



# Roller Cam Unit PSCXG

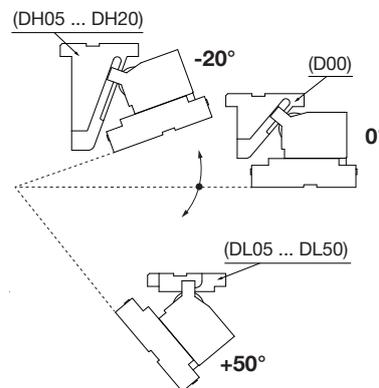
Rev.: 12/2022

### Properties

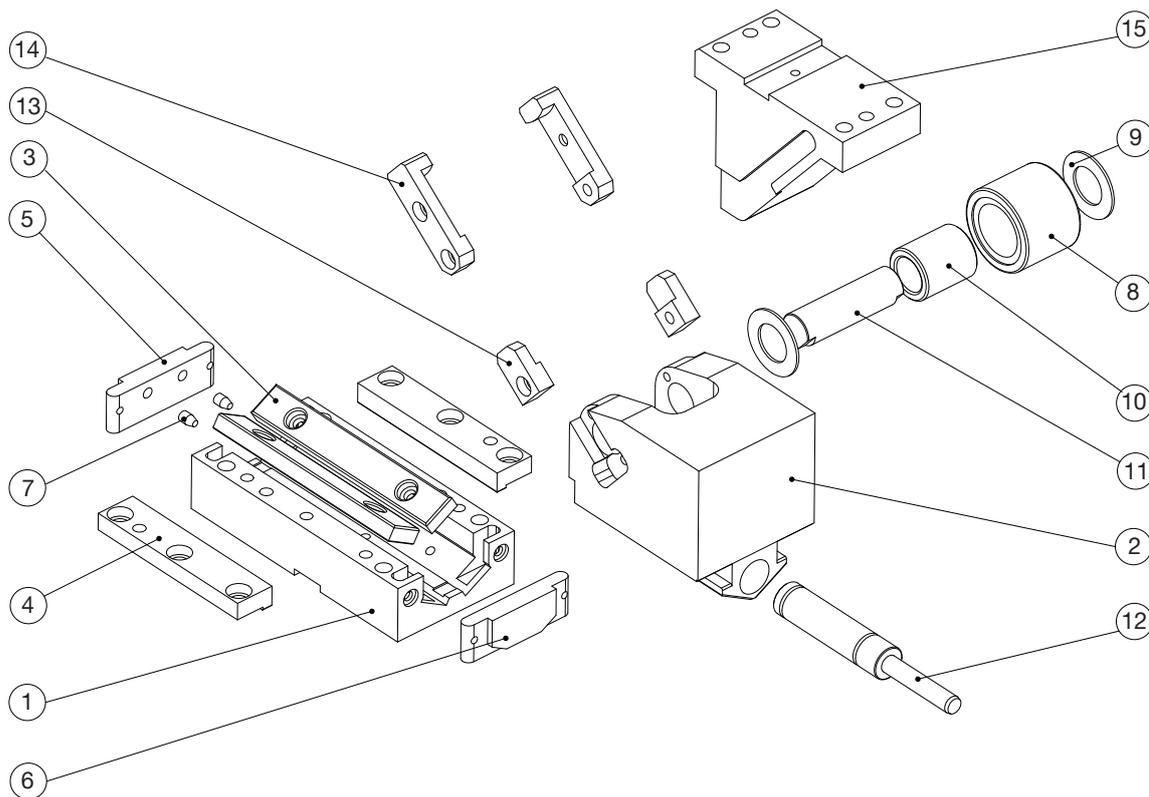
- Compact die-mounted roller cams with SANKYO quality
- Gas spring type acc. to VDI 3003
- Widths of 55 / 80 / 100 / 120 mm available\*
- More flexibility with working angles from -20° to +50°
- Low maintenance by minimizing the number of parts
- Suitable drivers available
- One million strokes tolerable
- Optional positive return follower
- Positioning in the die with key (option „K“) or with dowel pin holes (prepared)
- Best alternative solution to SANKYO SKCA die-mounted cam unit

