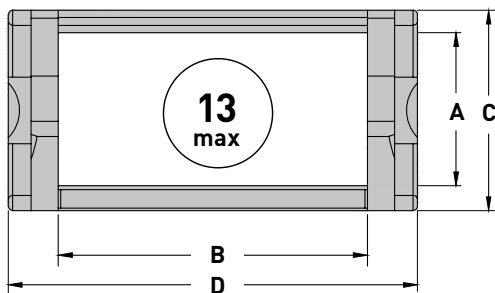
$$Y = R \times \pi$$

Biegeradius / Bending radius	38
H (mm)	33
X (mm)	100
Y (mm)	120

Belastungsdiagramm / Load diagram



Matchcode

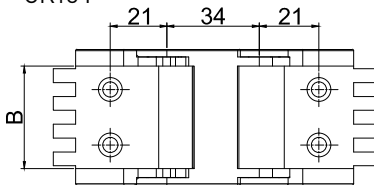
CK18Innenhöhe
Inner height**B**Offene Serie
Open series**037**Innenbreite
Inner width**R038**Biegeradius
Bending radius

Modell / Model	Innenhöhe [mm] Inner height [mm]	Innenbreite [mm] Inner width [mm]	Außenhöhe [mm] Outer height [mm]	Außenbreite [mm] Outer width [mm]	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK18 B 037 R038	18	37	24	49	38	0,435

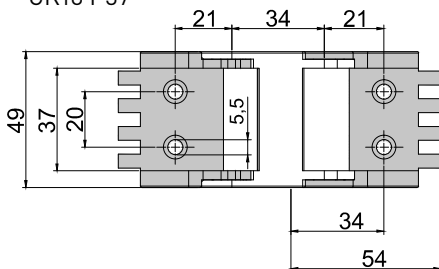
CK18 P

Abmessungen für Endstücke / End bracket assembly dimensions

CK18 P

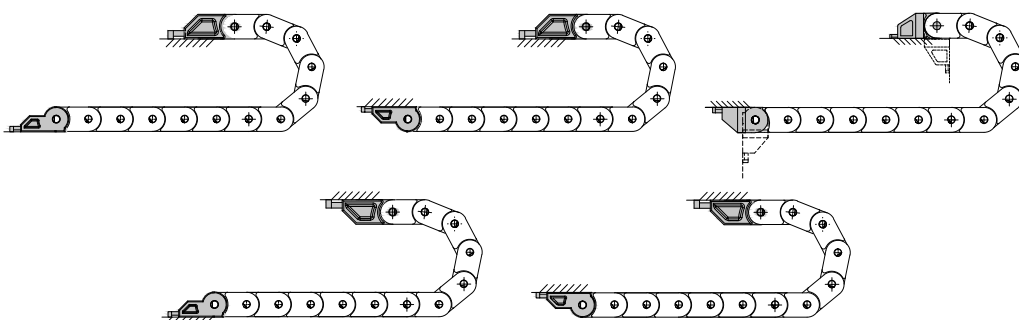


CK18 P37



CK18 P

Anordnungsbeispiele der Endstücke / End bracket assembly



18-19

Light Series

CK20 F
CK20 Y



Materialmerkmale

Material features

PA6 mit 30 % Glasfaser

PA6 with 30 % fiberglass

Geschwindigkeit

Speed

9 m/s

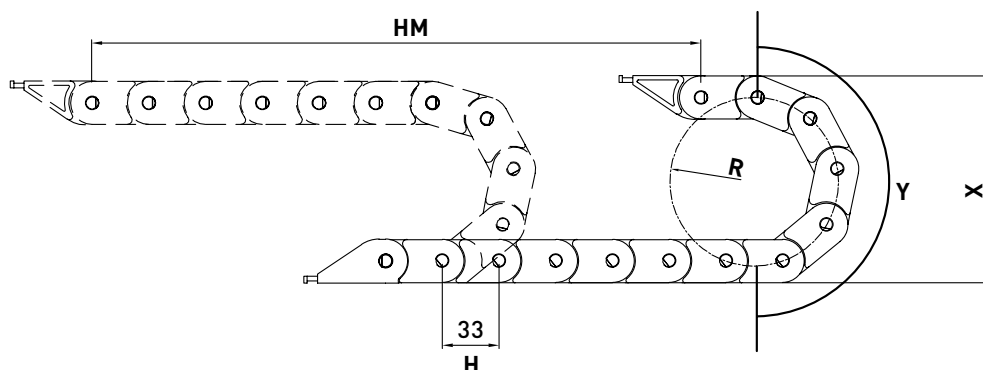
9 m/sec

Arbeitstemperatur

Operating temperature

-30 °C – + 130 °C

-30 °C – + 130 °C



- L** Berechnung der Kettenlänge
Calculation of chain length
- HM** Verfahrweg
Travel distance
- X** Montagehöhe
Mounting height
- Y** Bogenlänge
Arc length
- H** Achsabstand
Pitch

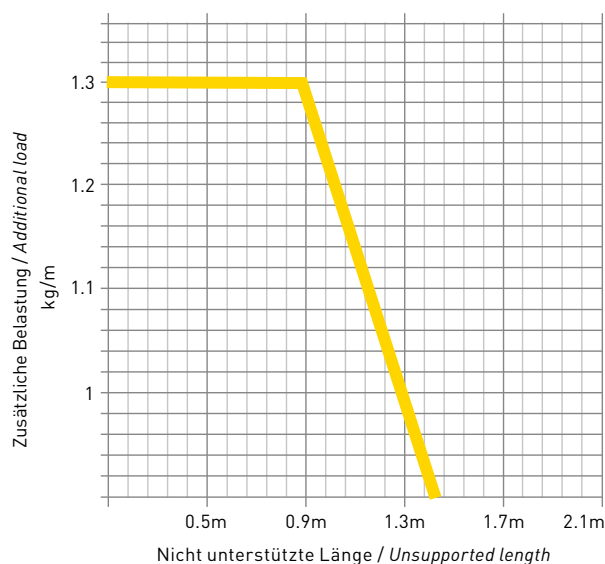
$$L = HM / 2 + Y$$

$$X = R \times 2 + C$$

$$Y = R \times \pi$$

Biegeradius / Bending radius	40
H (mm)	33
X (mm)	106
Y (mm)	126

Belastungsdiagramm / Load diagram



CK20 F

Fixierte Ausführung / Fixed frame

Matchcode

CK20

Innenhöhe
Inner height

F

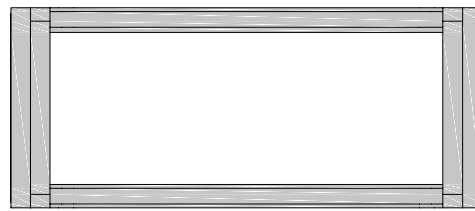
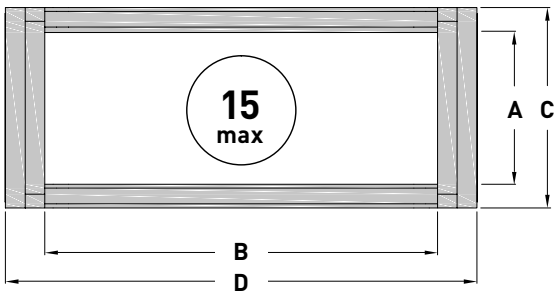
Offene Serie
Open series

025

Innenbreite
Inner width

R040

Biegeradius
Bending radius



CK20 F	A	B	C	D	R	W
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK20 F 025 R 040	20	25	26	37	40	0,425



CK20 Y

Von innen zu öffnen / Openable from inside

Matchcode

CK20

Innenhöhe
Inner height

Y

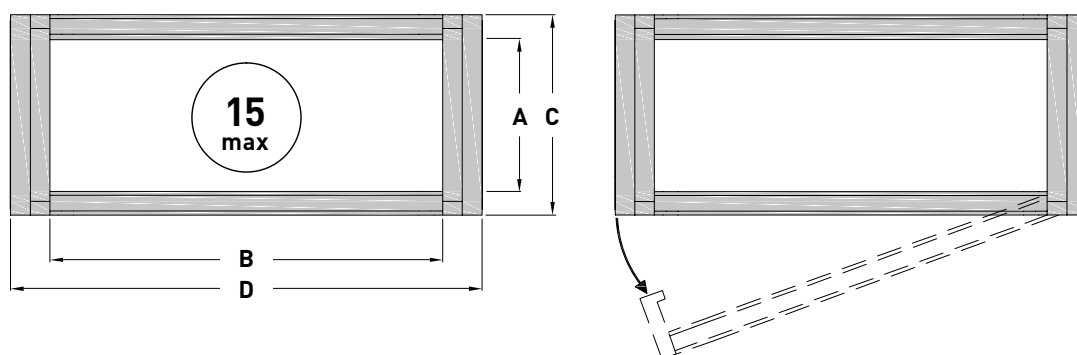
Halb geschlossen
Half covered

040

Innenbreite
Inner width

R040

Biegeradius
Bending radius



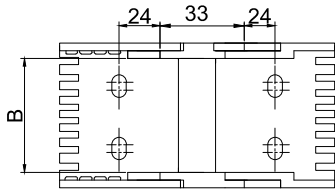
CK20 Y	A	B	C	D	R	W
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK20 Y 025 R 040	20	25	26	37	40	0,470
CK20 Y 040 R 040	20	40	26	52	40	0,543
CK20 Y 050 R 040	20	50	26	62	40	0,600
CK20 Y 060 R 040	20	60	26	72	40	0,634



Abmessungen für Endstücke / End bracket assembly dimensions

CK20 P

CK20 P



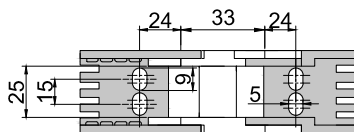
CK20 F



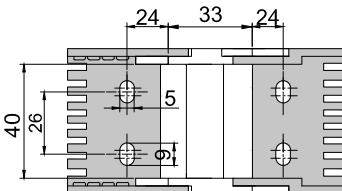
CK20 Y



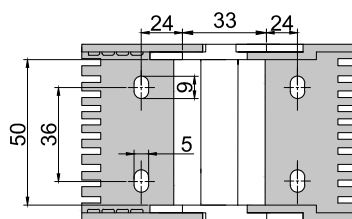
CK20 P25



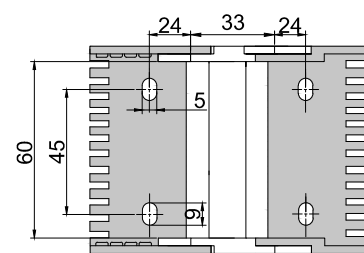
CK20 P40



CK20 P50

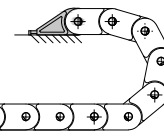
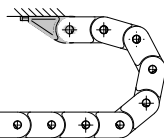
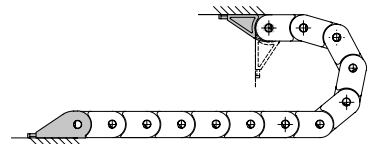
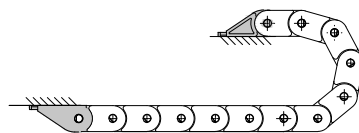
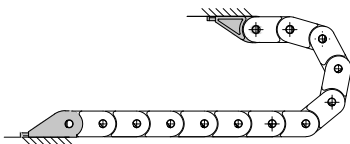


CK20 P60



Anordnungsbeispiele der Endstücke / End bracket assembly

CK20 P



Montage-Demontage-Anleitung / Assembly-disassembly-instruction

CK20 P



22-23

Light Series

CK24 A

CK24 B

CK24 F



Materialmerkmale

Material features

PA6 mit 30 % Glasfaser

PA6 with 30 % fiberglass

Geschwindigkeit

Speed

9 m/s

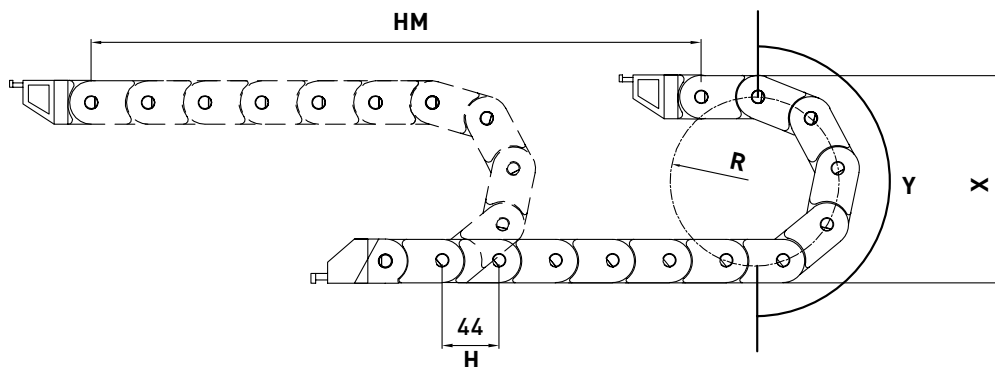
9 m/sec

Arbeitstemperatur

Operating temperature

-30 °C – + 130 °C

-30 °C – + 130 °C



- L** Berechnung der Kettenlänge
Calculation of chain length
- HM** Verfahrweg
Travel distance
- X** Montagehöhe
Mounting height
- Y** Bogenlänge
Arc length
- H** Achsabstand
Pitch

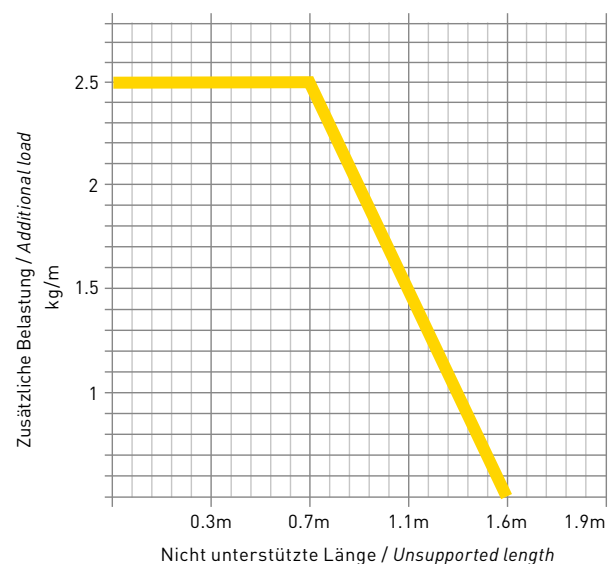
$$L = HM / 2 + Y$$

$$X = R \times 2 + C$$

$$Y = R \times \pi$$

Biegeradius / Bending radius	40	75	100	125
H (mm)	44	44	44	44
X (mm)	112	182	232	282
Y (mm)	126	236	314	393

Belastungsdiagramm / Load diagram



CK24 A

Von innen zu öffnen / Openable from inside

Matchcode

CK24

Innenhöhe
Inner height

A

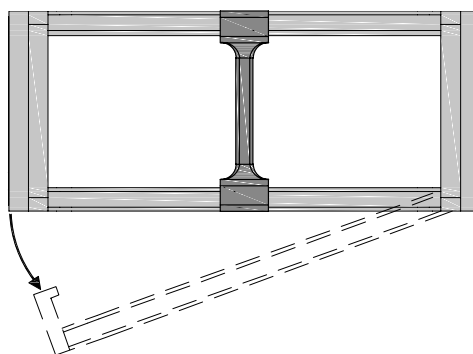
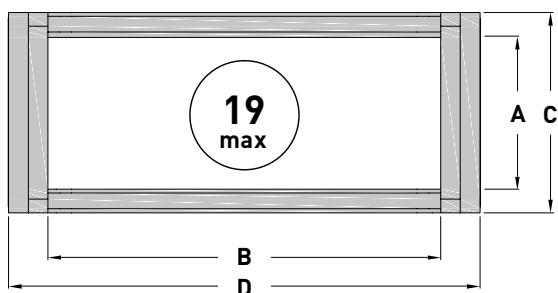
Offene Serie
Open series

025

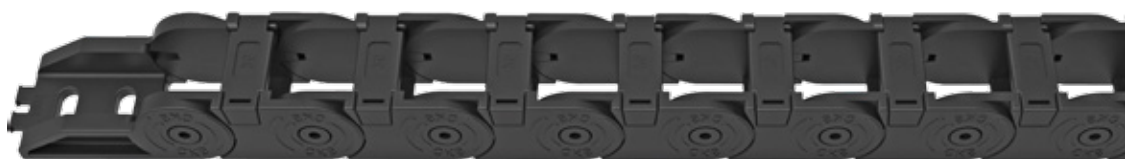
Innenbreite
Inner width

R040

Biegeradius
Bending radius

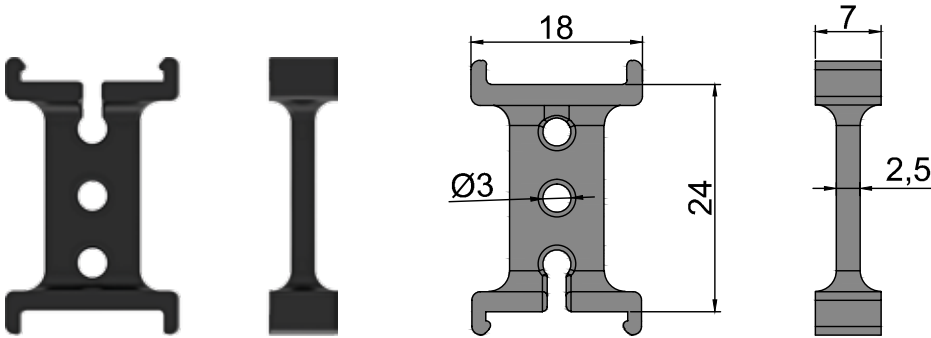


CK24 A	A	B	C	D	R	W
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK24 A 025 R ...	24	25	32	39	40, 75, 100, 125	0,582
CK24 A 040 R ...	24	40	32	54		0,621
CK24 A 050 R ...	24	50	32	64		0,658
CK24 A 060 R ...	24	60	32	74		0,668



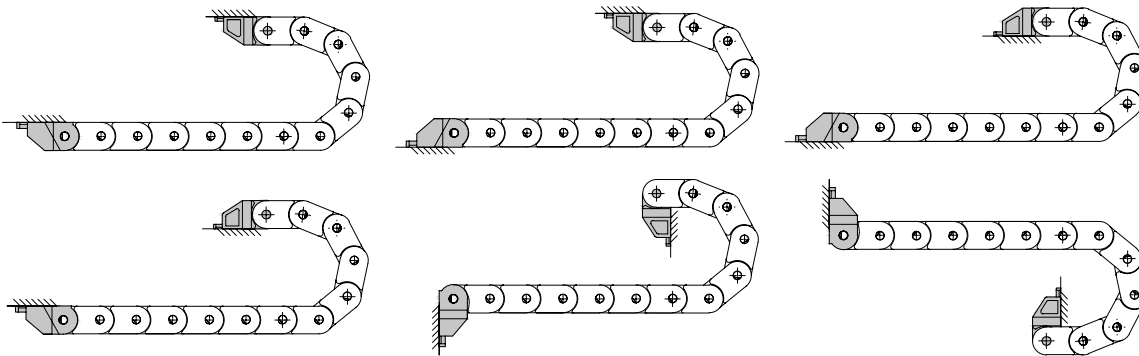
Abmessungen der vertikalen Trennstege / Separator dimensions

CK24 SP



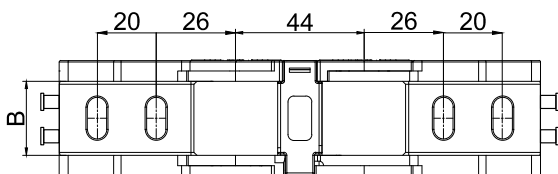
Anordnungsbeispiele der Endstücke / End bracket assembly

CK24 P



Abmessungen für Endstücke / End bracket assembly dimensions

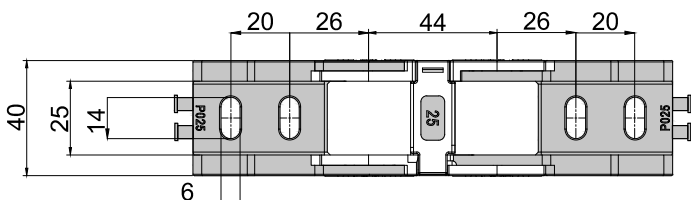
CK24 P



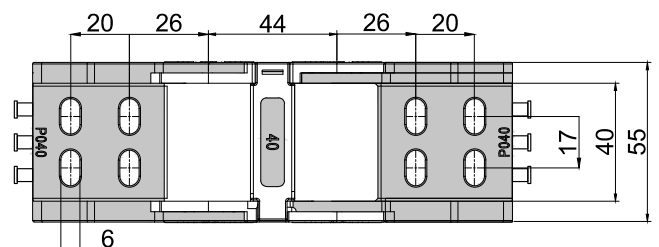
CK24 P025



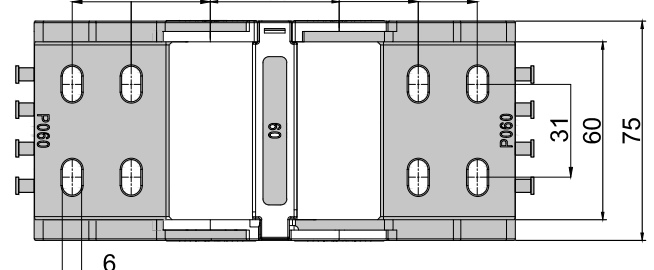
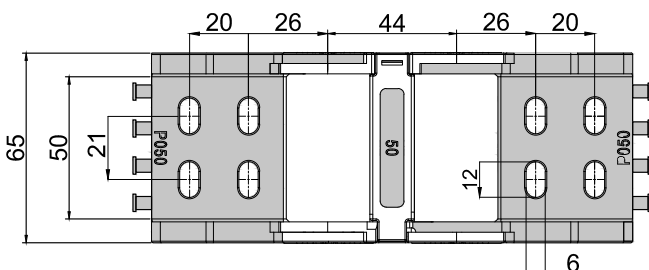
CK24 P040

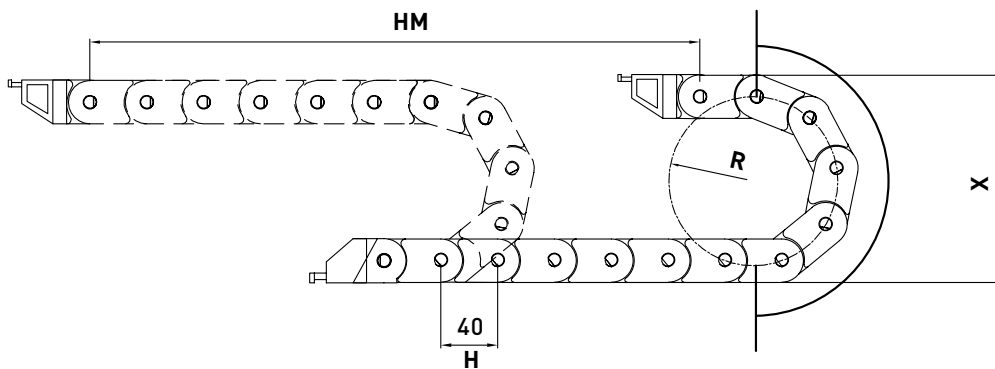


CK24 P050



CK24 P060





- L** Berechnung der Kettenlänge
Calculation of chain length
- HM** Verfahrweg
Travel distance
- X** Montagehöhe
Mounting height
- Y** Bogenlänge
Arc length
- H** Achsabstand
Pitch

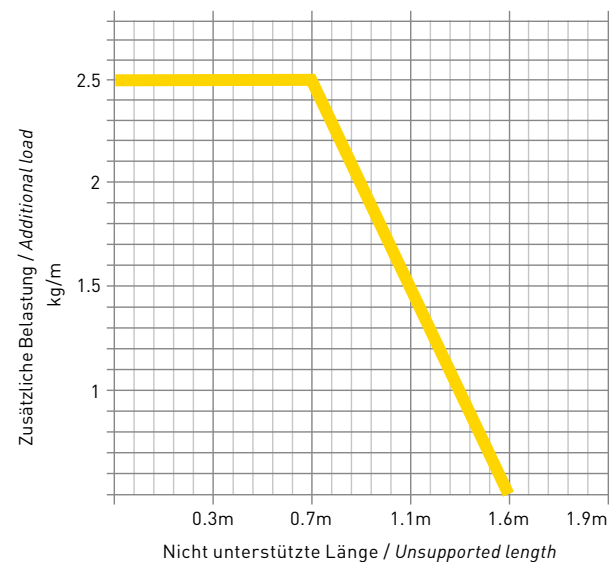
$$L = HM / 2 + Y$$

$$X = R \times 2 + C$$

$$Y = R \times \pi$$

Biegeradius / Bending radius	40	75	100
H (mm)	40	40	40
X (mm)	110	180	230
Y (mm)	126	236	314

Belastungsdiagramm / Load diagram



CK24 B

Von außen zu öffnen / Openable from outside

Matchcode

CK24

Innenhöhe
Inner height

B

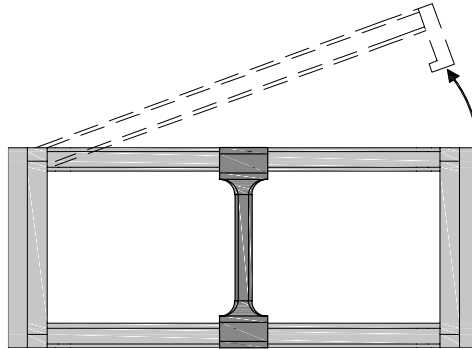
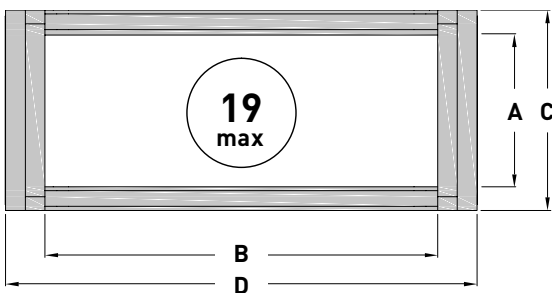
Offene Serie
Open series

040

Innenbreite
Inner width

R075

Biegeradius
Bending radius



CK24 B	A	B	C	D	R	W
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK24 B 025 R ...	24	25	30	37	40, 75, 100	0,495
CK24 B 040 R ...	24	40	30	52		0,545
CK24 B 048 R ...	24	48	30	60		0,573
CK24 B 060 R ...	24	60	30	72		0,627
CK24 B 080 R ...	24	80	30	92		0,711



CK24 F

Fixierte Ausführung / Fixed frame

Matchcode

CK24

Innenhöhe
Inner height

F

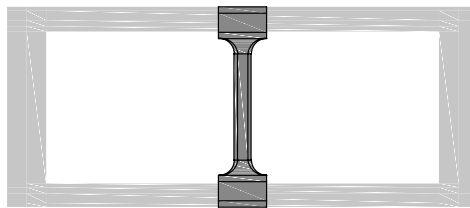
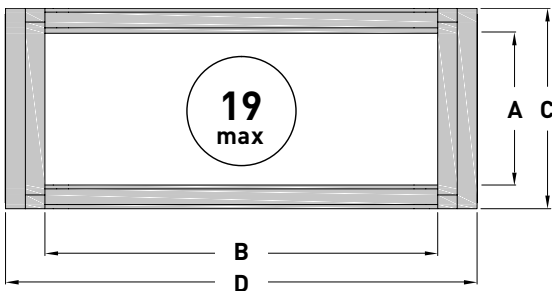
Offene Serie
Open series

050

Innenbreite
Inner width

R075

Biegeradius
Bending radius

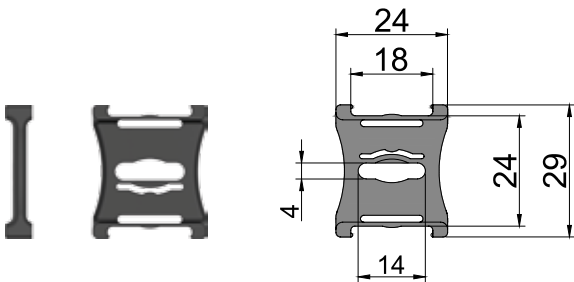


CK24 F	A	B	C	D	R	W
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK24 F 018 R ...	24	18	30	30	40, 75, 100	0,465
CK24 F 025 R ...	24	25	30	37		0,495
CK24 F 040 R ...	24	40	30	52		0,545
CK24 F 048 R ...	24	48	30	60		0,573
CK24 F 060 R ...	24	60	30	72		0,627
CK24 F 080 R ...	24	80	30	92		0,711



