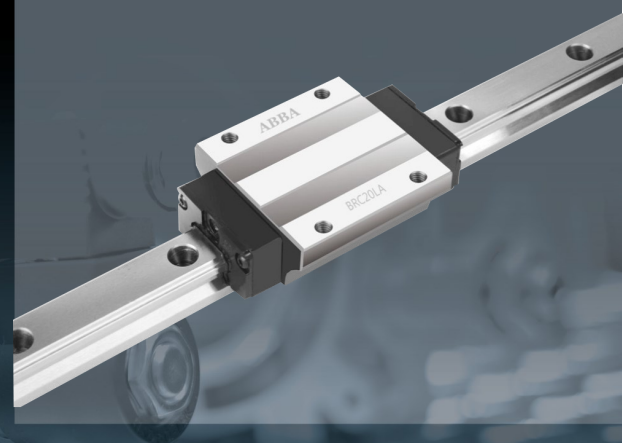




Depuis 1969



GUIDAGE LINÉAIRE / LINEAR GUIDEWAY

*Mécanique*  
*Électrique*

# Table des matières / Index

## Introduction

- Information sur le produit
- Diverses applications
- Avertissement
- Caractéristiques techniques
- Table d'équivalence ABBA Tech
- Interchangeabilité entre fournisseurs
- Nomenclature Canimex

## Sélection

- Guidage linéaire
  - Nomenclature ABBA Tech-Assemblage
  - Nomenclature ABBA Tech-Bloc
  - Nomenclature ABBA Tech-Rail
  - BRC-A0/LA, BRD-A0/LA
  - BRC-R0/LR, BRD-R0/LR
  - BRC-SU/U0, BRD-SU/U0
- Guidage linéaire avec cage
  - Nomenclature ABBA Tech-Assemblage
  - Nomenclature ABBA Tech-Bloc
  - Nomenclature ABBA Tech-Rail
  - BCC-A0/LA
  - BCC-R0/LR
- Accessoires

## Entretien

- Lubrification

## Produits connexes

- Accouplement en élastomère

## Annexe

- Questions destinées aux clients

## Introduction

- *Information about the product*
- *Miscellaneous applications*
- *Warning*
- *Technical specifications*
- *ABBA Tech Equivalence Table*
- *Dealer Interchange*
- *Canimex Codification*

## Selection

- *Linear Guideway*
  - *Ordering Key—System*
  - *Ordering Key-Block*
  - *Ordering Key-Rail*
  - *BRC-A0/LA, BRD-A0/LA*
  - *BRC-R0/LR, BRD-R0/LR*
  - *BRC-SU/U0, BRD-SU/U0*
- *Ball Caged linear Guideway*
  - *Ordering Key—System*
  - *Ordering Key-Block*
  - *Ordering Key-Rail*
  - *BCC-A0/LA*
  - *BCC-R0/LR*
- *Accessories*

## Maintenance

- *Lubrication*

## Related Products

- *Elastomer Coupling*

## Annexe

- *Questions for the customer*

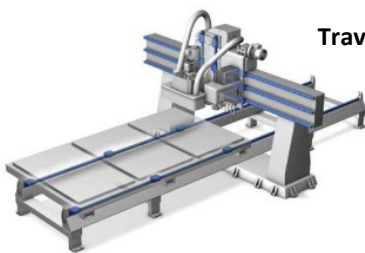
# INTRODUCTION

## Information sur le produit / Information about the product

Le guidage à billes sur rail est constitué d'un rail avec des pistes rectifiées de précision et d'un bloc contenant quatre rangées de billes dans un montage en X. La configuration carrée des pistes permet d'obtenir un système de guidage offrant une capacité de charge égale dans toutes les directions. Le produit dispose ainsi d'une flexibilité de conception supérieure, car toutes les positions de montages sont possibles. De plus, les écarts de parallélisme et de hauteur, qui se produisent généralement dans les systèmes multiaxes, peuvent être compensés plus efficacement. Autant d'atouts garantissant un fonctionnement fiable et uniforme dans toutes les conditions.

The profile rail guide consists of a profile rail with precision raceways and a block containing four rows of balls laid out in an X-arrangement. The square configuration of the raceways results in a guiding system that provides an equal load carrying capacity in all four main load directions. That offers greater design flexibility since all mounting positions are achievable. Moreover, deviations in parallelism and height, which usually occur in multi-axis systems, can be tolerated more efficiently, resulting in reliable and smooth operation under a variety of operating conditions.

## Diverses applications / Miscellaneous applications



### Travail du bois / Woodworking

- Guidage à billes sur rail / Profile Rail guides
- Vis à billes de précision / Precision Ball Screws



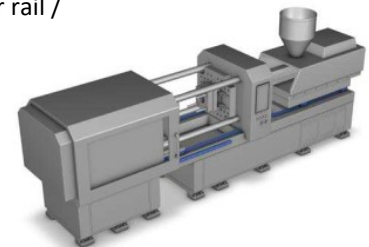
### Manutention / Handling

- Guidage à billes sur rail / Profile Rail Guide



### Moulage par injection de plastique / Plastic Injection

- Guidage à billes sur rail / Profile Rail Guide



### Emballage / Packaging

- Guidage à billes sur rail / Profile Rail Guide

## Avertissement / Warning



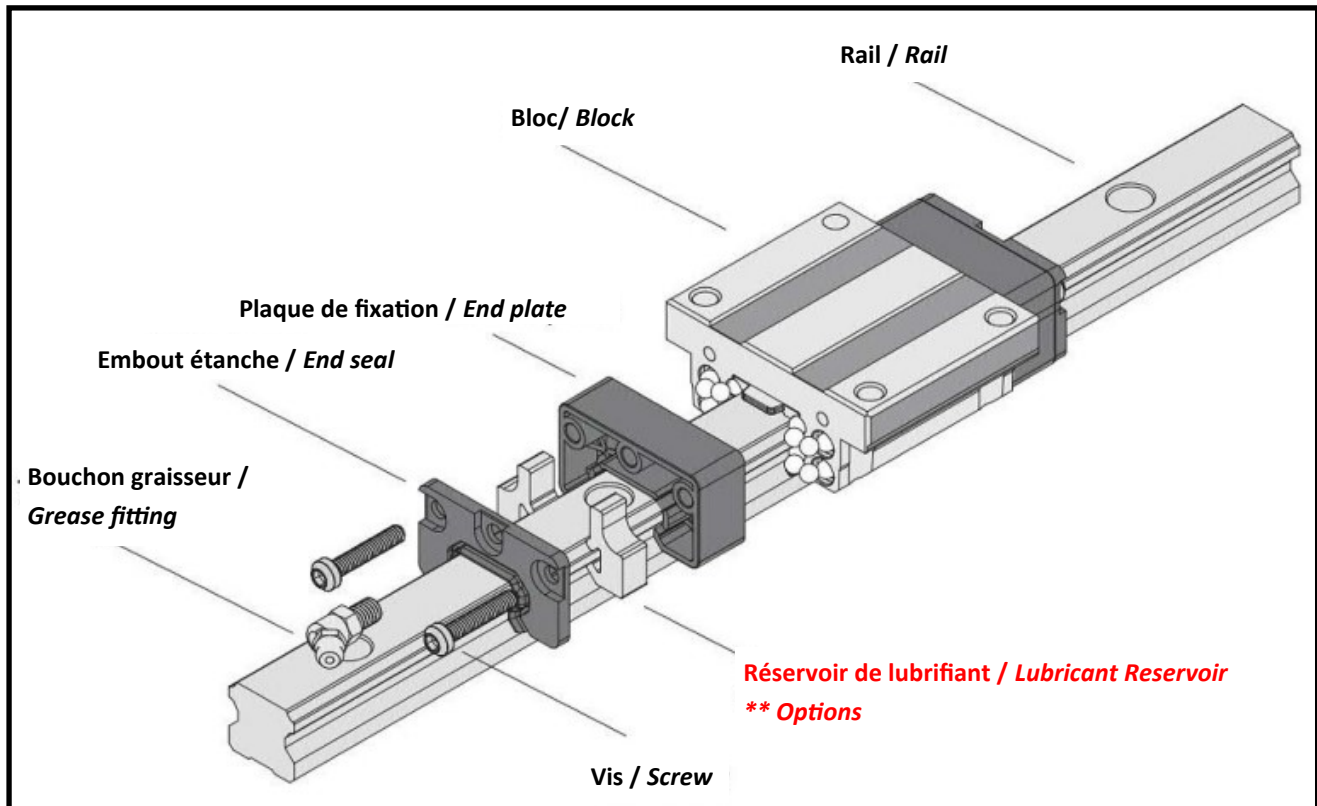
Quantité minimum pour commander / Minimum order Quantity			
BRR-25	4	BRC-35	12
BRR-30	2	BRD-45	5
BRR-35	2	BRC-30	16
BRR-45	1	BCR-55	1
BRC-25	22	BCC-55	1

