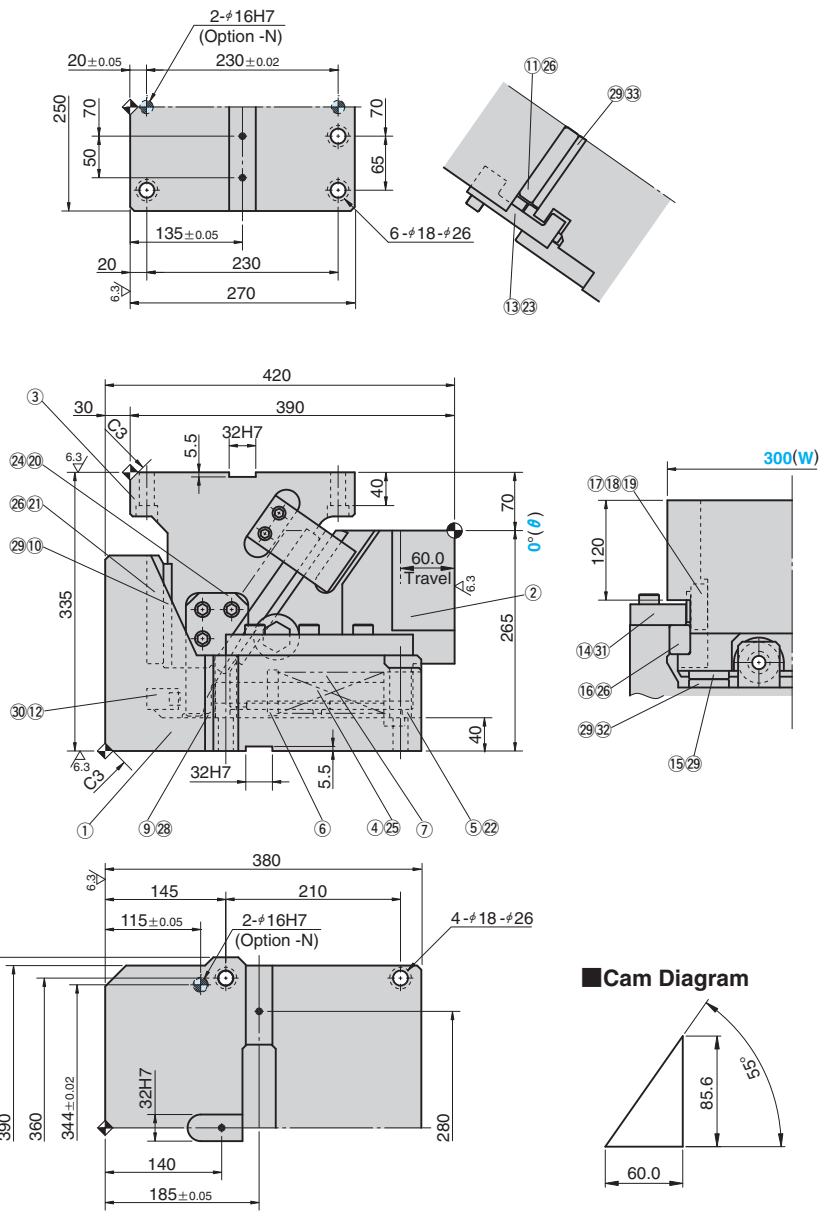
Die Mounted Cam Unit

FOR PIERCE

Addition CAD FILE

KGSP300 – 00



■Cam Diagram

Travel S	Working Force kN(tonf)	Spring Force N(kgf)		Slider Weight kg	Total Weight kg	Catalog No.	(W)	(θ)
		Initial Load	Final Load					
60.0	294.0 (30.0)	1577.6 (160.6)	7493.6 (763.0)	66.9	243.0	KGSP	300	00

Order

Catalog No.	(W)	–	(θ)
KGSP	300	–	00

Option

Option Code	Specification
K	Metric dedicated key is attached for both cam holder and driver. (It is not assembled to the main unit.)
KA	Metric dedicated key is attached for both cam holder and driver. (It is not assembled to the main unit.)
N	φ16H7 dowel pin holes for the cam holder and cam driver are additionally drilled.

For detailed specification of the K and KA keys, refer to page 1666.

Refer to page 552 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finish hole) for retainer.

Order KGSP300 – 00 – KA

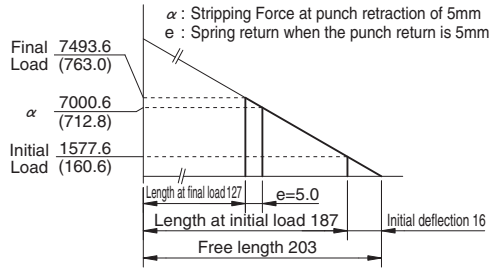
■Table of Components

No.	Description	Qty	Material and Remark
①	Cam Holder	1	FC250
②	Cam Slider	1	FC250
③	Cam Driver	1	FC250
④	Spring Guide Pin	2	S45C(1045)
⑤	Spring Guide Block	2	SS400(1020)
⑥	Washer	2	FC250
⑦	Coil Spring	2	TJL50-203
⑨	Bracket	2	SS400(1020)
⑩	Heel Plate	1	Bronze with Graphite(SO#50SP2)
⑪	Driver Plate	2	Bronze with Graphite(SO#50SP2)
⑫	Stopper	2	Urethane/SS400
⑬	Positive Return Follower	2	S45C(1045)
⑭	Upper Plate	2	S45C(1045)
⑮	Lower Plate	4	Bronze with Graphite(SO#50SP2)
⑯	Slide Plate	2	Bronze with Graphite(SO#50SP2)
⑰	Roller	2	S45C(1045)
⑱	Bushing	2	Bronze with Graphite(SO#50SP2)
⑲	Shaft	2	S45C(1045)
⑳	Roller Cam	2	S45C(1045)
㉑	Back Up Plate	1	S45C(1045)
㉜	Lower Slide Plate	4	S45C(1045)
㉝	Wear Plate	2	S45C(1045)