\* 55 / 100 / 120 mm available from 2nd half of 2023

### Driver type



### Parts list



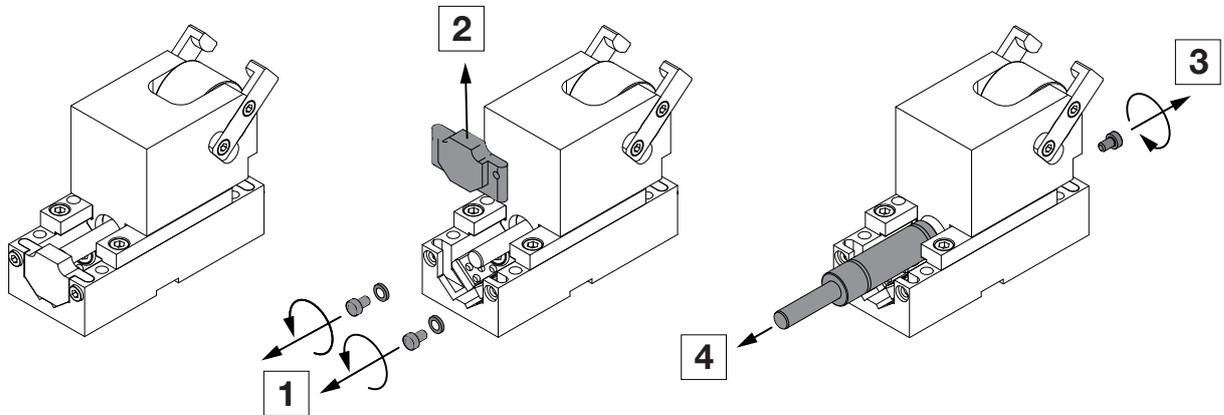
No.	Description	Material	Qty.
1	Holder	Steel	1
2	Slider	Steel	1
3	Slide Plate	Bronze with graphite	2
4	Upper Plate	Bronze with graphite	2
5	Stopper Plate - R	Steel	1 (2*)
6	Stopper Plate - F	Steel	1
7	Stopper	Urethane	2
8	Roller	Steel	1

No.	Description	Material	Qty.
9	Washer, drystar		2
10	Bush	Bronze with graphite	1
11	Pin	Steel	1
12	Gas Spring		1
13	Stop Block	Steel	2
14	Positive Return	Steel, optional	2
15	Driver	Steel, optional	1

\*2: 2 split stopper plates for 100 and 120m wide

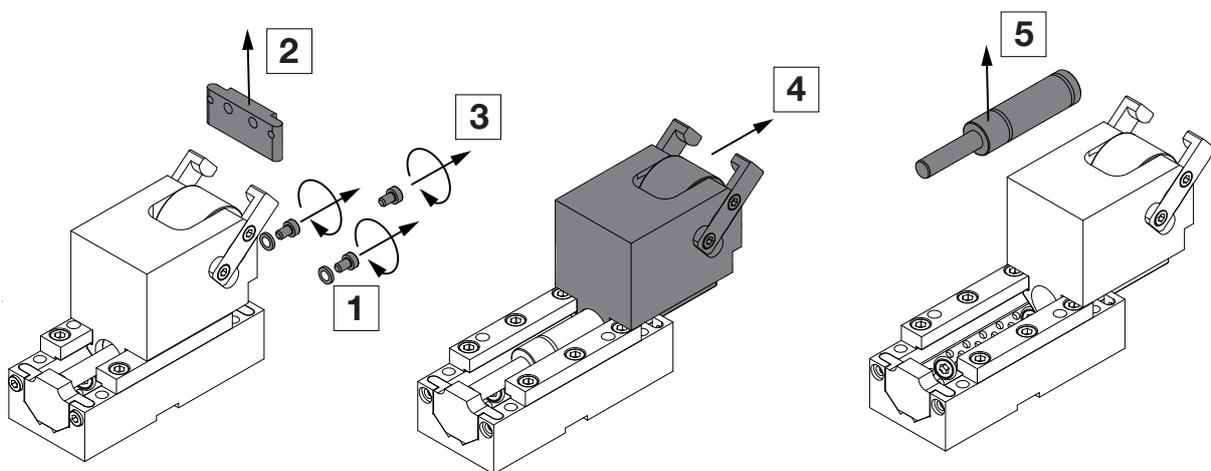
## Dissassembly instructions of gas spring

Method 1 (from the front)



1. Loosen the two fixing bolts
2. Remove the „Stopper Plate F“
3. Loosen the fixing bolts of the gas spring (size 55: without bolt, size 80, 100: one bolt, size 120: two bolts)
4. Remove the gas spring to the front