# INTRODUCTION

## Caractéristiques techniques Canimex / Technical Specifications

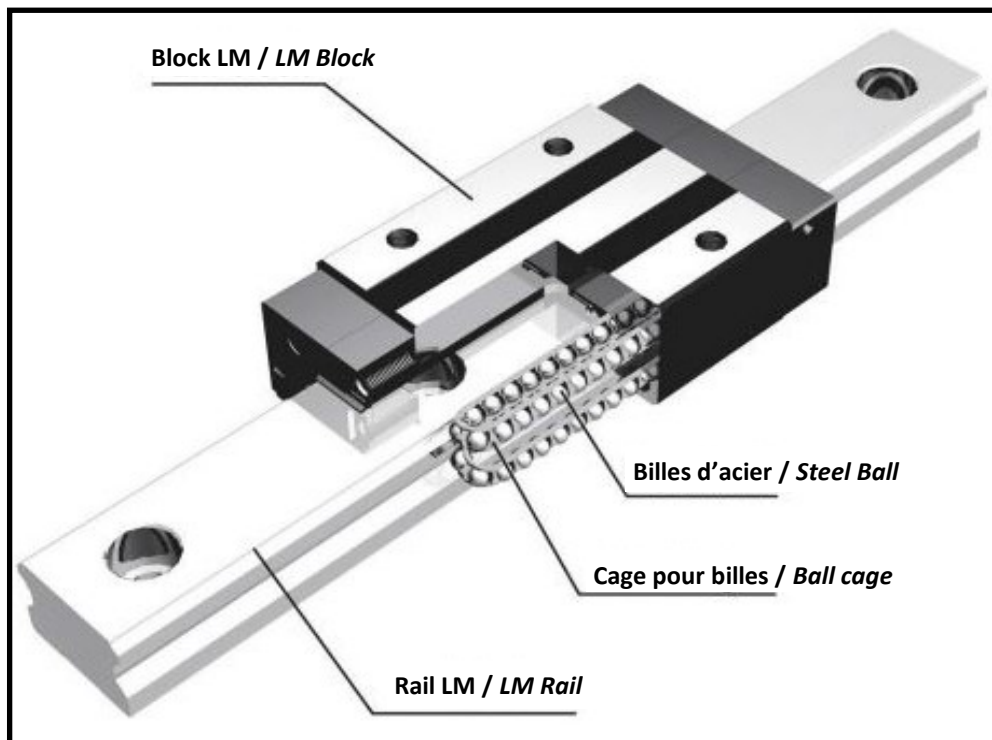
CONSTRUCTION D'UN GUIDAGE LINÉAIRE

CONSTRUCTION OF A LINEAR GUIDEWAY



CONSTRUCTION D'UN GUIDAGE LINÉAIRE AVEC CAGE

CONSTRUCTION OF A BALL CAGED LINEAR GUIDEWAY



# INTRODUCTION

## Table d'équivalence ABBA Tech / Equivalence Table

Table d'équivalence—Clé de commande pour bloc  
Equivalence Table—Carriage Ordering Key

Taille/ Size	Prédécesseur/ Previous	Nouveau/ New
15	BRH15A-N-Z0	BRC15-A0Z0-N0S
	BRH15B-N-Z0	BRC15-R0Z0-N0S
	BRS15B-N-Z0	BRC15-U0Z0-N0S
	BRS15BS-N-Z0	BRC15-SUZ0-N0S
20	BRH20A-N-Z0	BRC20-A0Z0-N0S
	BRH20AL-N-Z0	BRC20-LAZ0-N0S
	BRH20B-N-Z0	BRC20-R0Z0-N0S
	BRH20BL-N-Z0	BRC20-LRZ0-N0S
	BRS20B-N-Z0	BRC20-U0Z0-N0S
	BRS20BS-N-Z0	BRC20-SUZ0-N0S
25	BRH25A-N-Z0	BRC25-A0Z0-N0S
	BRH25AL-N-Z0	BRC25-LAZ0-N0S
	BRH25B-N-Z0	BRC25-R0Z0-N0S
	BRH25BL-N-Z0	BRC25-LRZ0-N0S
	BRS25B-N-Z0	BRC25-U0Z0-N0S
	BRS25BS-N-Z0	BRC25-SUZ0-N0S
30	BRH30A-N-Z0	BRC30-A0Z0-N0S
	BRH30AL-N-Z0	BRC30-LAZ0-N0S
	BRH30B-N-Z0	BRC30-R0Z0-N0S
	BRH30BL-N-Z0	BRC30-LRZ0-N0S
	BRS30B-N-Z0	BRC30-U0Z0-N0S
	BRS30BS-N-Z0	BRC30-SUZ0-N0S
35	BRH35A-S-N-Z0	BRC35-A0Z0-N0S
	BRH35AL-S-N-Z0	BRC35-LAZ0-N0S
	BRH35B-S-N-Z0	BRC35-R0Z0-N0S
	BRH35BL-S-N-Z0	BRC35-LRZ0-N0S
	BRS35B-S-N-Z0	BRC35-U0Z0-N0S
	BRS35BS-S-N-Z0	BRC35-SUZ0-N0S
45	BRH45A-S-N-Z0	BRC45-A0Z0-N0S
	BRH45AL-S-N-Z0	BRC45-LAZ0-N0S
	BRH45B-S-N-Z0	BRC45-R0Z0-N0S
	BRH45BL-S-N-Z0	BRC45-LRZ0-N0S
	BRH45B-S-N-Z0	BRC45-U0Z0-N0S
55	BCH55A-N-Z0	BRC55-A0Z0-N0S
	BCH55AL-N-Z0	BRC55-LAZ0-N0S
	BCH55B-N-Z0	BRC55-R0Z0-N0S

Table d'équivalence—Clé de commande pour bloc  
Equivalence Table—Carriage Ordering Key

Taille/ Size	Prédécesseur/ Previous	Nouveau/ New
15	BRH15A-N-Z1	BRC15-A0Z1-N0S
	BRH15B-N-Z1	BRC15-R0Z1-N0S
	BRS15B-N-Z1	BRC15-U0Z1-N0S
	BRS15BS-N-Z1	BRC15-SUZ1-N0S
20	BRH20A-N-Z1	BRC20-A0Z1-N0S
	BRH20AL-N-Z1	BRC20-LAZ1-N0S
	BRH20B-N-Z1	BRC20-R0Z1-N0S
	BRH20BL-N-Z1	BRC20-LRZ1-N0S
	BRS20B-N-Z1	BRC20-U0Z1-N0S
	BRS20BS-N-Z1	BRC20-SUZ1-N0S
25	BRH25A-N-Z1	BRC25-A0Z1-N0S
	BRH25AL-N-Z1	BRC25-LAZ1-N0S
	BRH25B-N-Z1	BRC25-R0Z1-N0S
	BRH25BL-N-Z1	BRC25-LRZ1-N0S
	BRS25B-N-Z1	BRC25-U0Z1-N0S
	BRS25BS-N-Z1	BRC25-SUZ1-N0S
30	BRH30A-N-Z1	BRC30-A0Z1-N0S
	BRH30AL-N-Z1	BRC30-LAZ1-N0S
	BRH30B-N-Z1	BRC30-R0Z1-N0S
	BRH30BL-N-Z1	BRC30-LRZ1-N0S
	BRS30B-N-Z1	BRC30-U0Z1-N0S
	BRS30BS-N-Z1	BRC30-SUZ1-N0S
35	BRH35A-S-N-Z1	BRC35-A0Z1-N0S
	BRH35AL-S-N-Z1	BRC35-LAZ1-N0S
	BRH35B-S-N-Z1	BRC35-R0Z1-N0S
	BRH35BL-S-N-Z1	BRC35-LRZ1-N0S
	BRS35B-S-N-Z1	BRC35-U0Z1-N0S
	BRS35BS-S-N-Z1	BRC35-SUZ1-N0S
45	BRH45A-S-N-Z1	BRC45-A0Z1-N0S
	BRH45AL-S-N-Z1	BRC45-LAZ1-N0S
	BRH45B-S-N-Z1	BRC45-R0Z1-N0S
	BRH45BL-S-N-Z1	BRC45-LRZ1-N0S
	BRH45B-S-N-Z1	BRC45-U0Z1-N0S
55	BCH55A-N-Z1	BRC55-A0Z1-N0S
	BCH55AL-N-Z1	BRC55-LAZ1-N0S
	BCH55B-N-Z1	BRC55-R0Z1-N0S

