DryLin® W Guiding system

Introduction

Your choice of length and width

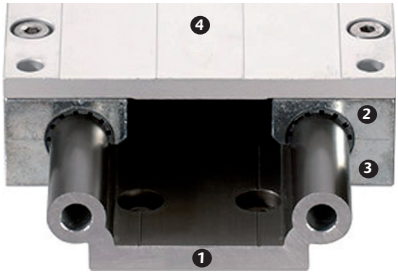
DryLin®W is a low cost linear guiding system that was developed to provide both design flexibility and quick assembly in both single and double rail configurations. The hard anodised aluminium rails means that DryLin®W systems are reputed for their low wear, low coefficients of friction, their resistance to dirt and their quiet operation.

Characteristics

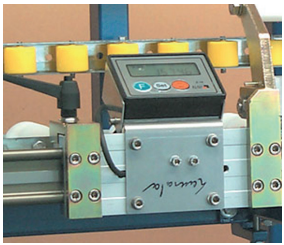
- Sliding elements are maintenance free
- Maximum speed: 15 m/s
- Working temperature: -40°C to +90°C

Advantages

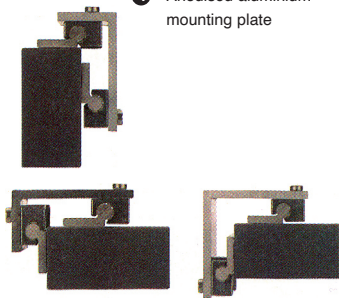
- Easily mounting, no maintenance required
- Low cost sliding carriage made from chromed zinc alloy and fitted with an iglidur® J200 liner
- Extremely light and lubricant free
- Unsupported sections allowed
- Single rail systems possible
- Not affected by dirt or dust
- Highly robust, wear and corrosion resistant
- Noiseless operation
- Hardened anodised aluminium rails
- Sliding elements fitted with iglidur® J200 liners
- Physical dimensions match those of standard aluminium profiles
- Low coefficient of friction



1 - Hardened anodised aluminium rails
2 - Smooth iglidur® J200 liners
3 - Chromed zinc alloy carriage
4 - Anodised aluminium mounting plate



DryLin ® W used for a stop dog in the glass industry

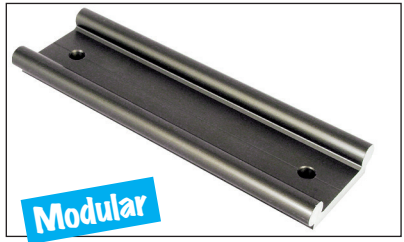


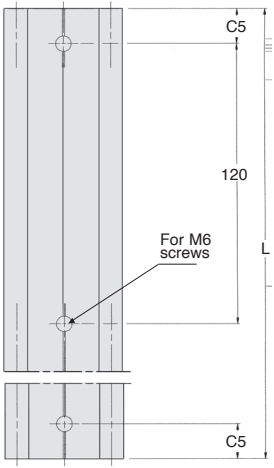
DryLin ® W – Highest design flexibility

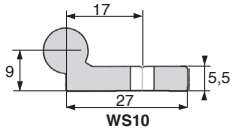
Size 10 - Ø10 shaft

WS10

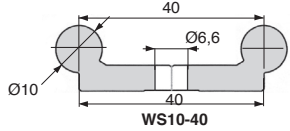
- Material: hard anodised aluminium
- Standard length: 1000mm
  Option: Other lengths available (up to 4000mm)
- For **WJUM10 (tome 3 p.226)**, **WJRM10 (tome 3 p.235)** and **WW10 (tome 3 p.227)**



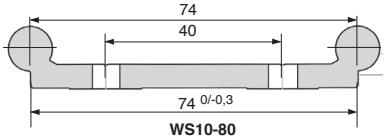




WS10



WS10-40



WS10-80

DISCOUNTS

Qty	1+	5+	10+	15+	20+
Disc.	List	-10%	-15%	-20%	On request

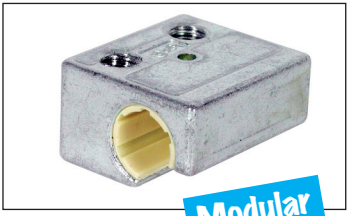
Part number	Length L (mm)	Max. length L (mm)	C5 mini	C5 maxi	Iy (mm⁴)	Iz (mm⁴)	Wby (mm³)	Wbz (mm³)	Weight (kg/m)	Stock*	Price each 1 to 4
WS10	1000	4000	20	79,5	19000	2850	1000	310	0,62	✔	80,98 €
WS10-40	1000	4000	20	79,5	91000	5100	3600	590	1,00	✔	116,22 €
WS10-80	1000	4000	20	79,5	388000	6100	9200	650	1,50	✔	170,69 €