■Spring Diagram

(Stripping Force at punch retraction of 5mm)

- Spring used TJL50-203(2 pieces)
- Spring constant 49.3N/mm(5.02kgf/mm)



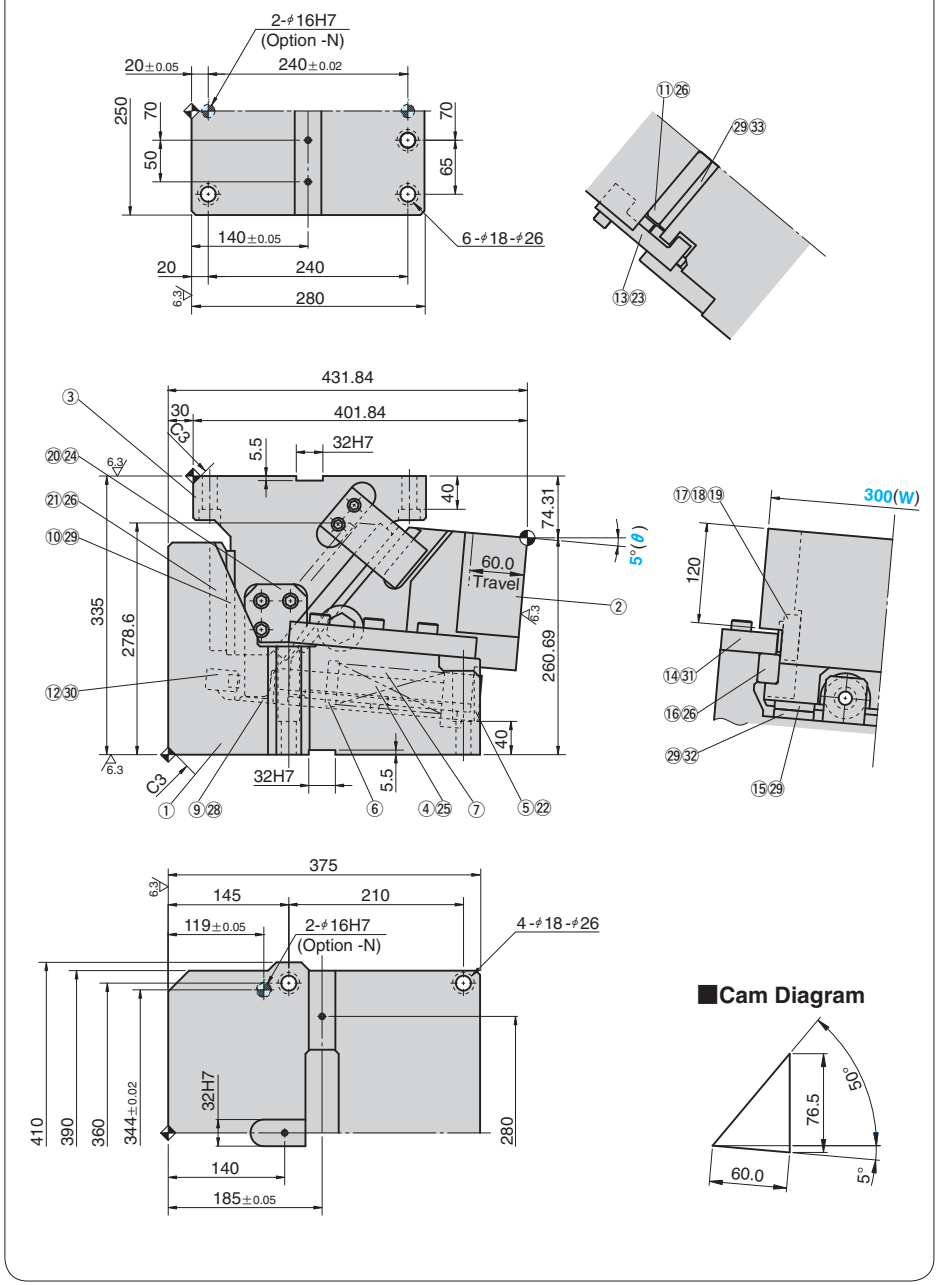
⚠ Bolts and dowel pins for assembly are not indicated. Part numbers are shown on the drawing.

Die Mounted Cam Unit

FOR PIERCE

Addition CAD FILE

KGSP300 – 05



Travel S	Working Force kN(tonf)	Spring Force N(kgf)		Slider Weight kg	Total Weight kg	Catalog No.	(W)	(θ)
		Initial Load	Final Load					
60.0	294.0 (30.0)	1577.6 (160.6)	7493.6 (763.0)	66.9	250.0	KGSP	300	05

Order

Catalog No.	(W)	–	(θ)
KGSP	300	–	05

Option

Option Code	Specification
K	Metric dedicated key is attached for both cam holder and driver. (It is not assembled to the main unit.)
KA	Metric dedicated key is attached for both cam holder and driver. (It is not assembled to the main unit.)
N	φ16H7 dowel pin holes for the cam holder and cam driver are additionally drilled.

For detailed specification of the K and KA keys, refer to page 1666.

Refer to page 552 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finish hole) for retainer.