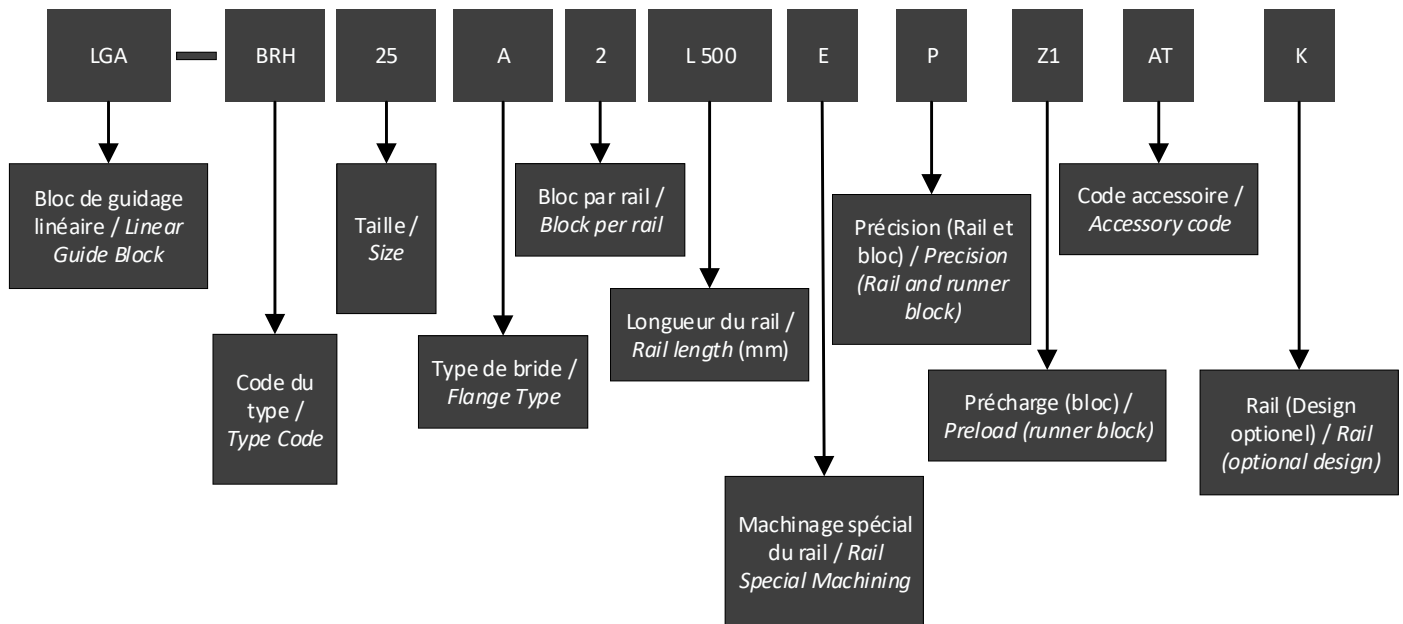
# INTRODUCTION

## Table d'équivalence ABBA Tech / *Equivalence Table*

Table d'équivalence— Clé de commande pour rail Equivalence Table—Rail Ordering Key			
Taille / Size	Prédécesseur / Previous	Nouveau/ New	Note
15	BR15R-N-L4000	BRR15-04000ND0-00	STOCK ITEM
20	BR20R-N-L4000	BRR20-04000ND0-00	STOCK ITEM
25	BR25R-N-L4000	BRR25-04000ND0-00	STOCK ITEM
30	BR30R-N-L4000	BRR30-04000ND0-00	STOCK ITEM
35	BR35R-N-L4000	BRR35-04000ND0-00	STOCK ITEM
45	BR45R-N-L4000	BRR45-04000ND0-00	STOCK ITEM
55	BCC55R-N-L4000	BRR55-04000ND0-00	STOCK ITEM
15	BR15R-N-K-L4000	BRR15-04000ND4-00	STOCK ITEM
20	BR20R-N-K-L4000	BRR20-04000ND4-00	STOCK ITEM
25	BR25R-N-K-L4000	BRR25-04000ND4-00	STOCK ITEM
30	BR30R-N-K-L4000	BRR30-04000ND4-00	STOCK ITEM
35	BR35R-N-K-L4000	BRR35-04000ND4-00	STOCK ITEM
45	BR45R-N-K-L4000	BRR45-04000ND4-00	STOCK ITEM
15	BR15R-N-L1500	BRR15-01500ND0-00	RAIL LENGTH: 1500 MM
	BR15R-N-K-L1500	BRR15-01500ND4-00	RAIL LENGTH: 1500 MM

# INTRODUCTION

## Nomenclature Canimex / Canimex Codification



Code du type / Type code	
<b>BRH</b>	Standard international / International standard
<b>BRS</b>	Assemblage bas / Low assembly
<b>BRX</b>	Assemblage spécial / Special Design
<b>BCH</b>	Standard international avec cage / International Standard with cage
<b>BCS</b>	Assemblage bas avec cage / Low assembly with cage
<b>BCN</b>	Série à rigidité élevé avec cage / High Rigidity serie with cage
<b>BCX</b>	Assemblage spécial avec cage / Special Design with cage

Taille / Size
15
20
25
30
35
45
55

Précharge / Preload	
<b>ZF</b>	Dégagement / Clearance
<b>Z0</b>	Aucune précharge / No Preload
<b>Z1</b>	Légère précharge / Light Preload
<b>Z2</b>	Précharge medium / Medium Preload
<b>Z3</b>	Précharge élevée / Heavy Preload

Type de bride / Flange Type	
<b>A</b>	Avec bride / With flange
<b>B</b>	Sans bride / Without flange
<b>C</b>	Trou débouchant avec bride / Through hole with flange
<b>AS</b>	Type court avec bride / Short type with flange
<b>CS</b>	Court trou débouchant avec bride / Shorty type through hole with flange
<b>AL</b>	Type long avec bride / Long type with flange
<b>BL</b>	Type long sans bride / Long type without flange
<b>CL</b>	Long trou débouchant avec bride / Long type through hole with flange
<b>BS</b>	Type court sans bride / Short type without flange

Précision / Precision	
<b>N</b>	Normal / Normal
<b>H</b>	Élevé / High
<b>P</b>	Précision / Precision
<b>SP</b>	Super-Précision / Super-Precision
<b>UP</b>	Ultra-Précision / Ultra-Precision

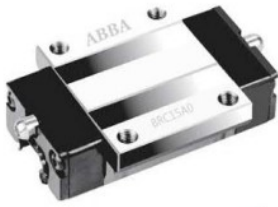


# SELECTION

## GUIDAGE LINÉAIRE / *LINEAR GUIDEWAY*

### Vue d'ensemble du produit

### Product Overview



**BRC-A0**  
**BRD-A0**

Bloc à bride, longueur standard, hauteur standard / *Flanged block, standard length, standard height*



**BRC-R0**  
**BRD-R0**

Bloc élancé, longueur standard, hauteur supérieure / *Slim-line block, standard length, extended height*



**BRC-U0**  
**BRD-U0**

Bloc élancé, longueur standard, hauteur standard / *Slim-line block, standard length, standard height*

### BRR

Rail profilé avec trou borgne / *Profile rail with blind holes*



### BRR

Rail profilé avec trous standard / *Profile rail with standard holes*



**BRC-LA**  
**BRD-LA**

Bloc à bride, longueur supérieure, hauteur standard / *Flanged block, extended length, standard height*



**BRC-LR**  
**BRD-LR**

Bloc élancé, longueur supérieure, hauteur supérieur / *Slim-line block, extended length, extended height*



**BRC-SU**  
**BRD-SU**

Bloc élancé, longueur courte, hauteur standard / *Slim-line block, short length, standard height*