*Depending on availability - Dimensions in mm

DryLin®W bearing block

WJUM10 Size 10 - For loads of up to 1200N

- *Material:*
  Housing: Zamak
  Liner: iglidur ®J200

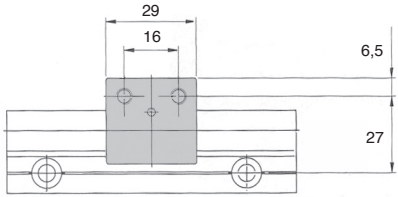


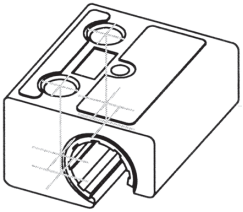
Advantages

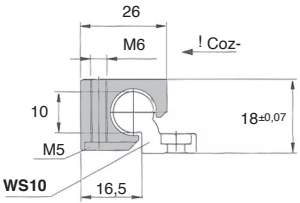
- *Full design flexibility using* **WS10** *single rails and* **WJUM01-10** *bearing blocks*

Accessories

- ***WS10 (tome 3 p.225)***







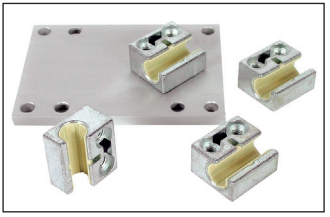
DISCOUNTS

Qty	1+	5+	10+	15+	20+
Disc.	List	-10%	-15%	-20%	On request

Part number	Type	Backlash (mm)	Weight (g)	Max. static load (20°C) Coy (N)	Coz+ (N)	Coz- (N)	Stock*	Price each 1 to 4
WJUM01-10	Fixed	0	27	1200	1200	250	✔	7,60 €
WJUM01-10-LL	Floating	±0,2	27	1200	1200	250	✔	8,74 €

**Depending on availability - Dimensions in mm*

A **WW10** *slide comprises:*
- *1 mounting assembly plate*
- *4 WJUM01-10 bearing block*