Order **KGSP300 – 05 – 60 – KA**

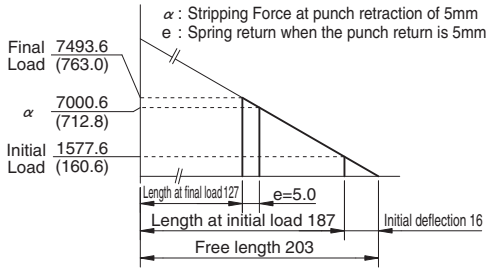
■Table of Components

No.	Description	Qty	Material and Remark
①	Cam Holder	1	FC250
②	Cam Slider	1	FC250
③	Cam Driver	1	FC250
④	Spring Guide Pin	2	S45C(1045)
⑤	Spring Guide Block	2	SS400(1020)
⑥	Washer	2	FC250
⑦	Coil Spring	2	TJL50-203
⑨	Bracket	2	SS400(1020)
⑩	Heel Plate	1	Bronze with Graphite(SO#50SP2)
⑪	Driver Plate	2	Bronze with Graphite(SO#50SP2)
⑫	Stopper	2	Urethane/SS400
⑬	Positive Return Follower	2	S45C(1045)
⑭	Upper Plate	2	S45C(1045)
⑮	Lower Plate	4	Bronze with Graphite(SO#50SP2)
⑯	Slide Plate	2	Bronze with Graphite(SO#50SP2)
⑰	Roller	2	S45C(1045)
⑱	Bushing	2	Bronze with Graphite(SO#50SP2)
⑲	Shaft	2	S45C(1045)
⑳	Roller Cam	2	S45C(1045)
㉑	Back Up Plate	1	S45C(1045)
㉜	Lower Slide Plate	4	S45C(1045)
㉝	Wear Plate	2	S45C(1045)

■Spring Diagram

(Stripping Force at punch retraction of 5mm)

- Spring used TJL50-203(2 pieces)
- Spring constant 49.3N/mm(5.02kgf/mm)



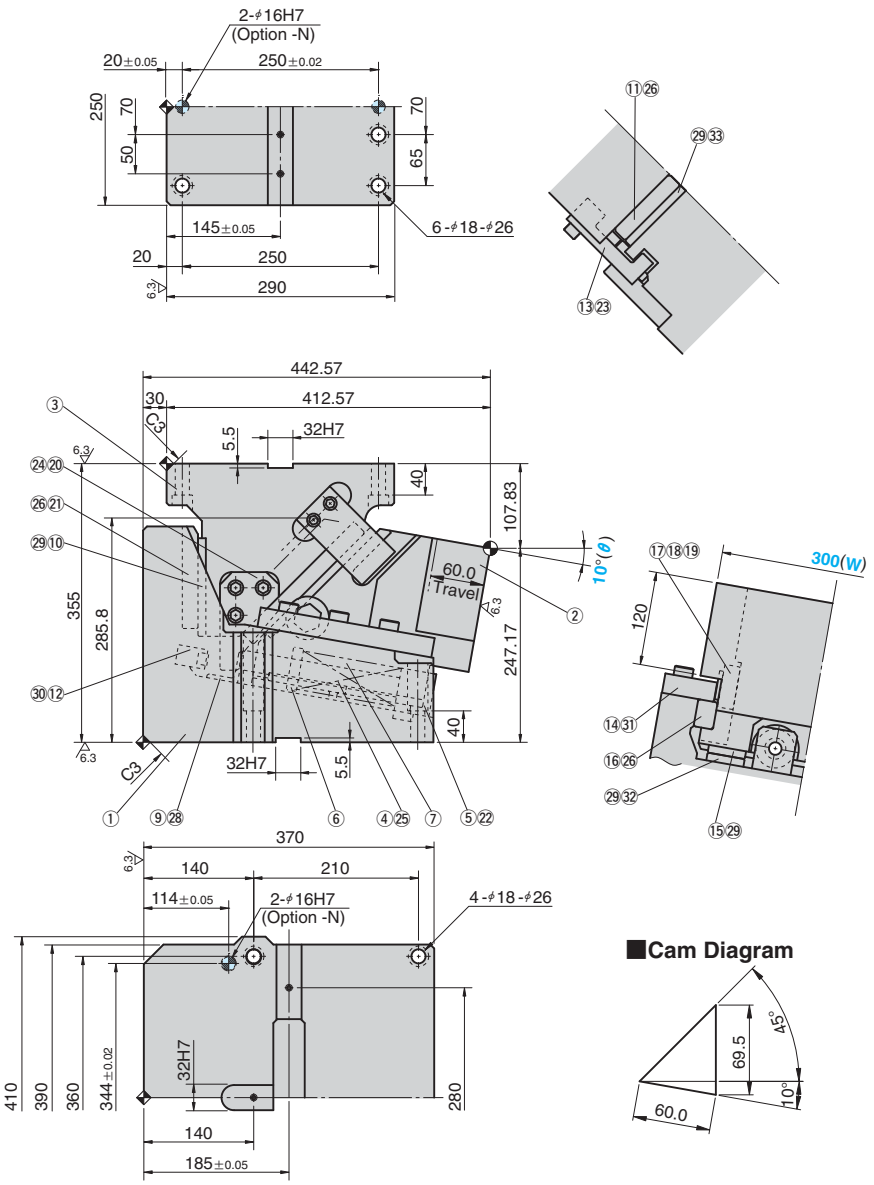
⚠ Bolts and dowel pins for assembly are not indicated. Part numbers are shown on the drawing.

Die Mounted Cam Unit

FOR PIERCE

Addition CAD FILE

KGSP300 – 10



Travel S	Working Force kN(tonf)	Spring Force N(kgf)		Slider Weight kg	Total Weight kg	Catalog No.	(W)	(θ)
		Initial Load	Final Load					
60.0	294.0 (30.0)	1577.6 (160.6)	7493.6 (763.0)	66.9	261.0	KGSP	300	10

Order

Catalog No.	(W)	–	(θ)
KGSP	300	–	10

Option

Option Code	Specification
K	Metric dedicated key is attached for both cam holder and driver. (It is not assembled to the main unit.)
KA	Metric dedicated key is attached for both cam holder and driver. (It is not assembled to the main unit.)
N	φ16H7 dowel pin holes for the cam holder and cam driver are additionally drilled.

