

NEW

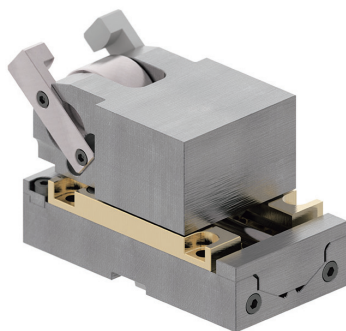
PSCXG [Overview]

Roller Cam Unit

For Pierce

Product Information

- Mount face widths 55, 80, 100, and 120 mm.
- Working angles from -20° ~ 50° in 5° increments.
- Gas spring type acc. to VDI 3003.
- Low maintenance by minimizing the number of parts.
- Suitable drivers available.
- Optional positive return follower.

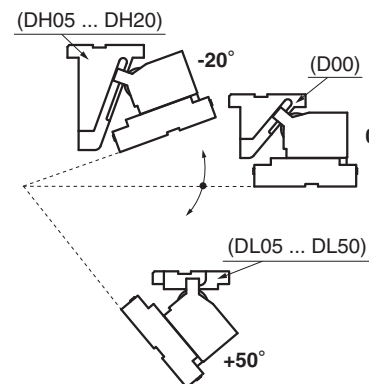


Mount face		Working Angle	Travel*1	Working Force kN 1,000,000 strokes
W	H			
55	55	-20° ~ 50° (5° increments)	35, (32)	32.0
80	70		40, (37)	65.0
100	65		50, (47)	85.0
120	75		50, (47)	140.0
			80, (77)	

*1 The max. usable travel is nominal travel -3mm

Option

- Driver Type (-DH20 ~ -D00 ~ -DL50)

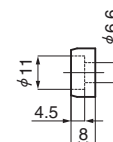
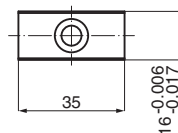


Working Angle	Option Code
-20	DH20
-15	DH15
-10	DH10
-05	DH05
00	D00
05	DL05
10	DL10
15	DL15
20	DL20
25	DL25
30	DL30
35	DL35
40	DL40
45	DL45
50	DL50

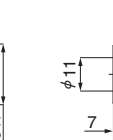
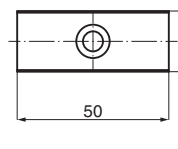
Option

- Key Specification (-K)

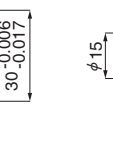
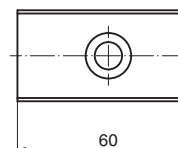
55 Width
(A M6 Bolt is included.)



80 Width
(A M6 Bolt is included.)



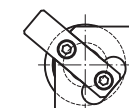
100,120 Width
(A M8 Bolt is included.)



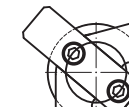
Option

- Positive Return Follower (-PR)

55 Width



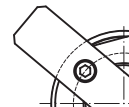
80 Width



100 Width

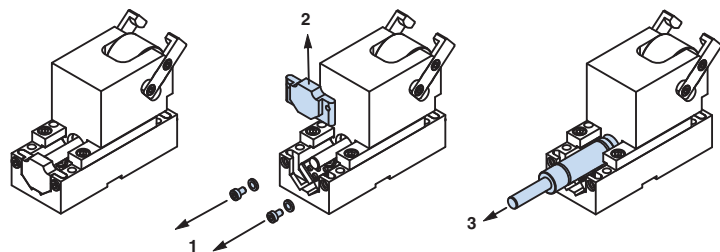


120 Width



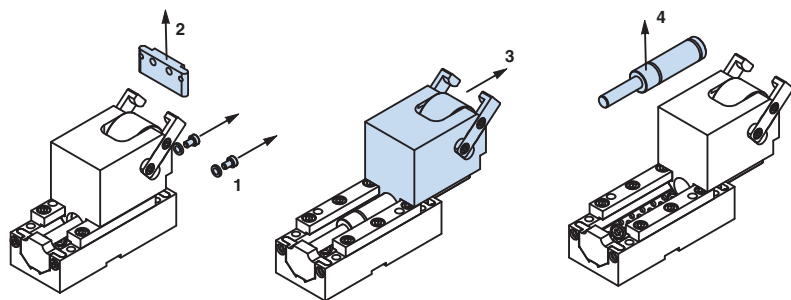
Product Information

■PSCXG55·80 Assembly Instructions



●Disassembly instructions of Gas Spring from the front

- 1) Remove Hexagon Socket Head Bolts.
- 2) Pull out Stopper Plate F.
- 3) Remove Gas Spring to the front.