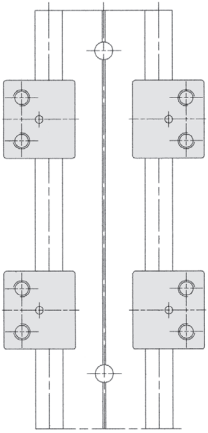
Modular

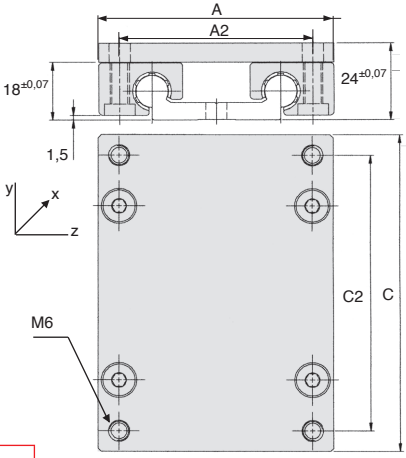
Advantages

- *Low profile design*

Accessories

- **WS10-40 (tome 3 p.225)**
  WS10-80 (tome 3 p.225) *rails*





DISCOUNTS

Qty	1+	5+	10+	15+	20+
Disc.	List	-10%	-15%	-20%	On request

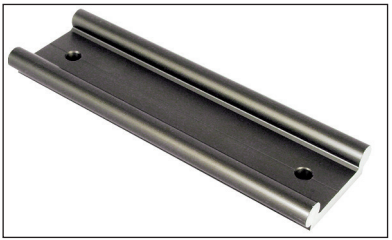
Part number	A	C	A2	C2	Max. static load (20°C) Coy (N)	Coz (N)	Mox (Nm)	Moy (Nm)	Moz (Nm)	Weight (kg)	Stock*	Price each 1 to 4
WW10-40-10	73	100	60	87	4800	4800	96	170	170	0,29	✔	101,17 €
WW10-40-15	73	150	60	137	4800	4800	96	290	290	0,34	-	85,47 €
WW10-40-20	73	200	60	187	4800	4800	96	410	410	0,40	✔	90,47 €
WW10-80-10	107	100	94	87	4800	4800	178	170	170	0,34	✔	86,42 €
WW10-80-15	107	150	94	137	4800	4800	178	290	290	0,42	-	92,38 €
WW10-80-20	107	200	94	187	4800	4800	178	410	410	0,50	-	102,11 €

**Depending on availability - Dimensions in mm*

WS16

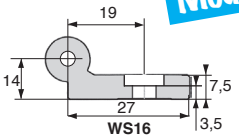
Size 16 - Ø16 shaft

- ***Material :***
  Hard anodised aluminium
- *Standard length : 1000mm*
- *Other lengths available (up to 4000 mm)*
- *For bearing* **WJUM16 (tome 3 p.229)**, **WJRM16 (tome 3 p.235)** *and bearing blocks* **WW16 (tome 3 p.230)**

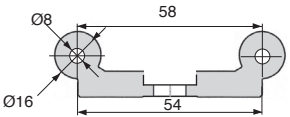




Modular



WS16



WS16-60

DISCOUNTS

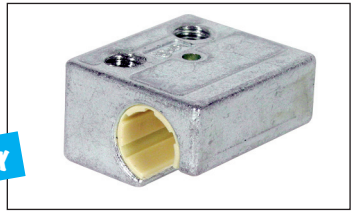
Qty	1+	5+	10+	15+	20+
Disc.	List	-10%	-15%	-20%	On request

Part number	Length L (mm)	Max. length L (mm)	C5 mini	C5 maxi	Iy (mm^4)	Iz (mm^4)	Wby (mm^3)	Wbz (mm^3)	Weight (kg/m)	Stock*	Price each 1 to 4
WS16	1000	4000	20	79,5	36000	12900	1800	940	0,98	✔	96,46 €
WS16-60	1000	4000	20	79,5	36760	26100	9900	1900	1,96	-	191,83 €

**Depending on availability - Dimensions in mm*

Size 16 - For loads of up to 2100N WJUM16

- Material:
  Housing: Zamak
  Liner: iglidur ®J200



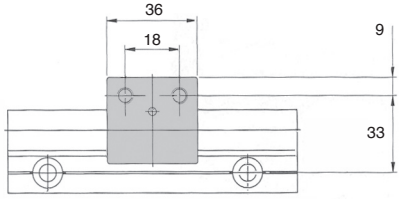
Advantages

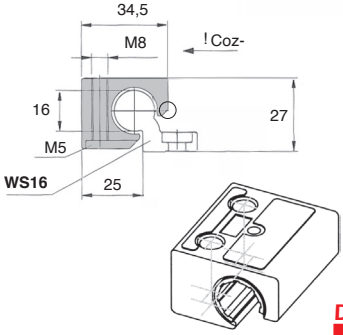
- Full design flexibility using **WS16** single rails and **WJUM01-16** bearing blocks

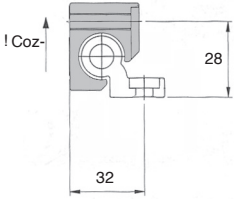
Modular

Accessories

- **WS16 (tome 3 p.228)** rail







DISCOUNTS

Qty	1+	5+	10+	15+	20+
Disc.	List	-10%	-15%	-20%	On request

Part number	Type	backlash	Max. static load (20°C) Weight (g)	Coy (N)	Coz+ (N)	Coz- (N)	Stock*	Price each 1 to 4
WJUM01-16	Fixed	0	100	2100	2100	400	✔	14,78 €
WJUM01-16-LL	Floating	±0,2	100	2100	2100	400	-	16,00 €