Order KGSP300 – 10 – KA

For detailed specification of the K and KA keys, refer to page 1666.

Refer to page 552 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finish hole) for retainer.

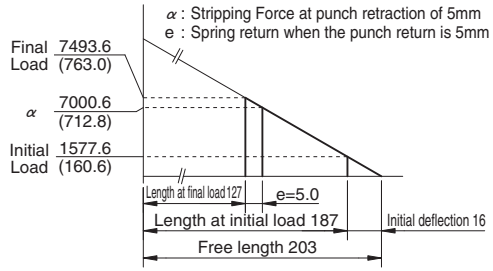
■Table of Components

No.	Description	Qty	Material and Remark
①	Cam Holder	1	FC250
②	Cam Slider	1	FC250
③	Cam Driver	1	FC250
④	Spring Guide Pin	2	S45C(1045)
⑤	Spring Guide Block	2	SS400(1020)
⑥	Washer	2	FC250
⑦	Coil Spring	2	TJL50-203
⑨	Bracket	2	SS400(1020)
⑩	Heel Plate	1	Bronze with Graphite(SO#50SP2)
⑪	Driver Plate	2	Bronze with Graphite(SO#50SP2)
⑫	Stopper	2	Urethane/SS400
⑬	Positive Return Follower	2	S45C(1045)
⑭	Upper Plate	2	S45C(1045)
⑮	Lower Plate	4	Bronze with Graphite(SO#50SP2)
⑯	Slide Plate	2	Bronze with Graphite(SO#50SP2)
⑰	Roller	2	S45C(1045)
⑱	Bushing	2	Bronze with Graphite(SO#50SP2)
⑲	Shaft	2	S45C(1045)
⑳	Roller Cam	2	S45C(1045)
㉑	Back Up Plate	1	S45C(1045)
㉜	Lower Slide Plate	4	S45C(1045)
㉝	Wear Plate	2	S45C(1045)

■Spring Diagram

(Stripping Force at punch retraction of 5mm)

- Spring used TJL50-203(2 pieces)
- Spring constant 49.3N/mm(5.02kgf/mm)



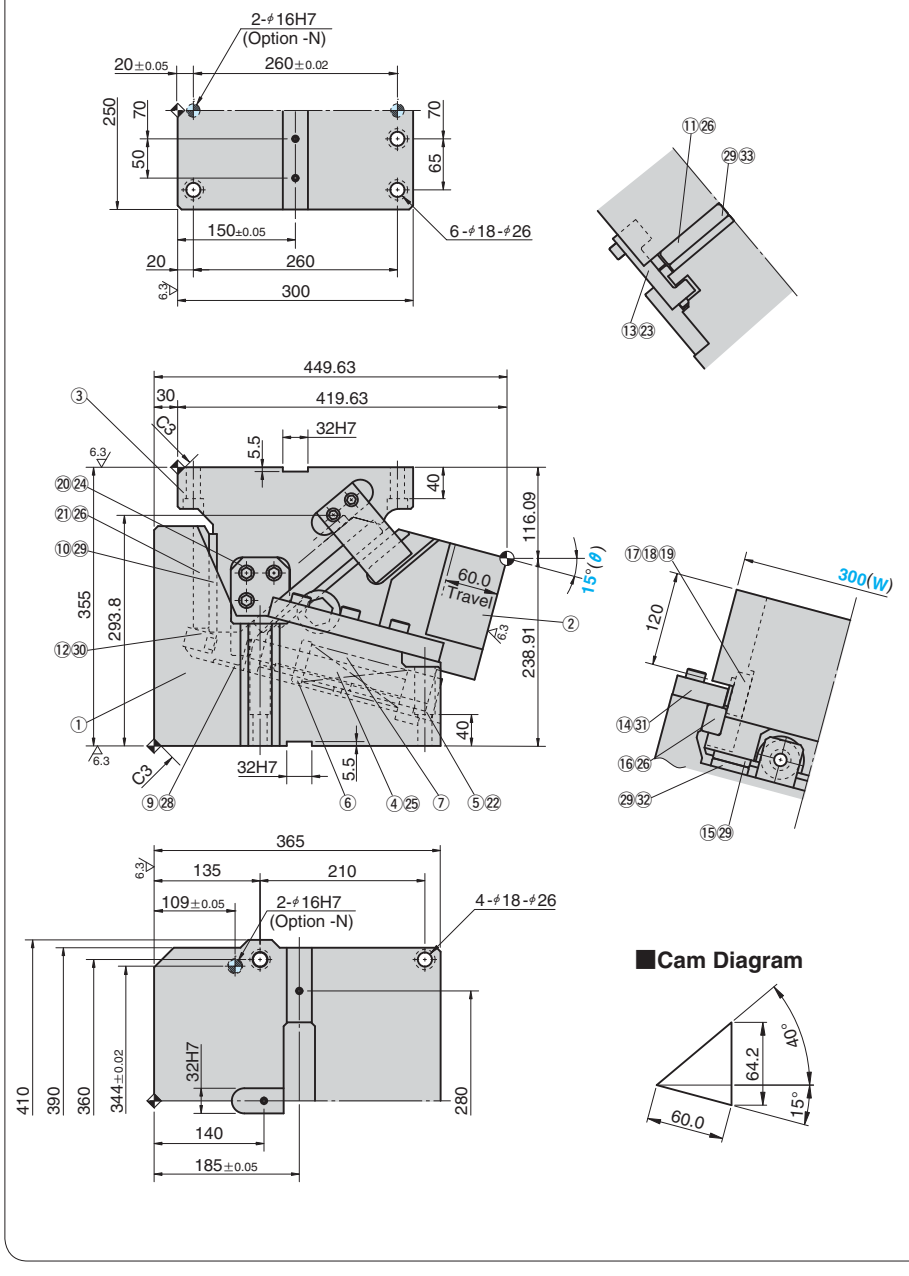
⚠ Bolts and dowel pins for assembly are not indicated. Part numbers are shown on the drawing.