●Disassembly

- 1) Remove Hexagon Socket Head Bolts.
- 2) Pull out Stopper Plate R.
- 3) Remove Cam Slider to the rear.
- 4) Remove Gas Spring.

●Assembly

Assembly is the reverse procedure of disassembly.

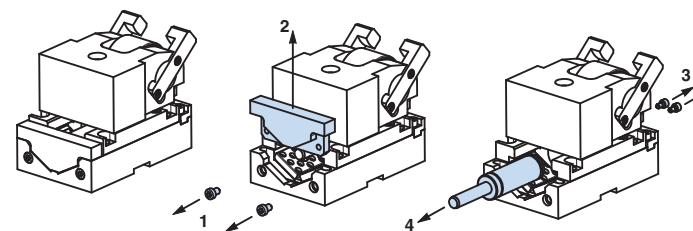
- Ensure that all parts are clean, particularly the sliding components to which a small amount of lubricant is applied and is then placed in position.
- Take care that the respective tolerances are observed when assembling Cam Slider and Cam Holder, which also should be identified by the same serial number.
- Make sure that all bolts are tightened to the recommended torque after assembly and disassembly.



Gas Spring

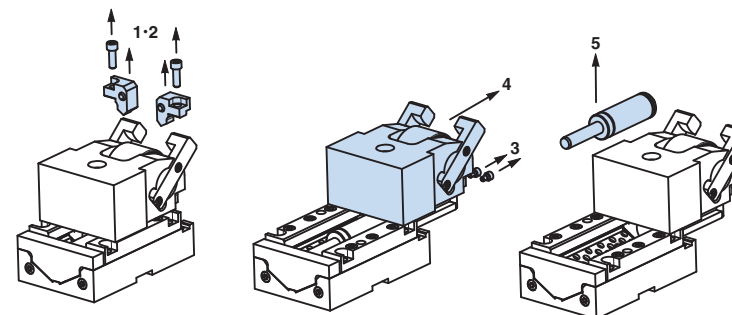
Please contact your local sales representative if you prefer to use a gas spring not specified in our catalog. For use and maintenance of gas spring, please contact the manufacturer directly.

■PSCXG100·120 Assembly Instructions



●Disassembly instructions of Gas Spring from the front

- 1) Remove Hexagon Socket Head Bolts.
- 2) Pull out Stopper Plate F.
- 3) Loosen Hexagon Socket Head Bolts of Gas Spring.
- 4) Remove Gas Spring to the front.



●Disassembly

- 1) Remove Hexagon Socket Head Bolts.
- 2) Pull out Stopper Plate R.
- 3) Loosen Hexagon Socket Head Bolts of Gas Spring.
- 4) Remove Cam Slider to the rear.
- 5) Remove Gas Spring.

●Assembly

Assembly is the reverse procedure of disassembly.

- Ensure that all parts are clean, particularly the sliding components to which a small amount of lubricant is applied and is then placed in position.
- Take care that the respective tolerances are observed when assembling Cam Slider and Cam Holder, which also should be identified by the same serial number.
- Make sure that all bolts are tightened to the recommended torque after assembly and disassembly.



Gas Spring

Please contact your local sales representative if you prefer to use a gas spring not specified in our catalog. For use and maintenance of gas spring, please contact the manufacturer directly.