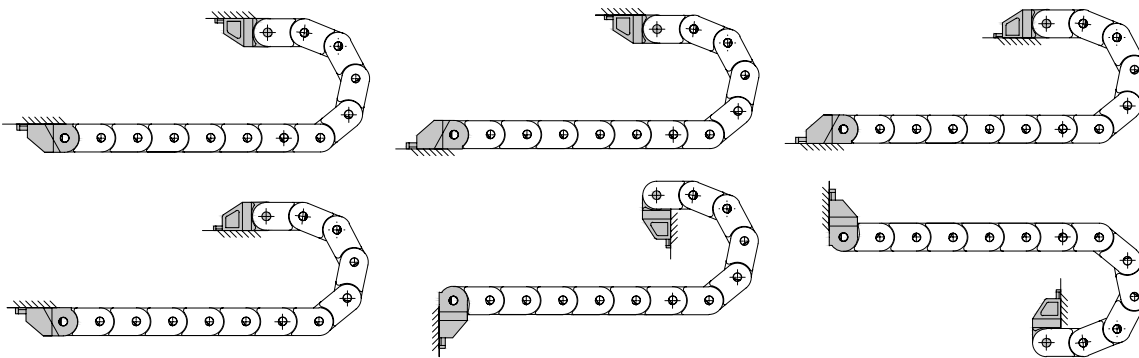
Abmessungen der vertikalen Trennstege / Separator dimensions

CK24 SP



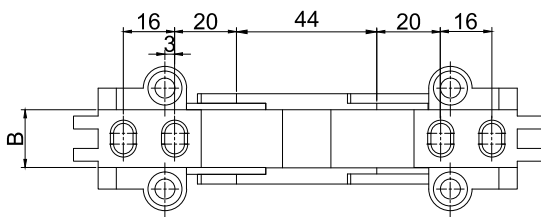
Anordnungsbeispiele der Endstücke / End bracket assembly

CK24 P



Abmessungen für Endstücke / End bracket assembly dimensions

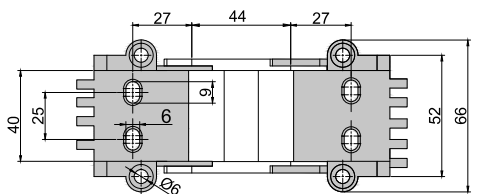
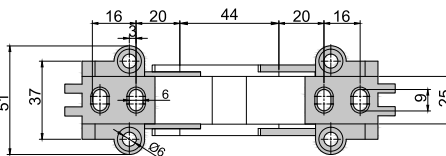
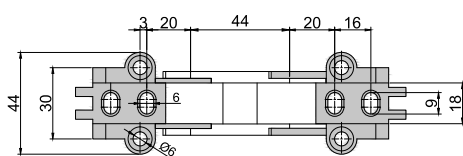
CK24 P



CK24 P018

CK24 P025

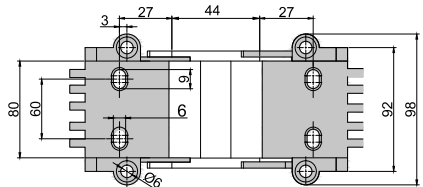
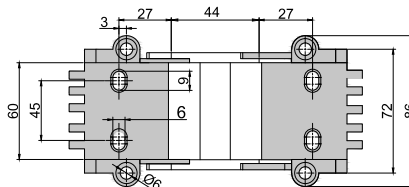
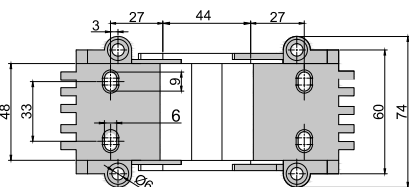
CK24 P040

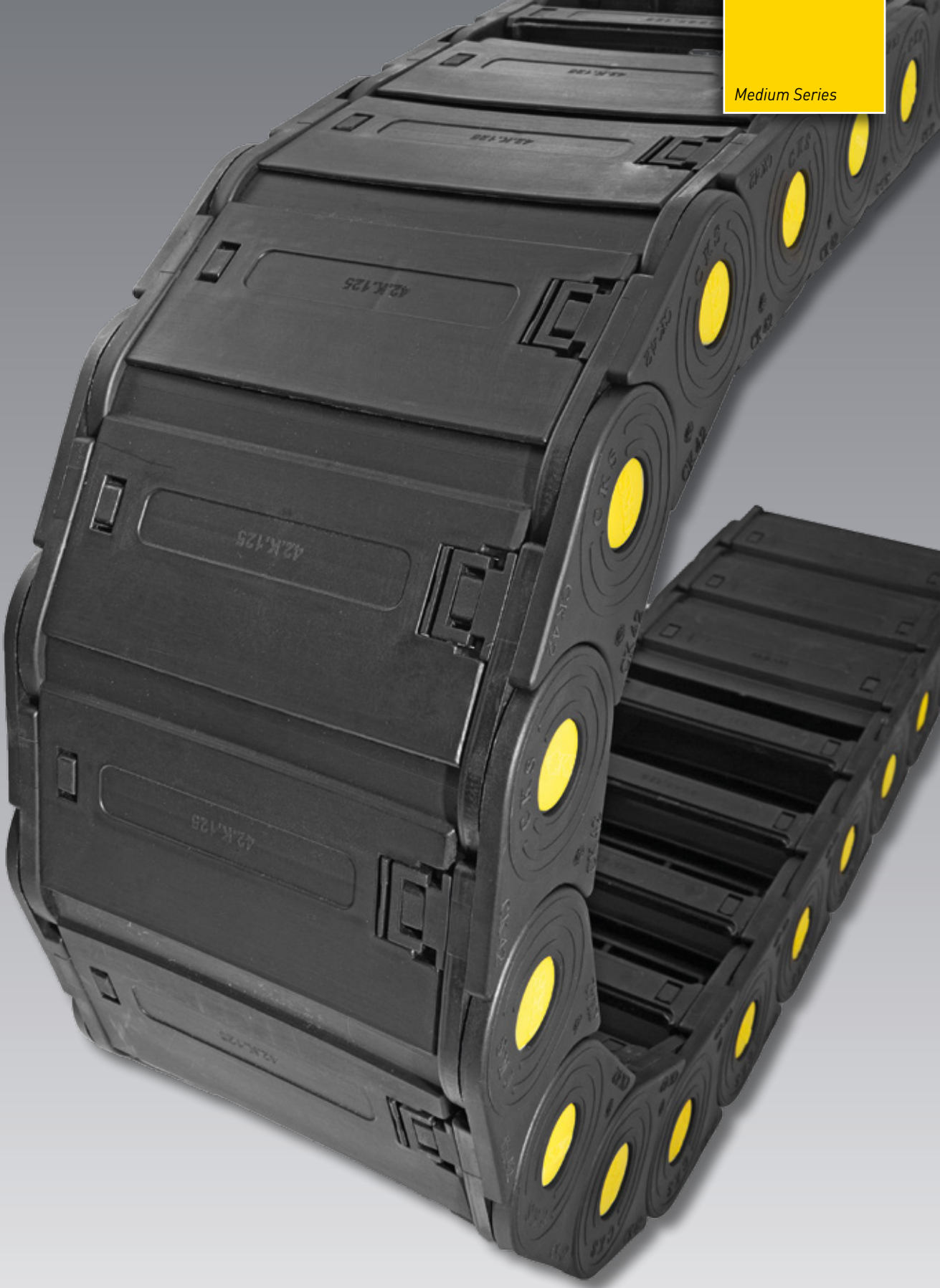


CK24 P048

CK24 P060

CK24 P080





Medium Series

„Medium Series“, Kunststoff

Plastic Medium Series

CK25 A Series

CK30 A Series

CK35 A-K-Y Series

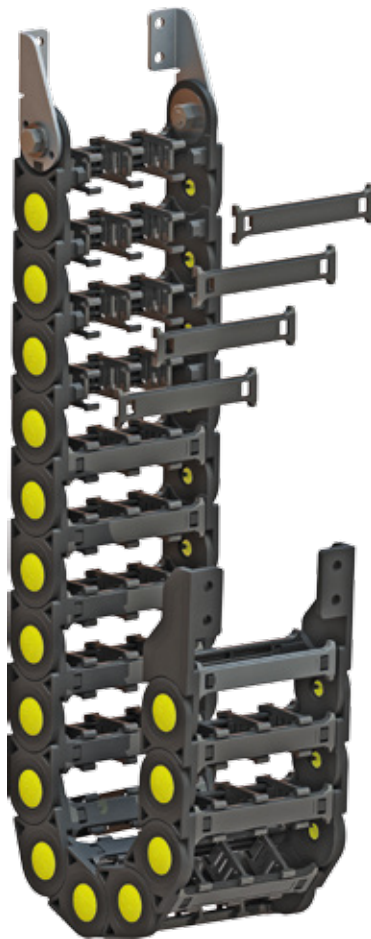
CK42 A-K-Y Series

30-31

Medium Series

CK25 A

Von innen und außen zu öffnen /
Openable from inside and outside



Materialmerkmale

Material features

PA6 mit 30 % Glasfaser
PA6 with 30 % fiberglass

Geschwindigkeit

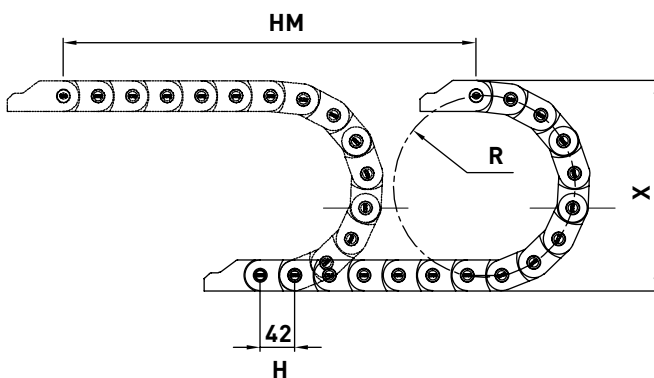
Speed

7 m/s
7 m/sec

Arbeitstemperatur

Operating temperature

-30 °C – + 130 °C
-30 °C – + 130 °C



L Berechnung der Kettenlänge
Calculation of chain length

HM Verfahrweg
Travel distance

X Montagehöhe
Mounting height

Y Bogenlänge
Arc length

H Achsabstand
Pitch

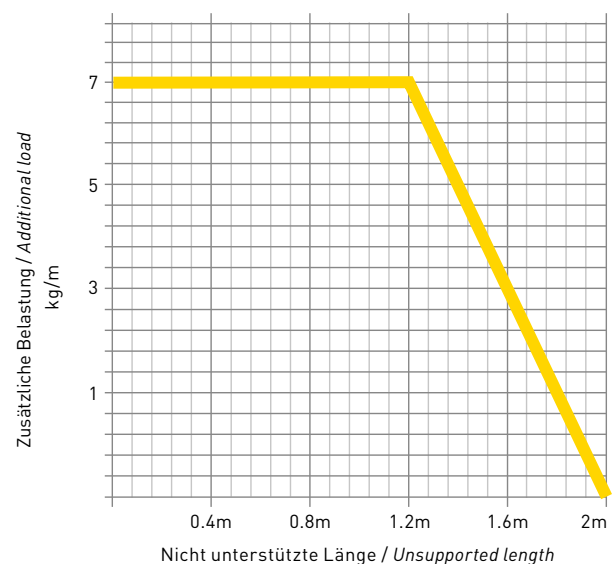
$$L = HM / 2 + Y$$

$$X = R \times 2 + C$$

$$Y = R \times \pi$$

Biegeradius / Bending radius	40	75	100	125
H (mm)	42	42	42	42
X (mm)	122	192	242	292
Y (mm)	126	236	314	393

Belastungsdiagramm / Load diagram



Matchcode

CK25

Innenhöhe
Inner height

A

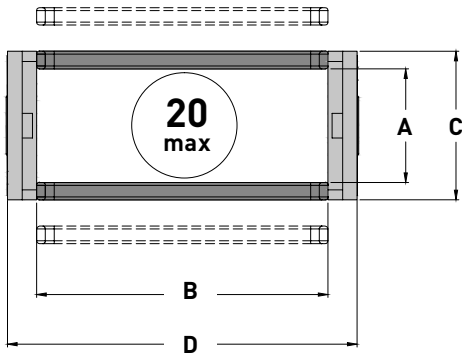
Offene Serie
Open series

050

Innenbreite
Inner width

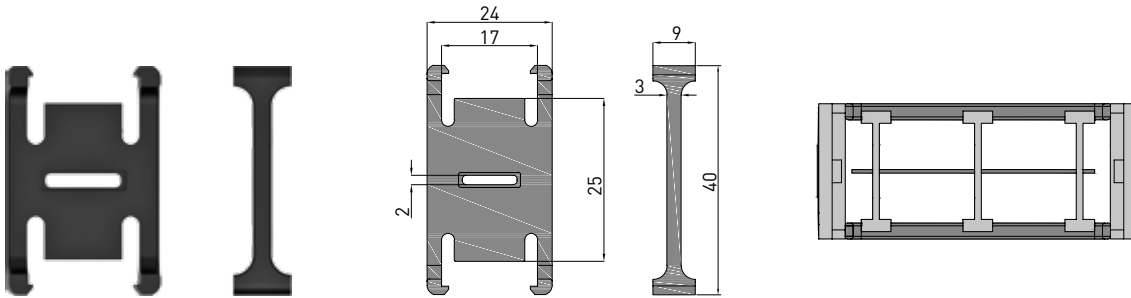
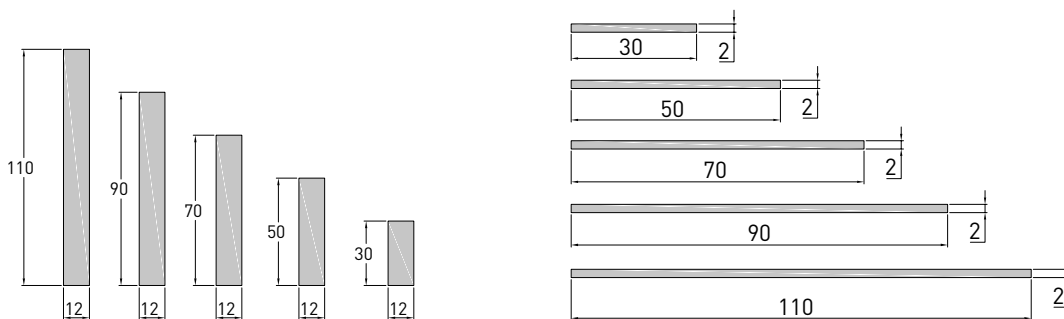
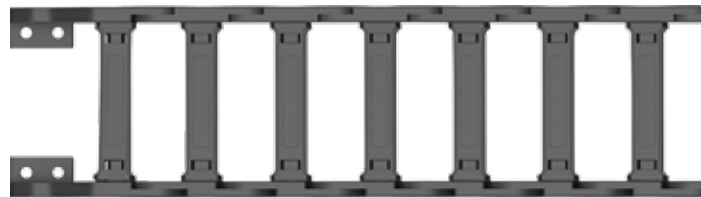
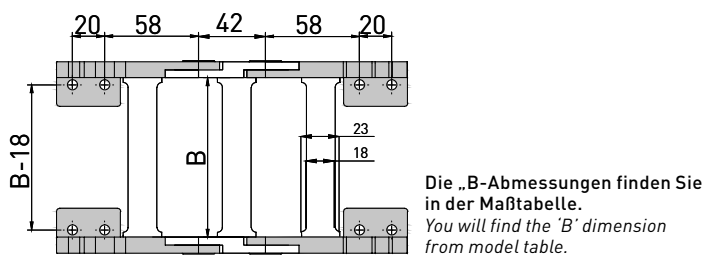
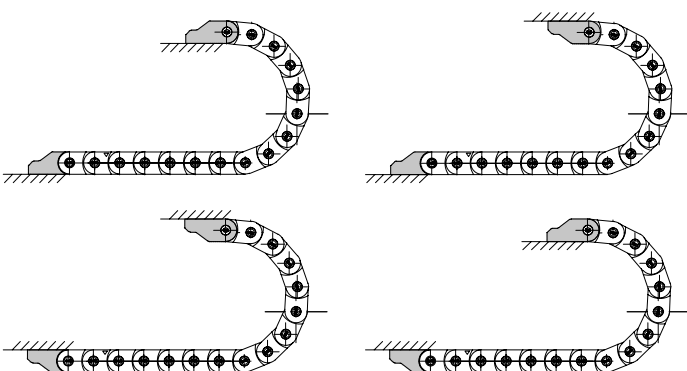
R075

Biegeradius
Bending radius



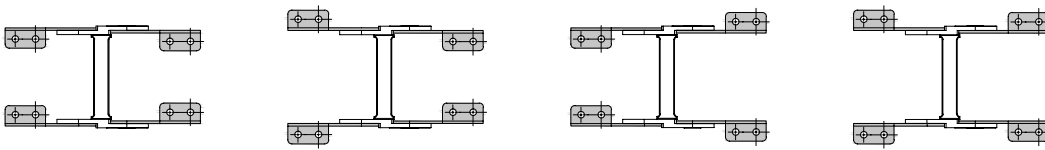
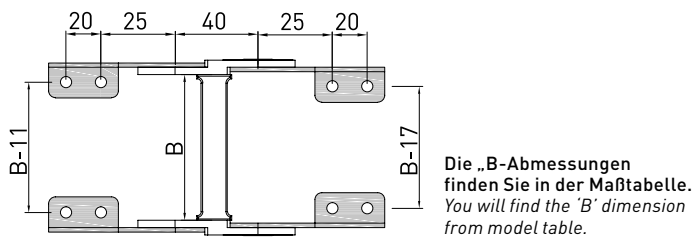
CK25 A	A	B	C	D	R	W
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK25 A 040 R ...	25	40	42	62	40, 75, 100, 125	1,044
CK25 A 050 R ...		50		72		1,092
CK25 A 060 R ...		60		82		1,140
CK25 A 080 R ...		80		102		1,236
CK25 A 100 R ...		100		122		1,332



Abmessungen der vertikalen Trennstegs / Separator dimensions**CK25 SP****Abmessungen der horizontalen Trennstegs / Separator dimensions****CK25 YSP****Abmessungen für Endstücke / End bracket assembly dimensions****CK25 P****Anordnungsbeispiele der Endstücke / End bracket assembly****CK25 P**

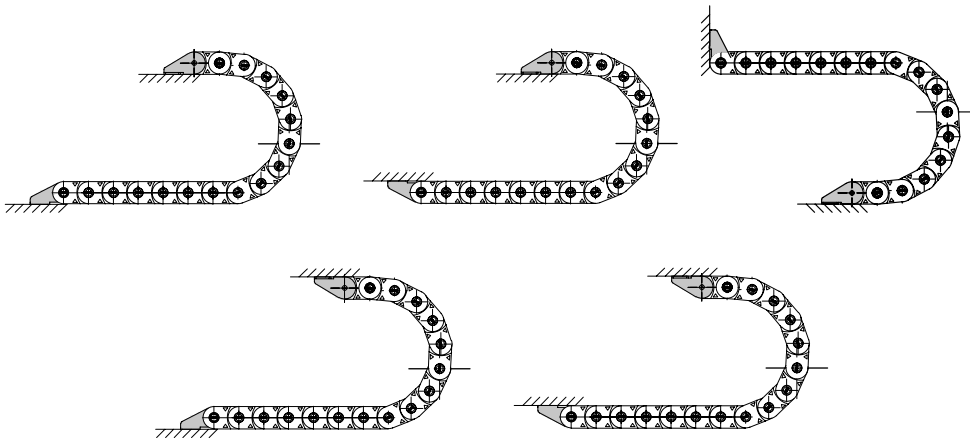
Abmessungen für Endstücke aus Stahl / Steel end bracket assembly dimensions

CK25 M



Anordnungsbeispiele der Endstücke aus Stahl / Steel end bracket assembly

CK25 M

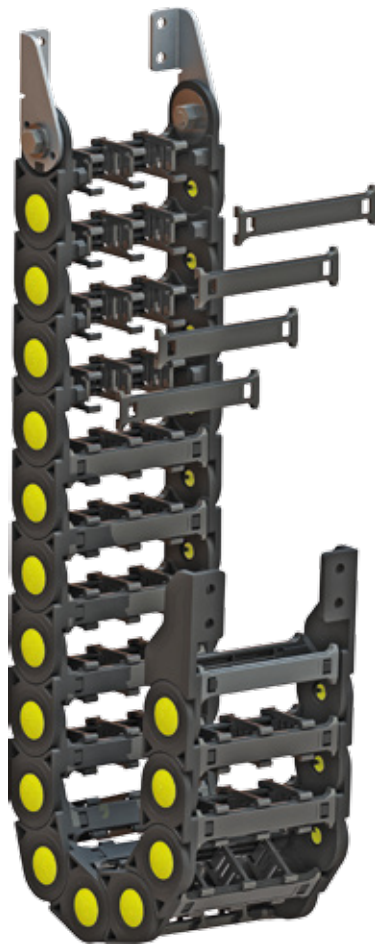


34-35

Medium Series

CK30 A

Von innen und außen zu öffnen /
Openable from inside and outside



Materialmerkmale

Material features

PA6 mit 30 % Glasfaser

PA6 with 30 % fiberglass

Geschwindigkeit

Speed

7 m/s

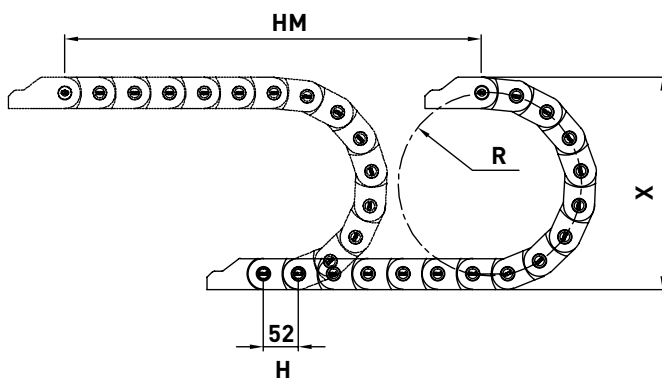
7 m/sec

Arbeitstemperatur

Operating temperature

-30 °C – + 130 °C

-30 °C – + 130 °C



L Berechnung der Kettenlänge
Calculation of chain length

HM Verfahrweg
Travel distance

X Montagehöhe
Mounting height

Y Bogenlänge
Arc length

H Achsabstand
Pitch

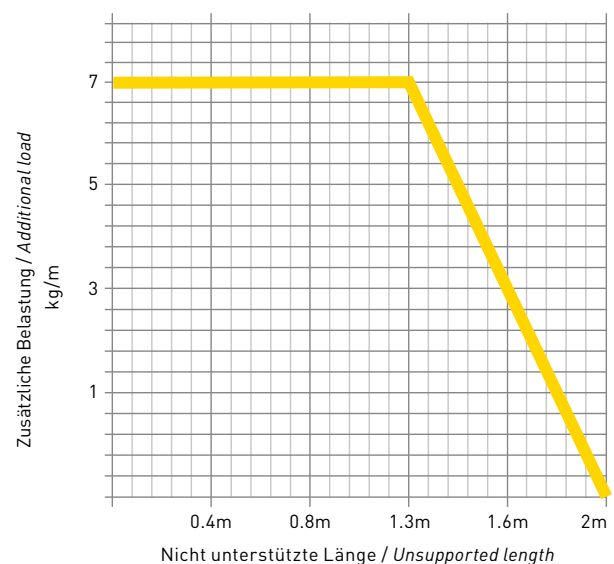
$$L = HM / 2 + Y$$

$$X = R \times 2 + C$$

$$Y = R \times \pi$$

Biegeradius / Bending radius	50	75	100	150
H (mm)	52	52	52	52
X (mm)	147	197	247	347
Y (mm)	157	236	314	471

Belastungsdiagramm / Load diagram



Matchcode

CK30

Innenhöhe
Inner height

A

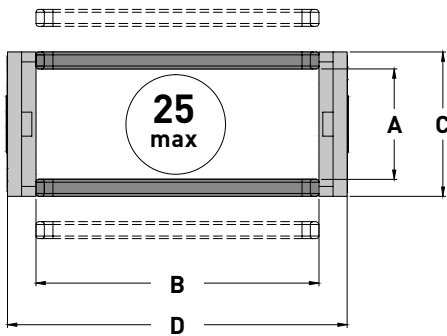
Offene Serie
Open series

060

Innenbreite
Inner width

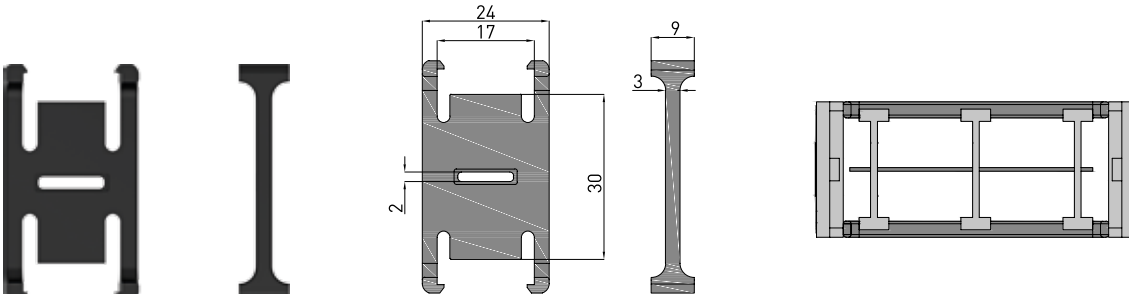
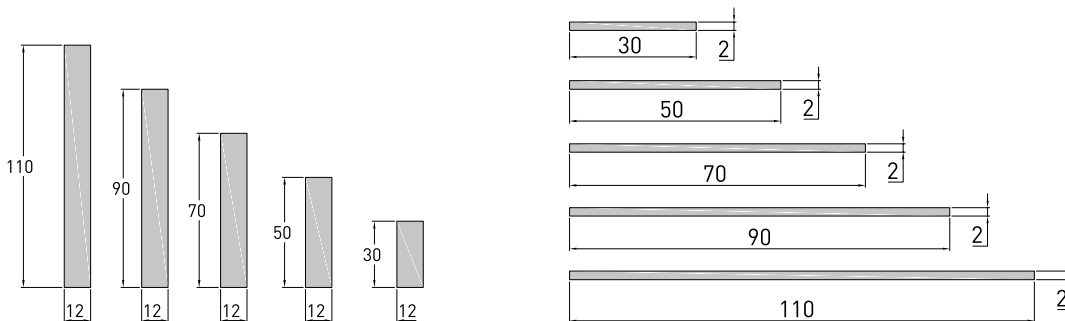
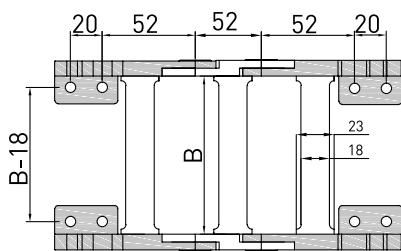
R100

Biegeradius
Bending radius

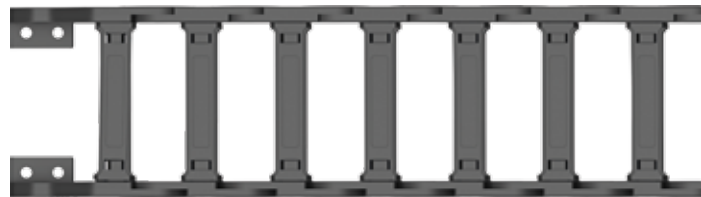
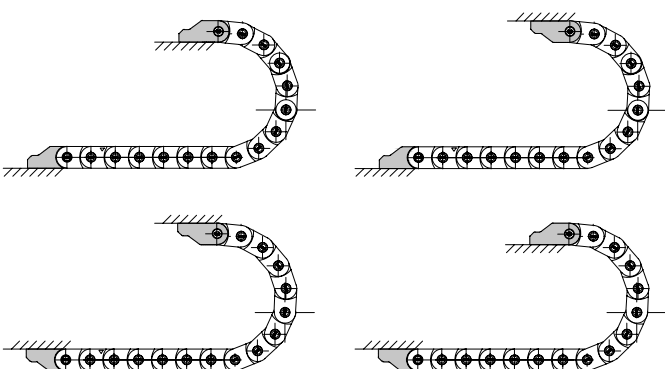


CK30 A	A	B	C	D	R	W
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK30 A 040 R ...	30	40	47	62	50, 75, 100, 125	1,152
CK30 A 050 R ...		50		72		1,190
CK30 A 060 R ...		60		82		1,228
CK30 A 080 R ...		80		102		1,304
CK30 A 100 R ...		100		122		1,380



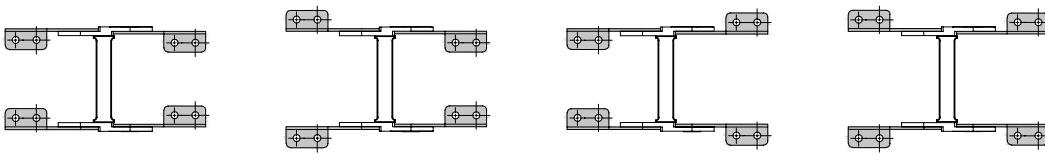
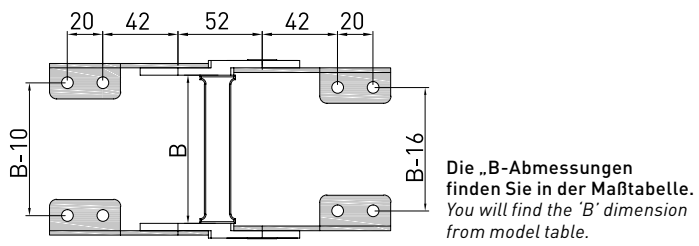
Abmessungen der vertikalen Trennstegs / Separator dimensions**CK30 SP****Abmessungen der horizontalen Trennstegs / Separator dimensions****CK30 YSP****Abmessungen für Endstücke / End bracket assembly dimensions****CK30 P**

Die „B-Abmessungen finden Sie in der Maßtabelle.
You will find the 'B' dimension from model table.