Die Mounted Cam Unit

FOR PIERCE

Addition CAD FILE

KGSP300 – 15



■Cam Diagram

Travel S	Working Force kN(tonf)	Spring Force N(kgf) Initial Load	Spring Force N(kgf) Final Load	Slider Weight kg	Total Weight kg	Catalog No.	(W)	(θ)
60.0	294.0 (30.0)	1577.6 (160.6)	7493.6 (763.0)	66.9	263.0	KGSP	300	15

Order

Catalog No.	(W)	–	(θ)
KGSP	300	–	15

Option

Option Code	Specification
K	Metric dedicated key is attached for both cam holder and driver. (It is not assembled to the main unit.)
KA	Metric dedicated key is attached for both cam holder and driver. (It is not assembled to the main unit.)
N	φ16H7 dowel pin holes for the cam holder and cam driver are additionally drilled.

For detailed specification of the K and KA keys, refer to page 1666.

Refer to page 552 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finish hole) for retainer.

Order KGSP300 – 15 – KA

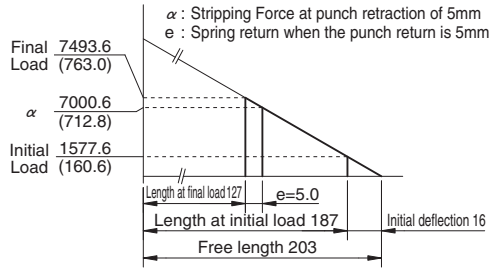
■Table of Components

No.	Description	Qty	Material and Remark
①	Cam Holder	1	FC250
②	Cam Slider	1	FC250
③	Cam Driver	1	FC250
④	Spring Guide Pin	2	S45C(1045)
⑤	Spring Guide Block	2	SS400(1020)
⑥	Washer	2	FC250
⑦	Coil Spring	2	TJL50-203
⑨	Bracket	2	SS400(1020)
⑩	Heel Plate	1	Bronze with Graphite(SO#50SP2)
⑪	Driver Plate	2	Bronze with Graphite(SO#50SP2)
⑫	Stopper	2	Urethane/SS400
⑬	Positive Return Follower	2	S45C(1045)
⑭	Upper Plate	2	S45C(1045)
⑮	Lower Plate	4	Bronze with Graphite(SO#50SP2)
⑯	Slide Plate	2	Bronze with Graphite(SO#50SP2)
⑰	Roller	2	S45C(1045)
⑱	Bushing	2	Bronze with Graphite(SO#50SP2)
⑲	Shaft	2	S45C(1045)
⑳	Roller Cam	2	S45C(1045)
㉑	Back Up Plate	1	S45C(1045)
㉜	Lower Slide Plate	4	S45C(1045)
㉝	Wear Plate	2	S45C(1045)

■Spring Diagram

(Stripping Force at punch retraction of 5mm)

- Spring used TJL50-203(2 pieces)
- Spring constant 49.3N/mm(5.02kgf/mm)



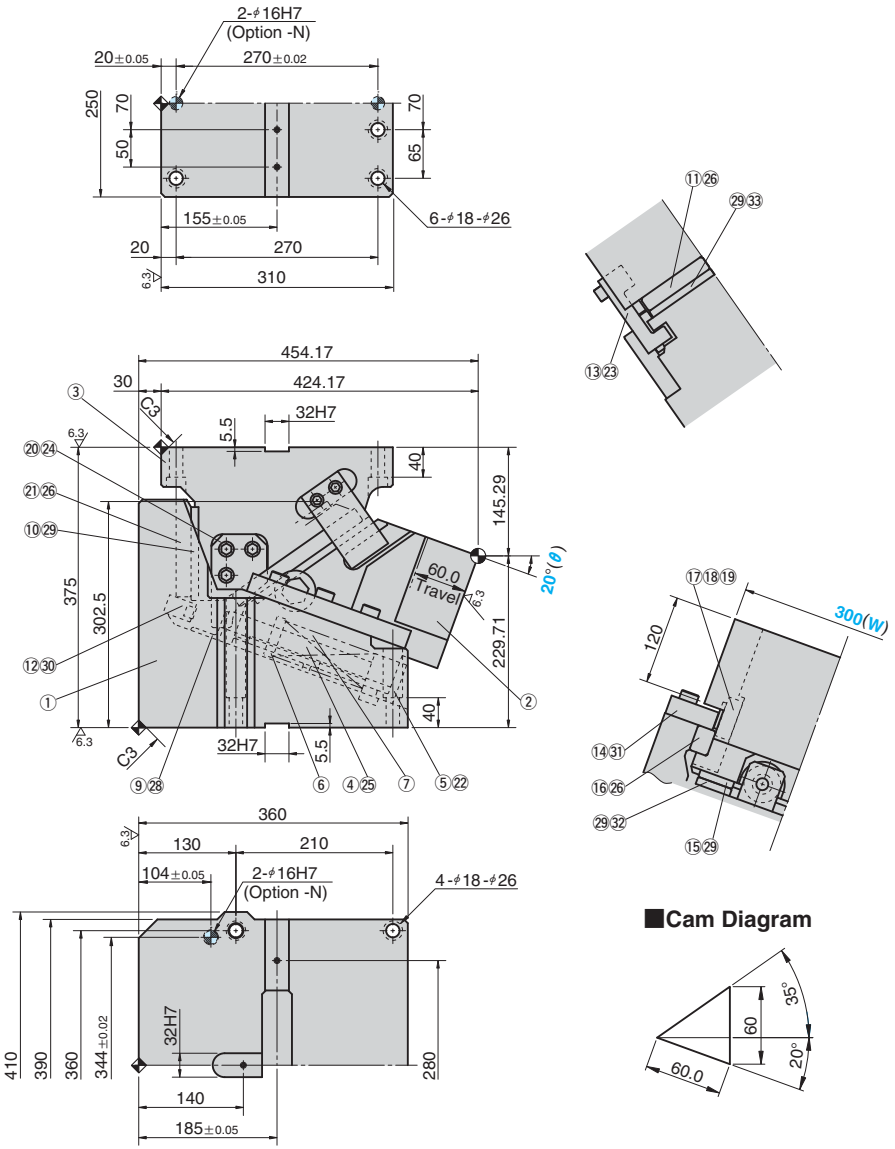
⚠ Bolts and dowel pins for assembly are not indicated. Part numbers are shown on the drawing.