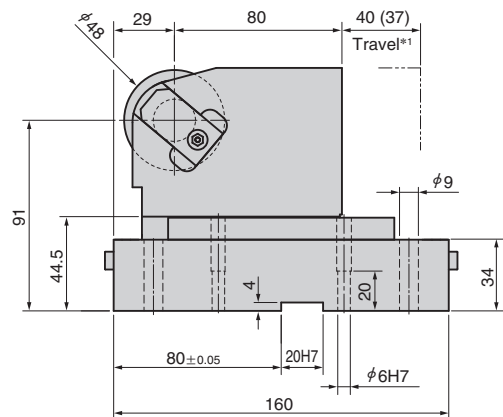
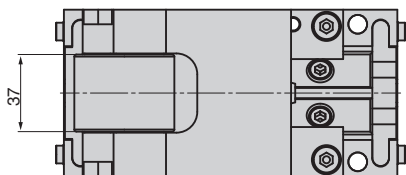
NEW

PSCXG Roller Cam Unit

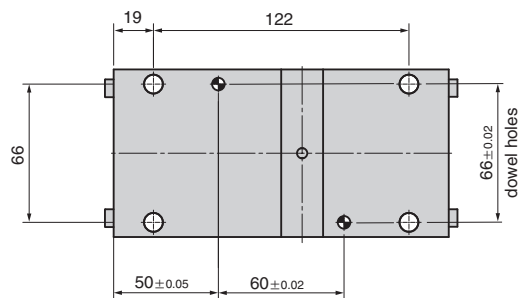
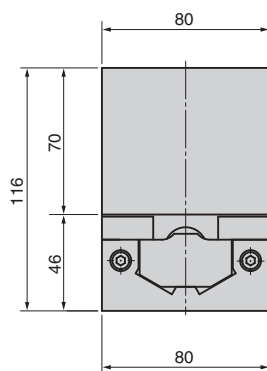
For Pierce

Die Mounted Cam Unit

PSCXG80-40



*1 The max. usable travel is nominal travel -3mm



Working Force kN	Spring Force kN	Return Force kN	Catalog No.	W	Travel S	Driver Type Working Angle	Spring Type PS
	Final Load						
65.0	1.79	1.8	PSCXG	80	40	DH20 ~ D00 ~ DL50 ND -20° ~ 50° (5° increments)	GK
	1.81						GD
	1.92						GSS
	1.79						GH
-	-	-	-	-	-	-	NGP

ND: Without Driver
GK: Gas Spring (KALLER) GD: Gas Spring (DADCO) GSS: Gas Spring (Special Springs) GH: Gas Spring (Hyson)
NGP: Without Gas Spring Parts for spring assembly are included.

Order	Catalog No.	W	S	Driver Type	PS	Option
	PSCXG	80	40	ND	GK	
	PSCXG	80	40	D00	GK	
	PSCXG	80	40	DH05	NGP	PR
	PSCXG	80	40	DL30	GSS	NF - K - PR

Option Code	Specification
NF	Nitrogen gas not charged.
K	Key attached.
PR	Positive Return Follower attached.

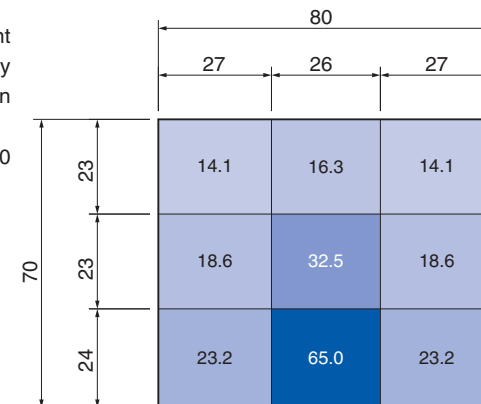
Spring Specification

No.	PS	Spring Model	Qty	Remark
12	GK	X170-050-13.5MPa	1	Gas Spring (KALLER)
	GD	U.0175.050-13.5MPa	1	Gas Spring (DADCO)
	GSS	RV170-050-C-13.5MPa	1	Gas Spring (Special Springs)
	GH	T3-170X50-13.5MPa	1	Gas Spring (Hyson)

Working Force Distribution Diagram

The working forces indicated in the mount face distribution diagram are reached by putting the tooling center of gravity within each area for the following pictures.

Working force (kN) allowed for up to 1,000,000 strokes.



Refer to page 1109 for Table of Components.