*Depending on availability - Dimensions in mm

DryLin®W slide assembly

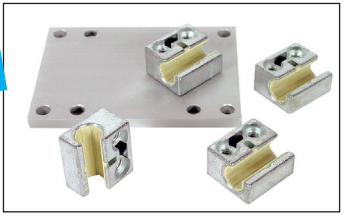
WW16 Size 16

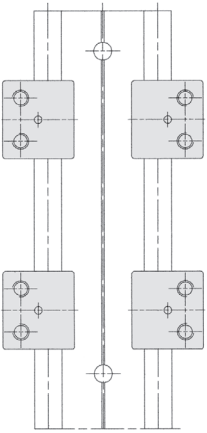
A **WW16** *slide assembly comprises:*
- *1 mounting assembly plate*
- *4 WJUM01-16 bearing block*

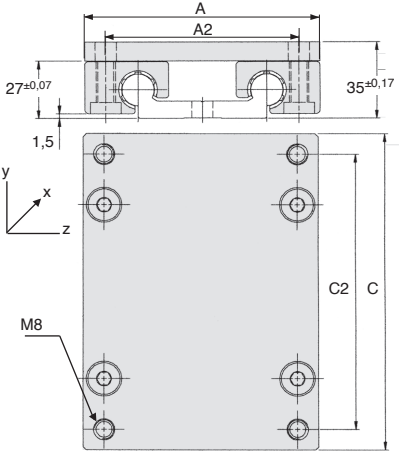
Advantage
- *Low profile design*

Modular

Accessories
- ***WS16-60 (tome 3 p.228)** rails*







DISCOUNTS

Qty	1+	5+	10+	15+	20+
Disc.	List	-10%	-15%	-20%	On request

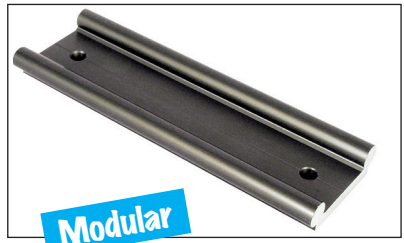
Part number	A	C	A2	C2	Max. static load (20°C) Coy (N)	Coz (N)	Mox (N)	Moy (Nm)	Moz (Nm)	Weight (kg)	Stock*	Price each 1 to 4
WW16-60-10	104	100	86	82	8400	8400	240	270	270	0,71	-	106,44 €
WW16-60-15	104	150	86	132	8400	8400	240	480	480	0,84	-	116,46 €
WW16-60-20	104	200	86	182	8400	8400	240	690	690	0,97	-	131,83 €

**Depending on availability - Dimensions in mm*

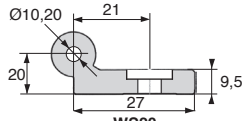
Size 20 - Ø20 shaft

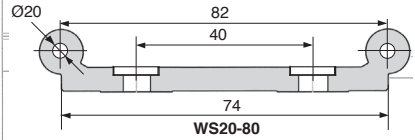
WS20

- Material: Hard anodised aluminium
- Standard length: 1000mm
- Other lengths available (up to 4000 mm)
- For bearing blocks **WJUM20 (tome 3 p.232)**, **WJRM20 (tome 3 p.235)** and slide assembly **WW20 (tome 3 p.233)**









DISCOUNTS

Qty	1+	5+	10+	15+	20+
Disc.	List	-10%	-15%	-20%	On request

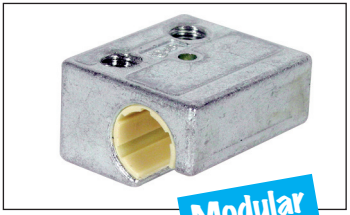
Part number	Length L (mm)	Max. length L (mm)	C5 mini	C5 maxi	Iy (mm^4)	Iz (mm^4)	Wby (mm^3)	Wbz (mm^3)	Weight (kg/m)	Stock*	Price each 1 to 4
WS20	1000	4000	20	79,5	9000	2850	1000	310	1,32	✔	111,89 €
WS20-80	1000	4000	20	79,5	108000	78700	21000	4000	3,30	✔	231,33 €