Die Mounted Cam Unit

FOR PIERCE

Addition CAD FILE

KGSP300 – 20



■Cam Diagram

Travel S	Working Force kN(tonf)	Spring Force N(kgf)		Slider Weight kg	Total Weight kg	Catalog No.	(W)	(θ)
		Initial Load	Final Load					
60.0	294.0 (30.0)	1577.6 (160.6)	7493.6 (763.0)	66.9	275.0	KGSP	300	20

Order

Catalog No.	(W)	–	(θ)
KGSP	300	–	20

Option

Option Code	Specification
K	Metric dedicated key is attached for both cam holder and driver. (It is not assembled to the main unit.)
KA	Metric dedicated key is attached for both cam holder and driver. (It is not assembled to the main unit.)
N	φ16H7 dowel pin holes for the cam holder and cam driver are additionally drilled.

Order KGSP300 – 20 – KA

For detailed specification of the K and KA keys, refer to page 1666.

Refer to page 552 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finish hole) for retainer.

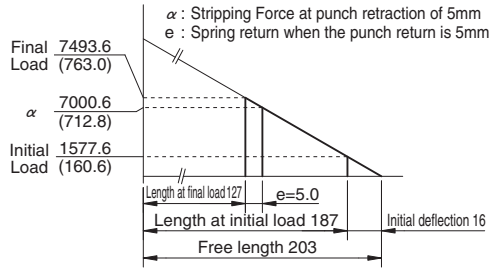
■Table of Components

No.	Description	Qty	Material and Remark
①	Cam Holder	1	FC250
②	Cam Slider	1	FC250
③	Cam Driver	1	FC250
④	Spring Guide Pin	2	S45C(1045)
⑤	Spring Guide Block	2	SS400(1020)
⑥	Washer	2	FC250
⑦	Coil Spring	2	TJL50-203
⑨	Bracket	2	SS400(1020)
⑩	Heel Plate	1	Bronze with Graphite(SO#50SP2)
⑪	Driver Plate	2	Bronze with Graphite(SO#50SP2)
⑫	Stopper	2	Urethane/SS400
⑬	Positive Return Follower	2	S45C(1045)
⑭	Upper Plate	2	S45C(1045)
⑮	Lower Plate	4	Bronze with Graphite(SO#50SP2)
⑯	Slide Plate	2	Bronze with Graphite(SO#50SP2)
⑰	Roller	2	S45C(1045)
⑱	Bushing	2	Bronze with Graphite(SO#50SP2)
⑲	Shaft	2	S45C(1045)
⑳	Roller Cam	2	S45C(1045)
㉑	Back Up Plate	1	S45C(1045)
㉜	Lower Slide Plate	4	S45C(1045)
㉝	Wear Plate	2	S45C(1045)

■Spring Diagram

(Stripping Force at punch retraction of 5mm)

- Spring used TJL50-203(2 pieces)
- Spring constant 49.3N/mm(5.02kgf/mm)



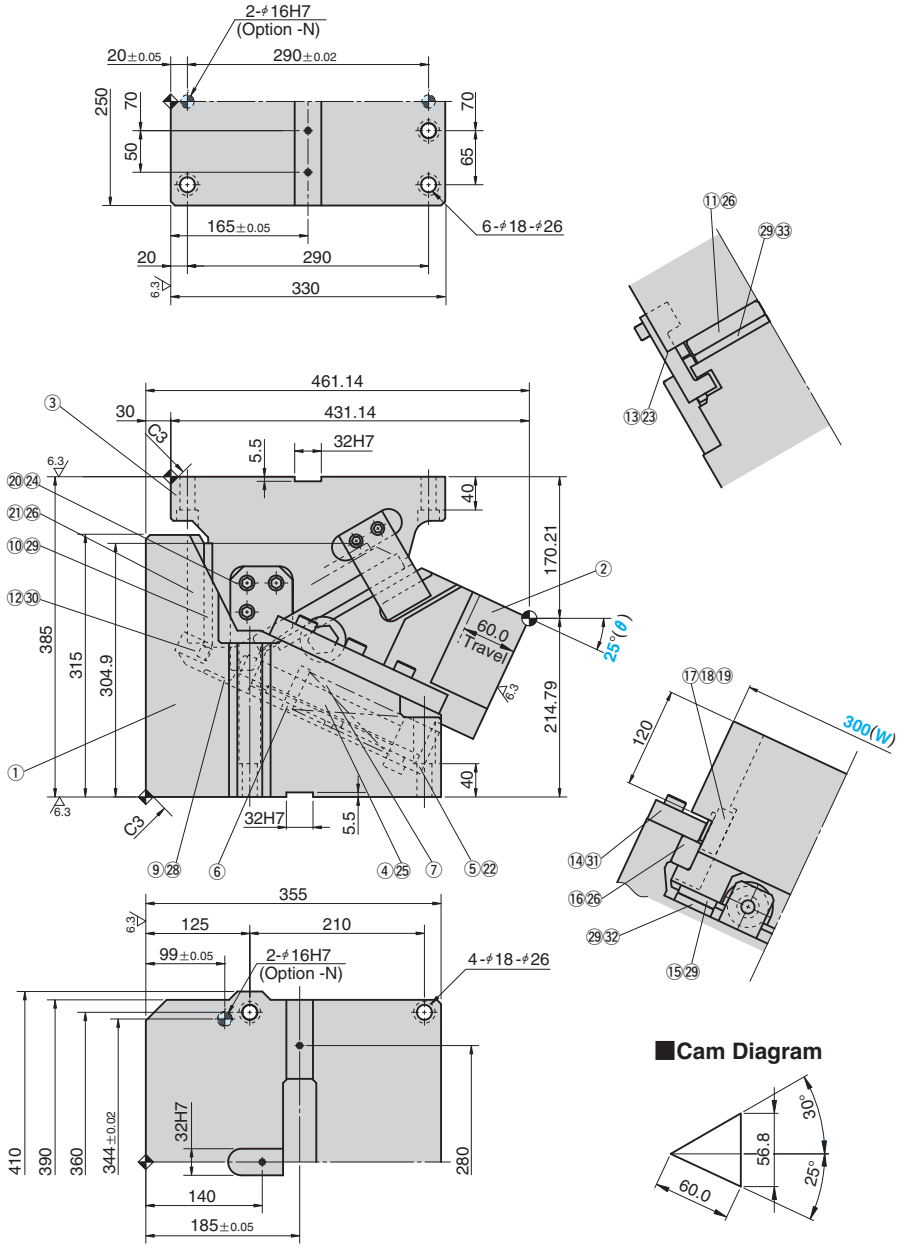
⚠ Bolts and dowel pins for assembly are not indicated. Part numbers are shown on the drawing.