NEW

PSCXG Roller Cam Unit

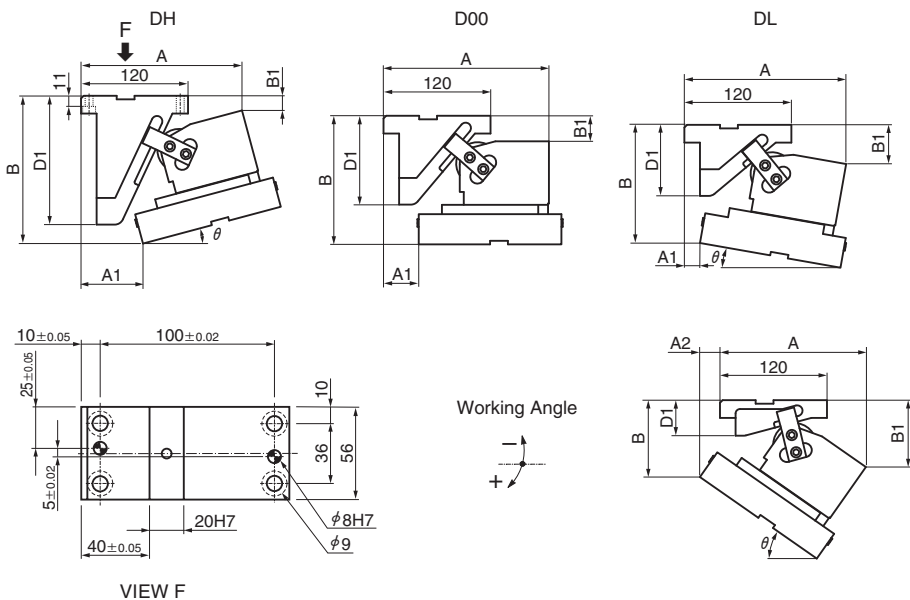
For Pierce

Die Mounted Cam Unit

Weight

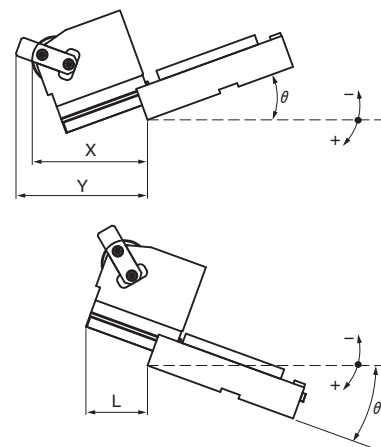
Total Weight kg	Cam Slider Weight kg
7.6	4.5

Driver Options



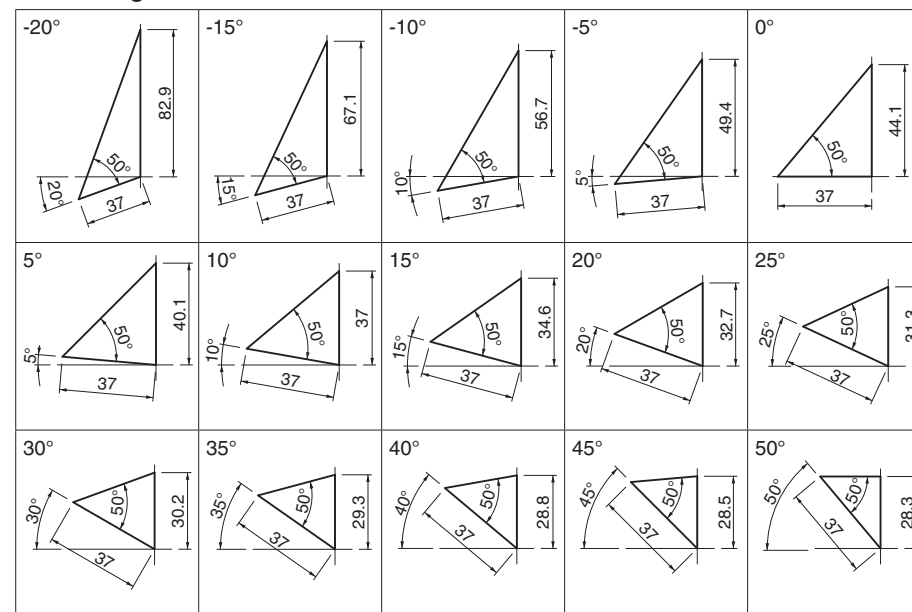
Working Angle θ	-20	-15	-10	-5	0	5	10	15	20	25	30	35	40	45	50
Driver Type	DH20	DH15	DH10	DH05	D00	DL05	DL10	DL15	DL20	DL25	DL30	DL35	DL40	DL45	DL50
D1	165	145	130	110	100	90	80	70	60	50	45	40	34	27	28
A	180.02	180.50	181.14	182.83	185.50	178.05	181.43	178.55	179.37	178.84	171.94	163.63	153.91	142.76	133.21
A1	82.5	69.5	57.5	47.5	39.5	22.5	17.5	7.5	2.5	—	—	—	—	—	—
A2	—	—	—	—	—	—	—	—	—	2.5	12.5	22.5	32.5	42.5	49.5
B	168.32	166.33	161.81	154.23	144.76	145.16	133.01	125.51	114.61	104.20	95.84	86.56	76.23	64.74	59.94
B1	9.38	16.50	22.22	25.94	28.76	42.33	44.13	51.24	55.54	60.77	68.38	75.28	81.22	85.96	97.21