# SELECTION

## GUIDAGE LINÉAIRE / LINEAR GUIDEWAY

Nomenclature ABBA Tech—Assemblage

ABBA Tech Ordering Key —System

	B	R	S	1	5	-	A	0	C	2	Z	1	-	1	0	8	0	0	N	D	0	-	A	0	S	W	2	
<b>Grandeur / Size</b>	_____																											
15, 20, 25, 30, 35, 45																												
<b>Type de bloc / Block</b>	_____																											
A0 Flanged block, standard length, standard height																												
LA Flanged block, extended length, standard height																												
SU Slim-line block, short length, standard height																												
U0 Slim-line block, standard length, standard height																												
R0 Slim-line block, standard length, extended height																												
LR Slim-line block, extended length, extended height																												
<b>Couvercle-embout/ End Cap Type</b>	_____																											
C Standard End Cap (for 15, 20, 25, 30)																												
D Short End Cap (for 15, 20, 25, 30, 35, 45)																												
<b>Nb de blocs par rail / Number of block per</b>	_____																											
1-9 1 - 9 blocks per rail																												
A-W > 9 blocks per rail (10=A, 11= B, 12=C...)																												
<b>Classe de précharge / Preload Class</b>	_____																											
ZF Clearance																												
Z0 No preload																												
Z1 Light preload, 0-0.02C																												
Z2 Medium preload, 0.02-0.05C																												
Z3 Heavy preload, 0.05-0.07C																												
<b>Longueur de rail / Rail</b>	_____																											
00080-99999 mm (1 mm steps)																												
<b>Classe de précision / Accuracy</b>	_____																											
N Normal																												
H High																												
P Precision																												
<b>Perçage du rail / Rail</b>	_____																											
D0 Standard hole (Standard hole distance. The distance of the first and last attachment holes is produced equidistantly.)																												
F0 Standard hole (Standard hole distance. The distance of the first and last attachment holes is not produced equidistantly.)																												
D4 Blind hole (Standard hole distance. The distance of the first and last attachment holes is produced equidistantly.)																												
F4 Blind hole (Standard hole distance. The distance of the first and last attachment holes is not produced equidistantly.)																												
DX Special machining, customized according to drawing number																												
<b>Rail jointé / Joint Rail Track</b>	_____																											
A Yes																												
0 No																												
<b>Traitement du rail / Rail treatment</b>	_____																											
0 Standard (anti-rust oil)																												
B Black oxidation plating																												
H Hard chromium plating																												
<b>Joints d'étanchéité / Sealing</b>	_____																											
S Standard seal (only end seal)																												
0 Low friction shield																												
1 Standard seal + Scraper plate																												
U <sup>1)</sup> Standard seal + Metal frame to hold two side seals																												
V Standard seal + BR Lubrication reservoir kit																												
W Standard seal + Scraper plate + BR Lubrication reservoir kit																												
<b>Nb de rail parallèles / Number of parallel rails</b>	_____																											
00 Single Rail																												
W2-W9 Parallel Rails (W2: 2 rails, W3: 3 rails...)																												



# SELECTION

## GUIDAGE LINÉAIRE / *LINEAR GUIDEWAY*

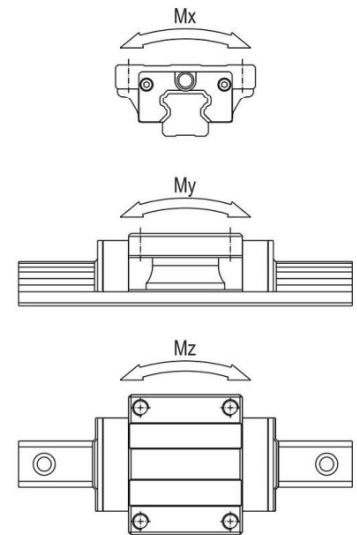
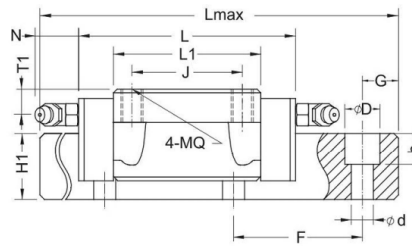
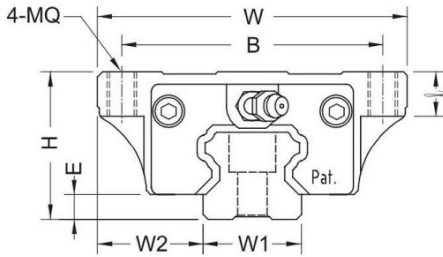
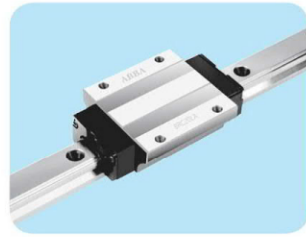
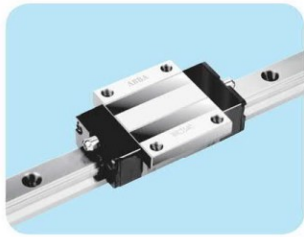
Nomenclature ABBA Tech—Rail

ABBA Tech Ordering Key —Rail

	B	R	R	1	5	-	1	0	8	0	0	N	D	0	-	A	0
<b>Grandeur / Size</b>				_____													
15, 20, 25, 30, 35, 45				_____													
<b>Longueur de rail / Rail Length</b>				_____													
00080~99999 mm (1 mm steps)				_____													
<b>Classe de précision / Accuracy Class</b>	_____																
N Normal																	
<b>Perçage du rail / Rail Hole</b>	_____																
D0 Standard hole (Standard hole distance. The distance of the first and last attachment holes is produced equidistantly.)																	
F0 Standard hole (Standard hole distance. The distance of the first and last attachment holes is not produced equidistantly.)																	
D4 Blind hole (Standard hole distance. The distance of the first and last attachment holes is produced equidistantly.)																	
F4 Blind hole (Standard hole distance. The distance of the first and last attachment holes is not produced equidistantly.)																	
DX Special machining, customized according to drawing number																	
<b>Rail jointé / Joint Rail Tracks</b>	_____																
A Yes																	
0 No																	
<b>Traitement du rail / Rail Treatment</b>	_____																
0 Standard (anti-rust oil)																	
B Black oxidation plating																	
H Hard chromium plating																	

# SELECTION

## BRC-A0/LA, BRD-A0/LA



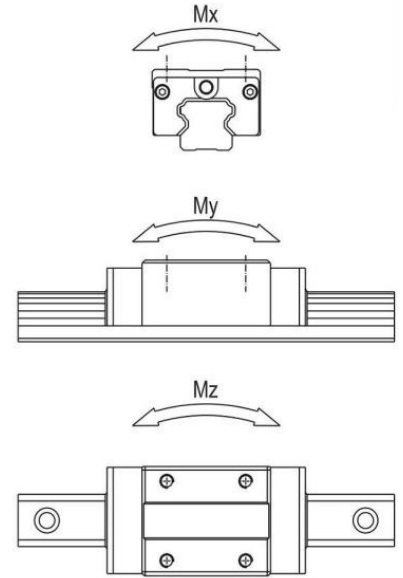
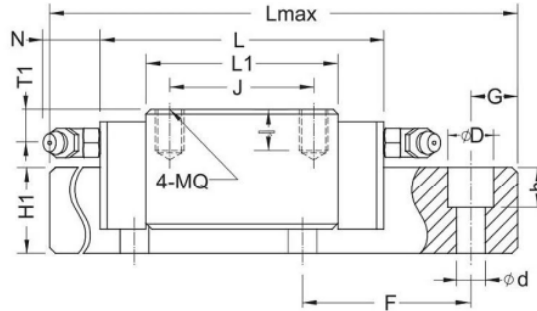
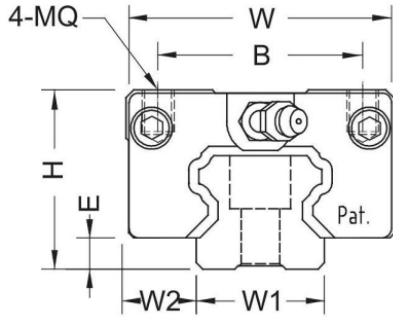
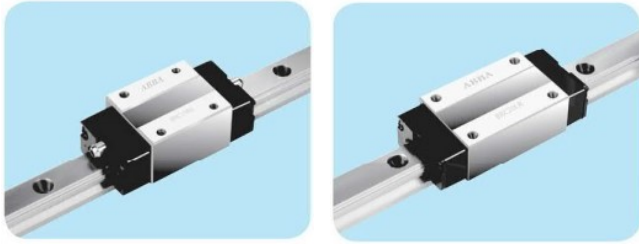
Modèle/ Model	Assemblage Assembly (mm)				Bloc BR Block (mm)							Rail BR Rail (mm)			
	H	W	W2	E	L	BxJ	MQxI	L1	Oil hole	T1	(N)	W1	H1	F	dxDxh
BRC15A0	24	47	16	4.6	66	38x30	M5x8	40	∅ 3	4.3	5	15	14	60	4.5x7.5x5.8
BRD15A0					56										
BRC20A0	30	63	21.5	5	77.8	53x40	M6x9	48.8	M6x1	7	15.6	20	18	60	6x9.5x9.0
BRD20A0					67.8			63.4							
BRC20LA					92.4										
BRD20LA					82.4										
BRC25A0	36	70	23.5	7	88	57x45	M8x12	57	M6x1	7.8	15.6	23	22	60	7x11x9.5
BRD25A0					78			79.1							
BRC25LA					110.1										
BRD25LA					100.1										
BRC30A0	42	90	31	9	109	72x52	M10x12	72	M6x1	7	15.6	28	26	80	9x14x12.5
BRD30A0					99			94.3							
BRC30LA					131.3										
BRD30LA					121.3										
BRD35A0	48	100	33	9.5	109	82x62	M10x13	80	M6x1	8	15.6	34	29	80	9x14x12.5
BRD35LA					134.8			105.8							
BRD45A0	60	120	37.5	14	138.2	100x80	M12x15	105	M8x1	8.5	16	45	38	105	14x20x17.5
BRD45LA					163			129.8							