**Anordnungsbeispiele der Endstücke / End bracket assembly****CK30 P**

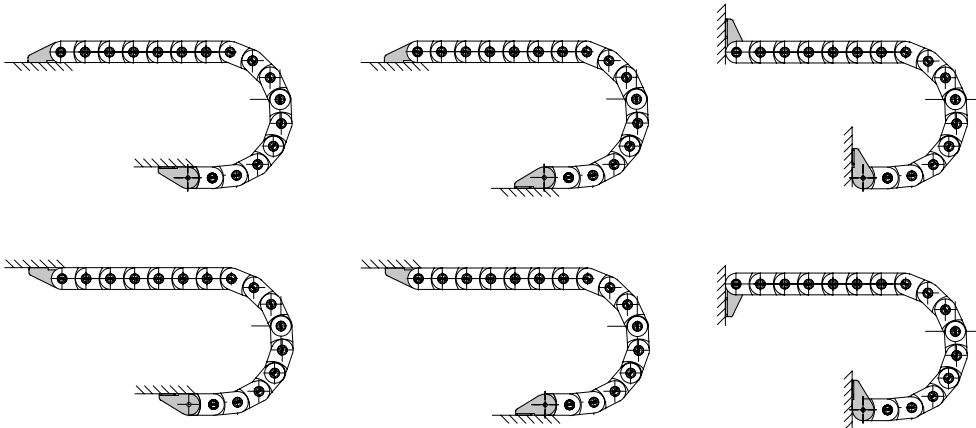
Abmessungen für Endstücke aus Stahl / Steel end bracket assembly dimensions

CK30 M



Anordnungsbeispiele der Endstücke aus Stahl / Steel end bracket assembly

CK30 M



38-39

Medium Series

CK35 A

CK35 K

CK35 Y



Materialmerkmale

Material features

PA6 mit 30 % Glasfaser

PA6 with 30 % fiberglass

Geschwindigkeit

Speed

7 m/s

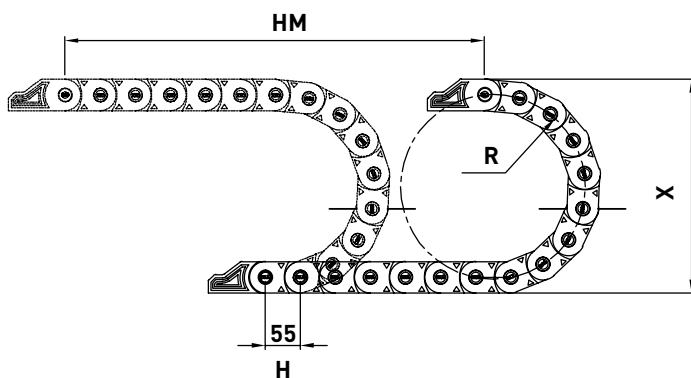
7 m/sec

Arbeitstemperatur

Operating temperature

-30 °C – + 130 °C

-30 °C – + 130 °C



L Berechnung der Kettenlänge
Calculation of chain length

HM Fahrweg
Travel distance

X Montagehöhe
Mounting height

Y Bogenlänge
Arc length

H Achsabstand
Pitch

$$L = HM / 2 + Y$$

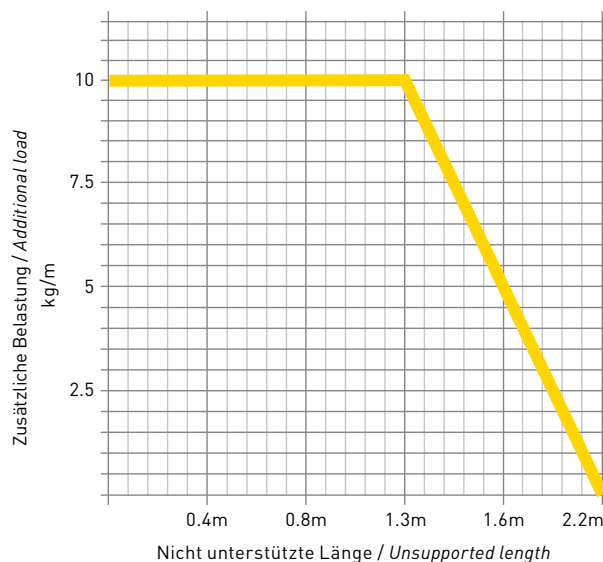
$$X = R \times 2 + C$$

$$Y = R \times \pi$$

Biegeradius / Bending radius	50	75	100	150
H (mm)	55	55	55	55
X (mm)	152	202	252	352
Y (mm)	157	236	314	471

Der geschlossene Deckel und der halb abgedeckte Produktradius werden ab R75 gestartet
The closed cover and half covered type product radius is started from R75

Belastungsdiagramm / Load diagram



CK35 A

Von innen und außen zu öffnen / Openable from inside and outside

Matchcode

CK35

Innenhöhe
Inner height

A

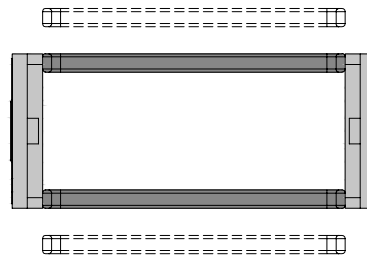
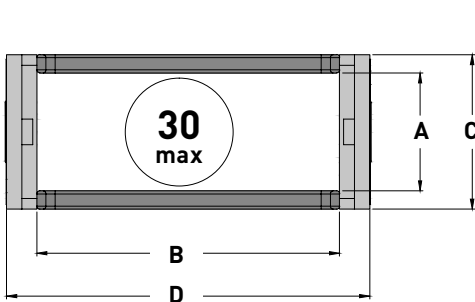
Offene Serie
Open series

060

Innenbreite
Inner width

R100

Biegeradius
Bending radius



CK35 A	A	B	C	D	R	W
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK35 A 040 R ...	35	40	52	64	50, 75, 100, 150	1,296
CK35 A 050 R ...		50		74		1,332
CK35 A 060 R ...		60		84		1,368
CK35 A 080 R ...		80		104		1,440
CK35 A 100 R ...		100		124		1,512
CK35 A 120 R ...		120		144		1,584
CK35 A 125 R ...		125		149		1,620
CK35 A 175 R ...		175		199		1,800



CK35 K

Von innen und außen zu öffnen / Openable from inside and outside

Matchcode

CK35

Innenhöhe
Inner height

K

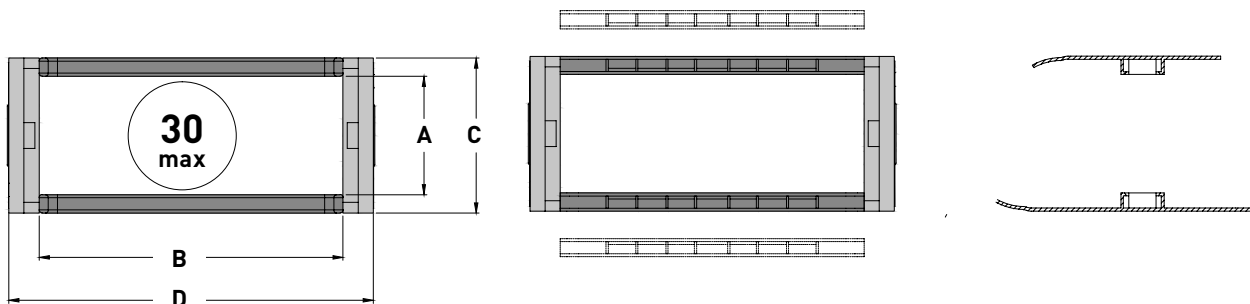
Geschlossene Serie
Closed series

060

Innenbreite
Inner width

R100

Biegeradius
Bending radius



CK35 K	A	B	C	D	R	W
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK35 K 040 R ...	35	40	52	64	75, 100, 150	1,494
CK35 K 060 R ...		60		84		1,656
CK35 K 080 R ...		80		104		1,836
CK35 K 100 R ...		100		124	100, 150	1,998
CK35 K 125 R ...		125		149		2,178



CK35 Y

Von innen und außen zu öffnen / Openable from inside and outside

Matchcode

CK35

Innenhöhe
Inner height

Y

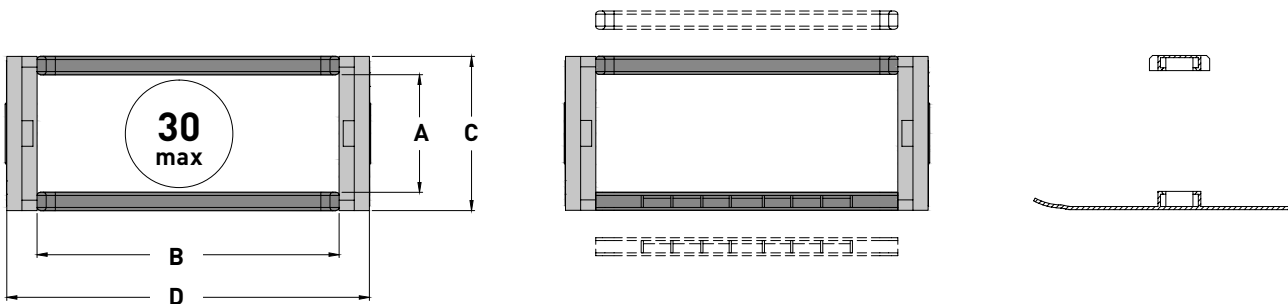
Halb geschlossen
Half covered

060

Innenbreite
Inner width

R100

Biegeradius
Bending radius

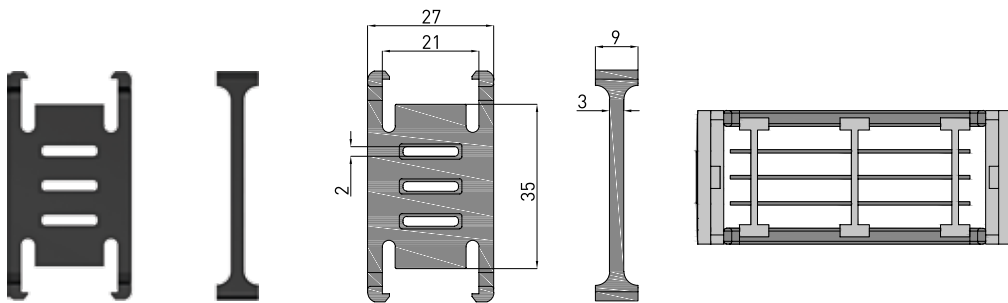


CK35 Y	A	B	C	D	R	W
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK35 Y 040 R ...	35	40	52	64	75, 100, 150	1,404
CK35 Y 060 R ...		60		84		1,530
CK35 Y 080 R ...		80		104		1,656
CK35 Y 100 R ...		100		124	100, 150	1,782
CK35 Y 125 R ...		125		149		1,926



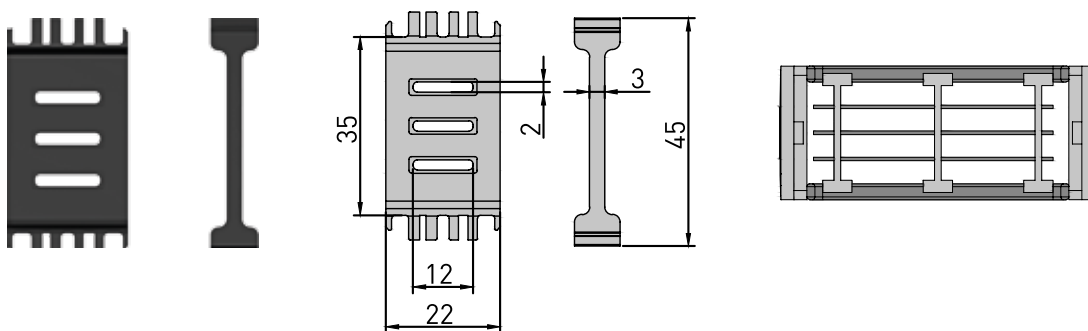
Abmessungen der vertikalen Trennsteg / Separator dimensions

CK35 SP



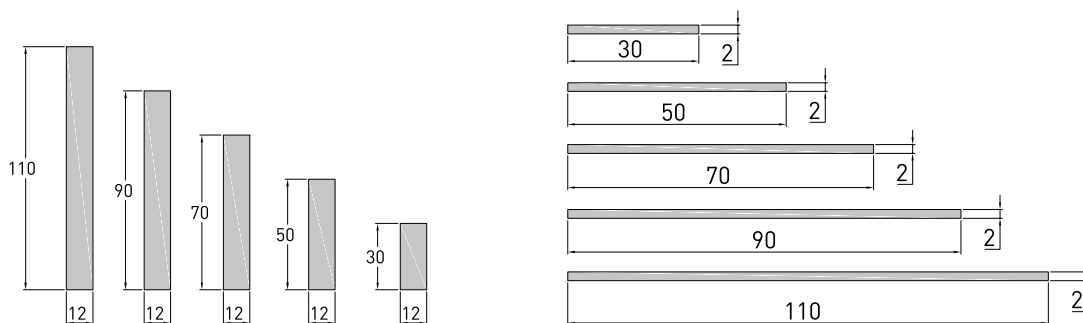
Abmessungen der vertikalen Trennsteg / Separator dimensions

CK35 KSP



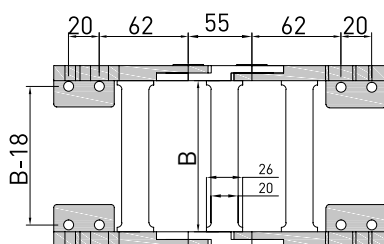
Abmessungen der horizontalen Trennsteg / Separator dimensions

CK35 YSP



Abmessungen für Endstücke / End bracket assembly dimensions

CK35 P



Die „B“-Abmessungen finden Sie in der Maßtabelle.
You will find the 'B' dimension from model table.

CK35 A



CK35 K

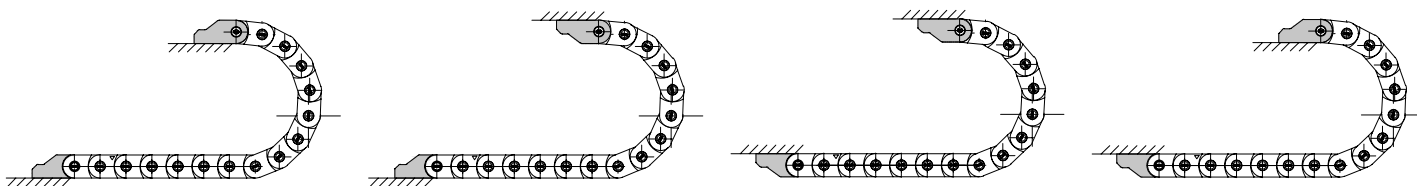


CK35 Y



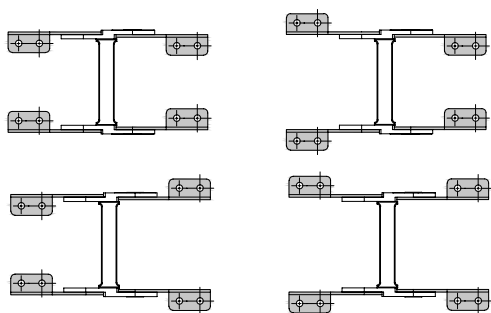
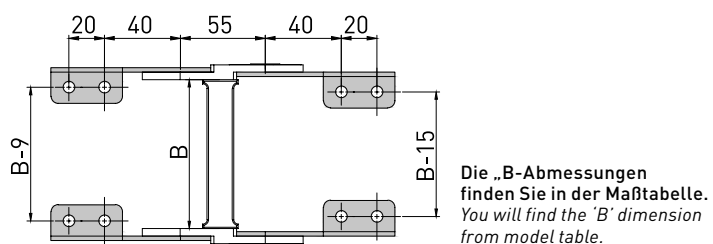
Anordnungsbeispiele der Endstücke / Plastic end bracket assembly

CK35 P



Abmessungen für Endstücke aus Stahl / Steel end bracket assembly dimensions

CK35 M



CK35 A



CK35 K

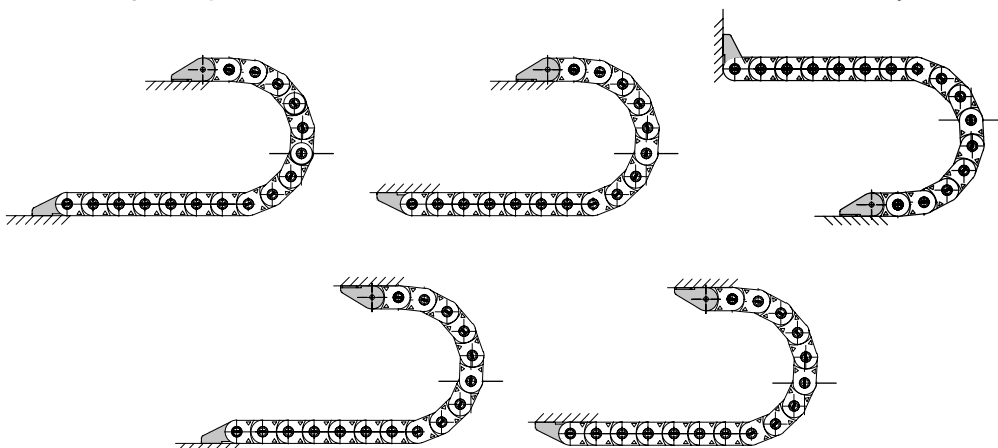


CK35 Y



Anordnungsbeispiele der Endstücke aus Stahl / Steel end bracket assembly

CK35 M



44-45

Medium Series

CK42 A

CK42 K

CK42 Y



Materialmerkmale

Material features

PA6 mit 30 % Glasfaser

PA6 with 30 % fiberglass

Geschwindigkeit

Speed

7 m/s

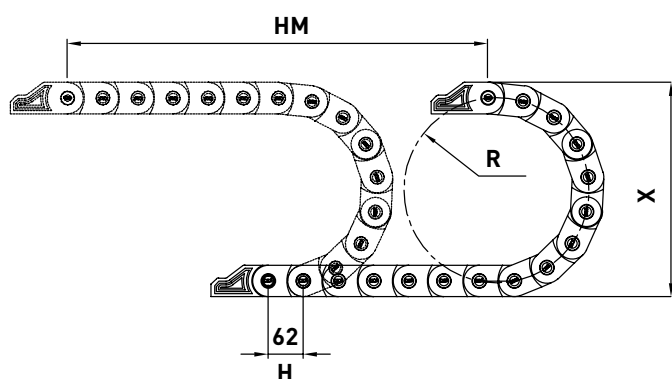
7 m/sec

Arbeitstemperatur

Operating temperature

-30 °C – + 130 °C

-30 °C – + 130 °C



L Berechnung der Kettenlänge
Calculation of chain length

HM Fahrweg
Travel distance

X Montagehöhe
Mounting height

Y Bogenlänge
Arc length

H Achsabstand
Pitch

$$L = HM / 2 + Y$$

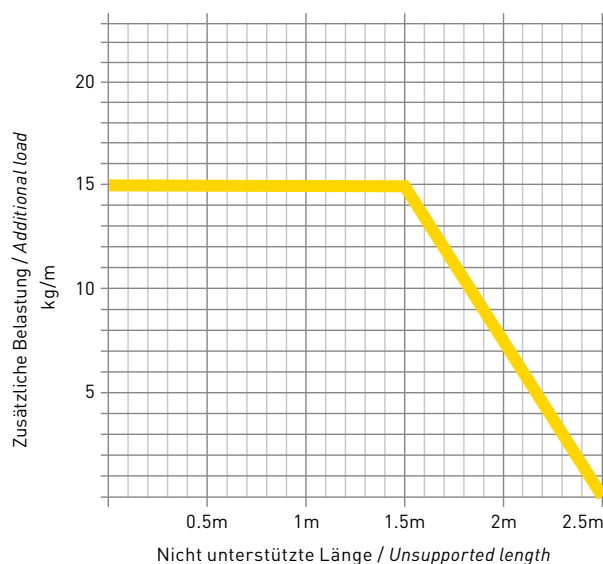
$$X = R \times 2 + C$$

$$Y = R \times \pi$$

Biegeradius / Bending radius	75	100	150	200
H (mm)	62	62	62	62
X (mm)	208	258	358	458
Y (mm)	236	314	471	628

Der geschlossene Deckel und der halb abgedeckte Produktradius werden ab R75 gestartet
The closed cover and half covered type product radius is started from R75

Belastungsdiagramm / Load diagram



CK42 A

Von innen und außen zu öffnen / Openable from inside and outside

Matchcode

CK42

Innenhöhe
Inner height

A

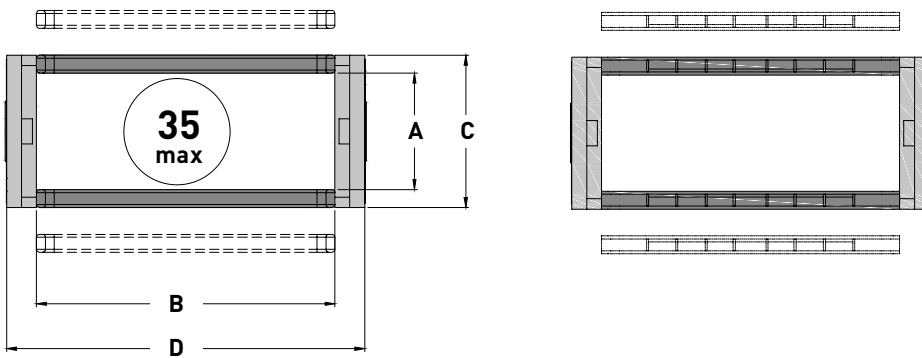
Offene Serie
Open series

050

Innenbreite
Inner width

R075

Biegeradius
Bending radius



CK42 A	A	B	C	D	R	W
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK42 A 040 R ...	42	40	58	67	75, 100, 150, 200	1,578
CK42 A 050 R ...		50		77		1,610
CK42 A 060 R ...		60		87		1,642
CK42 A 080 R ...		80		107		1,706
CK42 A 100 R ...		100		127		1,770
CK42 A 120 R ...		120		147		1,834
CK42 A 125 R ...		125		152		1,866
CK42 A 175 R ...		175		202		2,026



CK42 K

Von innen und außen zu öffnen / Openable from inside and outside

Matchcode

CK42

Innenhöhe
Inner height

K

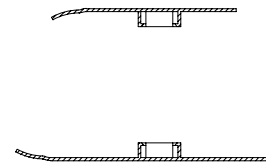
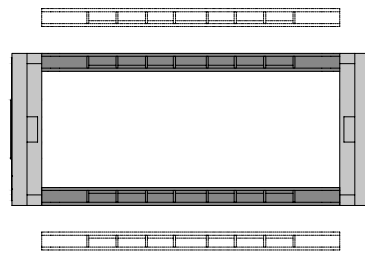
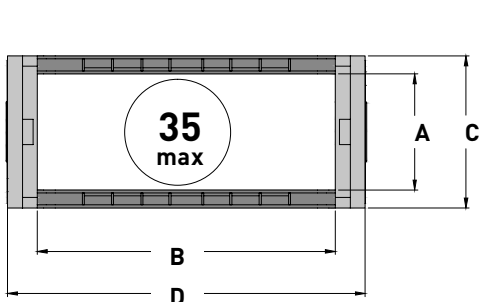
Geschlossene Serie
Closed series

080

Innenbreite
Inner width

R100

Biegeradius
Bending radius



CK42 K	A	B	C	D	R	W
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK42 K 050 R ...	42	50	58	77	100, 150, 200	1,866
CK42 K 080 R ...		80		107		2,122
CK42 K 100 R ...		100		127		2,298
CK42 K 125 R ...		125		152		2,490



CK42 Y

Von innen und außen zu öffnen / Openable from inside and outside

Matchcode

CK42

Innenhöhe
Inner height

Y

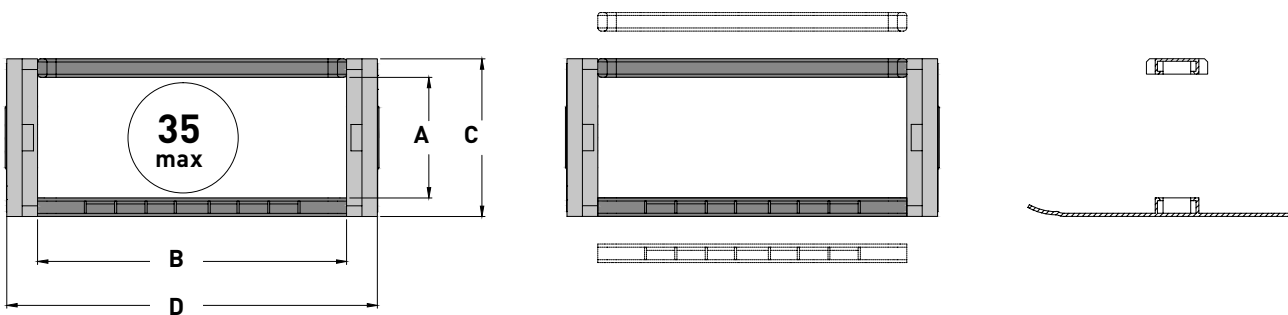
Halb geschlossen
Half covered

080

Innenbreite
Inner width

R100

Biegeradius
Bending radius

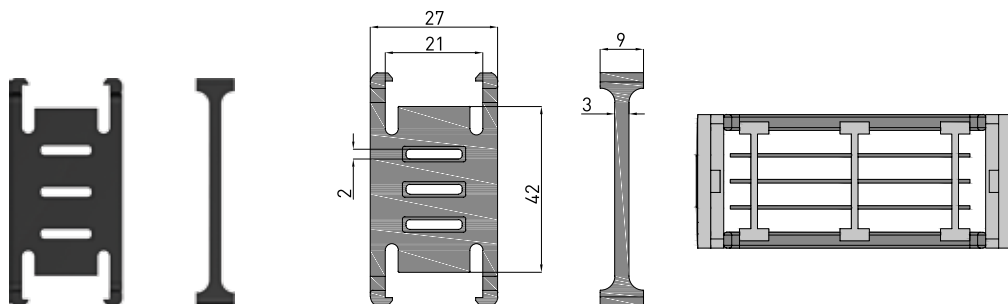


CK42 Y	A	B	C	D	R	W
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK42 Y 050 R ...	42	50	58	77	100, 150, 200	1,738
CK42 Y 080 R ...		80		107		1,930
CK42 Y 100 R ...		100		127		2,058
CK42 Y 125 R ...		125		152		2,022



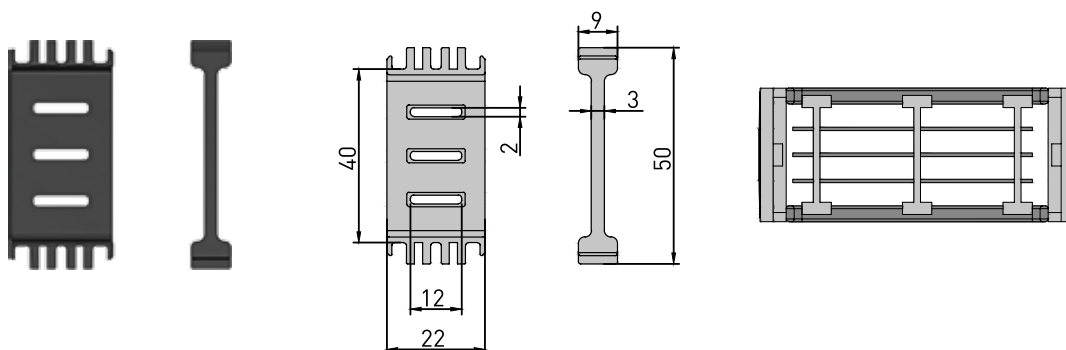
Abmessungen der vertikalen Trennsteg / Separator dimensions

CK42 SP



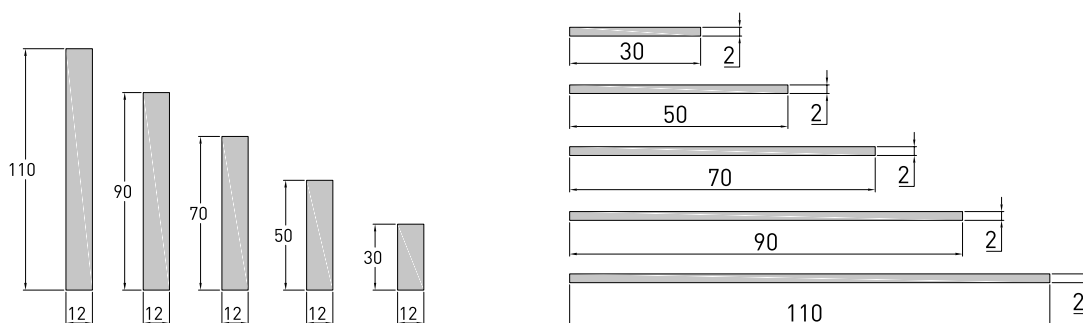
Abmessungen der vertikalen Trennsteg / Separator dimensions

CK42 KSP



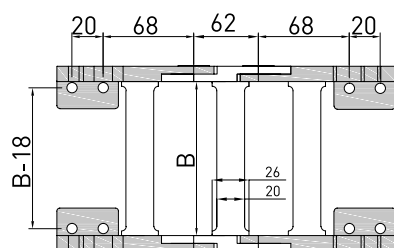
Abmessungen der horizontalen Trennsteg / Separator dimensions

CK42 YSP



Abmessungen für Endstücke / End bracket assembly dimensions

CK42 P



Die „B“-Abmessungen
finden Sie in der Maßtabelle.
You will find the 'B' dimension
from model table.