Rear Removal Space



Working Angle θ	X	Y	L
-20	119	136	—
-15	113	129	—
-10	107	122	—
-05	100	113	—
00	82	94	—
05	74	84	—
10	—	74	70
15	—	—	67
20	—	—	64
25	—	—	60
30	—	—	56
35	—	—	51
40	—	—	46
45	—	—	41
50	—	—	35

Cam Diagram



Roller Cam Unit

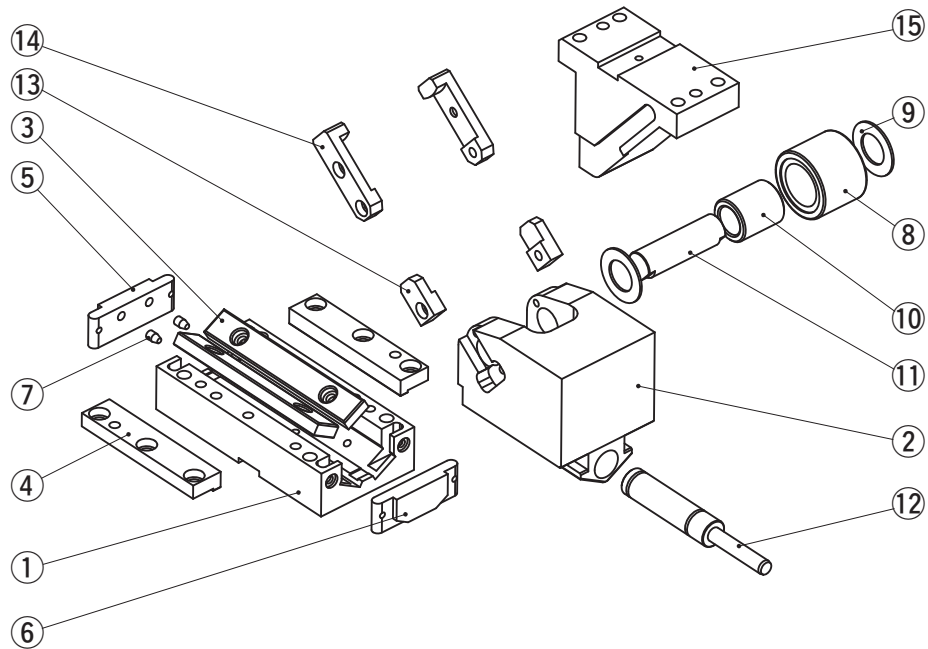
PSCXG
80

NEW

PSCXG [Table of Components]

Roller Cam Unit

For Pierce

Die Mounted Cam Unit**PSCXG80**

No.	Description	Qty	Material and Remark
1	Holder	1	Steel
2	Slider	1	Steel
3	Slide Plate	2	Bronze with graphite
4	Upper Plate	2	Bronze with graphite
5	Stopper Plate R	1	Steel
6	Stopper Plate F	1	Steel
7	Stopper	2	—
8	Roller	1	Steel
9	Washer, drystar	2	—
10	Bush	1	Bronze with graphite
11	Pin	1	Steel
12	Gas Spring	1	Refer to the Spring Specification.
13	Stop Block	2	Steel
14	Positive Return	2	Steel, optional
15	Driver	1	Steel, optional

Bolts, nuts, dowels, and washers for assembly are not indicated.