Modèle/ Model	Référence / Ref Data (mm)		Capacité de charge / Basic Load Rating (Kgf) **		Moment statique / Static Moment (Kgf*m)			Poids / Weight	
	Lmax	G	(C)	(C <sub>0</sub> )	Mx	My	Mz	Block(Kg)	Rail(Kg/m)
BRC15A0	4000	20	850	1350	10.1	6.8	6.8	0.21	1.4
BRD15A0									
BRC20A0	4000	20	1400	2400	24	14.6	14.6	0.4	2.6
BRD20A0									
BRC20LA			1650	3000	30	23.8	23.8	0.52	
BRD20LA									
BRC25A0	4000	20	1950	3200	36.8	22.8	22.8	0.57	3.6
BRD25A0									
BRC25LA			2600	4600	52.9	45.5	45.5	0.72	
BRD25LA									
BRC30A0	4000	20	2850	4800	67.2	43.2	43.2	1.1	5.2
BRD30A0									
BRC30LA			3600	6400	89.6	75.4	75.4	1.4	
BRD30LA									
BRD35A0	4000	20	3850	6200	105.4	62	62	1.6	7.2
BRD35LA			4800	8300	141.1	109.8	109.8	2	
BRD45A0	4000	22.5	6500	10500	236.3	137.8	137.8	2.7	12.3
BRD45LA			7700	13000	292.5	210.9	210.9	3.6	

\*\* Unité  
Kgf= kilogramme-force  
1Kgf = 9.806 Newton  
C = Charge dynamique  
C<sub>0</sub> = Charge statique

# SELECTION

## BRC-R0/LR, BRD-R0/LR



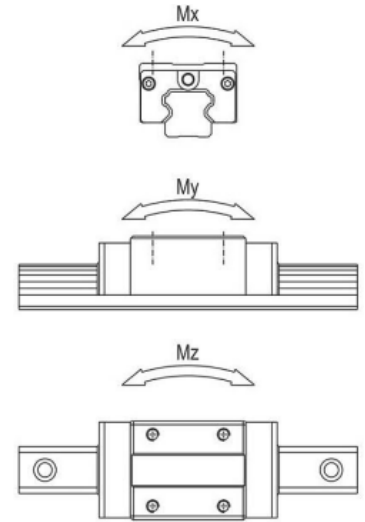
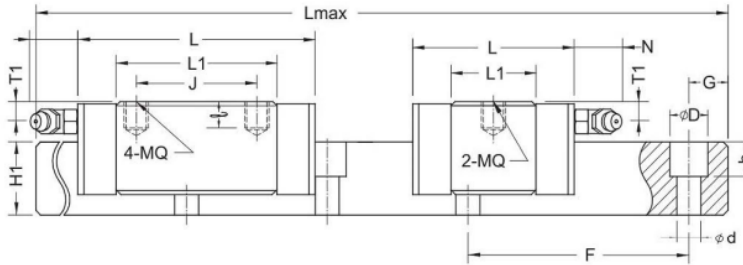
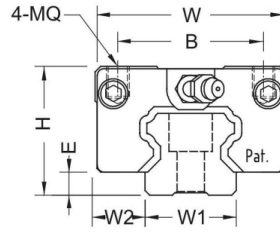
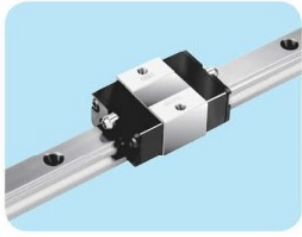
Modèle/ Model	Assemblage Assembly (mm)				Bloc BR Block (mm)							Rail BR Rail (mm)			
	H	W	W2	E	L	BxJ	MQxI	L1	Oil hole	T1	(N)	W1	H1	F	dxDxh
BRC15R0	28	34	9.5	4.6	66	26x26	M4x6	40	ø 3	8.3	5	15	14	60	4.5x7.5x5.8
BRD15R0					56										
BRC20R0	30	44	12	5	77.8	32x36	M5x8	48.8	M6x1	7	15.6	20	18	60	6x9.5x9.0
BRD20R0					67.8										
BRC20LR					92.4	32x50									
BRD20LR					82.4										
BRC25R0	40	48	12.5	7	88	35x35	M6x10	57	M6x1	11.8	15.6	23	22	60	7x11x9.5
BRD25R0					78										
BRC25LR					110.1	35x50									
BRD25LR					100.1										
BRC30R0	45	60	16	9	109	40x40	M8x13	72	M6x1	10	15.6	28	26	80	9x14x12.5
BRD30R0					99										
BRC30LR					131.3	40x60									
BRD30LR					121.3										
BRD35R0	55	70	18	9.5	109	50x50	M8x13	80	M6x1	15	15.6	34	29	80	9x14x12.5
BRD35LR					134.8	50x72		105.8							
BRD45R0	70	86	20.5	14	138.2	60x60	M10x16.5	105	M8x1	18.5	16	45	38	105	14x20x17.5
BRD45LR					163	60x80		129.8							

Modèle/ Model	Référence / Ref Data (mm)		Capacité de charge / Basic Load Rating (kgf)**		Moment statique / Static Moment (kgf·m)			Poids / Weight		
	Lmax	G	(C)	(C <sub>0</sub> )	Mx	My	Mz	Block(Kg)	Rail(Kg/m)	
BRC15R0	4000	20	850	1350	10.1	6.8	6.8	0.19	1.4	
BRD15R0										
BRC20R0	4000	20	1400	2400	24	14.6	14.6	0.31	2.6	
BRD20R0										
BRC20LR								1650		3000
BRD20LR										
BRC25R0	4000	20	1950	3200	36.8	22.8	22.8	0.45	3.6	
BRD25R0										
BRC25LR								2600		4600
BRD25LR										
BRC30R0	4000	20	2850	4800	67.2	43.2	43.2	0.91	5.2	
BRD30R0										
BRC30LR								3600		6400
BRD30LR										
BRD35R0	4000	20	3850	6200	105.4	62	62	1.5	7.2	
BRD35LR			4800	8300	141.1	109.8	109.8	1.9		
BRD45R0	4000	22.5	6500	10500	236.3	137.8	137.8	2.3	12.3	
BRD45LR			7700	13000	292.5	210.9	210.9	2.8		

\*\* Unité  
Kgf= kilogramme-force  
1Kgf = 9.806 Newton  
C = Charge dynamique  
C<sub>0</sub> = Charge statique