CK42 A



CK42 K

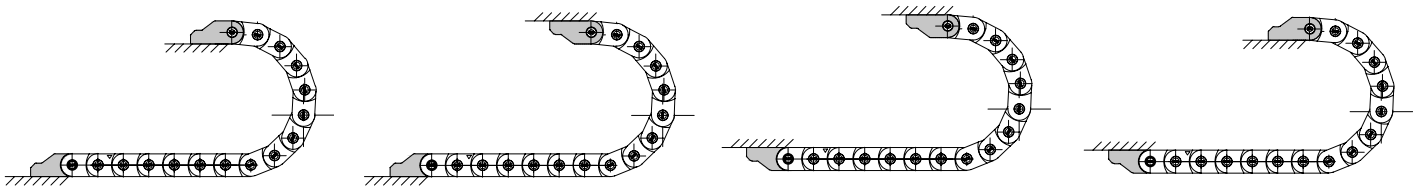


CK42 Y



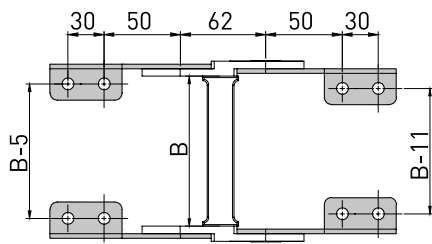
Anordnungsbeispiele der Endstücke / End bracket assembly

CK42 P

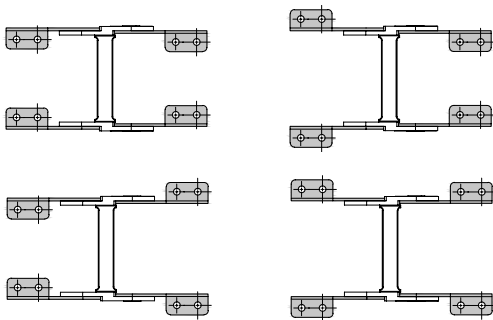


Abmessungen für Endstücke aus Stahl / Steel end bracket assembly dimensions

CK42 M



Die „B-Abmessungen finden Sie in der Maßtabelle.
You will find the „B“ dimension from model table.



CK42 A



CK42 K

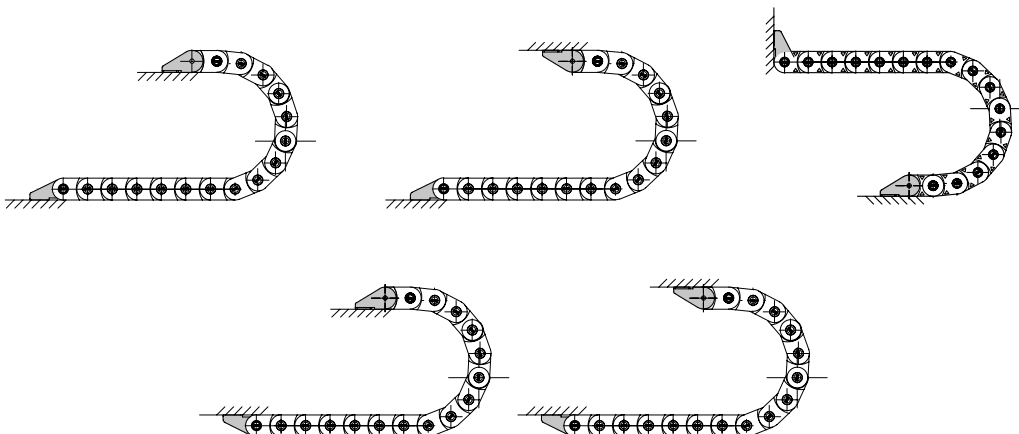


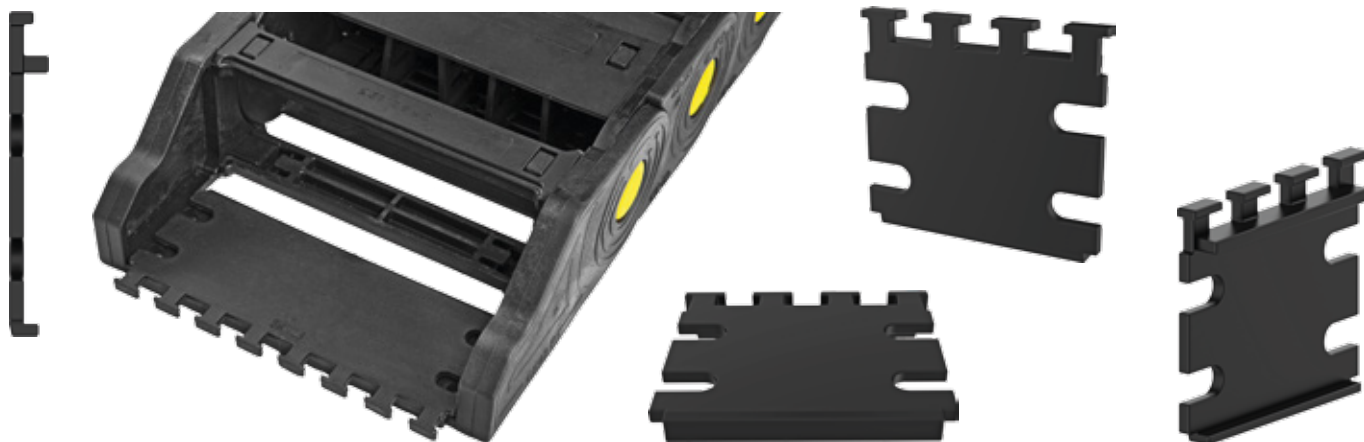
CK42 Y



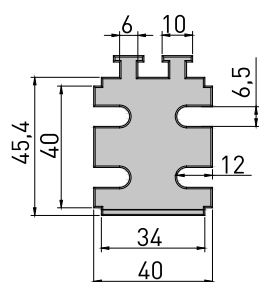
Anordnungsbeispiele der Endstücke aus Stahl / Steel end bracket assembly

CK42 M

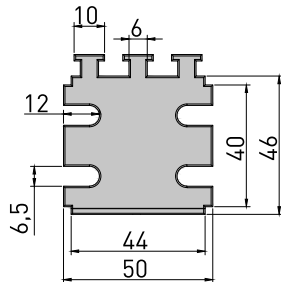


Zugentlastung aus Kunststoff / Plastic strain relief

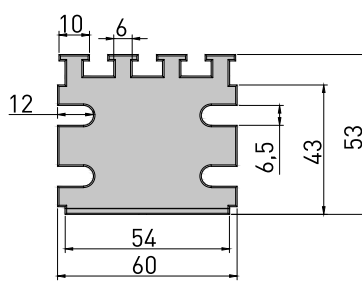
CK SR 040



CK SR 050

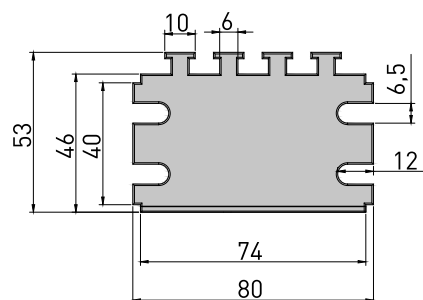


CK SR 060

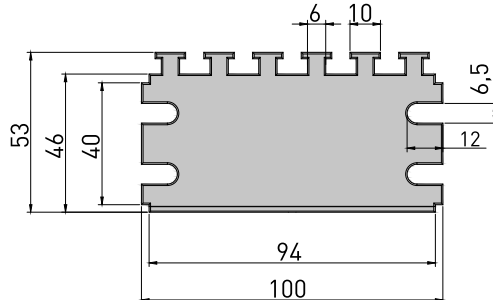


CK SR

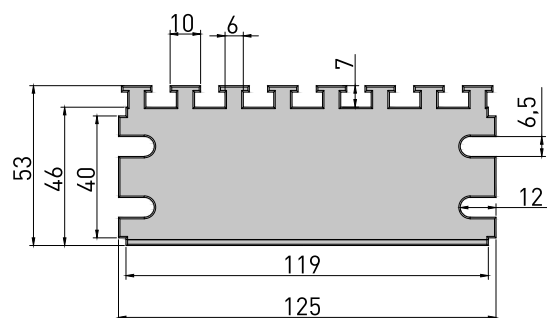
CK SR 080

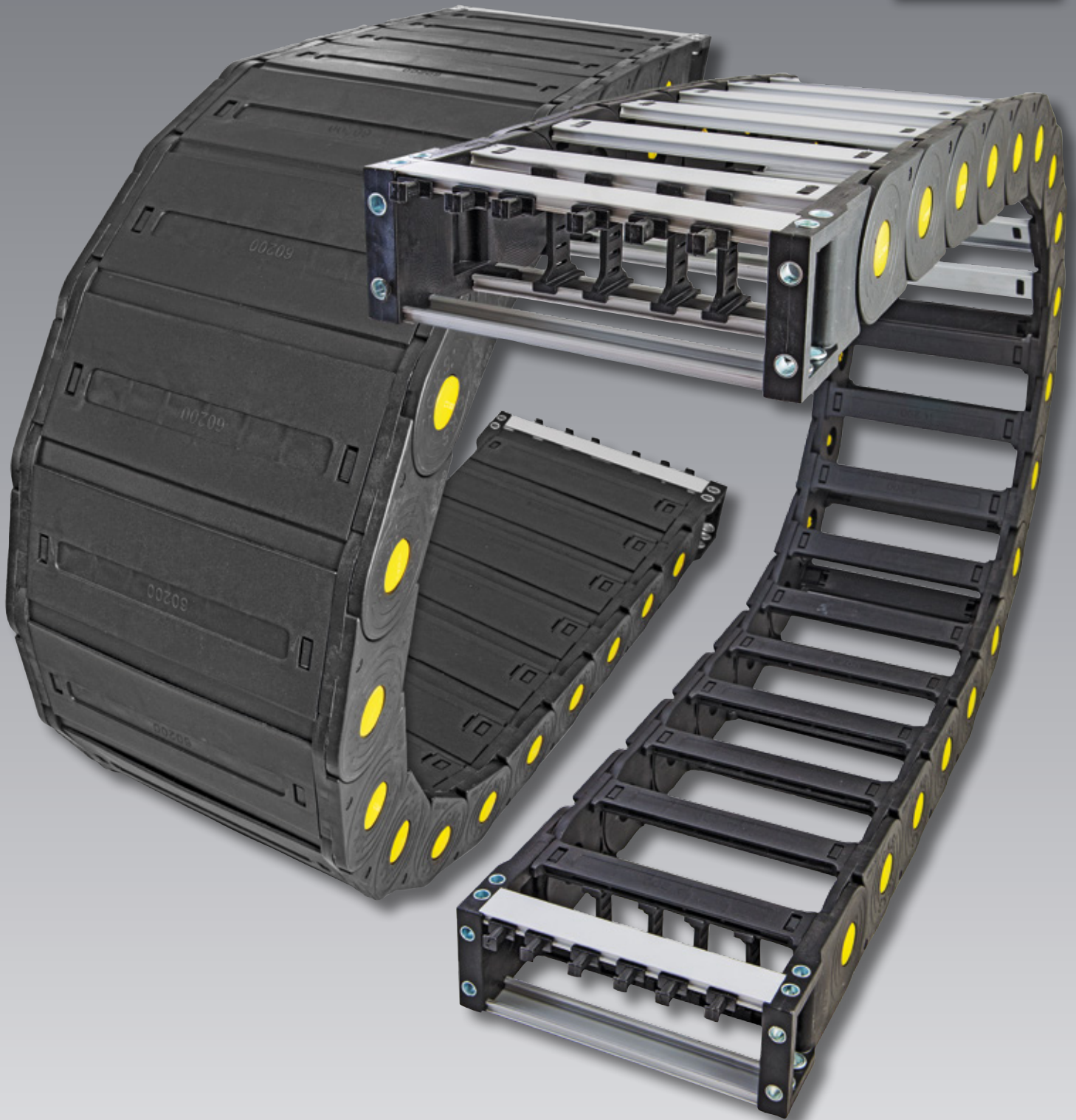


CK SR 100



CK SR 125





„Heavy Series“, Kunststoff / Aluminium

Plastic Heavy Series

CK40 A-AL-K-Y Series

CK60 A-AL-K-Y Series

CK80 A-AL Series

52-53

Heavy Series

CK40 A
CK40 AL
CK40 K
CK40 Y



Materialmerkmale

Material features

PA6 mit 30 % Glasfaser

PA6 with 30 % fiberglass

Geschwindigkeit

Speed

5 m/s

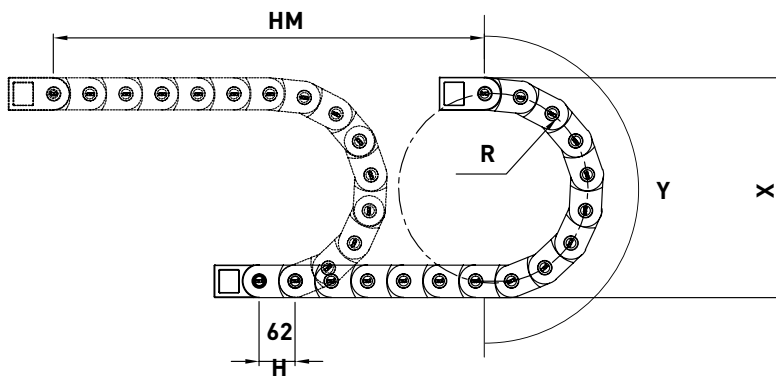
5 m/sec

Arbeitstemperatur

Operating temperature

-30 °C – + 130 °C

-30 °C – + 130 °C



- L** Berechnung der Kettenlänge
Calculation of chain length
- HM** Verfahrensweg
Travel distance
- X** Montagehöhe
Mounting height
- Y** Bogenlänge
Arc length
- H** Achsabstand
Pitch

$$L = HM / 2 + Y$$

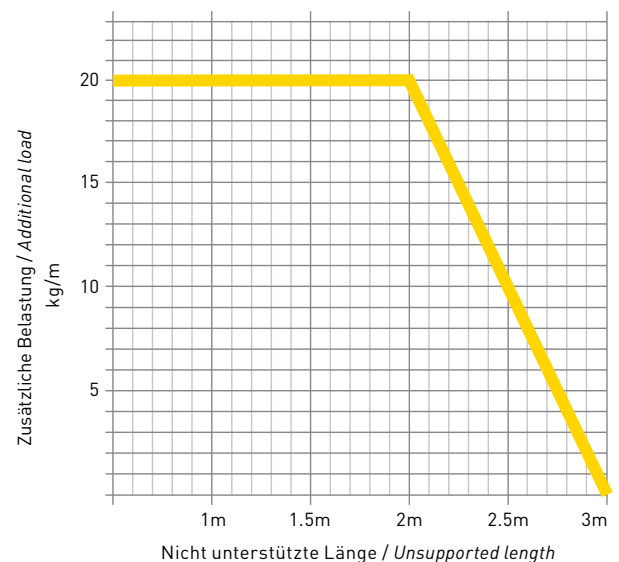
$$X = R \times 2 + C$$

$$Y = R \times \pi$$

Biegeradius / Bending radius	75	100	125	150	200	250	300
H (mm)	72	72	72	72	72	72	72
X (mm)	212	262	312	362	462	562	662
Y (mm)	236	314	392	471	628	785	942

Der geschlossene Deckel und der halb abgedeckte Produktradius werden ab R125 gestartet
The closed cover and half covered type product radius is started from R125

Belastungsdiagramm / Load diagram



CK40 A

Von innen und außen zu öffnen / Openable from inside and outside

Matchcode

CK40

Innenhöhe
Inner height

A

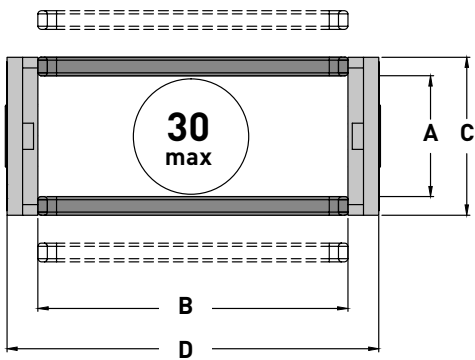
Offene Serie
Open series

080

Innenbreite
Inner width

R100

Biegeradius
Bending radius



CK40 A	A	B	C	D	R	W
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK40 A 080 R ...	40	80	62	108	75, 100, 125, 150, 200, 250, 300	2,348
CK40 A 100 R ...		100		128		2,516
CK40 A 120 R ...		120		148		2,684
CK40 A 140 R ...		140		168		2,824
CK40 A 160 R ...		160		188		2,936
CK40 A 180 R ...		180		208		3,048
CK40 A 200 R ...		200		228		3,272



CK40 AL

Von innen und außen zu öffnen / Openable from inside and outside

Matchcode

CK40

Innenhöhe
Inner height

AL

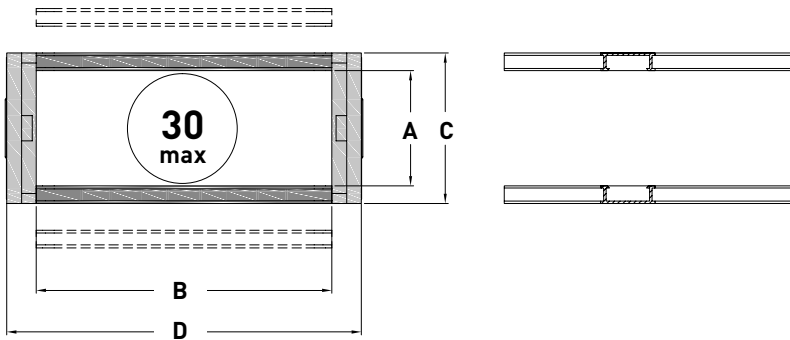
Offene Serie
Open series

500

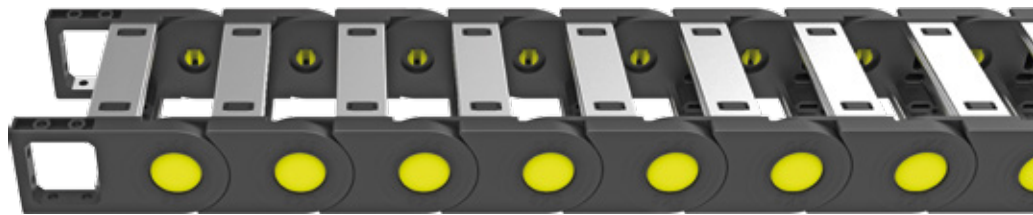
Innenbreite
Inner width

R300

Biegeradius
Bending radius



CK40 AL	A	B	C	D	R	W
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK40 AL 250 R ...	40	250	62	278	75, 100, 125, 150, 200, 250, 300	3,552
CK40 AL 300 R ...		300		328		3,888
CK40 AL 400 R ...		400		428		4,560
CK40 AL 500 R ...		500		528		5,232



CK40 K

Von innen und außen zu öffnen / Openable from inside and outside

Matchcode

CK40

Innenhöhe
Inner height

K

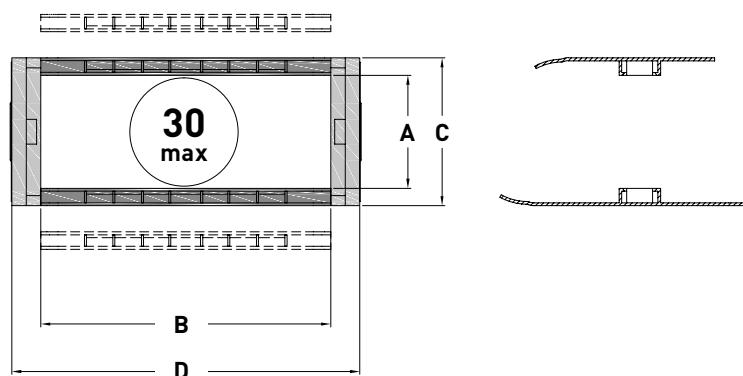
Geschlossene Serie
Closed series

100

Innenbreite
Inner width

R250

Biegeradius
Bending radius



CK40 K	A	B	C	D	R	W
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK40 K 100 R ...	40	100	62	128	125, 150, 200, 250, 300	2,810



CK40 Y

Von innen und außen zu öffnen / Openable from inside and outside

Matchcode

CK40

Innenhöhe
Inner height

Y

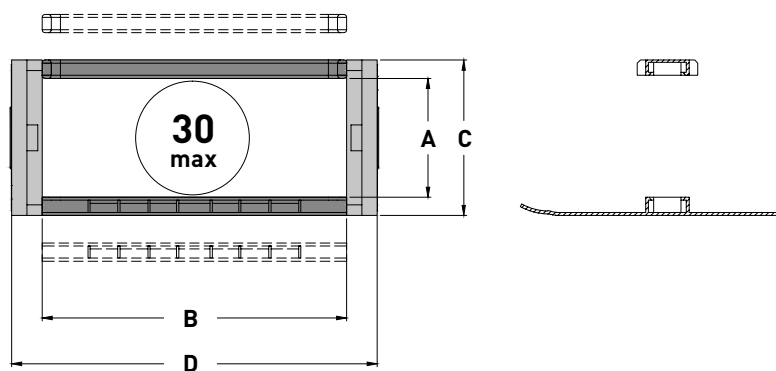
Halb geschlossen
Half covered

100

Innenbreite
Inner width

R250

Biegeradius
Bending radius

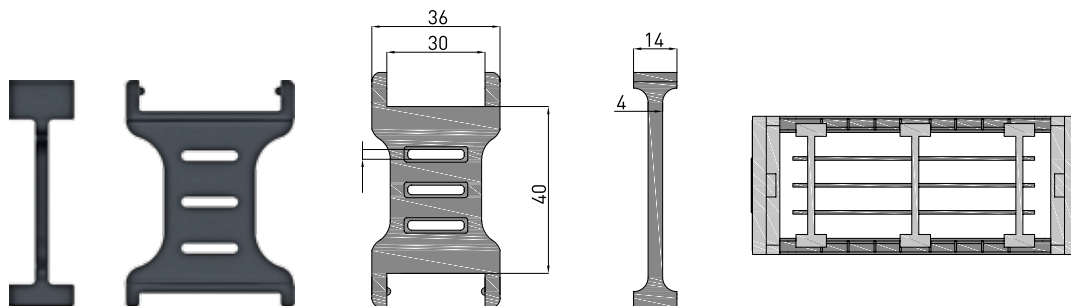


CK40 Y	A	B	C	D	R	W
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK40 Y 100 R ...	40	100	62	128	125, 150, 200, 250, 300	2,600



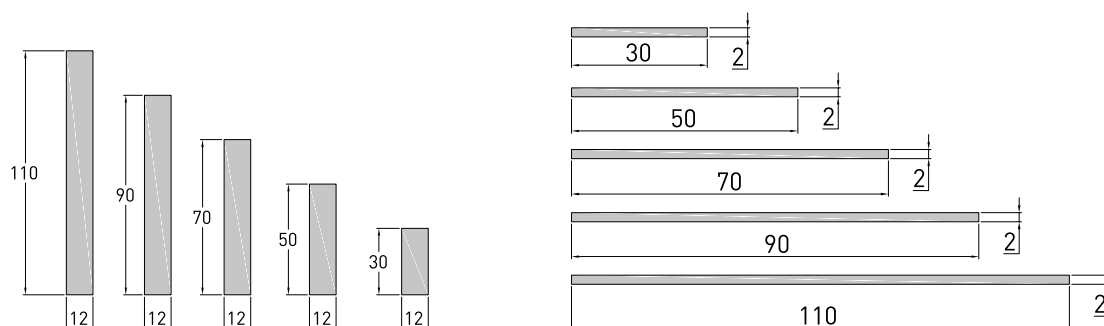
Abmessungen der vertikalen Trennsteg / Separator dimensions

CK40 SP



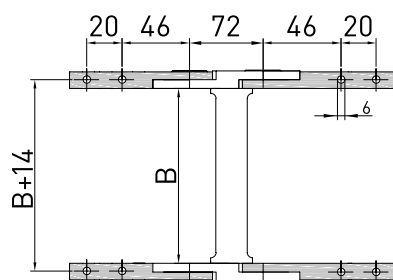
Abmessungen der horizontalen Trennsteg / Separator dimensions

CK40 YSP



Abmessungen für Endstücke / End bracket assembly dimensions

CK40 P



Die „B“-Abmessungen
finden Sie in der Maßtabelle.
You will find the 'B' dimension
from model table.

CK40 A

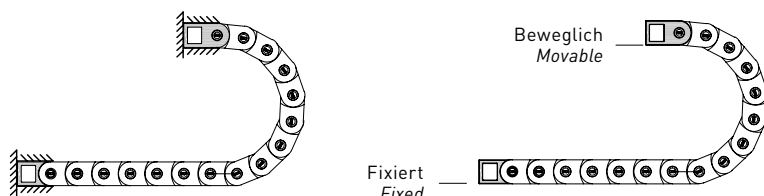
CK40 AL

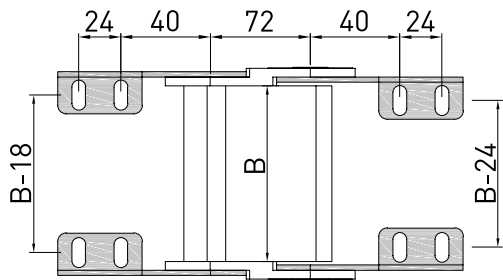
CK40 K

CK40 Y

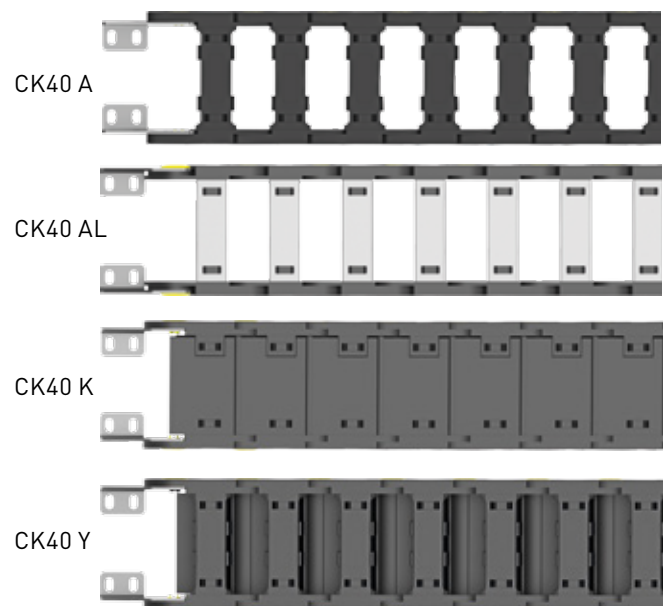
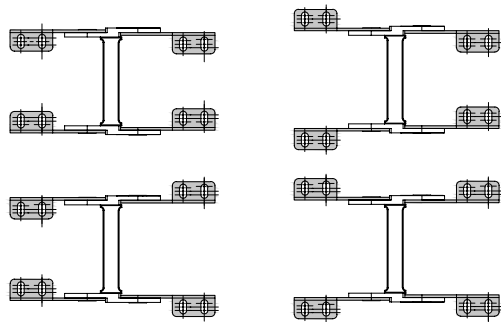
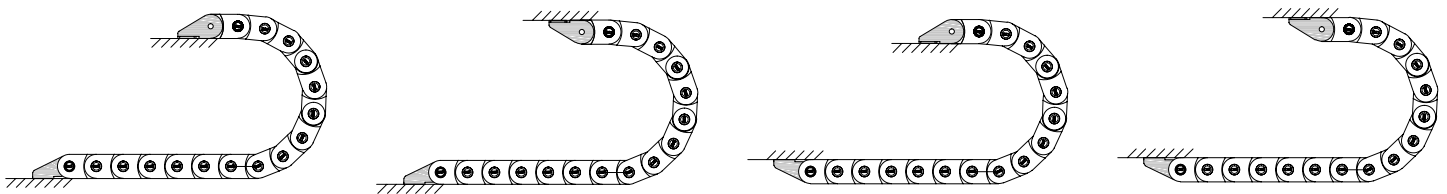
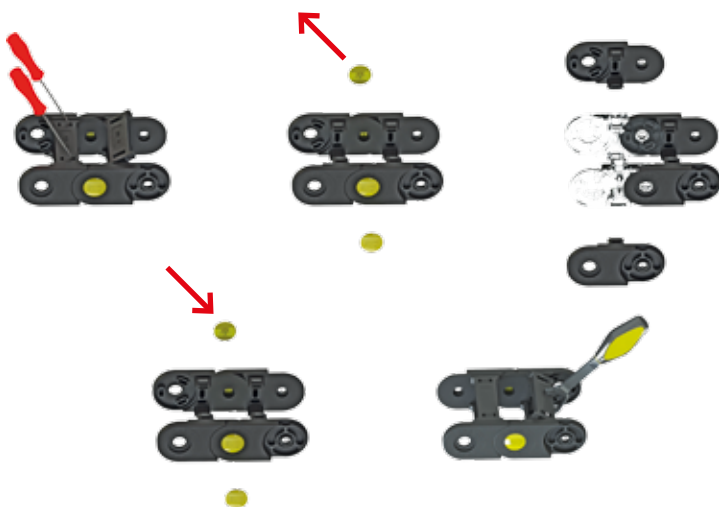
Anordnungsbeispiele der Endstücke / End bracket assembly

CK40 P



Abmessungen für Endstücke aus Stahl / Steel end bracket assembly dimensions**CK40 M**

Die „B“-Abmessungen
finden Sie in der Maßtabelle.
You will find the 'B' dimension
from model table.