*Depending on availability - Dimensions in mm

DryLin®W bearing block

WJUM20 Size 20 - For loads of up to 3200N

- Material:
  Housing: Zamak
  Liner: iglidur ®J200

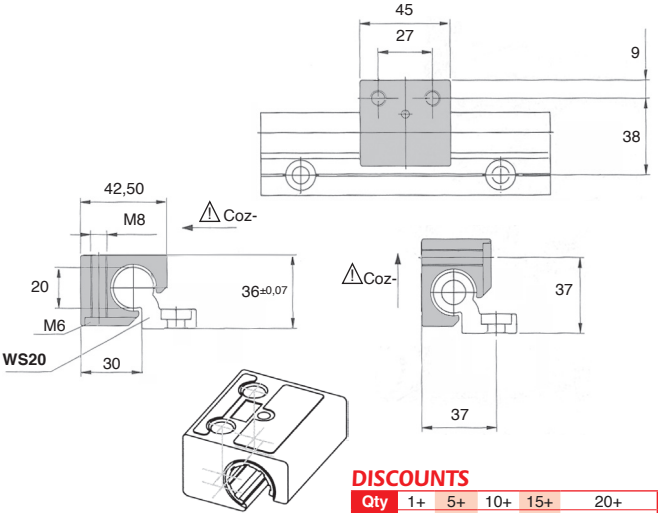


Advantage

- Full design flexibility using **WS20** single rails and **WJUM01-20** bearing blocks

Accessories

- **WS20** rails **(tome 3 p.231)**



DISCOUNTS

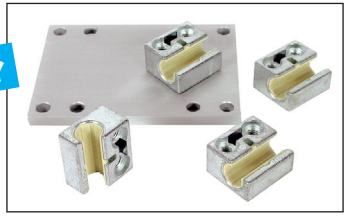
Qty	1+	5+	10+	15+	20+
Disc.	List	-10%	-15%	-20%	On request

Part number	Type	Backlash (mm)	Weight (g)	Coy (N)	Coz+ (N)	Coz- (N)	Stock*	Price each 1 to 4
WJUM01-20	Fixed	0	190	3200	3200	500	✔	15,66 €
WJUM01-20-LL	Floating	±0,25	190	3200	3200	500	✔	15,66 €

*Depending on availability - Dimensions in mm

A **WW20** *slide assembly comprises:*
- *1 mounting assembly plate*
- *4 WJUM01-20 bearing blocks*

Modular

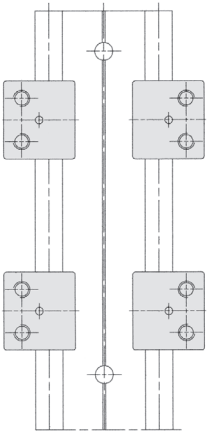


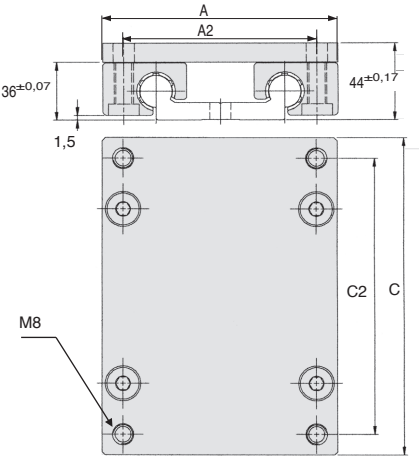
Advantages

- *Low profile design*

Accessories

- ***WS20-80** rails **(tome 3 p.231)***





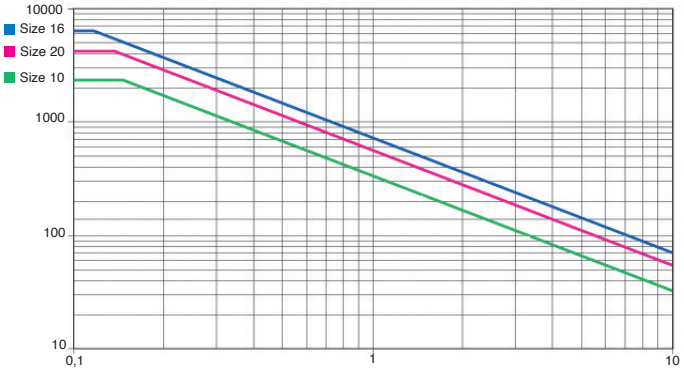
DISCOUNTS

Qty	1+	5+	10+	15+	20+
Disc.	List	-10%	-15%	-20%	On request

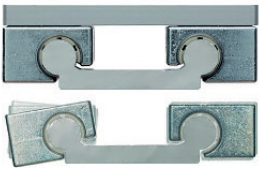
Part number	A	C	A2	C2	Max. static load (20°C) Coy (N)	Coz (N)	Mox (Nm)	Moy (Nm)	Moz (Nm)	Weight (kg)	Stock*	Price each 1 to 4
WW20-80-15	134	150	116	132	12800	12800	525	670	670	1,20	✔	113,61 €
WW20-80-20	134	200	116	182	12800	12800	525	990	990	1,30	-	152,91 €
WW20-80-25	134	250	116	232	12800	12800	525	1250	1250	1,50	-	129,78 €