# SELECTION

## BRC-SU/U0, BRD-SU/U0



Modèle/ Model	Assemblage Assembly (mm)				Bloc BR Block (mm)							Rail BR Rail (mm)				
	H	W	W2	E	L	BxJ	MQxl	L1	Oil hole	T1	(N)	W1	H1	F	dxDxh	
BRC15U0	24	34	9.5	4.6	66	26x26	M4x5.6	40	ø 3	4.3	5	15	14	60	4.5x7.5x5.8	
BRD15U0					56			21.6								
BRC15SU					47.6	26x -										
BRD15SU					37.6											
BRC20U0	28	42	11	5	77.8	32x32	M5x6.4	48.8	M6x1	5	15.6	20	18	60		6x9.5x9.0
BRD20U0					67.8			28								
BRC20SU					57	32x -										
BRD20SU					47											
BRC25U0	33	48	12.5	7	88	35x35	M6x8	57	M6x1	4.8	15.6	23	22	60		7x11x9.5
BRD25U0					78			31.5								
BRC25SU					62.5	35x -										
BRD25SU					52.5											
BRC30U0	42	60	16	9	109	40x40	M8x11.5	72	M6x1	7	15.6	28	26	80		9x14x12.5
BRD30U0					99			38.6								
BRC30SU					75.6	40x -										
BRD30SU					65.6											
BRD35U0	48	70	18	9.5	109	50x50	M8x11.2	80	M6x1	8	15.6	34	29	80	9x14x12.5	
BRD35SU					74.7			45.7								
BRD45U0					60	86		20.5								14

Modèle/ Model	Référence / Ref Data (mm)		Capacité de charge / Basic Load Rating (kgf) **		Moment statique / Static Moment (kgf*m)			Poids / Weight	
	Lmax	G	(C)	(Co)	Mx	My	Mz	Block(Kg)	Rail(Kg/m)
BRC15U0	4000	20	850	1350	10.1	6.8	6.8	0.17	1.4
BRD15U0			520	680	5.1	1.8	1.8		
BRC15SU			1400	2400	24	14.6	14.6	0.26	
BRD15SU			950	1400	7	4.9	4.9	0.17	
BRC20U0	4000	20	1950	3200	36.8	22.8	22.8	0.38	2.6
BRD20U0			1250	1750	17.5	6.9	6.9		
BRC20SU			2850	4800	67.2	43.2	43.2	0.81	
BRD20SU			1750	2400	33.6	11.6	11.6	0.48	
BRC25U0	4000	20	3850	6200	105.4	62	62	1.2	7.2
BRD25U0			2500	3650	62.1	20.9	20.9		
BRC25SU			6500	10500	236.3	137.8	137.8	2.1	
BRD25SU			6500	10500	236.3	137.8	137.8	2.1	

\*\* Unité  
Kgf= kilogramme-force  
1Kgf = 9.806 Newton  
C = Charge dynamique  
Co = Charge statique

# SELECTION

## GUIDAGE LINÉAIRE AVEC CAGE / BALL CAGED LINEAR GUIDEWAY

### Vue d'ensemble du produit



#### BCC-A0

Bloc à bride, longueur standard, hauteur standard /  
Flanged block, standard length, standard height

### Product Overview



#### BCC-R0

Bloc élancé, longueur standard, hauteur supérieure /  
Slim-line block, standard length, extended height

#### BRR

Rail profilé avec trou borgne /  
Profile rail with blind holes



#### BRR

Rail profilé avec trous standard /  
Profile rail with standard holes



#### BCC-LA

Bloc à bride, longueur supérieure, hauteur standard /  
Flanged block, extended length, standard height



#### BCC-LR

Bloc élancé, longueur supérieure, hauteur supérieure /  
Slim-line block, extended length, extended height

# SELECTION

## GUIDAGE LINÉAIRE AVEC CAGE / BALL CAGED LINEAR GUIDEWAY

### Nomenclature ABBA Tech—Assemblage

### ABBA Tech Ordering Key —System

B C S 2 0 - A 0 C 2 Z 1 - 1 0 8 0 0 N D 0 - A 0 S W 2

**Grandeur / Size** \_\_\_\_\_  
20, 25, 30, 35, 45, 55

**Type de bloc / Block Type** \_\_\_\_\_  
A0 Flanged block, standard length, standard height  
LA Flanged block, extended length, standard height  
R0 Slim-line block, standard length, extended height  
LR Slim-line block, extended length, extended height

**Couvercle-embout/ End Cap Type** \_\_\_\_\_  
C Standard End Cap

**Nb de blocs par rail / Number of block per** \_\_\_\_\_  
1~9 1 ~ 9 blockes per rail  
A~W > 9 blockes per rail (10=A, 11= B, 12=C...)

**Classe de précharge / Preload Class** \_\_\_\_\_  
ZF Clearance  
Z0 No preload  
Z1 Light preload, 0~0.02C

**Longueur de rail / Rail** \_\_\_\_\_  
00080~99999 mm (1 mm steps)

**Classe de précision / Accuracy** \_\_\_\_\_  
N Normal  
H High  
P Precision

**Perçage du rail / Rail Hole** \_\_\_\_\_  
D0 Standard hole (Standard hole distance. The distance of the first and last attachment holes is produced equidistantly.)  
F0 Standard hole (Standard hole distance. The distance of the first and last attachment holes is not produced equidistantly.)  
D4 Blind hole (Standard hole distance. The distance of the first and last attachment holes is produced equidistantly.)  
F4 Blind hole (Standard hole distance. The distance of the first and last attachment holes is not produced equidistantly.)  
DX Special machining, customized according to drawing number

**Rail jointé / Joint Rail Track** \_\_\_\_\_  
A Yes (Refer to drawing for detail)  
0 No

**Traitement du rail / Rail treatment** \_\_\_\_\_  
0 Standard (anti-rust oil)

**Joints d'étanchéité / Sealing** \_\_\_\_\_  
S Standard seal (only end seal)  
1 Standard seal + Scraper plate

**Nb de rail parallèles / Number of parallel rails** \_\_\_\_\_  
00 Single Rail  
W2~W9 Parallel Rails (W2: 2 rails, W3: 3 rails...)



# SELECTION

## GUIDAGE LINÉAIRE AVEC CAGE / BALL CAGED LINEAR GUIDEWAY

### Nomenclature ABBA Tech—Bloc

### ABBA Tech Ordering Key —Block

	B	C	C	2	0	-	A	0	Z	1	-	N	0	S	
<b>Grandeur / Size</b>	_____				_____										
20, 25, 30, 35, 45, 55															
<b>Type de bloc / Block Type</b>	_____														
A0	Flanged block, standard length, standard height														
LA	Flanged block, extended length, standard height														
R0	Slim-line block, standard length, extended height														
LR	Slim-line block, extended length, extended height														
<b>Classe de précharge / Preload Class</b>	_____														
ZF	Clearance														
Z0	No preload														
Z1	Light preload, 0~0.02C														
<b>Classe de précision / Accuracy Class</b>	_____														
N	Normal														
<b>Traitement du bloc / Block Treatment</b>	_____														
0	Standard (anti-rust oil)														
<b>Joint d'étanchéité / Sealing</b>	_____														
S	Standard seal (only end seal)														
1	Standard seal + Scraper plate														

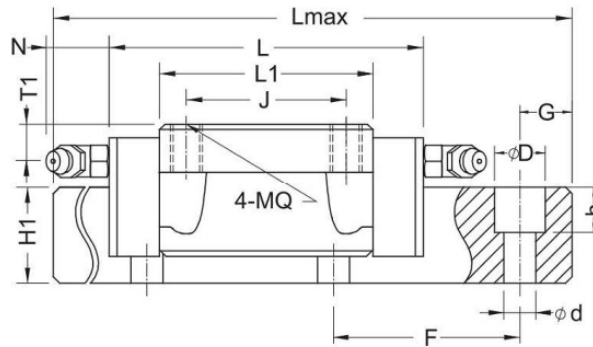
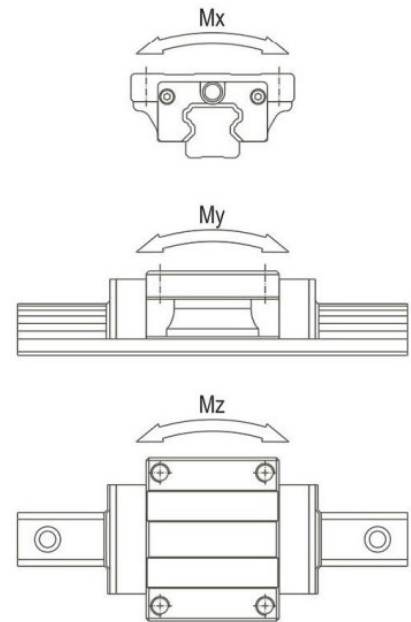
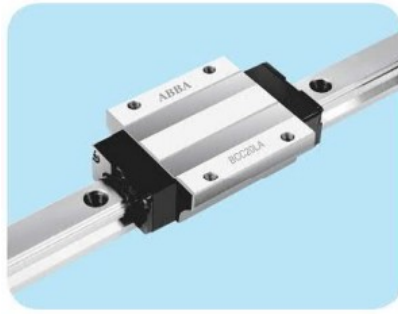
### Nomenclature ABBA Tech—Rail