**Anordnungsbeispiele der Endstücke aus Stahl / Steel end bracket assembly****CK40 M****Montage-Demontage-Anleitung / Assembly-disassembly-instruction**



60-61

Heavy Series

CK60 A
CK60 AL
CK60 K
CK60 Y



Materialmerkmale

Material features

PA6 mit 30 % Glasfaser

PA6 with 30 % fiberglass

Geschwindigkeit

Speed

4 m/s

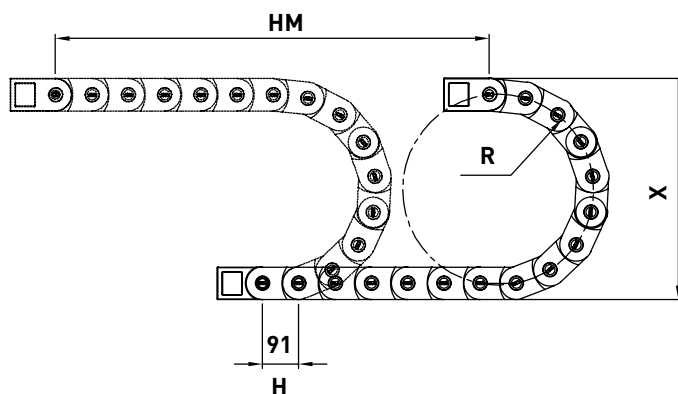
4 m/sec

Arbeitstemperatur

Operating temperature

-30 °C – + 130 °C

-30 °C – + 130 °C



L Berechnung der Kettenlänge
Calculation of chain length

HM Verfahrensweg
Travel distance

X Montagehöhe
Mounting height

Y Bogenlänge
Arc length

H Achsabstand
Pitch

$$L = HM / 2 + Y$$

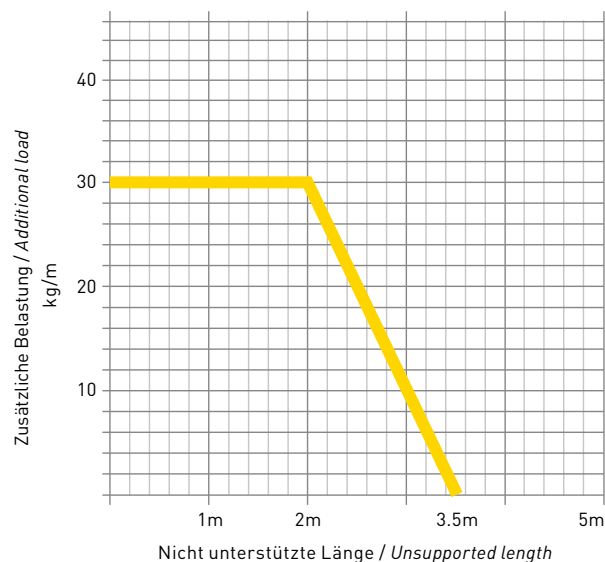
$$X = R \times 2 + C$$

$$Y = R \times \pi$$

Biegeradius / Bending radius	100	150	200	250	300
H (mm)	91	91	91	91	91
X (mm)	282	382	482	582	682
Y (mm)	314	471	628	785	942

Der geschlossene Deckel und der halb abgedeckte Produktradius werden ab R150 gestartet
The closed cover and half covered type product radius is started from R150

Belastungsdiagramm / Load diagram



CK60 A

Von innen und außen zu öffnen / Openable from inside and outside

Matchcode

CK60

Innenhöhe
Inner height

A

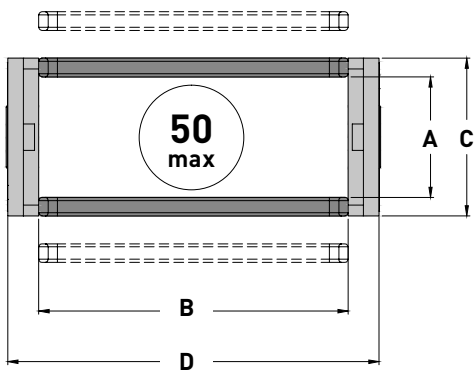
Offene Serie
Open series

080

Innenbreite
Inner width

R100

Biegeradius
Bending radius



CK60 A	A	B	C	D	R	W
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK60 A 080 R ...	60	80	82	112	100, 150, 200, 250, 300	3,120
CK60 A 100 R ...		100		132		3,252
CK60 A 120 R ...		120		152		3,384
CK60 A 140 R ...		140		172		3,494
CK60 A 160 R ...		160		192		3,582
CK60 A 180 R ...		180		212		3,670
CK60 A 200 R ...		200		232		3,846



CK60 AL

Von innen und außen zu öffnen / Openable from inside and outside

Matchcode

CK60

Innenhöhe
Inner height

AL

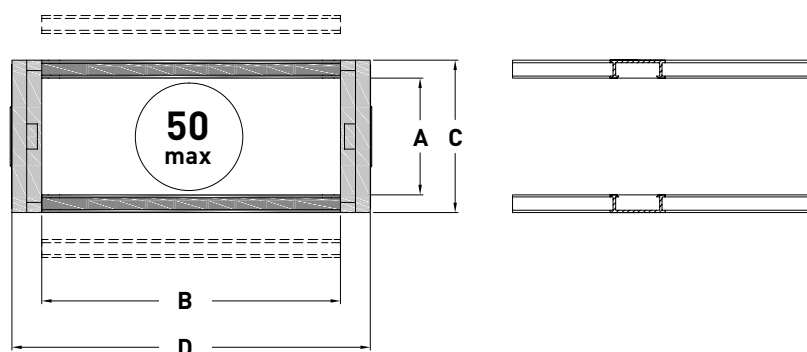
Offene Serie
Open series

500

Innenbreite
Inner width

R300

Biegeradius
Bending radius



CK60 AL	A	B	C	D	R	W
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK60 AL 250 R ...	60	250	82	282	100, 150, 200, 250, 300	4,065
CK60 AL 300 R ...		300		332		4,330
CK60 AL 400 R ...		400		432		4,858
CK60 AL 500 R ...		500		532		5,386



CK60 K

Von innen und außen zu öffnen / Openable from inside and outside

Matchcode

CK60

Innenhöhe
Inner height

K

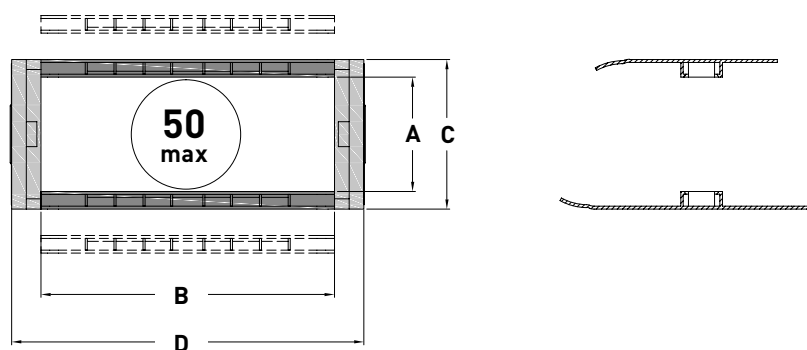
Geschlossene Serie
Closed series

100

Innenbreite
Inner width

R250

Biegeradius
Bending radius



CK60 K	A	B	C	D	R	W
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK60 K 100 R ...	60	100	82	132	150, 200, 250, 300	3,681
CK60 K 140 R ...	60	140	82	172		4,088
CK60 K 200 R ...	60	200	82	232		4,649



CK60 Y

Von innen und außen zu öffnen / Openable from inside and outside

Matchcode

CK60

Innenhöhe
Inner height

Y

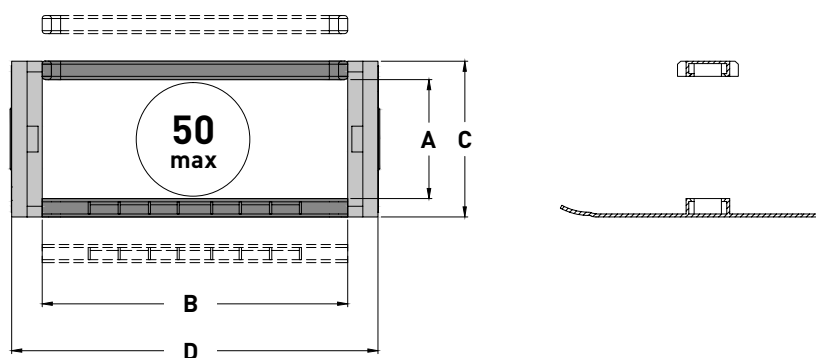
Halb geschlossen
Half covered

100

Innenbreite
Inner width

R250

Biegeradius
Bending radius

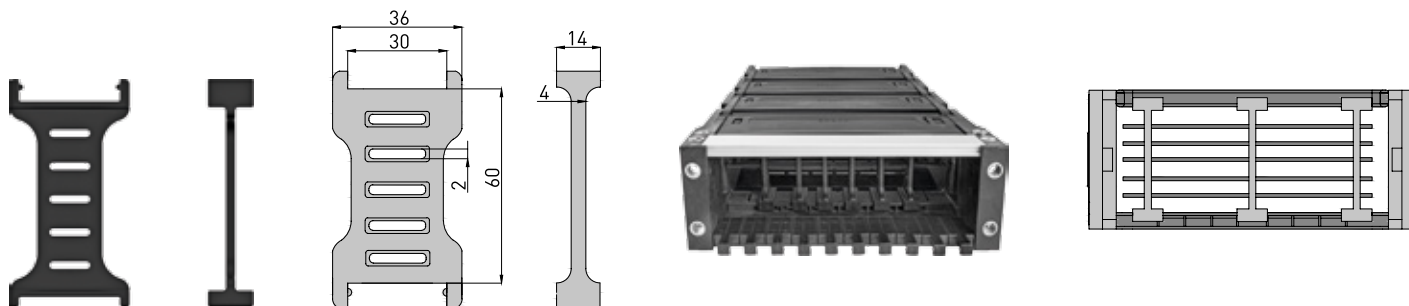


CK60 Y	A	B	C	D	R	W
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK60 Y 100 R ...	60	100	82	132	150, 200, 250, 300	3,417
CK60 Y 140 R ...	60	140	82	172		3,736
CK60 Y 200 R ...	60	200	82	232		4,220



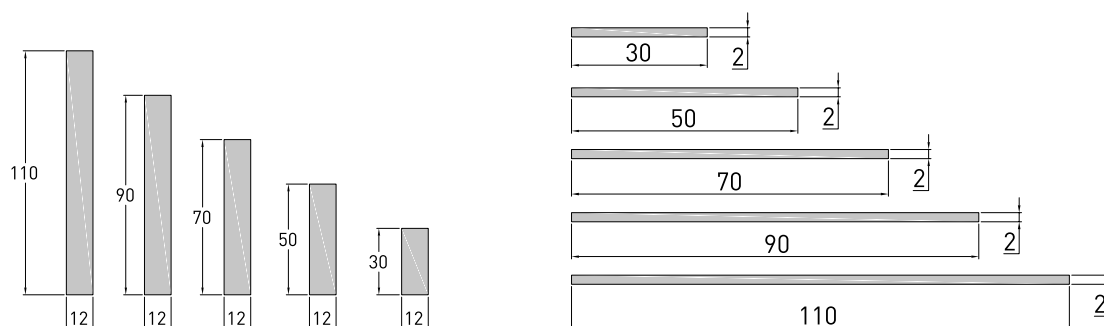
Abmessungen der vertikalen Trennsteg / Separator dimensions

CK60 SP



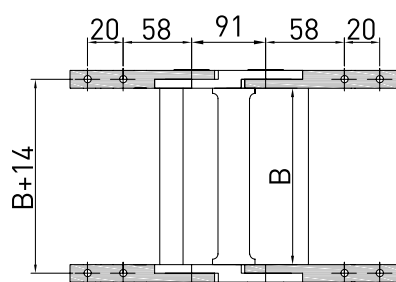
Abmessungen der horizontalen Trennsteg / Separator dimensions

CK60 YSP



Abmessungen für Endstücke / End bracket assembly dimensions

CK60 P



Die „B“-Abmessungen finden Sie
in der Maßtabelle.
You will find the 'B' dimension
from model table.

CK60 A

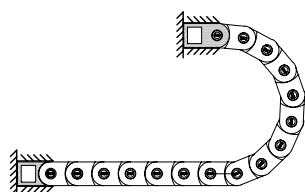
CK60 AL

CK60 K

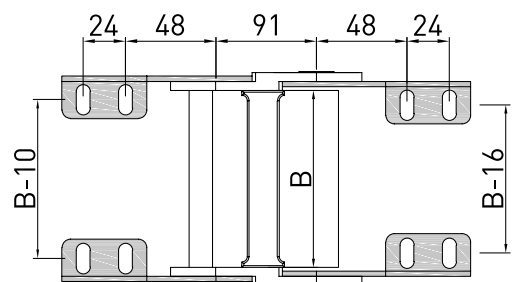
CK60 Y

Anordnungsbeispiele der Endstücke / Plastic end bracket assembly

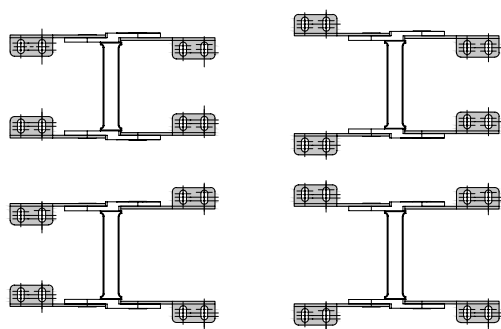
CK60 P



Abmessungen für Endstücke aus Stahl / Steel end bracket assembly dimensions



Die „B“-Abmessungen
finden Sie in der Maßtabelle.
You will find the 'B' dimension
from model table.



CK60 M

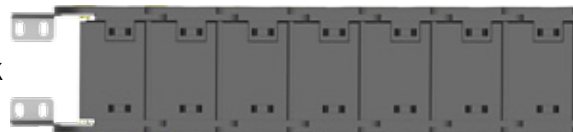
CK60 A



CK60 AL



CK60 K

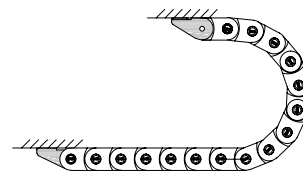
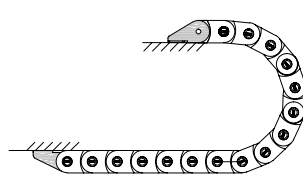
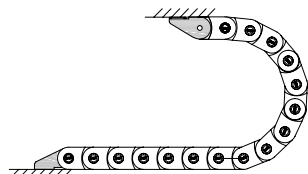
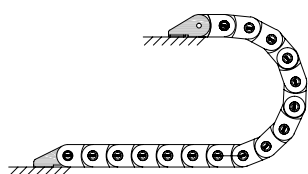


CK60 Y



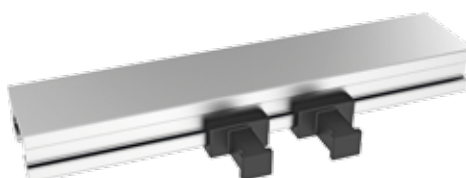
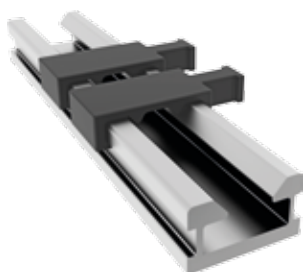
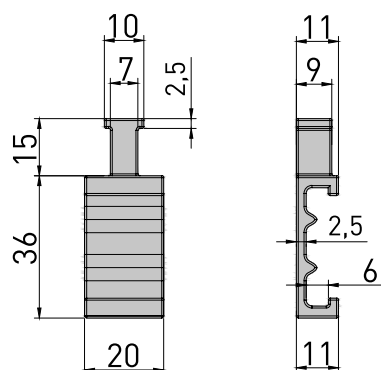
Anordnungsbeispiele der Endstücke aus Stahl / Steel end bracket assembly

CK60 M



Zugentlastung / *Strain relief*

CK SR1



CK60 SR

68-69

Heavy Series

CK80 A
CK80 AL



Materialmerkmale

Material features

PA6 mit 30 % Glasfaser

PA6 with 30 % fiberglass

Geschwindigkeit

Speed

4 m/s

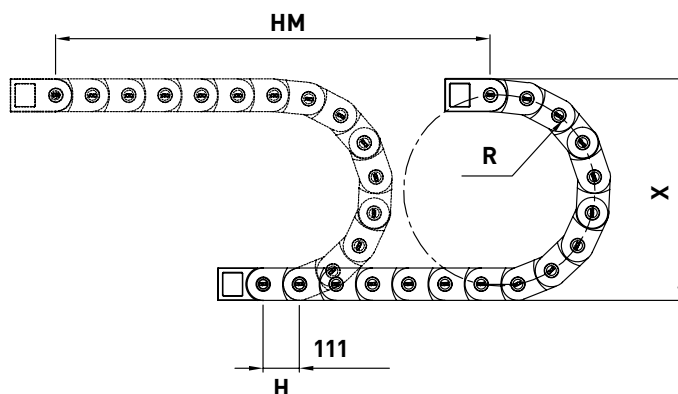
4 m/sec

Arbeitstemperatur

Operating temperature

-30 °C – + 130 °C

-30 °C – + 130 °C



L Berechnung der Kettenlänge

Calculation of chain length

HM Verfahrweg

Travel distance

X Montagehöhe

Mounting height

Y Bogenlänge

Arc length

H Achsabstand

Pitch

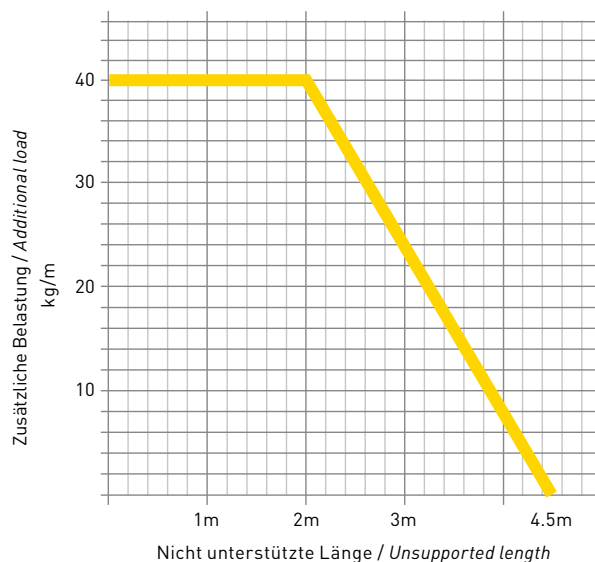
$$L = HM / 2 + Y$$

$$X = R \times 2 + C$$

$$Y = R \times \pi$$

Biegeradius / Bending radius	150	200	250	300
H (mm)	111	111	111	111
X (mm)	402	502	602	702
Y (mm)	471	628	785	942

Belastungsdiagramm / Load diagram



CK80 A

Von innen und außen zu öffnen / Openable from inside and outside

Matchcode

CK80

Innenhöhe
Inner height

A

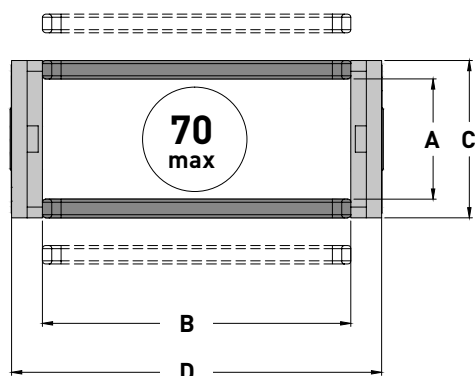
Offene Serie
Open series

200

Innenbreite
Inner width

R200

Biegeradius
Bending radius



CK80 A	A	B	C	D	R	W
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK80 A 080 R ...	80	80	102	112	150, 200, 250, 300	3,384
CK80 A 100 R ...		100		132		3,492
CK80 A 120 R ...		120		152		3,600
CK80 A 140 R ...		140		172		3,690
CK80 A 160 R ...		160		192		3,762
CK80 A 180 R ...		180		212		3,834
CK80 A 200 R ...		200		232		3,978



CK80 AL

Von innen und außen zu öffnen / Openable from inside and outside

Matchcode

CK80

Innenhöhe
Inner height

AL

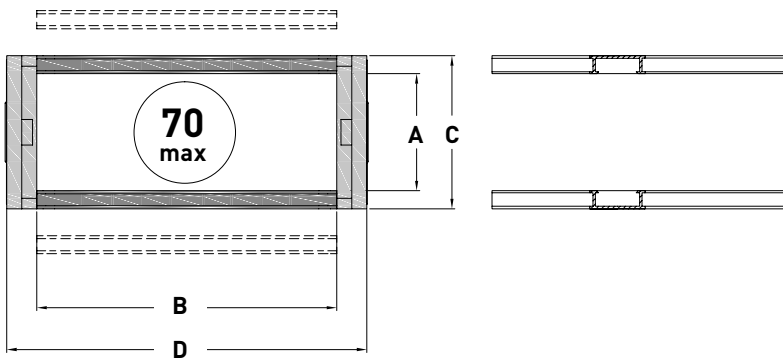
Offene Serie
Open series

400

Innenbreite
Inner width

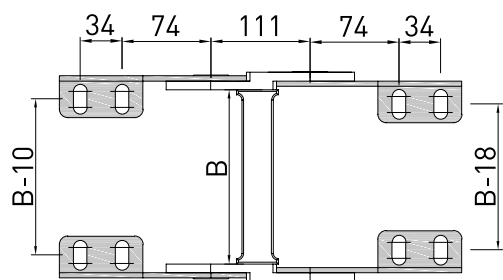
R300

Biegeradius
Bending radius

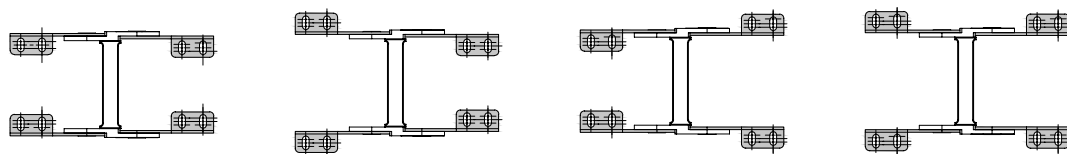
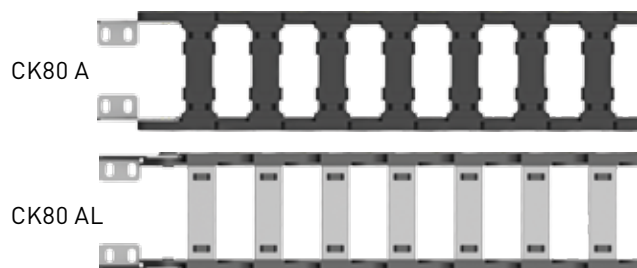
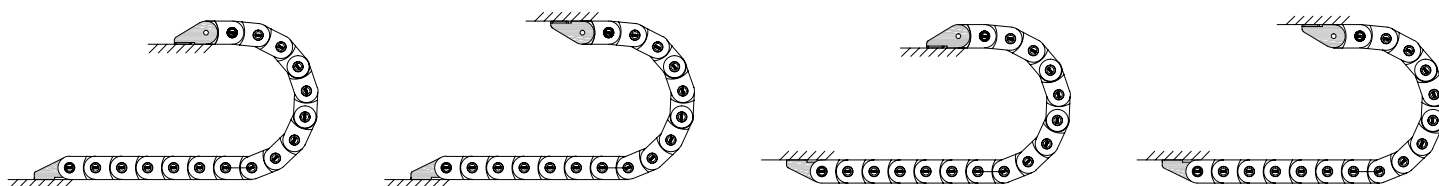
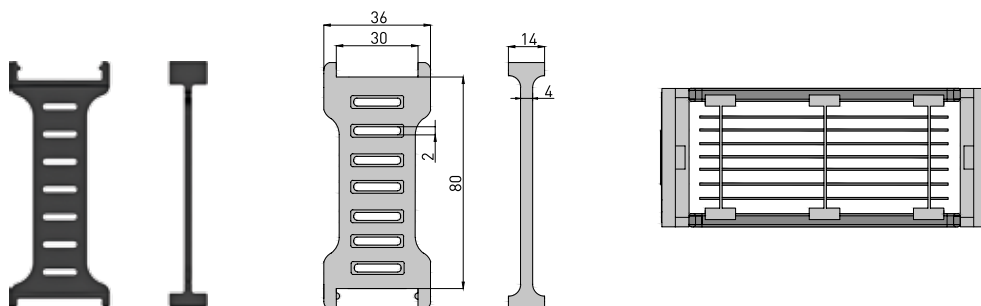
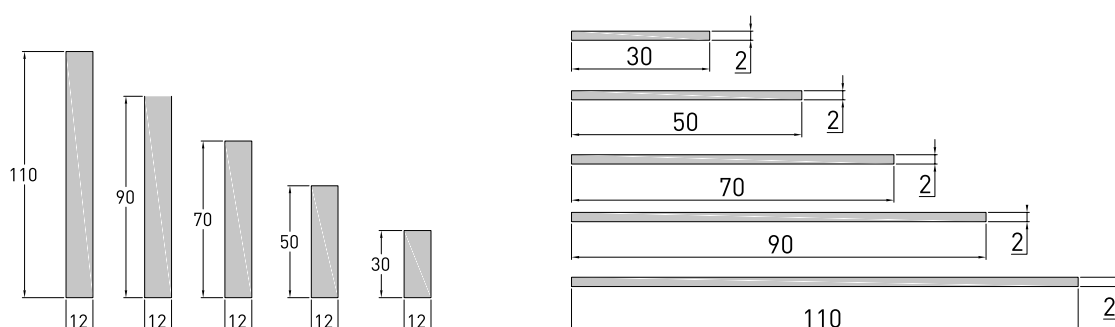


CK80 AL	A	B	C	D	R	W
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius	Gewicht kg/m Weight kg/m
CK80 AL 250 R ...	80	250	102	282	150, 200, 250, 300	4,158
CK80 AL 300 R ...		300		332		4,374
CK80 AL 400 R ...		400		432		4,806
CK80 AL 500 R ...		500		532		5,238



Abmessungen für Endstücke aus Stahl / Steel end bracket assembly dimensions**CK80 M**

Die „B“-Abmessungen finden Sie in der Maßtabelle.
You will find the 'B' dimension from model table.