Die Mounted Cam Unit

FOR PIERCE

Addition CAD FILE

KGSP300 – 25



■Cam Diagram

Travel S	Working Force kN(tonf)	Spring Force N(kgf)		Slider Weight kg	Total Weight kg	Catalog No.	(W)	(θ)
		Initial Load	Final Load					
60.0	294.0 (30.0)	1577.6 (160.6)	7493.6 (763.0)	66.9	287.0	KGSP	300	25

Order

Catalog No.	(W)	–	(θ)
KGSP	300	–	25

Option

Option Code	Specification
K	Metric dedicated key is attached for both cam holder and driver. (It is not assembled to the main unit.)
KA	Metric dedicated key is attached for both cam holder and driver. (It is not assembled to the main unit.)
N	φ16H7 dowel pin holes for the cam holder and cam driver are additionally drilled.

For detailed specification of the K and KA keys, refer to page 1666.

Refer to page 552 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finish hole) for retainer.

Order KGSP300 – 25 – KA

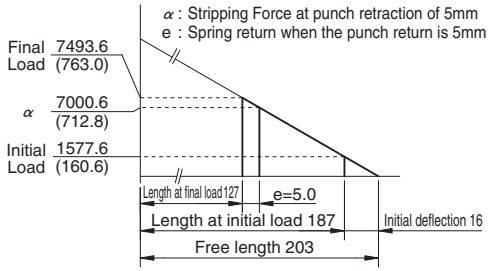
■Table of Components

No.	Description	Qty	Material and Remark
①	Cam Holder	1	FC250
②	Cam Slider	1	FC250
③	Cam Driver	1	FC250
④	Spring Guide Pin	2	S45C(1045)
⑤	Spring Guide Block	2	SS400(1020)
⑥	Washer	2	FC250
⑦	Coil Spring	2	TJL50-203
⑨	Bracket	2	SS400(1020)
⑩	Heel Plate	1	Bronze with Graphite(SO#50SP2)
⑪	Driver Plate	2	Bronze with Graphite(SO#50SP2)
⑫	Stopper	2	Urethane/SS400
⑬	Positive Return Follower	2	S45C(1045)
⑭	Upper Plate	2	S45C(1045)
⑮	Lower Plate	4	Bronze with Graphite(SO#50SP2)
⑯	Slide Plate	2	Bronze with Graphite(SO#50SP2)
⑰	Roller	2	S45C(1045)
⑱	Bushing	2	Bronze with Graphite(SO#50SP2)
⑲	Shaft	2	S45C(1045)
⑳	Roller Cam	2	S45C(1045)
㉑	Back Up Plate	1	S45C(1045)
㉜	Lower Slide Plate	4	S45C(1045)
㉝	Wear Plate	2	S45C(1045)

■Spring Diagram

(Stripping Force at punch retraction of 5mm)

- Spring used TJL50-203(2 pieces)
- Spring constant 49.3N/mm(5.02kgf/mm)



⚠ Bolts and dowel pins for assembly are not indicated. Part numbers are shown on the drawing.