### ABBA Tech Ordering Key —Rail

	B	C	R	2	0	-	1	0	8	0	0	N	D	0	-	A	0
<b>Grandeur / Size</b>	_____			_____													
20, 25, 30, 35, 45, 55																	
<b>Longueur du rail / Rail Length</b>	_____																
00080~99999 mm (1 mm steps)																	
<b>Classe de précision / Accuracy Class</b>	_____																
N	Normal																
<b>Perçage du rail / Rail Hole</b>	_____																
D0	Standard hole (Standard hole distance. The distance of the first and last attachment holes is produced equidistantly.)																
F0	Standard hole (Standard hole distance. The distance of the first and last attachment holes is not produced equidistantly.)																
D4	Blind hole (Standard hole distance. The distance of the first and last attachment holes is produced equidistantly.)																
F4	Blind hole (Standard hole distance. The distance of the first and last attachment holes is not produced equidistantly.)																
DX	Special machining, customized according to drawing number																
<b>Rail jointé / Joint Rail Track</b>	_____																
A	Yes (Refer to drawing for detail)																
0	No																
<b>Traitement sur rail / Rail Treatment</b>	_____																
0	Standard (anti-rust oil)																

# SELECTION

## BCC-A0/LA



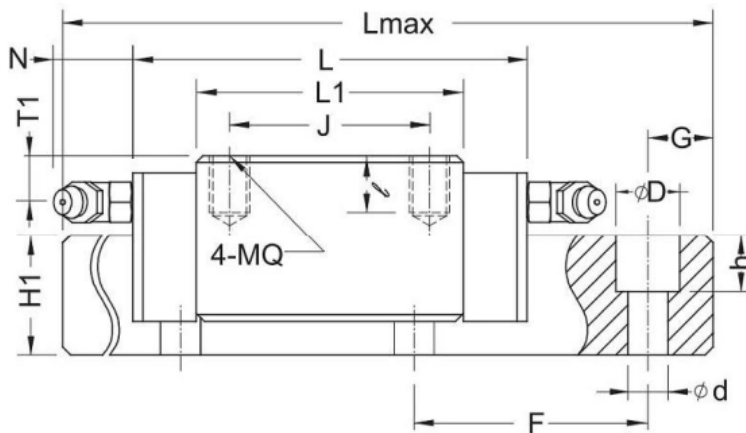
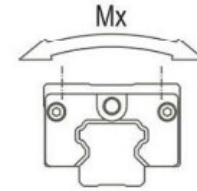
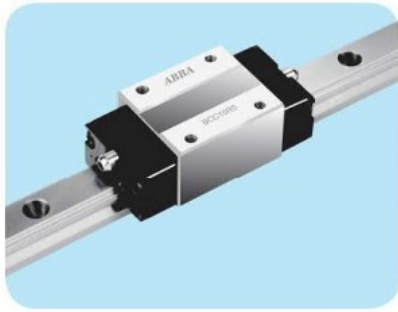
Modèle/ Model	Assemblage Assembly (mm)				Bloc BR Block (mm)							Rail BR Rail (mm)			
	H	W	W2	E	L	BxJ	MQxJ	L1	Oil hole	T1 (N)	W1	H1	F	dxDxh	
BCC20A0	30	63	21.5	6	87	53x40	M6x10	59	M6x1	7.5	15.6	20	16.5	60	6x9.5x9.0
BCC20LA					106			78							
BCC25A0	36	70	23.5	6	102	57x45	M8x12	71	M6x1	10	15.6	23	20	60	7x11x9.5
BCC25LA					119			88							
BCC30A0	42	90	31	7	116	72x52	M10x15	80	M6x1	12	15.6	28	23	80	9x14x12.5
BCC30LA					141			105							
BCC35A0	48	100	33	7.5	132	82x62	M10x17	93	M6x1	12	15.6	34	26	80	9x14x12.5
BCC35LA					162			123							
BCC45A0	60	120	37.5	8.9	150	100x80	M12x17	106	M8x1	16	16	45	32	105	14x20x17.5
BCC45LA					184			140							
BCC55A0	70	140	43.5	12.7	181	116x95	M14x21	131	M8x1	20	16	53	38	120	16x23x20.1
BCC55LA					223			173							

Modèle/ Model	Référence / Ref Data (mm)		Capacité de charge / Basic Load Rating (Kgf)**		Moment statique / Static Moment (Kgf*m)			Poids / Weight	
	Lmax	G	(C)	(Co)	Mx	My	Mz	Block(Kg)	Rail(Kg/m)
BCC20A0	4000	20	1300	2500	32.9	30.4	30.4	0.45	2.3
BCC20LA			1600	3300	43	52	52		
BCC25A0	4000	20	1800	3400	51.3	51.8	51.8	0.75	3.2
BCC25LA			2100	4200	63.5	77.2	77.2		
BCC30A0	4000	20	2500	4600	79	72	72	1.31	4.5
BCC30LA			3100	6100	105	124	124		
BCC35A0	4000	20	3500	6300	140	126	126	1.9	6.2
BCC35LA			4300	8400	184	214	214		
BCC45A0	4000	22.5	4700	8200	245	187	187	3.3	10.4
BCC45LA			5800	10900	320	315	315		
BCC55A0	4000	30	7600	12800	446	355	355	5.4	14.5
BCC55LA			9300	17100	580	600	600		

\*\* Unité  
Kgf= kilogramme-force  
1Kgf = 9.806 Newton  
C = Charge dynamique  
Co = Charge statique

# SELECTION

## BCC-R0/LR



Modèle/ Model	Assemblage Assembly (mm)				Bloc BR Block (mm)						Rail BR Rail (mm)				
	H	W	W2	E	L	BxJ	MQxJ	L1	Oil hole	T1 (N)	W1	H1	F	dxDxh	
BCC20R0	30	44	12	6	87	32x36	M5x7	59	M6x1	7.5	15.6	20	16.5	60	6x9.5x9.0
BCC20LR					106	32x50		78							
BCC25R0	40	48	12.5	6	102	35x35	M6x10	71	M6x1	14	15.6	23	20	60	7x11x9.5
BCC25LR					119	35x50		88							
BCC30R0	45	60	16	7	116	40x40	M8x12	80	M6x1	15	15.6	28	23	80	9x14x12.5
BCC30LR					141	40x60		105							
BCC35R0	55	70	18	7.5	132	50x50	M8x14	93	M6x1	19	15.6	34	26	80	9x14x12.5
BCC35LR					162	50x72		123							
BCC45R0	70	86	20.5	8.9	150	60x60	M10x16	106	M8x1	26	16	45	32	105	14x20x17.5
BCC45LR					184	60x80		140							
BCC55R0	80	100	23.5	12.7	181	75x75	M12x19	131	M8x1	30	16	53	38	120	16x23x20.1
BCC55LR					223	75x95		173							

Modèle/ Model	Référence / Ref Data (mm)		Capacité de charge / Basic Load Rating (Kgf)**		Moment statique / Static Moment (Kgf*m)			Poids / Weight	
	Lmax	G	(C)	(C <sub>0</sub> )	M <sub>x</sub>	M <sub>y</sub>	M <sub>z</sub>	Block(Kg)	Rail(Kg/m)
BCC20R0	4000	20	1300	2500	32.9	30.4	30.4	0.35	2.3
BCC20LR			1600	3300	43	52	52		
BCC25R0	4000	20	1800	3400	51.3	51.8	51.8	0.7	3.2
BCC25LR			2100	4200	63.5	77.2	77.2		
BCC30R0	4000	20	2500	4600	79	72	72	1.1	4.5
BCC30LR			3100	6100	105	124	124		
BCC35R0	4000	20	3500	6300	140	126	126	1.7	6.2
BCC35LR			4300	8400	184	214	214		
BCC45R0	4000	22.5	4700	8200	245	187	187	3.1	10.4
BCC45LR			5800	10900	320	315	315		
BCC55R0	4000	30	7600	12800	446	355	355	5.2	14.5
BCC55LR			9300	17100	580	600	600		

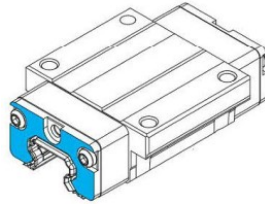
\*\* Unité  
Kgf= kilogramme-force  
1Kgf = 9.806 Newton  
C = Charge dynamique  
C<sub>0</sub> = Charge statique

# SELECTION

## ACCESSOIRES / ACCESSORIES

### Joint standard

Les joints standard sont des joints de contact qui peuvent être installés sur les faces de terminaison des blocs. Les joints standards sont appropriés pour des conditions normales



### Standard Seal

Standard seals are contact seals that can be attached to the block end faces. Standard seal is suitable for normal environment.