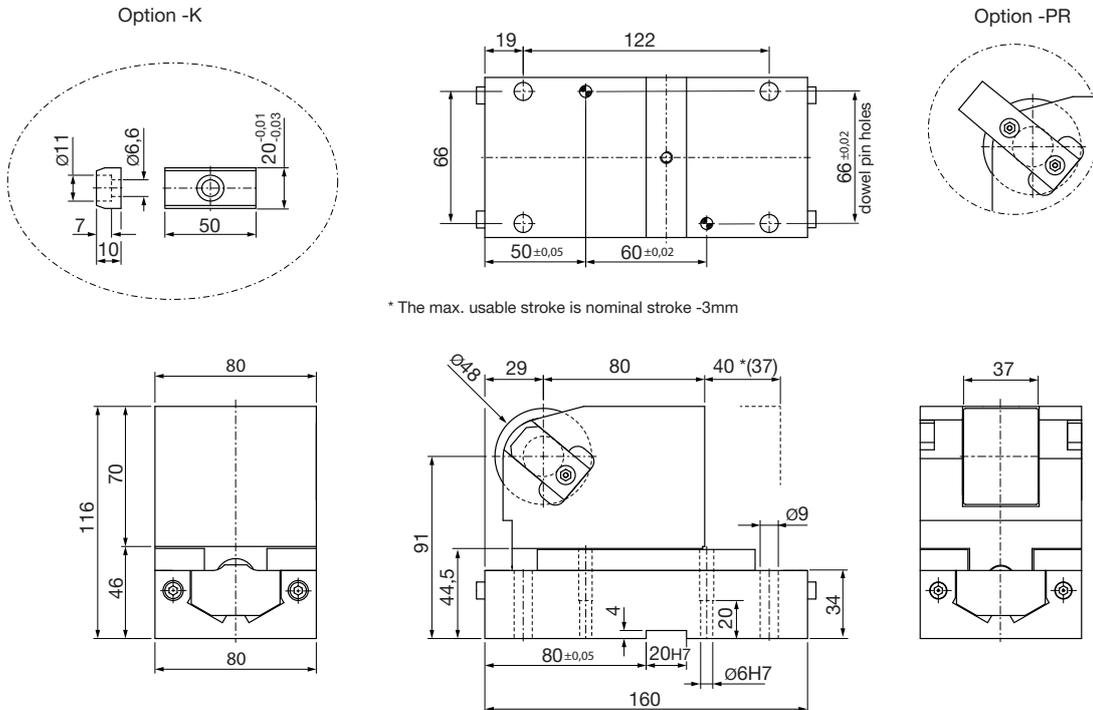
Method 2 (from the rear)



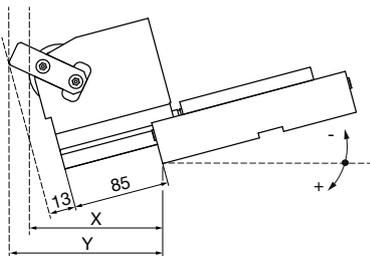
1. Loosen the two fixing bolts
2. Remove the „Stopper Plate R“ (size 100, 120: split plates)
3. Loosen the fixing bolts of the gas spring (size 55: without bolt, size 80, 100: one bolt, size 120: two bolts)
4. Move the cam slider to the rear (until the gas spring is removable)
5. Remove the gas spring

Working force	Spring force final load	Total weight	Slider weight	Travel
65 kN	3010 N	7,8 kg	3,5 kg	40mm (*37mm)

## Dimensions



## Rear removal space



Working angle driver DH	-20	-15	-10	-5
X	120	115	108	101
Y	137	131	123	115

Working angle driver D	0
X	93
Y	106

Working angle driver DL	5	10	15	20	25	30	35	40	45	50
X	84	81	78	74	70	65	60	55	48	42
Y	96	85	74	62	50	37	25	11	2	-

## Options

Option code	Specification
-K	Key attached
-PR	Positive Return Follower

Option code	Gas spring type
-GK	Kaller
-GD	Dadco
-GSS	Special Springs
-GH	Hyson

Option code	Other
-NGP	without Gas Spring (mounting bolts included)
-NF	Nitrogen gas not filled