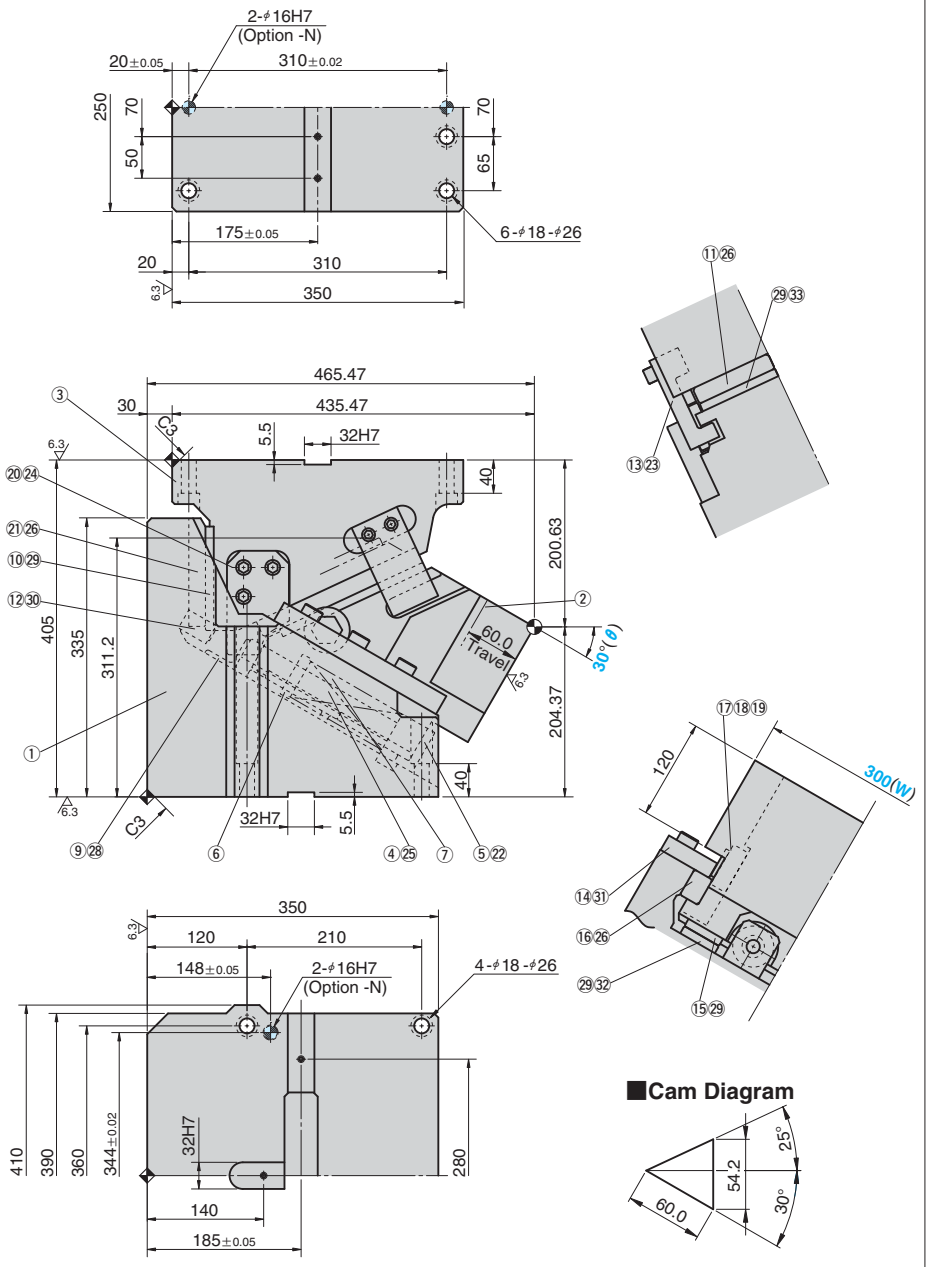
KGSP 300

Die Mounted Cam Unit

FOR PIERCE

Addition CAD FILE

KGSP300 – 30



Travel S	Working Force kN(tonf)	Spring Force N(kgf)		Slider Weight kg	Total Weight kg	Catalog No.	(W)	(θ)
		Initial Load	Final Load					
60.0	294.0 (30.0)	1577.6 (160.6)	7493.6 (763.0)	66.9	303.0	KGSP	300	30

Order

Catalog No.	(W)	–	(θ)
KGSP	300	–	30

Option

Option Code	Specification
K	Metric dedicated key is attached for both cam holder and driver. (It is not assembled to the main unit.)
KA	Metric dedicated key is attached for both cam holder and driver. (It is not assembled to the main unit.)
N	φ16H7 dowel pin holes for the cam holder and cam driver are addition-ally drilled.

Order KGSP300 – 30 – KA

For detailed specification of the K and KA keys, refer to page 1666.

Refer to page 552 for detailed specifications of tapped holes and dowel pin holes (prepared hole, finish hole) for retainer.

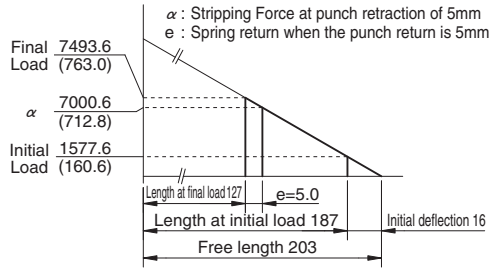
■Table of Components

No.	Description	Qty	Material and Remark
①	Cam Holder	1	FC250
②	Cam Slider	1	FC250
③	Cam Driver	1	FC250
④	Spring Guide Pin	2	S45C(1045)
⑤	Spring Guide Block	2	SS400(1020)
⑥	Washer	2	FC250
⑦	Coil Spring	2	TJL50-203
⑨	Bracket	2	SS400(1020)
⑩	Heel Plate	1	Bronze with Graphite(SO#50SP2)
⑪	Driver Plate	2	Bronze with Graphite(SO#50SP2)
⑫	Stopper	2	Urethane/SS400
⑬	Positive Return Follower	2	S45C(1045)
⑭	Upper Plate	2	S45C(1045)
⑮	Lower Plate	4	Bronze with Graphite(SO#50SP2)
⑯	Slide Plate	2	Bronze with Graphite(SO#50SP2)
⑰	Roller	2	S45C(1045)
⑱	Bushing	2	Bronze with Graphite(SO#50SP2)
⑲	Shaft	2	S45C(1045)
⑳	Roller Cam	2	S45C(1045)
㉑	Back Up Plate	1	S45C(1045)
㉜	Lower Slide Plate	4	S45C(1045)
㉝	Wear Plate	2	S45C(1045)

■Spring Diagram

(Stripping Force at punch retraction of 5mm)

- Spring used TJL50-203(2 pieces)
- Spring constant 49.3N/mm(5.02kgf/mm)



⚠ Bolts and dowel pins for assembly are not indicated. Part numbers are shown on the drawing.

KGSP 300