### Flasque à faible coefficient de frottement

Ces flasques sont des joints d'étanchéité sans contact qui peuvent réduire la résistance lors du glissement et remplacer le joint standard.

### Low Friction Shield

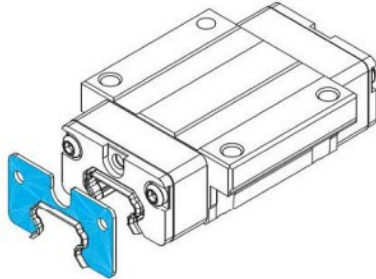
These shields are non-contact seals that can reduce running resistance and replace standard seal.

### Grattoir de métal

Les grattoirs de métal sont des composants sans contact en acier à ressorts. Ils protègent les joints standards contre des contaminants grossiers ou des copeaux de métal chauds.

### Scraper Plate

Scraper plates are spring-steel, non-contact components. They protect the standard seal from, for example, coarse contaminants or hot metal chips.



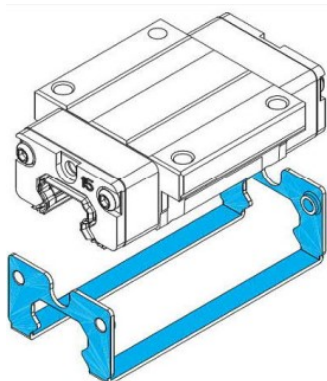
Modèle / Model	Épaisseur / Thickness (mm)
BR15	1
BR20	1
BR25	1.5
BR30	1
BR35	1
BR45	1

### Cadre de métal de type U

Ces types de cadres peuvent contenir les deux joints latéraux et modifier les valeurs de dimension de bloc L et E. Voir tableau ci-contre.

### U Type Metal Frame

U Type metal frames can hold the two side seals and change the block dimension values of L and E. See the table below.



Modèle / Model	L (mm)	E (mm)
BR15	68	2.6
BR20	79.8	3
BR25	90	5
BR30	111	7
BR35	111	7.5
BR45	140.2	12

# PRODUITS CONNEXES / *Related products*

Pour les produits présentés dans ce catalogue, Canimex offre aussi les produits connexes suivants.

*For the products presented in this catalogue, Canimex also offers these related products.*

**Guidage linéaire—Rouleaux à came /  
Cam Roller Linear Guide**



**Palier de support pour vis à billes /  
Support Unit of Ball Screw**



**Guidage linéaire—Arbre rond /  
Round Shaft Linear Guide**



**Roulement linéaire autolubrifiant /  
Self-Lubricated Linear bearing**



**Vis à billes /  
Ball Screw**



**Roulement à billes linéaire /  
Linear ball Bearing**



**Arbre coulissant et support /  
Slide Shaft and support**

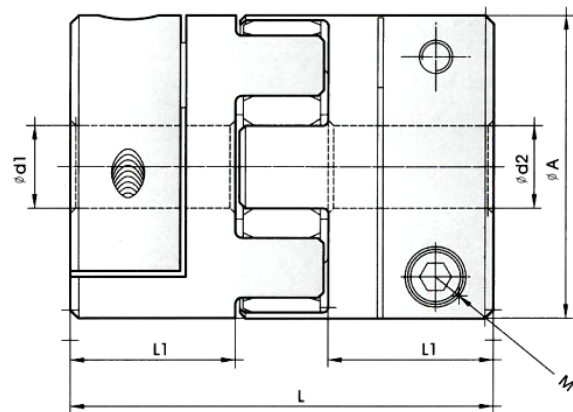
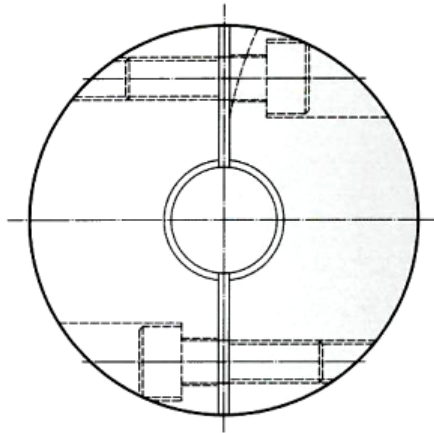


# PRODUITS CONNEXES / Related products

## Accouplement élastomère / Elastomer Coupling

L'accouplement est un dispositif mécanique joint à deux axes permet le renversement de direction tout en transférant un couple sécuritaire. Le dispositif d'accouplement flexible se caractérise par un amortissement des chocs, une absorption parallèle des contraintes, des angles de déviation, une différence de phase axiale et une amélioration de la capacité de locomotion systématique.

The coupling is typically a mechanic device linked with two axes to allow for reversing with the safe torque well transferred. The flexible coupling device is featured with impact buffering, parallel stress absorption, deviating angles, axial phase difference, and the improving capability for systematic locomotion.



Dimension / Dimension					Unité/ Unit: mm		
Modèle / Model	A	L	L1	dmax	d1 x d2		M
					d1	d2	
SRJ-20C	20	30	10	10	4/ 5/ 6/ 6.35/ 7/ 8/ 10		M3
SRJ-30C	30	35	11	16	5/ 6/ 6.35/ 8/ 9/ 9.5/ 10/ 11/ 12/ 14/ 15		M4
SRJ-40c	40	66	25	22	8/ 9.5/ 10/ 11/ 12/ 14/ 15/ 16/ 18/ 19/ 20		M5
SRJ-55C	55	78	30	28	12/ 15/ 16/ 18/ 19/ 20/ 22/ 24/ 25		M6
SRJ-65C	65	90	35	38	20/ 22/ 24/ 25/ 28/ 30/ 32/ 35/ 38		M8

### Fonction / Function

Modèle / Model	Couple nominal / Rated Torque (N.m)	Couple max / Max Torque (N.m)	Fréquence rotation max / Max rotational Frequency (min <sup>-1</sup> )	Torsion statique Rigidité ressort/ Static Torsion spring stiffness (N.m/rad)	Torsion dynamique Rigidité ressort/ Dynamic Torsion Spring stiffness (N.m/rad)	Poids / Weight (kg)		Moment d'inertie de masse/ Mass moment of inertia (kgm <sup>2</sup> )		Radiale/ Radial (mm)	Angular/ Angular (°)	Axiale/ Axial (mm)
						Each hub	spider	Each hub	Spider			
SRJ-20C	5	10	7600	51.0	151	8.5 x 10 <sup>-3</sup>	1.7x 10 <sup>-3</sup>	0.46x 10 <sup>-6</sup>	0.073x 10 <sup>-6</sup>	0.10	1.0	0.8
SRJ-30C	12.5	25	5100	170.9	505	18x 10 <sup>-3</sup>	4.2x 10 <sup>-3</sup>	2.5x 10 <sup>-6</sup>	0.45x 10 <sup>-6</sup>	0.15	1.0	1
SRJ-40c	17	34	3800	857.5	2571	64x 10 <sup>-3</sup>	6.5x 10 <sup>-3</sup>	20.1x 10 <sup>-6</sup>	1.44x 10 <sup>-6</sup>	0.15	1.0	1.2
SRJ-55C	60	120	2800	2060	6163	130x 10 <sup>-3</sup>	17.4x 10 <sup>-3</sup>	50.5x 10 <sup>-6</sup>	7.3x 10 <sup>-6</sup>	0.2	1.0	1.4
SRJ-65C	160	320	2350	3430	10291	250x 10 <sup>-3</sup>	28.6x 10 <sup>-3</sup>	200.1x 10 <sup>-6</sup>	16.3x 10 <sup>-6</sup>	0.2	1.0	1.5



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## GROUPE CANIMEX EN BREF

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