## Working force matrix

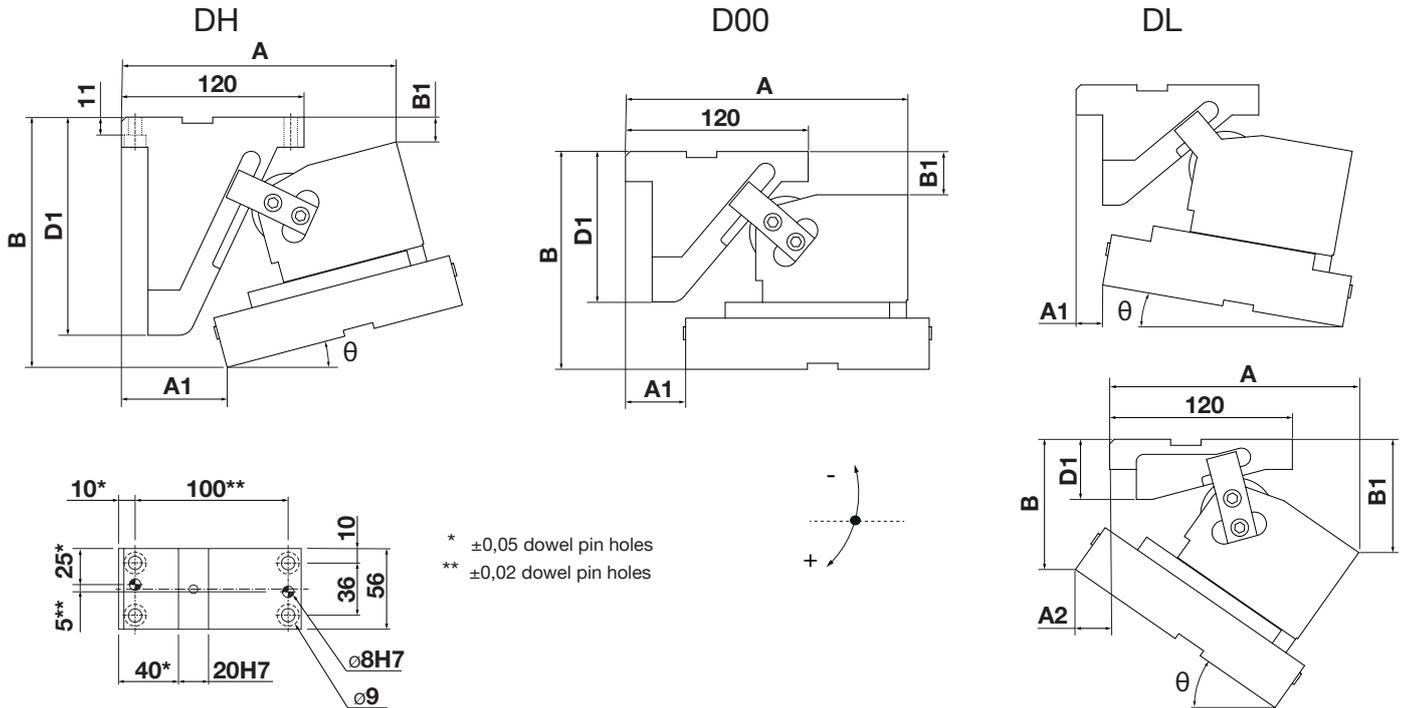
10 kN	18 kN	10 kN	23,3
13 kN	33 kN	13 kN	
18 kN	65 kN	18 kN	
26,6	26,6	26,6	

## Order example

Catalog No.	Width	Stroke	Driver type	Spring	Option
PSCXG	80	- 40	- DH10	- GK	- PR-K

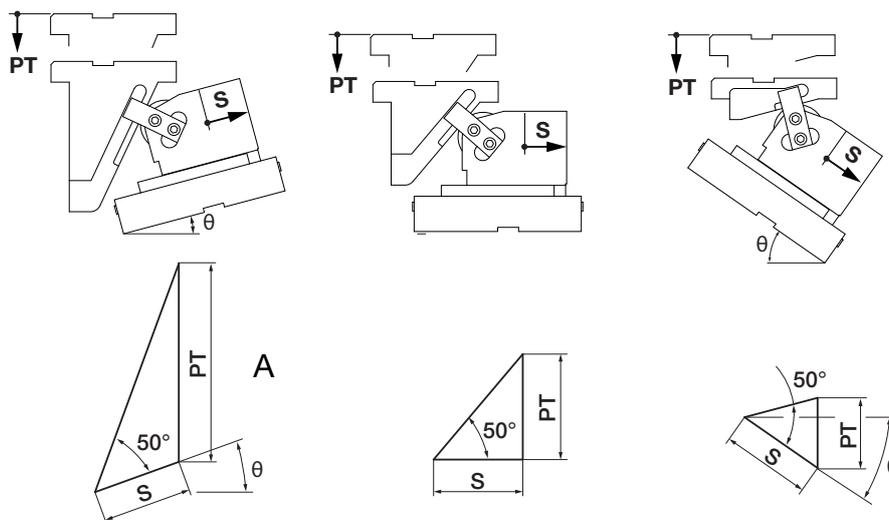
→ ND = without driver

### Driver options



Working angle	-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	180,5	181,14	182,83	185,5	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	168,3	166,3	161,8	154,2	144,8	145,2	133,0	125,5	114,6	104,2	95,8	86,6	76,2	64,7	59,9
B1	9,38	16,5	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

### Cam diagram



PT = press travel, S = stroke,  $\theta$  = working angle

$\theta$	-20	-15	-10	-5	0	5	10	15	20	25	30	35	40	45	50
S	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
PT	82,86	67,06	56,58	49,55	44,09	40,09	37,00	34,60	32,73	31,28	30,16	29,34	28,78	28,45	28,00