**Anordnungsbeispiele der Endstücke aus Stahl / Steel end bracket assembly****CK80 M****Abmessungen der vertikalen Trennstegs / Separator dimensions****CK80 SP****Abmessungen der horizontalen Trennstegs / Separator dimensions****CK80 YSP**

„Steel Series“, Stahlausführung *Steel Series*

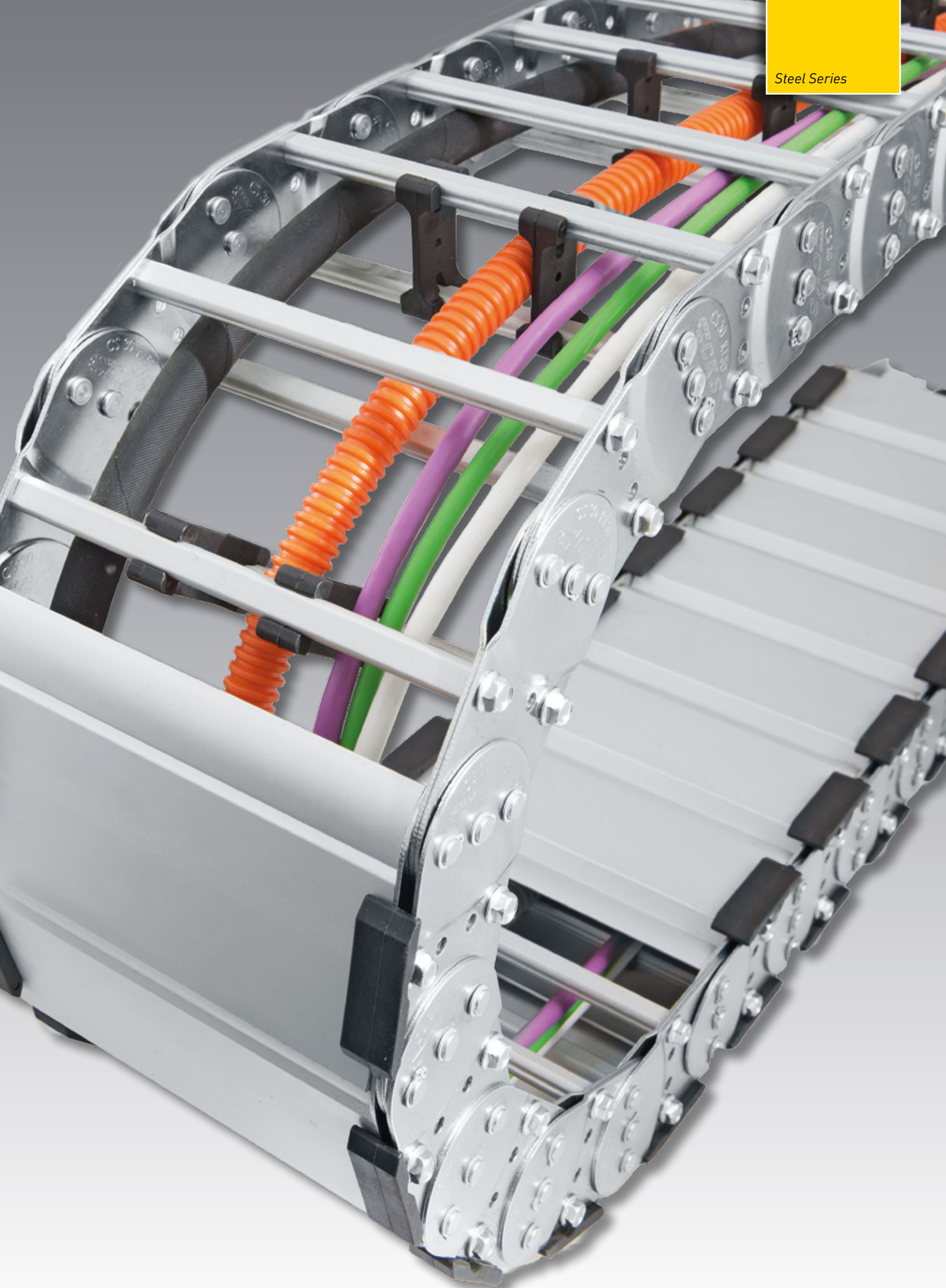
CS22 – CS250 Series

Allgemeine Spezifikationen / *General specifications*

- **Maximale freitragende Länge**
Maximum unsupported length
- **Aus verzinktem Stahl oder in Edelstahl-ausführung**
Available in zinc coated steel or stainless steel
- **Mit Aluminiumabdeckungen kombinierbar**
Also available with aluminium covers
- **Stahlserie je nach Kundenanforderung in 1 mm-Schritten produzierbar**
Available in 1 mm graduated profile widths according to special requirements
- **Trennsteg aus Kunststoff oder Stahl**
Separators made of plastic or steel
- **Hochwertige verzinkte Schrauben, Stifte und Sicherungsringe**
High quality zinc coated screws, pins and safety rings
- **Demontage von innen und außen möglich**
Disassembly from inside and outside
- **Sonderausführungen der Trennsteg für Kabel- und Schlauchbohrungen erhältlich**
Available special designed for your cable and hose holes



Steel Series



74-75

Steel Series

CS22

CS30

CS45

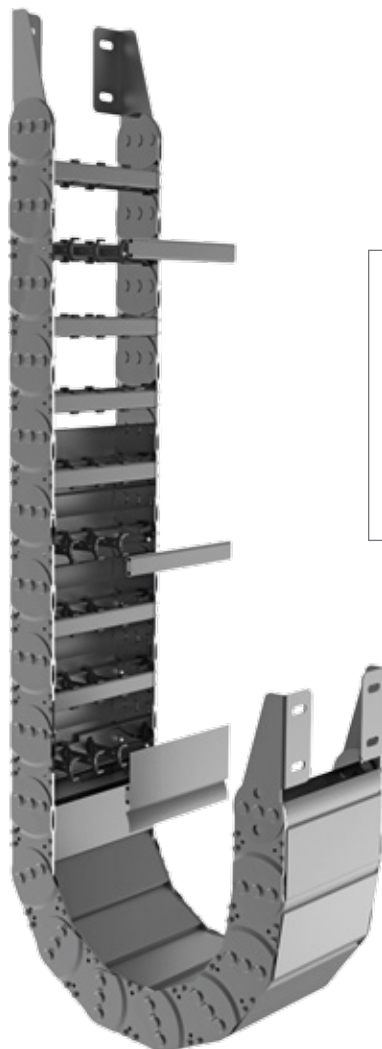
CS60

CS75

CS110

CS180

CS250



Materialmerkmale

Material features

Verzinkter Stahl / Edelstahl

Zinc coated steel / Stainless steel

Geschwindigkeit

Speed

1-2 m/s

1-2 m/sec

CS22 A

Offene Serie / Open series

Matchcode

CS22

Innenhöhe
Inner height

A

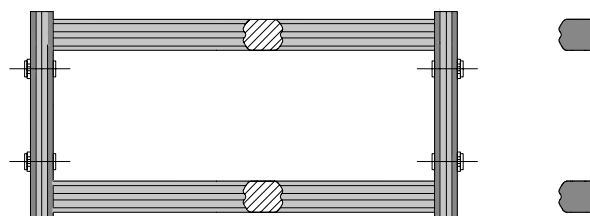
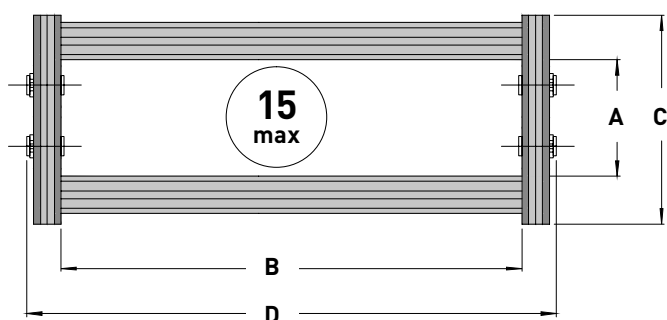
Offene Serie
Open series

200

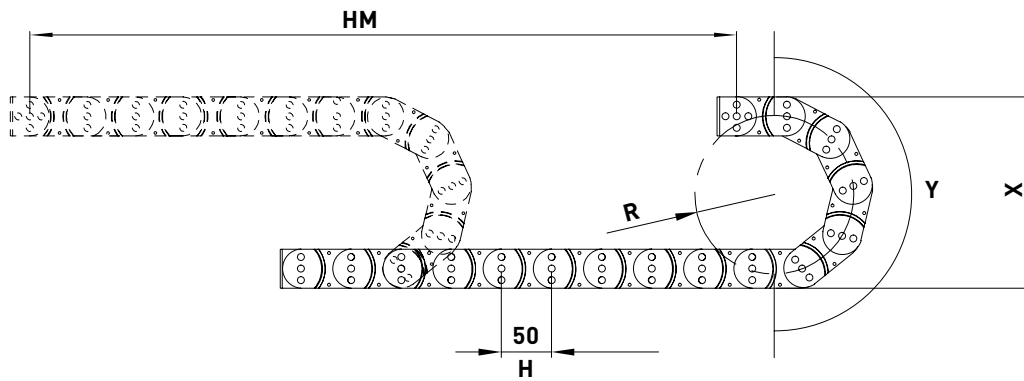
Innenbreite
Inner width

R050

Biegeradius
Bending radius



CS22 A	A	B _{min} – B _{max}	C	D _{min} – D _{max}	R
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius
CS22 A	22	50 – 400	40	65 – 415	50, 150



- L** Berechnung der Kettenlänge
Calculation of chain length
- HM** Verfahrweg
Travel distance
- X** Montagehöhe
Mounting height
- Y** Bogenlänge
Arc length
- H** Achsabstand
Pitch

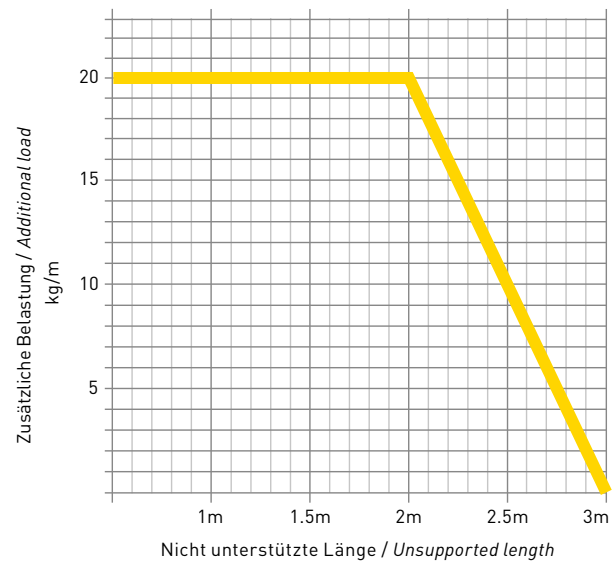
$$L = HM / 2 + Y$$

$$X = R \times 2 + C$$

$$Y = R \times \pi$$

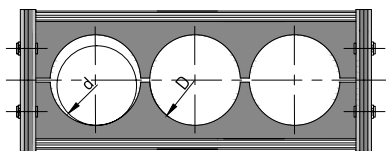
Biegeradius / Bending radius	50	150
H (mm)	50	50
X (mm)	140	340
Y (mm)	157	471

Belastungsdiagramm / Load diagram

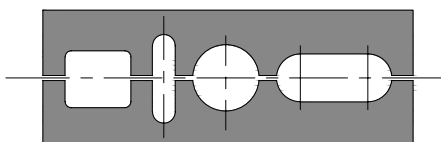


CS22 B

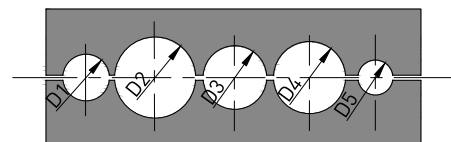
Sonderausführung Aluminium-Stahl-Serie / Special designed aluminium steel series



D_{max} 20 mm



Lochstegeinsätze mit horizontalen und vertikalen Langlöchern
Hole stay inserts with horizontal and vertical slots



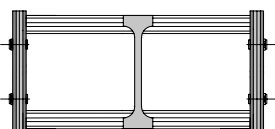
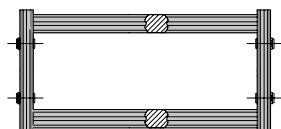
Lochstegeinsätze mit individuellen Löchern
Hole stay inserts with individual holes



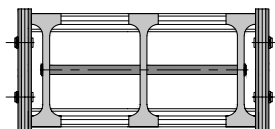
Sonderausführungen mit individuellen Kabel- und Schlauchbohrungen erhältlich
Available special designed for your cable and hose holes

CS22 B	A	B _{min} – B _{max}	C	D _{min} – D _{max}	R
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius
CS22 B	–	50 – 400	40	65 – 415	50, 150

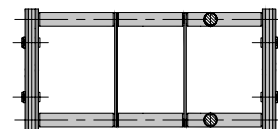
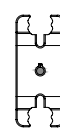
Vertikale und horizontale Trennsteg / Vertical and horizontal separator



Vertikale Trennsteg aus Kunststoff
Plastic vertical separator application



Horizontale Trennsteg
Horizontal separator application

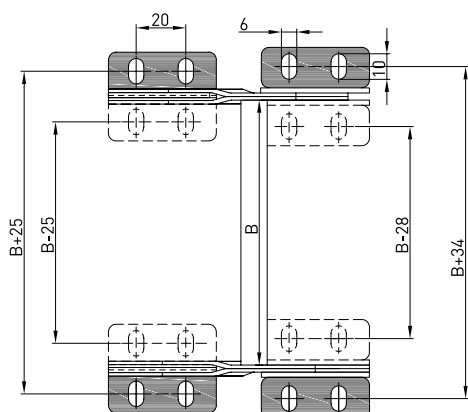


Vertikale Trennsteg aus Stahl
Steel vertical separator application

CS22 SP

Abmessungen für Endstücke aus Stahl / Steel end bracket assembly dimensions

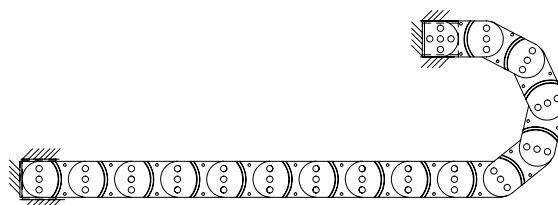
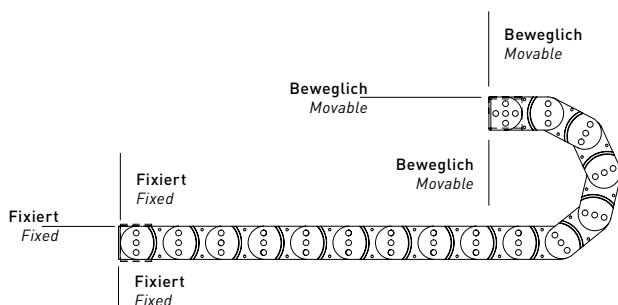
CS22 M



Die „B“-Abmessungen finden Sie in der Maßtabelle.
You will find the 'B' dimension from model table.

Anordnungsbeispiele für Endstücke aus Stahl / Steel end bracket assembly

CS22 M



CS30 A

Offene Serie / Open series

Matchcode

CS30

Innenhöhe
Inner height

A

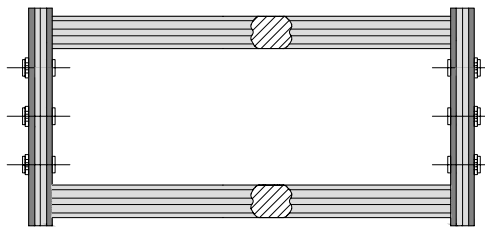
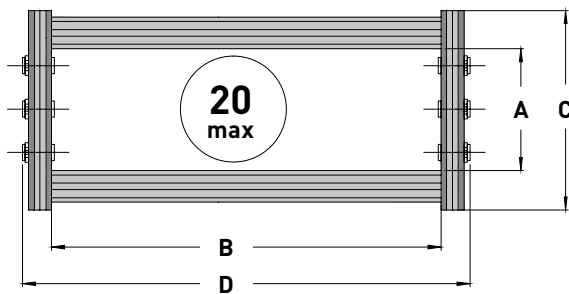
Offene Serie
Open series

200

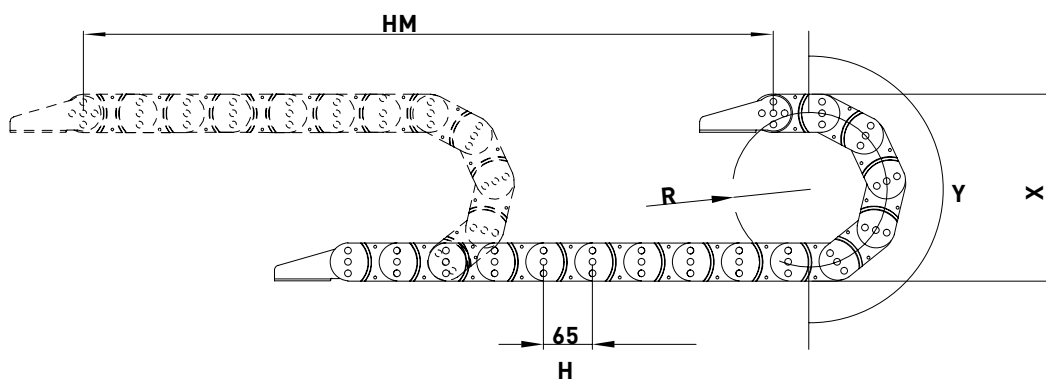
Innenbreite
Inner width

R075

Biegeradius
Bending radius



CS30 A	A	B _{min} - B _{max}	C	D _{min} - D _{max}	R
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius
CS30 A	30	50 - 500	50	66 - 516	75, 150



- L** Berechnung der Kettenlänge
Calculation of chain length
- HM** Verfahrweg
Travel distance
- X** Montagehöhe
Mounting height
- Y** Bogenlänge
Arc length
- H** Achsabstand
Pitch

$$L = HM / 2 + Y$$

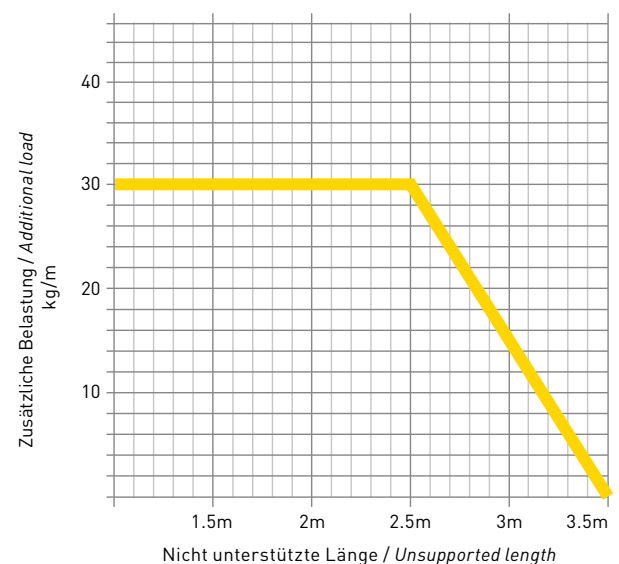
$$X = R \times 2 + C$$

$$Y = R \times \pi$$

Biegeradius / Bending radius	75	150
H (mm)	65	65
X (mm)	215	365
Y (mm)	236	471

Der geschlossene Produkttradius beginnt bei R150
The closed type product radius is started from R150

Belastungsdiagramm / Load diagram



CS30 B

Sonderausführung Aluminium-Stahl-Serie / Special designed aluminium steel series

Matchcode

CS30

Innenhöhe
Inner height

B

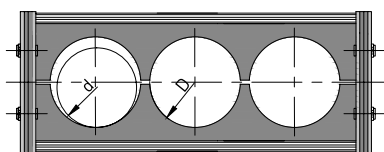
Sonderausführung
Special designed series

200

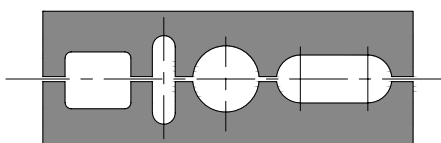
Innenbreite
Inner width

R150

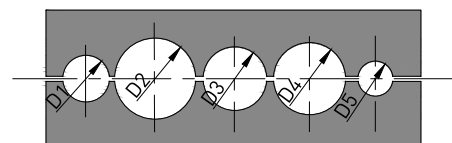
Biegeradius
Bending radius



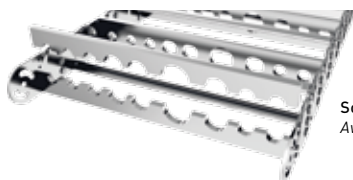
$D_{\max}$ 30 mm



Lochstegeinsätze mit horizontalen und vertikalen Langlöchern
Hole stay inserts with horizontal and vertical slots



Lochstegeinsätze mit individuellen Löchern
Hole stay inserts with individual holes



Sonderausführungen mit individuellen Kabel- und Schlauchbohrungen erhältlich
Available special designed for your cable and hose holes

CS30 B	A	B _{min} – B _{max}	C	D _{min} – D _{max}	R
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius
CS30 B	–	50 – 500	50	66 – 516	75, 150



CS30 K

Geschlossene Serie / Closed series

Matchcode

CS30

Innenhöhe
Inner height

K

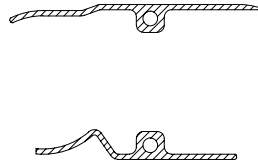
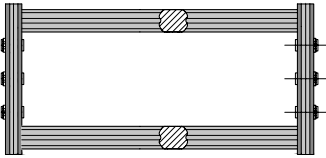
Geschlossene Serie
Closed series

200

Innenbreite
Inner width

R150

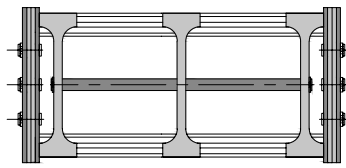
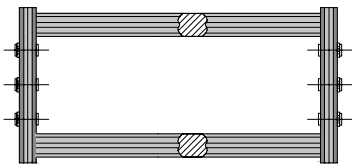
Biegeradius
Bending radius



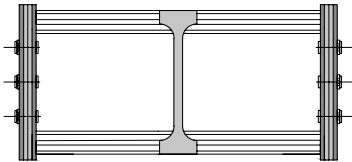
Kunststoffgleiter für lange Verfahrwege
Plastic glides for longer applications

CS30 K	A	B _{min} – B _{max}	C	D _{min} – D _{max}	R
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius
CS30 K	30	50 – 500	50	66 – 516	150

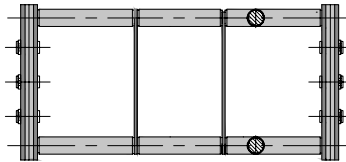
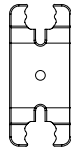


Vertikale und horizontale Trennsteg / *Vertical and horizontal separator***CS30 SP**

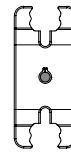
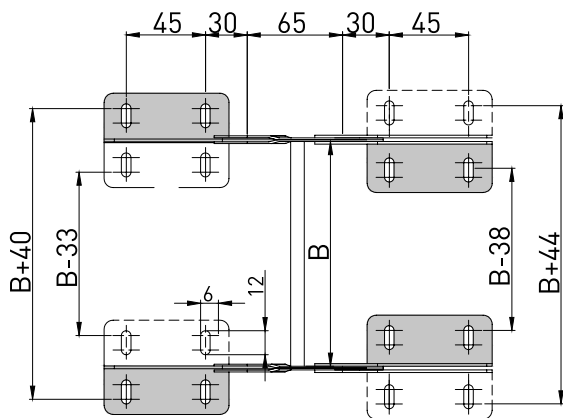
Horizontale Trennsteg
Horizontal separator application



Vertikale Trennsteg aus Kunststoff
Plastic vertical separator application



Vertikale Trennsteg aus Stahl
Steel vertical separator application

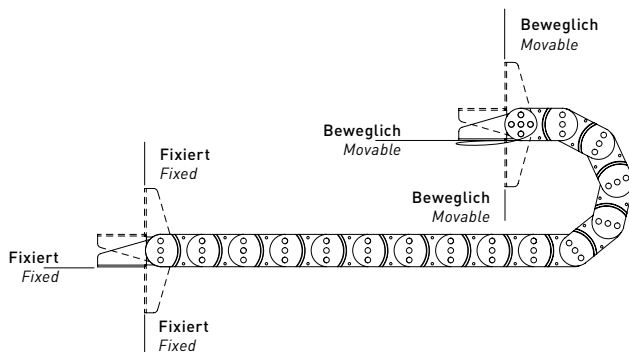
**Abmessungen für Endstücke aus Stahl** / *Steel end bracket assembly dimensions***CS30 M**

Die „B“-Abmessungen
finden Sie in der Maßtabelle.
*You will find the 'B' dimension
from model table.*

CS30 A-B



CS30 K

**Anordnungsbeispiele für Endstücke aus Stahl** / *Steel end bracket assembly***CS30 M**

CS45 A

Offene Serie / Open series

Matchcode

CS45

Innenhöhe
Inner height

A

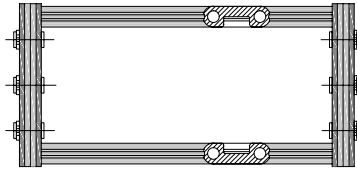
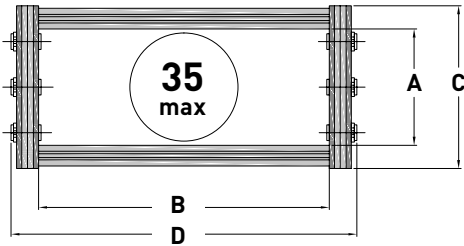
Offene Serie
Open series

200

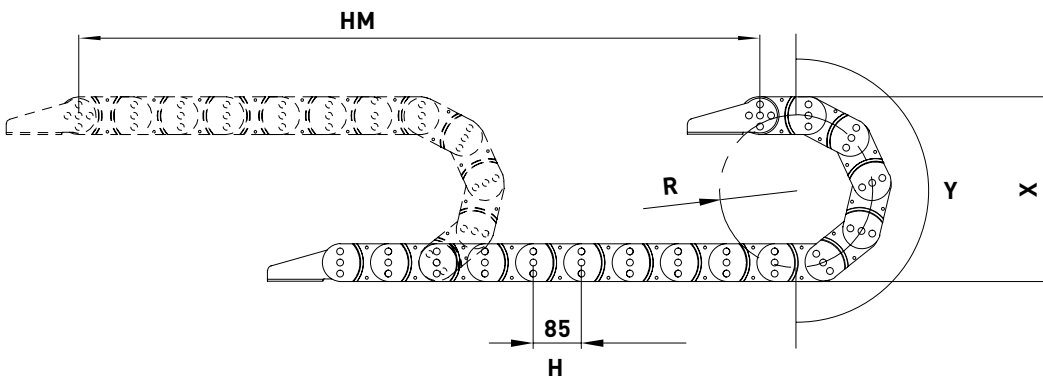
Innenbreite
Inner width

R150

Biegeradius
Bending radius



CS45 A	A	B _{min} – B _{max}	C	D _{min} – D _{max}	R
Modell / Model	Innenhöhe [mm] Inner height [mm]	Innenbreite [mm] Inner width [mm]	Außenhöhe [mm] Outer height [mm]	Außenbreite [mm] Outer width [mm]	Biegeradius Bending radius
CS45 A	45	80 – 600	63	102 – 622	75, 100, 150, 200, 250



- L** Berechnung der Kettenlänge
Calculation of chain length
- HM** Verfahrweg
Travel distance
- X** Montagehöhe
Mounting height
- Y** Bogenlänge
Arc length
- H** Achsabstand
Pitch

$$L = HM / 2 + Y$$

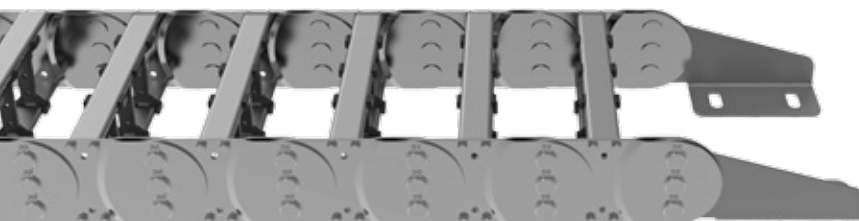
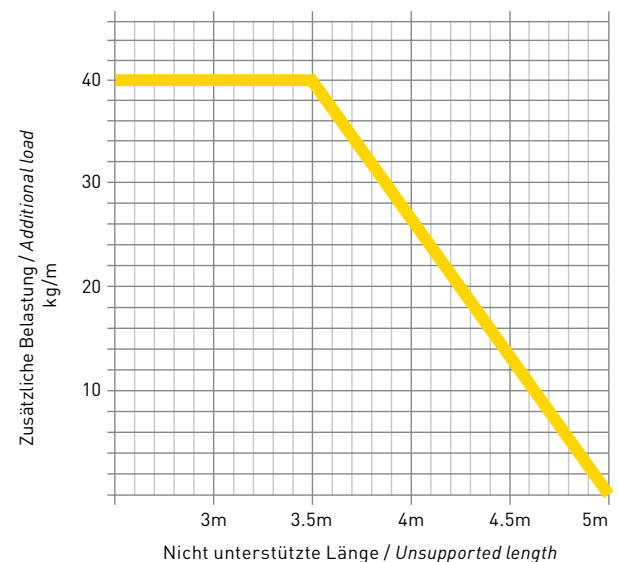
$$X = R \times 2 + C$$

$$Y = R \times \pi$$

Biegeradius / Bending radius	75	100	150	200	250
H (mm)	85	85	85	85	85
X (mm)	213	263	363	463	563
Y (mm)	236	314	471	628	785

Der geschlossene Produkttradius beginnt bei R150
The closed type product radius is started from R150