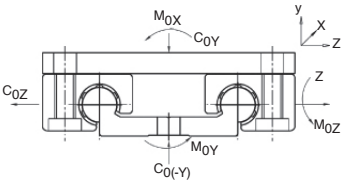
**Depending on availability - Dimensions in mm*

Preloading - slides



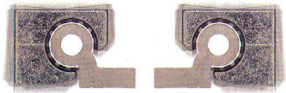
F/V diagram, Max Dynamic load capacity (System with 4 bearings)





Rails available	Size 10 (mm)	Size 16 (mm)	Size 20 (mm)
 Single round rail	•	•	•
 Double rail	40[2] • 80[2] •	60[2] •	80[2] •

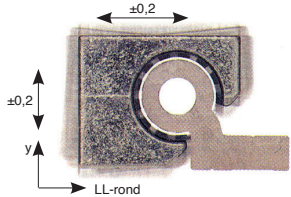
Design and assembly instructions



Bearings able to float in all axes (+/- 1mm) compensate for misalignment and parallelism errors

Design

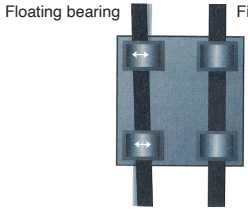
- **Floating bearings:**
- Facilitate assembly
- Only required where the rail or the system is welded
- Although DryLin ® W is a profile rail system, it is able to compensate angular rotation errors about the x-axis. An angular adjustment of ±7° is possible. This effectively eliminates the problems known to occur when fitting to sheet metal.



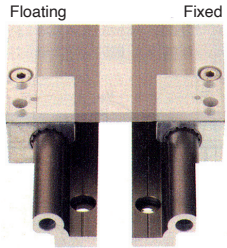
Floating bearings are available on request

Assembly

Floating bearings for linear guide systems



Automatic compensation of parallelism errors



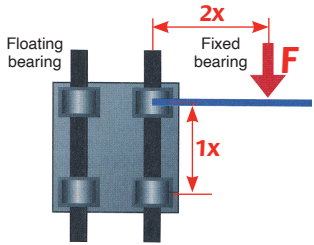
Assembly using rails

Eccentric Forces

When using linear plain bearings it is important to ensure that the acting forces follow the 2:1 Rule (see drawing). If either the load or the drive force (F) is greater than twice the bearing length (1x), then a binding or interrupted motion may occur. It is causing by rubbing. The further the bearing is distanced from the guide bearing, the greater the wear and required moving force.

info.

- If this guide is not followed, then the movement may become jerky or the system may jam.



Acceptable distance for applied loads

Our other products


T5-10ECO

T type timing pulley, Economy range - T5 aluminium


DIL

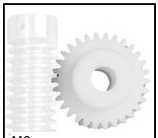
Lever operated locking bolt, lever clamp


GAL_42

Guide roller for plate chain return, Without ball bearing


QNJ

Single row cylindrical roller bearing, Single flange on inner ring


M0

Wormwheel, Machined plastic (delrin)


M0

Worm , Machined plastic (delrin)


CNA-CNG

Right angled mounting plate, Right angled mounting plate for clevis


SSDB

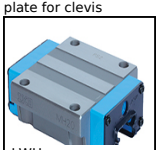
Stainless steel bevel gear, 2:1


PTA40ssEB

Articulated foot whit sheet metal base Ø40, 3000N


NSO

Housing for open linear bearing, Opened - long


LWH

High rigidity linear slide, Chariot - from 9320 N to 71300 N


PGR

Folding revolving handle for handwheel, Folding

Complementary products


WS10

Drylin® W rail, Rail


WW10

Drylin® W slide, slide assembly


WJRM

Drylin® W hybrid bearing block, Hybrid bearings