Belastungsdiagramm / Load diagram



CS45 B

Sonderausführung Aluminium-Stahl-Serie / Special designed aluminium steel series

Matchcode

CS45

Innenhöhe
Inner height

B

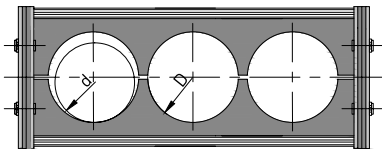
Sonderausführung
Special designed series

200

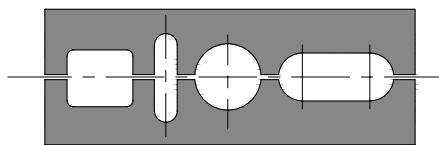
Innenbreite
Inner width

R150

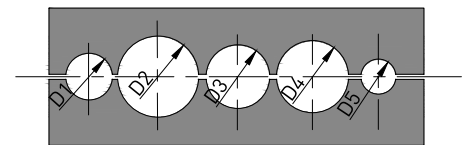
Biegeradius
Bending radius



$D_{\max}$ 40 mm



Lochstegeinsätze mit horizontalen und vertikalen Langlöchern
Hole stay inserts with horizontal and vertical slots



Lochstegeinsätze mit individuellen Löchern
Hole stay inserts with individual holes



Sonderausführungen mit individuellen Kabel- und Schlauchbohrungen erhältlich
Available special designed for your cable and hose holes

CS45 B	A	B _{min} – B _{max}	C	D _{min} – D _{max}	R
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius
CS45 B	–	80 – 600	63	102 – 622	75, 100, 150, 200, 250



CS45 K

Geschlossene Serie / Closed series

Matchcode

CS45

Innenhöhe
Inner height

K

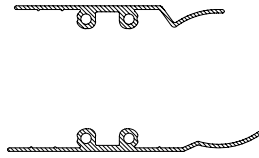
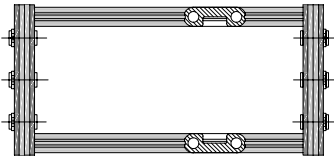
Geschlossene Serie
Closed series

200

Innenbreite
Inner width

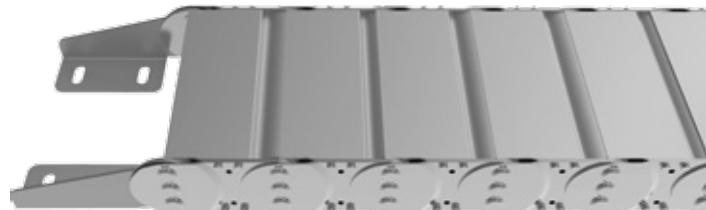
R150

Biegeradius
Bending radius



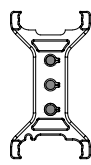
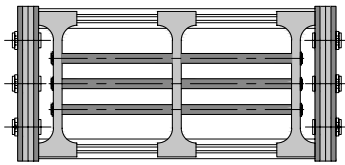
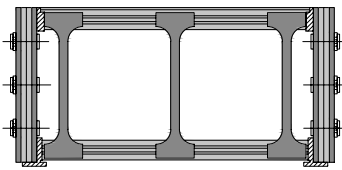
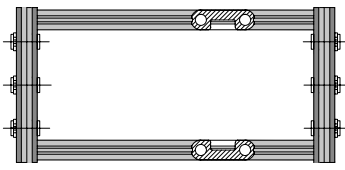
Kunststoffgleiter für lange Verfahrwege
Plastic glides for longer applications

CS45 K	A	B _{min} – B _{max}	C	D _{min} – D _{max}	R
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius
CS45 K	45	80 – 600	63	102 – 622	150, 200, 250

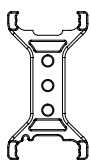
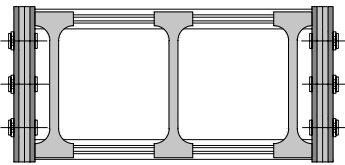


Vertikale und horizontale Trennsteg / Vertical and horizontal separator

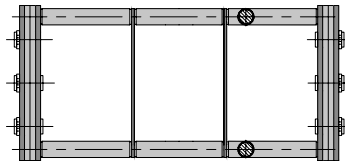
CS45 SP



Horizontale Trennsteg
Horizontal separator application



Vertikale Trennsteg aus Kunststoff
Plastic vertical separator application

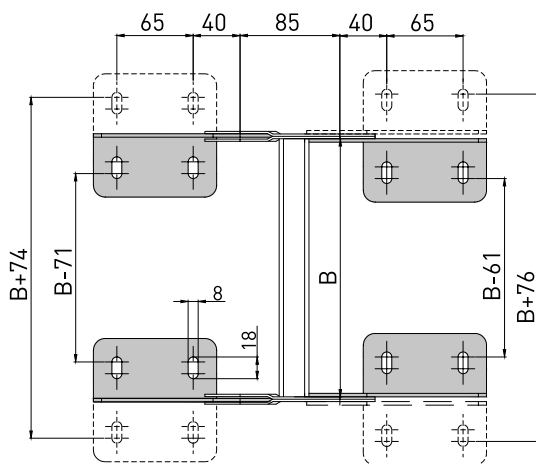


Vertikale Trennsteg aus Stahl
Steel vertical separator application



Abmessungen für Endstücke aus Stahl / Steel end bracket assembly dimensions

CS45 M



Die „B“-Abmessungen
finden Sie in der Maßtabelle.
You will find the 'B' dimension
from model table.

CS45 A-B

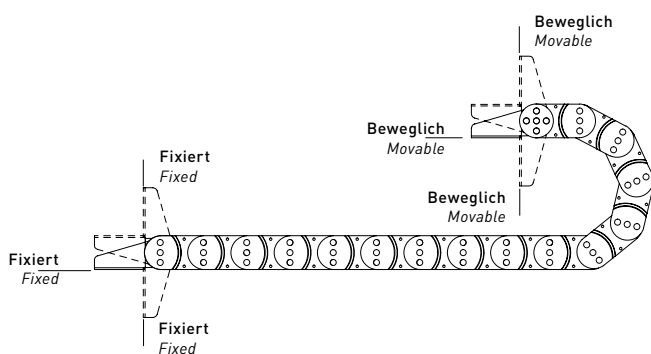


CS45 K



Anordnungsbeispiele für Endstücke aus Stahl / Steel end bracket assembly

CS45 M



CS60 A

Offene Serie / Open series

Matchcode

CS60

Innenhöhe
Inner height

A

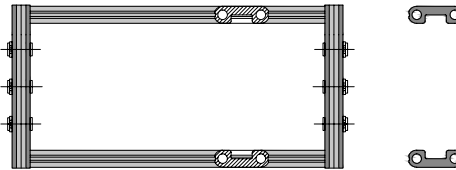
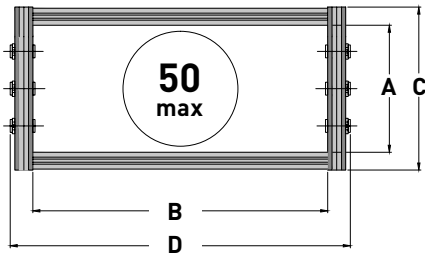
Offene Serie
Open series

200

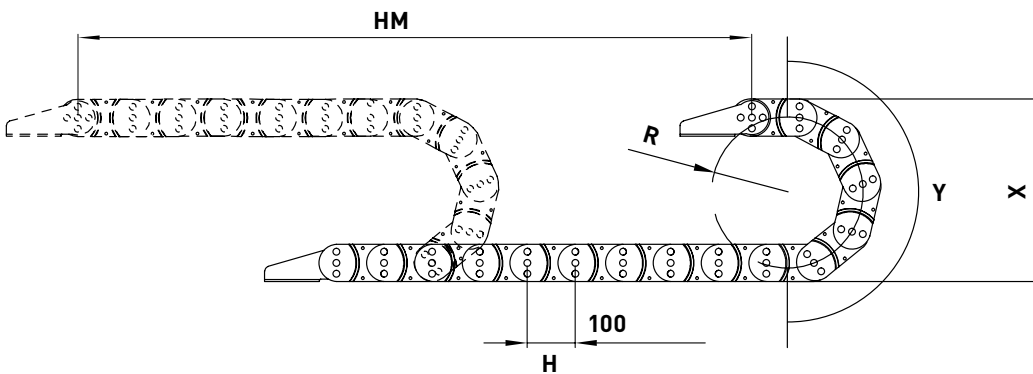
Innenbreite
Inner width

R150

Biegeradius
Bending radius



CS60 A	A	B _{min} – B _{max}	C	D _{min} – D _{max}	R
Modell / Model	Innenhöhe [mm] Inner height [mm]	Innenbreite [mm] Inner width [mm]	Außenhöhe [mm] Outer height [mm]	Außenbreite [mm] Outer width [mm]	Biegeradius Bending radius
CS60 A	60	80 – 600	78	102 – 622	100, 150, 200, 250, 300, 400



- L** Berechnung der Kettenlänge
Calculation of chain length
- HM** Verfahrweg
Travel distance
- X** Montagehöhe
Mounting height
- Y** Bogenlänge
Arc length
- H** Achsabstand
Pitch

$$L = HM / 2 + Y$$

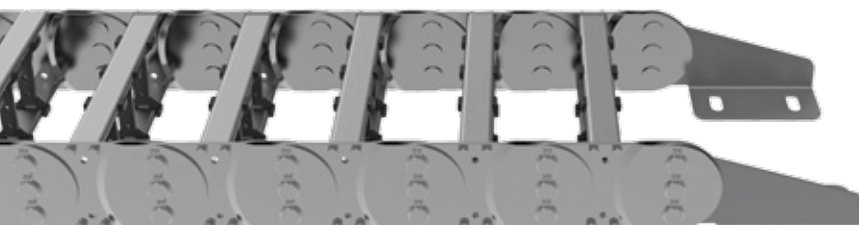
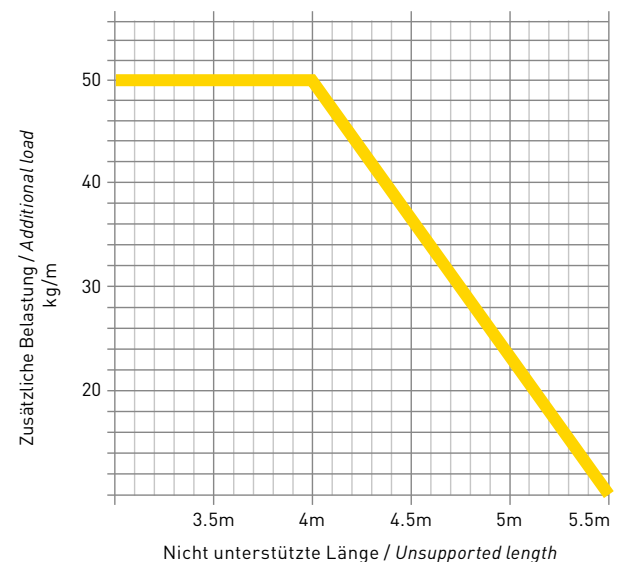
$$X = R \times 2 + C$$

$$Y = R \times \pi$$

Biegeradius / Bending radius	100	150	200	250	300	400
H (mm)	100	100	100	100	100	100
X (mm)	278	378	478	578	678	878
Y (mm)	314	471	628	785	942	1256

Der geschlossene Produktradius beginnt bei R200
The closed type product radius is started from R200

Belastungsdiagramm / Load diagram



CS60 B

Sonderausführung Aluminium-Stahl-Serie / Special designed aluminium steel series

Matchcode

CS60

Innenhöhe
Inner height

B

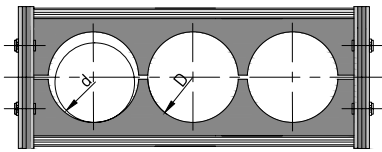
Sonderausführung
Special designed series

200

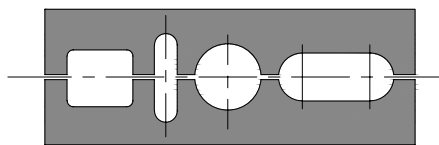
Innenbreite
Inner width

R150

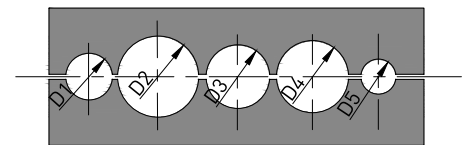
Biegeradius
Bending radius



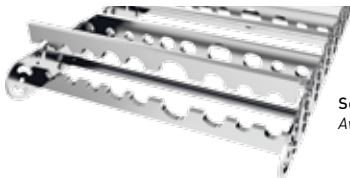
D_{max} 50 mm



Lochstegeinsätze mit horizontalen und vertikalen Langlöchern
Hole stay inserts with horizontal and vertical slots



Lochstegeinsätze mit individuellen Löchern
Hole stay inserts with individual holes



Sonderausführungen mit individuellen Kabel- und Schlauchbohrungen erhältlich
Available special designed for your cable and hose holes

CS60 B	A	B _{min} – B _{max}	C	D _{min} – D _{max}	R
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius
CS60 B	–	80 – 600	78	102 – 622	100, 150, 200, 250, 300, 400



CS60 K

Geschlossene Serie / Closed series

Matchcode

CS60

Innenhöhe
Inner height

K

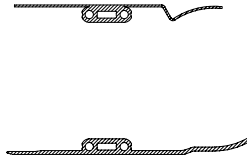
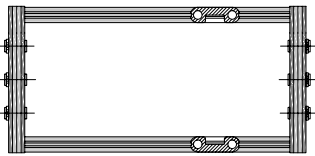
Geschlossene Serie
Closed series

200

Innenbreite
Inner width

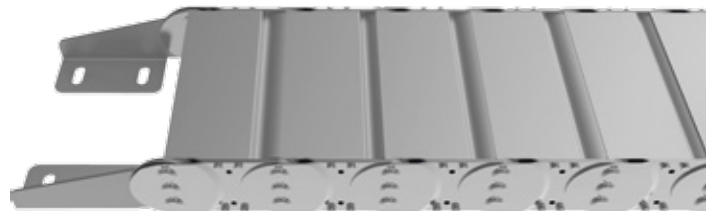
R150

Biegeradius
Bending radius



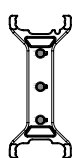
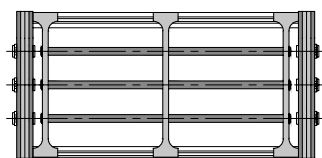
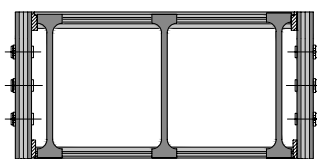
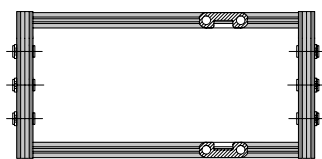
Kunststoffgleiter für lange Verfahrwege
Plastic glides for longer applications

CS60 K	A	B _{min} – B _{max}	C	D _{min} – D _{max}	R
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius
CS60 K	60	80 – 600	78	102 – 622	200, 250, 300, 400

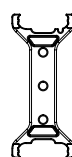
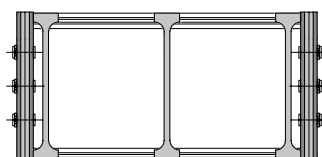


Vertikale und horizontale Trennstege / Vertical and horizontal separator

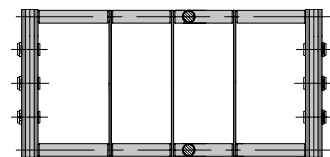
CS60 SP



Horizontale Trennstege
Horizontal separator application



Vertikale Trennstege aus Kunststoff
Plastic vertical separator application

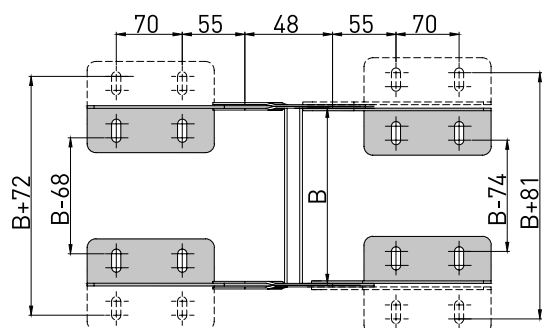


Vertikale Trennstege aus Stahl
Steel vertical separator application



Abmessungen für Endstücke aus Stahl / Steel end bracket assembly dimensions

CS60 M



Die „B“-Abmessungen
finden Sie in der Maßtabelle.
You will find the 'B' dimension
from model table.

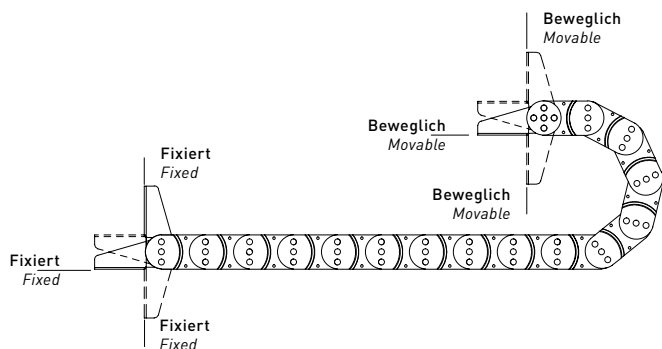
CS60 A-B



CS60 K



Anordnungsbeispiele für Endstücke aus Stahl / Steel end bracket assembly



CS75 A

Offene Serie / Open series

Matchcode

CS75

Innenhöhe
Inner height

A

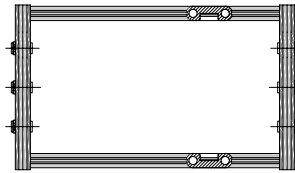
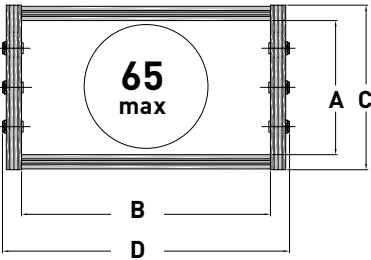
Offene Serie
Open series

200

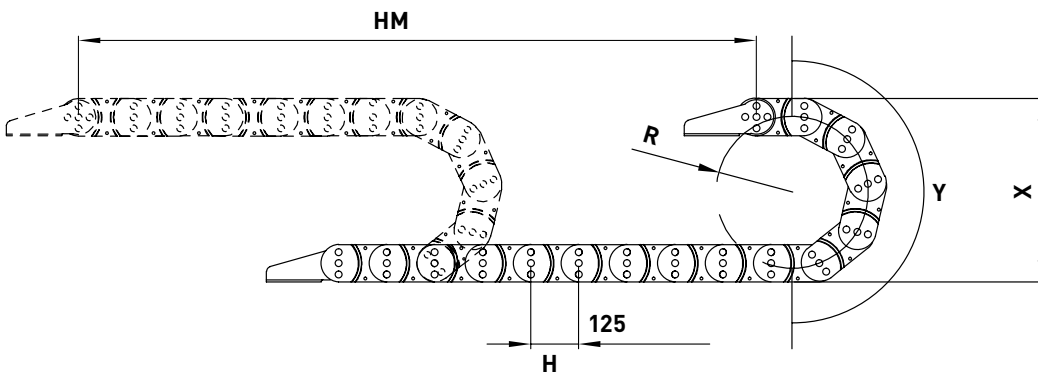
Innenbreite
Inner width

R150

Biegeradius
Bending radius



CS75 A	A	B _{min} – B _{max}	C	D _{min} – D _{max}	R
Modell / Model	Innenhöhe [mm] Inner height [mm]	Innenbreite [mm] Inner width [mm]	Außenhöhe [mm] Outer height [mm]	Außenbreite [mm] Outer width [mm]	Biegeradius Bending radius
CS75 A	75	100 – 800	97	132 – 832	150, 200, 250, 300, 450



- L** Berechnung der Kettenlänge
Calculation of chain length
- HM** Verfahrweg
Travel distance
- X** Montagehöhe
Mounting height
- Y** Bogenlänge
Arc length
- H** Achsabstand
Pitch

$$L = HM / 2 + Y$$

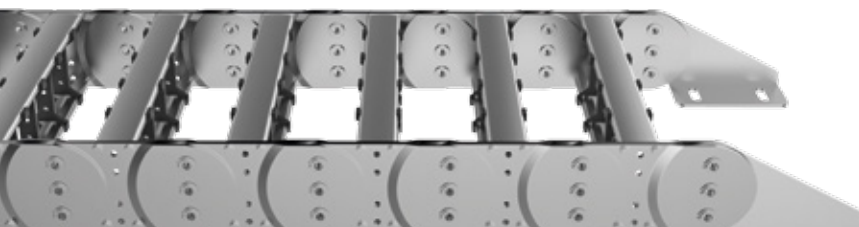
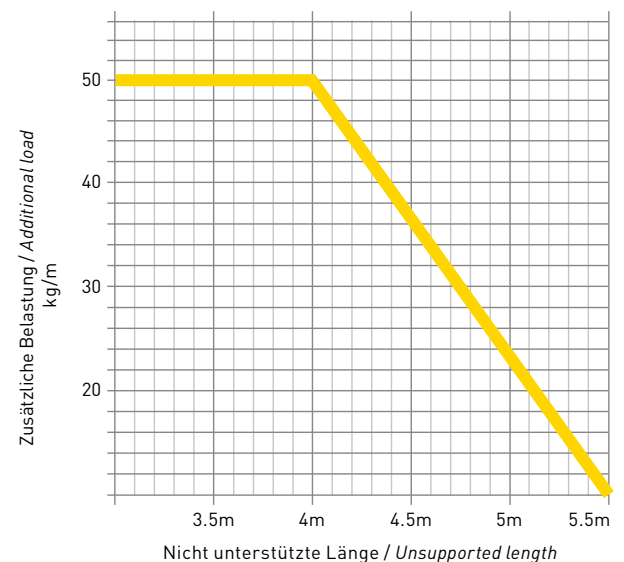
$$X = R \times 2 + C$$

$$Y = R \times \pi$$

Biegeradius / Bending radius	150	200	250	300	450
H (mm)	125	125	125	125	125
X (mm)	400	500	600	700	1000
Y (mm)	471	628	785	942	1413

Der geschlossene Produktradius beginnt bei R200
The closed type product radius is started from R200

Belastungsdiagramm / Load diagram



CS75 B

Sonderausführung Aluminium-Stahl-Serie / Special designed aluminium steel series

Matchcode

CS75

Innenhöhe
Inner height

B

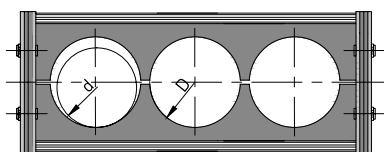
Sonderausführung
Special designed series

200

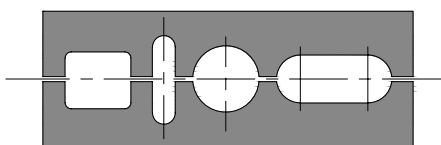
Innenbreite
Inner width

R150

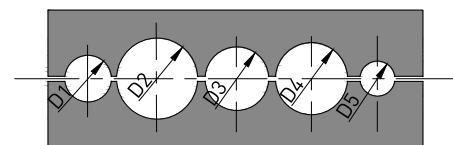
Biegeradius
Bending radius



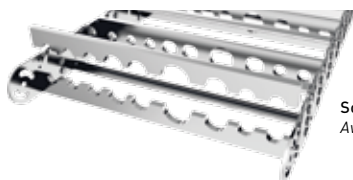
D_{max} 70 mm



Lochstegeinsätze mit horizontalen und vertikalen Langlöchern
Hole stay inserts with horizontal and vertical slots



Lochstegeinsätze mit individuellen Löchern
Hole stay inserts with individual holes



Sonderausführungen mit individuellen Kabel- und Schlauchbohrungen erhältlich
Available special designed for your cable and hose holes

CS75 B	A	B _{min} – B _{max}	C	D _{min} – D _{max}	R
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius
CS75 B	–	100 – 800	97	132 – 832	150, 200, 250, 300, 400



CS75 K

Geschlossene Serie / Closed series

Matchcode

CS75

Innenhöhe
Inner height

K

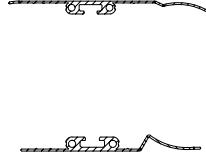
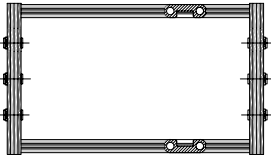
Geschlossene Serie
Closed series

200

Innenbreite
Inner width

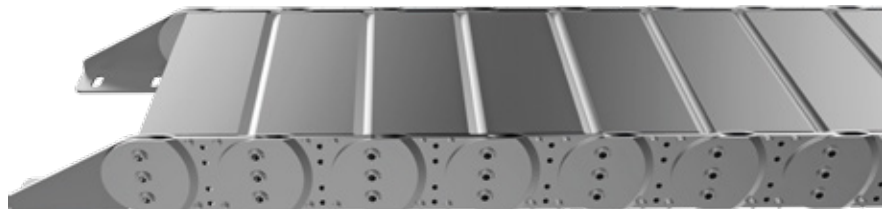
R150

Biegeradius
Bending radius



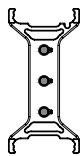
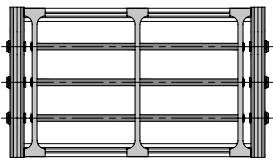
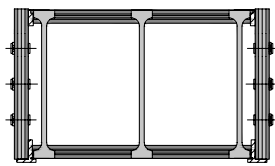
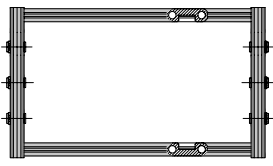
Kunststoffgleiter für lange Verfahrwege
Plastic glides for longer applications

CS75 K	A	B _{min} – B _{max}	C	D _{min} – D _{max}	R
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius
CS75 K	75	100 – 800	97	132 – 832	200, 250, 300, 450

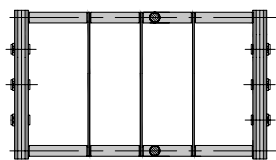
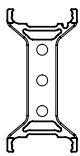
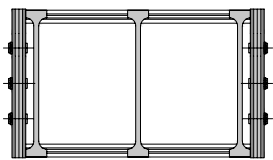


Vertikale und horizontale Trennsteg / Vertical and horizontal separator

CS75 SP

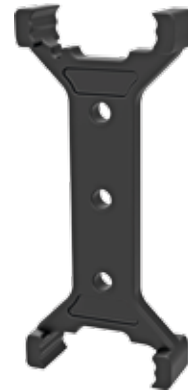


Horizontale Trennsteg
Horizontal separator application



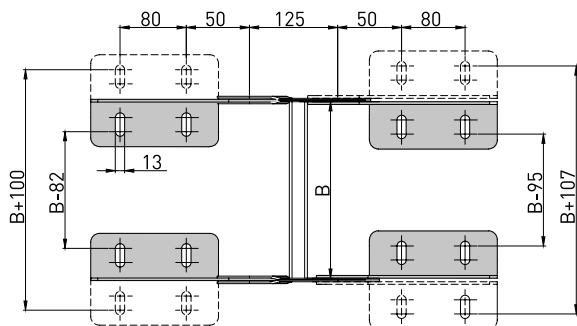
Vertikale Trennsteg aus Kunststoff
Plastic vertical separator application

Vertikale Trennsteg aus Stahl
Steel vertical separator application



Abmessungen für Endstücke aus Stahl / Steel end bracket assembly dimensions

CS75 M



Die „B“-Abmessungen
finden Sie in der Maßtabelle.
You will find the 'B' dimension
from model table.

CS75 A-B

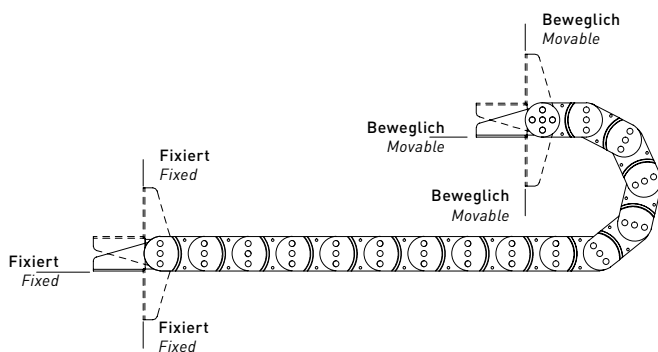


CS75 K



Anordnungsbeispiele für Endstücke aus Stahl / Steel end bracket assembly

CS75 M



CS110 A

Offene Serie / Open series

Matchcode

CS110

Innenhöhe
Inner height

A

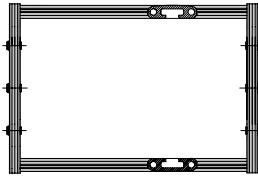
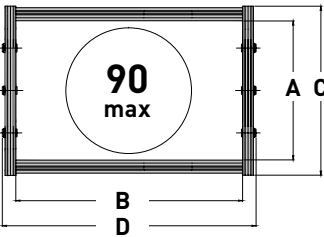
Offene Serie
Open series

400

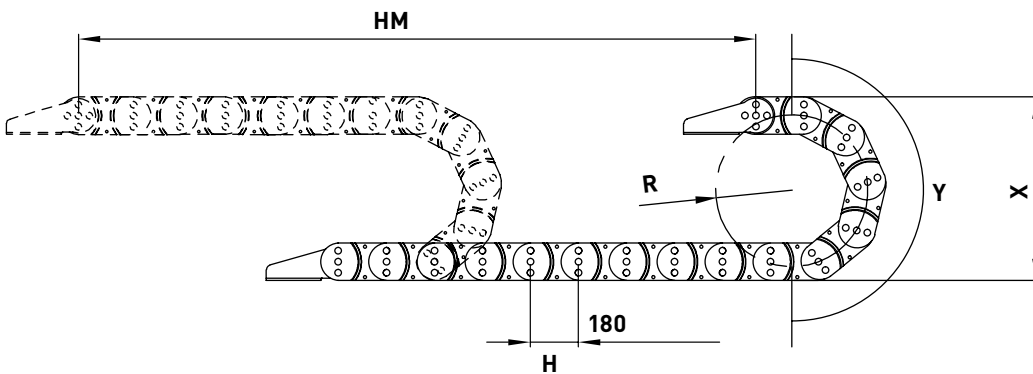
Innenbreite
Inner width

R150

Biegeradius
Bending radius



CS110 A	A	B _{min} – B _{max}	C	D _{min} – D _{max}	R
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius
CS110 A	110	200 – 1000	145	232 – 1032	250, 300, 350, 400, 500, 600, 800, 1000



- L** Berechnung der Kettenlänge
Calculation of chain length
- HM** Verfahrweg
Travel distance
- X** Montagehöhe
Mounting height
- Y** Bogenlänge
Arc length
- H** Achsabstand
Pitch

$$L = HM / 2 + Y$$

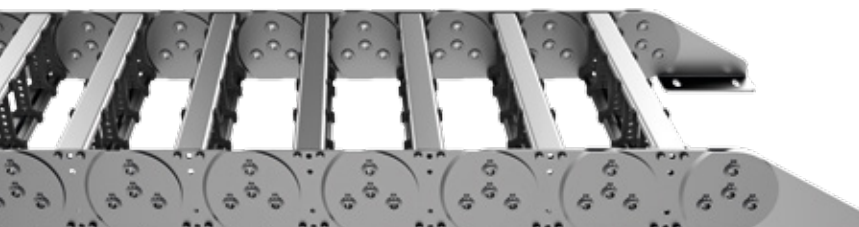
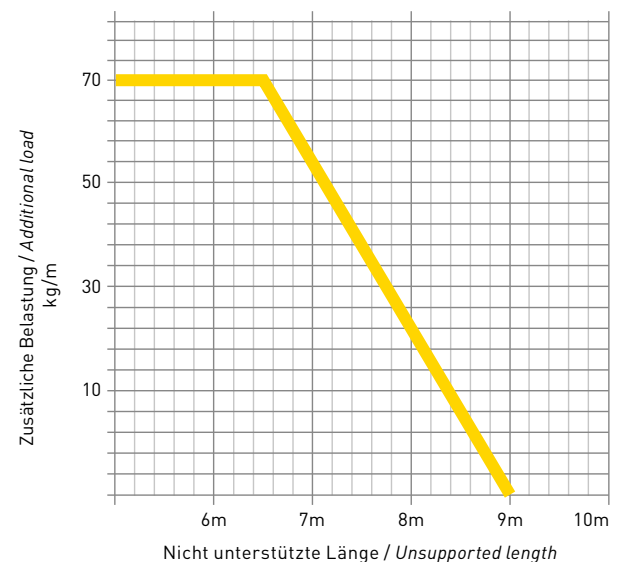
$$X = R \times 2 + C$$

$$Y = R \times \pi$$

Biegeradius / Bending radius	250	300	350	400	500	600	800	1000
H (mm)	180	180	180	180	180	180	180	180
X (mm)	645	745	845	945	1145	1345	1745	2145
Y (mm)	785	942	1099	1256	1570	1884	2512	3140

Der geschlossene Produktradius beginnt bei R400
The closed type product radius is started from R400

Belastungsdiagramm / Load diagram



CS110 B

Sonderausführung Aluminium-Stahl-Serie / Special designed aluminium steel series

Matchcode

CS110

Innenhöhe
Inner height

B

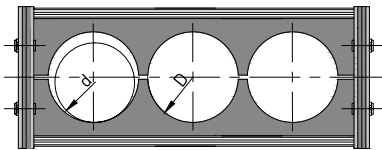
Sonderausführung
Special designed series

500

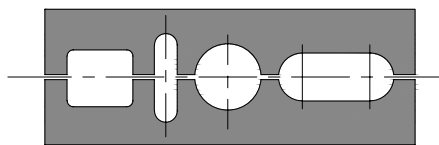
Innenbreite
Inner width

R400

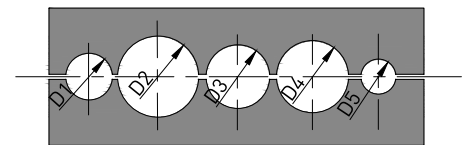
Biegeradius
Bending radius



D_{max} 70 mm



Lochstegeinsätze mit horizontalen und vertikalen Langlöchern
Hole stay inserts with horizontal and vertical slots



Lochstegeinsätze mit individuellen Löchern
Hole stay inserts with individual holes



Sonderausführungen mit individuellen Kabel- und Schlauchbohrungen erhältlich
Available special designed for your cable and hose holes

CS110 B	A	B _{min} – B _{max}	C	D _{min} – D _{max}	R
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius
CS110 B	–	200 – 1000	145	232 – 1032	250, 300, 350, 400, 500, 600, 800, 1000



CS110 K

Geschlossene Serie / Closed series

Matchcode

CS110

Innenhöhe
Inner height

K

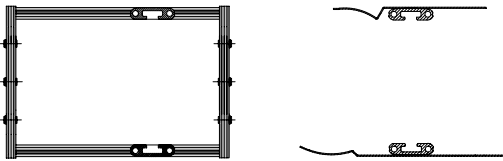
Geschlossene Serie
Closed series

500

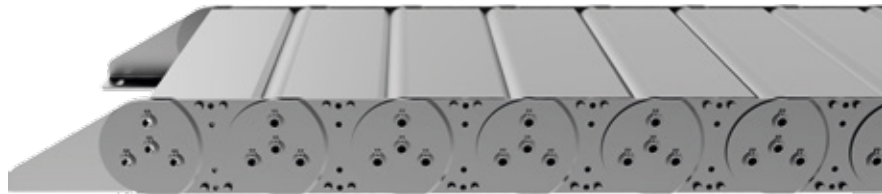
Innenbreite
Inner width

R400

Biegeradius
Bending radius

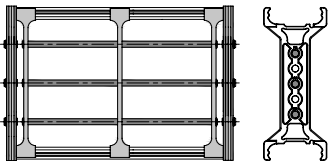
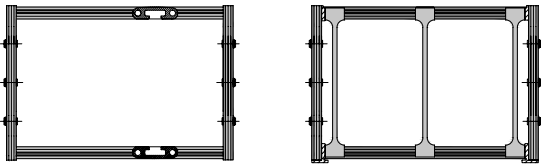


CS110 K	A	B _{min} – B _{max}	C	D _{min} – D _{max}	R
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius
CS110 K	110	200 – 1000	145	232 – 1032	400, 500, 600, 800, 1000

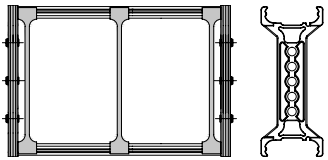


Vertikale und horizontale Trennstege / Vertical and horizontal separator

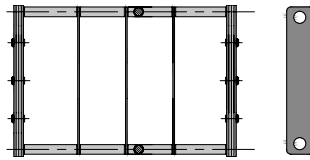
CS110 SP



Horizontale Trennstege
Horizontal separator application



Vertikale Trennstege aus Kunststoff
Plastic vertical separator application

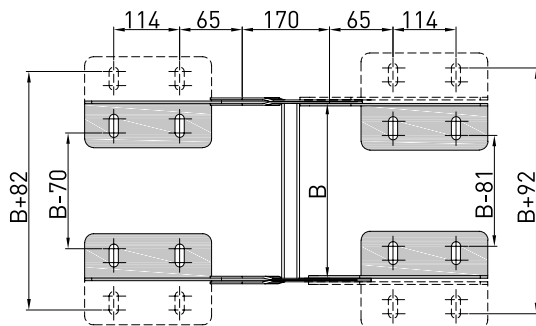


Vertikale Trennstege aus Stahl
Steel vertical separator application



Abmessungen für Endstücke aus Stahl / Steel end bracket assembly dimensions

CS110 M



Die „B“-Abmessungen
finden Sie in der Maßtabelle.
You will find the 'B' dimension
from model table.

CS110 A-B

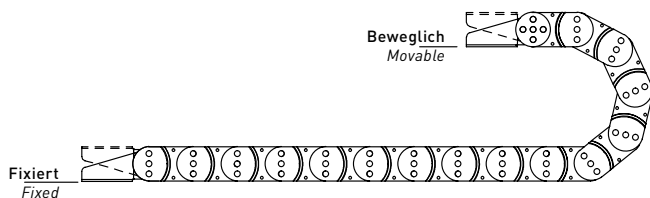


CS100 K



Anordnungsbeispiele für Endstücke aus Stahl / Steel end bracket assembly

CS110 M



CS180 A

Offene Serie / Open series

Matchcode

CS180

Innenhöhe
Inner height

A

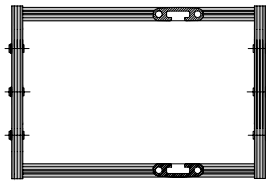
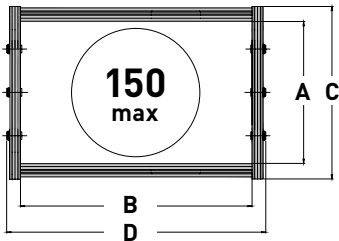
Offene Serie
Open series

600

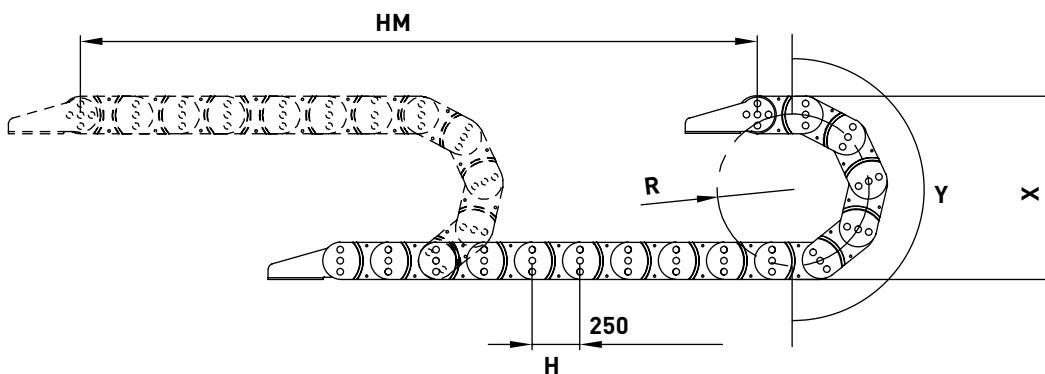
Innenbreite
Inner width

R800

Biegeradius
Bending radius



CS180 A	A	B _{min} – B _{max}	C	D _{min} – D _{max}	R
Modell / Model	Innenhöhe [mm] Inner height [mm]	Innenbreite [mm] Inner width [mm]	Außenhöhe [mm] Outer height [mm]	Außenbreite [mm] Outer width [mm]	Biegeradius Bending radius
CS180 A	180	250 – 1500	220	295 – 1545	400, 500, 600, 700, 800, 900, 1100, 1400



- L** Berechnung der Kettenlänge
Calculation of chain length
- HM** Verfahrweg
Travel distance
- X** Montagehöhe
Mounting height
- Y** Bogenlänge
Arc length
- H** Achsabstand
Pitch

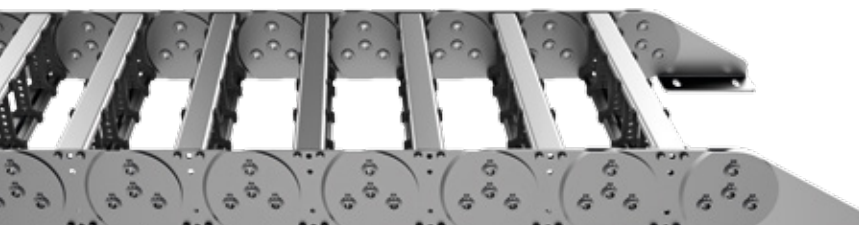
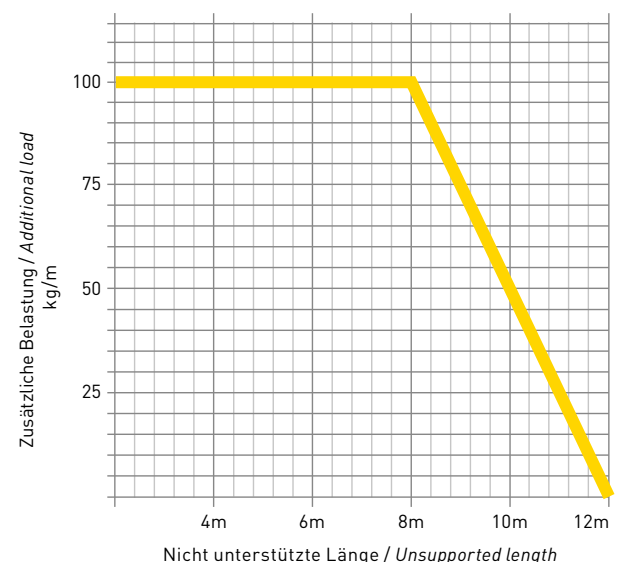
$$L = HM / 2 + Y$$

$$X = R \times 2 + C$$

$$Y = R \times \pi$$

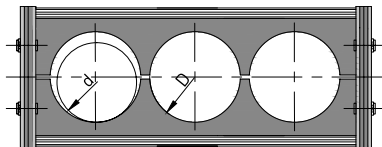
Biegeradius / Bending radius	400	500	600	700	800	900	1100	1400
H (mm)	250	250	250	250	250	250	250	250
X (mm)	1020	1220	1420	1620	1820	2020	2420	3020
Y (mm)	1256	1570	1884	2198	2512	2826	3454	4396

Belastungsdiagramm / Load diagram

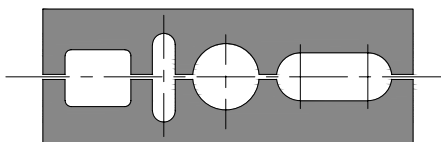


CS180 B

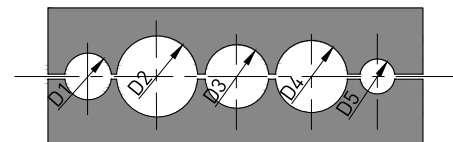
Sonderausführung Aluminium-Stahl-Serie / Special designed aluminium steel series



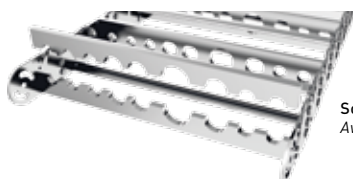
D_{max} 160 mm



Lochstegeinsätze mit horizontalen und vertikalen Langlöchern
Hole stay inserts with horizontal and vertical slots



Lochstegeinsätze mit individuellen Löchern
Hole stay inserts with individual holes



Sonderausführungen mit individuellen Kabel- und Schlauchbohrungen erhältlich
Available special designed for your cable and hose holes

CS180 B	A	B _{min} – B _{max}	C	D _{min} – D _{max}	R
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius
CS180 B	–	250 – 1500	220	295 – 1545	400, 500, 600, 700, 800, 900, 1100, 1400



CS180 K

Geschlossene Serie / Closed series

Matchcode

CS180

Innenhöhe
Inner height

K

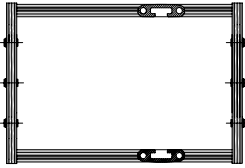
Geschlossene Serie
Closed series

500

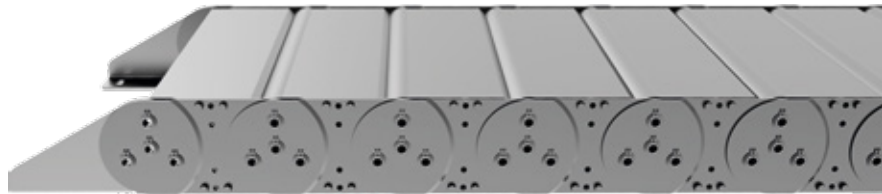
Innenbreite
Inner width

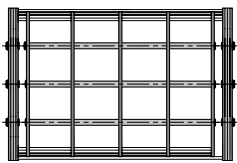
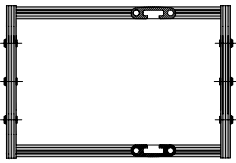
R400

Biegeradius
Bending radius

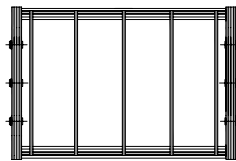
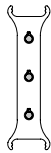


CS180 K	A	B _{min} – B _{max}	C	D _{min} – D _{max}	R
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius
CS180 K	180	250 – 1500	220	295 – 1545	400, 500, 600, 700, 800, 900, 1100, 1400

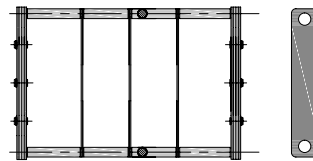


Vertikale und horizontale Trennsteg / *Vertical and horizontal separator***CS180 SP**

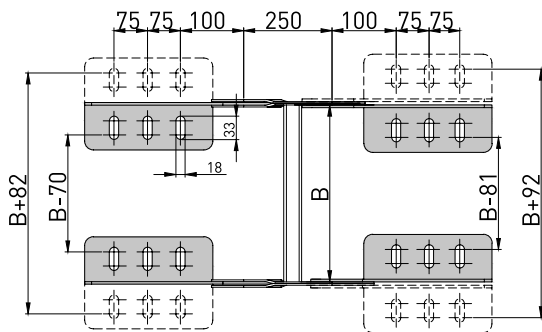
Horizontale Trennsteg
Horizontal separator application



Vertikale Trennsteg aus Stahl
Steel vertical separator application



Vertikale Trennsteg aus Stahl
Steel vertical separator application

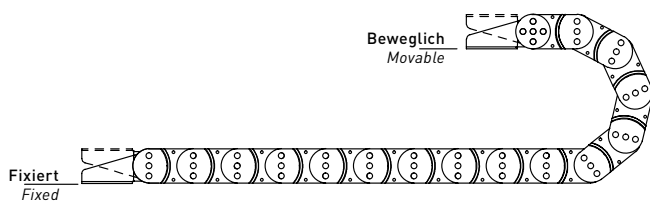
Abmessungen für Endstücke aus Stahl / *Steel end bracket assembly dimensions***CS180 M**

Die „B“-Abmessungen
finden Sie in der Maßtabelle.
*You will find the 'B' dimension
from model table.*

CS180 A-B



CS180 K

**Anordnungsbeispiele für Endstücke aus Stahl** / *Steel end bracket assembly***CS180 M**

CS250 A

Offene Serie / Open series

Matchcode

CS250

Innenhöhe
Inner height

A

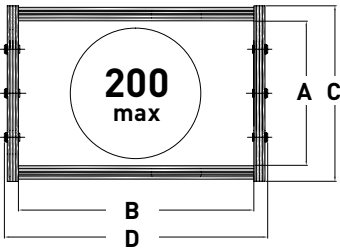
Offene Serie
Open series

600

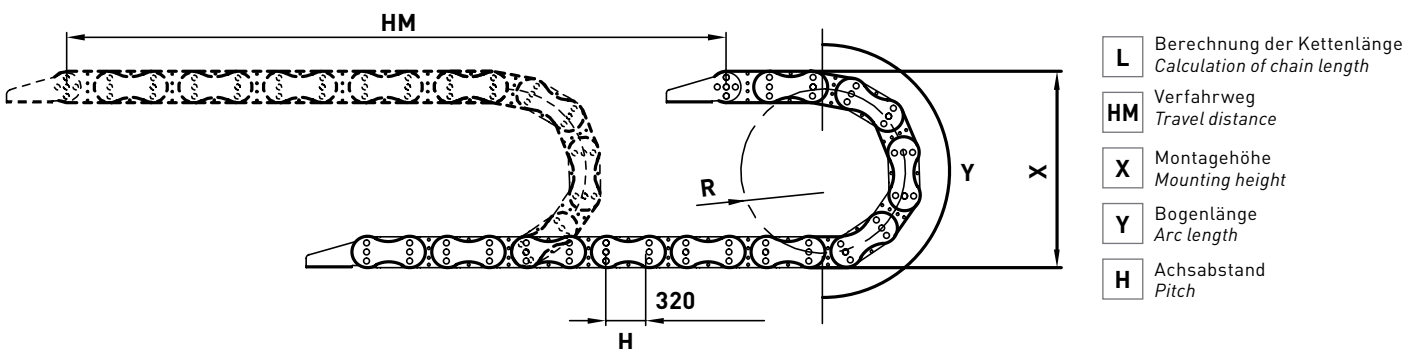
Innenbreite
Inner width

R800

Biegeradius
Bending radius



CS250 A	A	B _{min} - B _{max}	C	D _{min} - D _{max}	R
Modell / Model	Innenhöhe (mm) Inner height (mm)	Innenbreite (mm) Inner width (mm)	Außenhöhe (mm) Outer height (mm)	Außenbreite (mm) Outer width (mm)	Biegeradius Bending radius
CS250 A	250	250 - 1500	290	295 - 1545	500, 600, 700, 800, 900, 1100, 1400



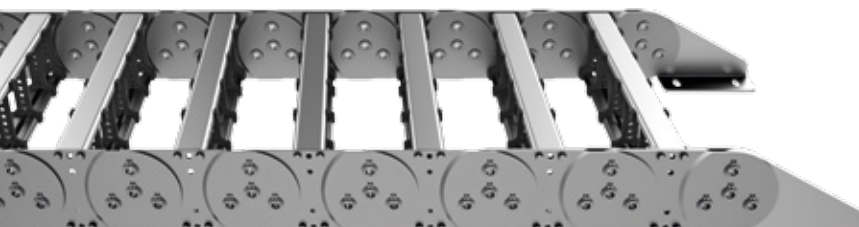
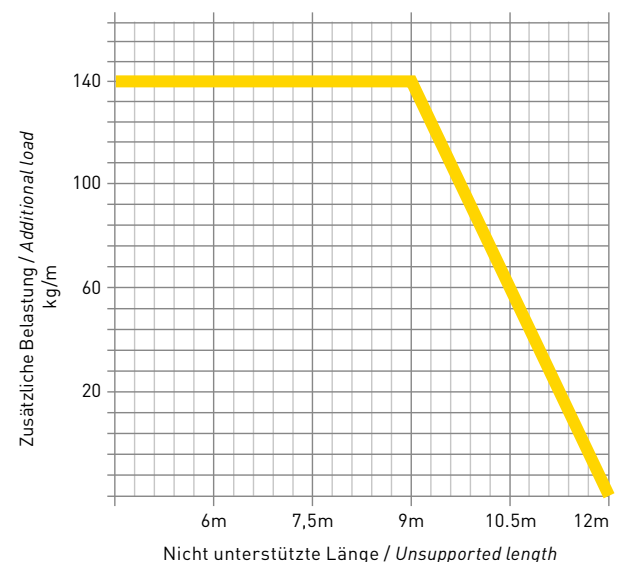
$$L = HM / 2 + Y$$

$$X = R \times 2 + C$$

$$Y = R \times \pi$$

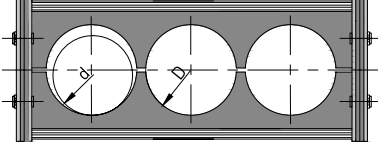
Biegeradius / Bending radius	500	600	700	800	900	1100	1400
H (mm)	320	320	320	320	320	320	320
X (mm)	1220	1420	1620	1820	2020	2420	3020
Y (mm)	1570	1884	2198	2512	2826	3454	4396

Belastungsdiagramm / Load diagram

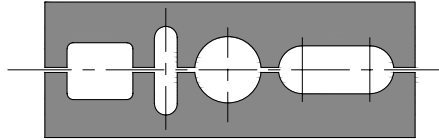


CS250 B

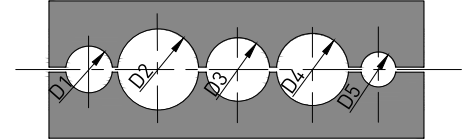
Sonderausführung Aluminium-Stahl-Serie / *Special designed aluminium steel series*



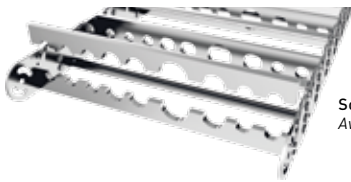
$D_{\min}$ 20 mm / $D_{\max}$ 200 mm



Lochstegeinsätze mit horizontalen und vertikalen Langlöchern
Hole stay inserts with horizontal and vertical slots



Lochstegeinsätze mit individuellen Löchern
Hole stay inserts with individual holes

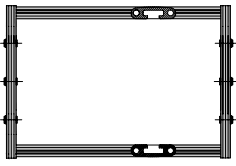


Sonderausführungen mit individuellen Kabel- und Schlauchbohrungen erhältlich
Available special designed for your cable and hose holes

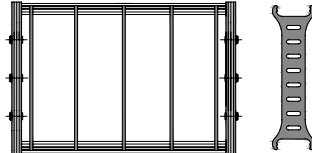
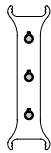
CS250 B	A	$B_{\min} - B_{\max}$	C	$D_{\min} - D_{\max}$	R
Modell / Model	Innenhöhe (mm) <i>Inner height (mm)</i>	Innenbreite (mm) <i>Inner width (mm)</i>	Außenhöhe (mm) <i>Outer height (mm)</i>	Außenbreite (mm) <i>Outer width (mm)</i>	Biegeradius <i>Bending radius</i>
CS250 B	–	250 – 1500	290	295 – 1545	500, 600, 800, 800, 900, 1100, 1400

Vertikale und horizontale Trennsteg / Vertical and horizontal separator

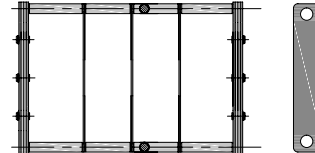
CS250 SP



Horizontale Trennsteg
Horizontal separator application



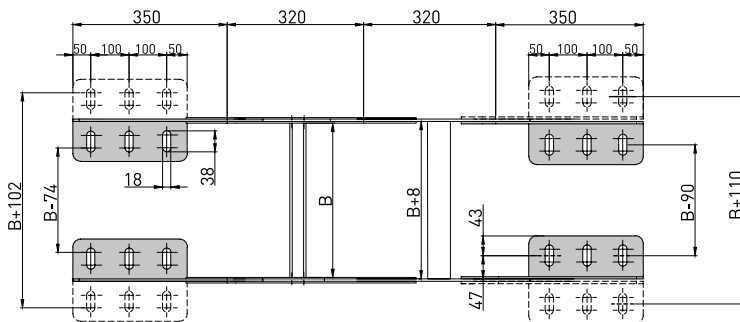
Vertikale Trennsteg aus Stahl
Steel vertical separator applicaton



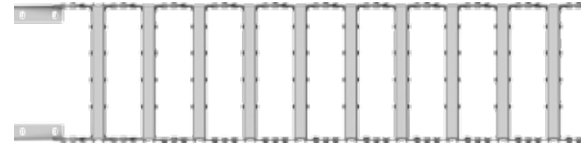
Vertikale Trennsteg aus Stahl
Steel vertical separator application

Abmessungen für Endstücke aus Stahl / Steel end bracket assembly dimensions

CS250 M

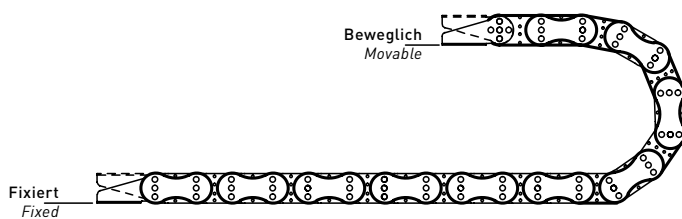


Die „B-Abmessungen“
finden Sie in der Maßtabelle.
You will find the 'B' dimension
from model table.



Anordnungsbeispiele für Endstücke aus Stahl / Steel end bracket assembly

CS250 M





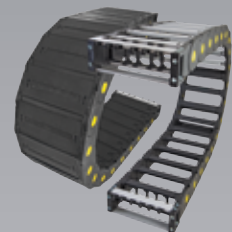
Motorleitungstrommeln
Motorized cable reels



Federleitungstrommeln
Spring cable reels



Schleifringkörper
Slip ring assemblies



Energieketten
Energy chains



Hartmann & König
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