



SPECIAL CHUCK

Samchully provides superior solutions to complicated workholding applications. High production and/or work pieces that have complex features difficult to hold with standard chucks require custom workholding. With over 40 years of manufacturing experience, Samchully has developed workholding solutions to many of the worlds largest manufactures. Samchully has the ability to design, build and test the complete solution to ensure a consistent, high quality product.



PBL

Universal Ball-Lock
Power Chuck

06 P



COR

Outside-Collet
Chuck

18 P



PHD

Outside Pull-Down
Chuck

28 P



PIL

Inside Pin Arbor
Chuck

08 P



FD

Finger Chuck

19 P



PHDN

Inside Pull-Down
Chuck

30 P



POL

Outside Pin Arbor
Chuck

09 P



DP

Diaphragm Chuck

20 P



RS

Retractable-Jaw
Shaft Chuck

32 P



DDL

Outside Draw-
Down Chuck

10 P



GDP

Gear Chuck

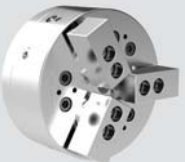
21 P



CSF

Compensating
Chuck

34 P



DDO

Inside Draw-Down
Chuck

12 P



BDG

Bevel-Gear Chuck

22 P



FWC

Aluminum Wheel
Chuck

36 P



DDT

Outside 2-Jaw
Draw-Down Chuck

14 P



IAHT

Auto-Indexing
Chuck

23 P



CDO

Outside-Collet
Chuck

16 P



IAH

Auto-Indexing
Chuck

24 P



CDI

Inside-Collet
Chuck

17 P



IAN

Auto-Indexing
Chuck

26 P

PBL Universal Ball-Lock Power Chuck



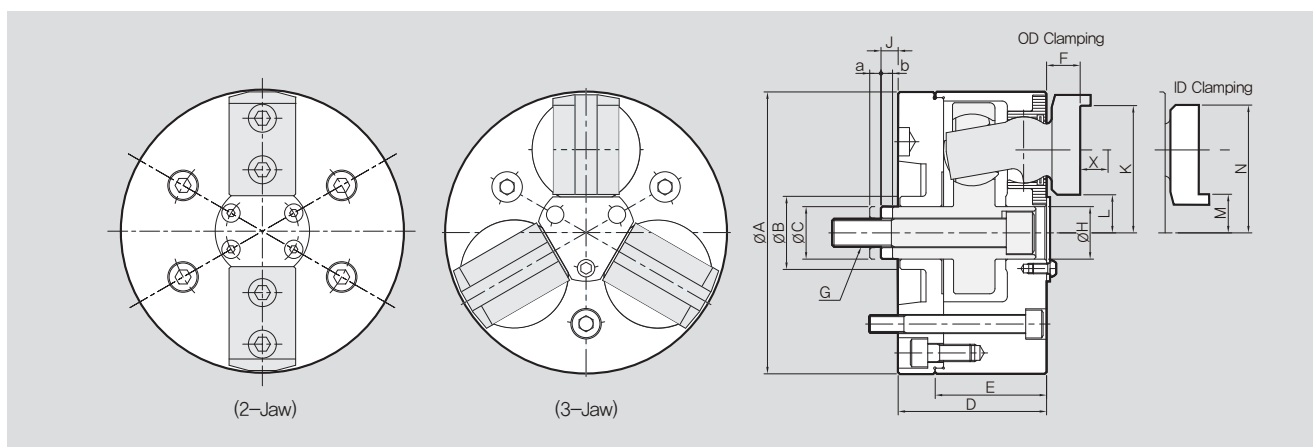
Application / Benefits

Compensating feature provides proper clamping for rough castings or forgings
Ability to clamp OD and ID

Technical features

Grips on tapers up to 10°

Jaws pivot up to 5° to grip on uneven surfaces



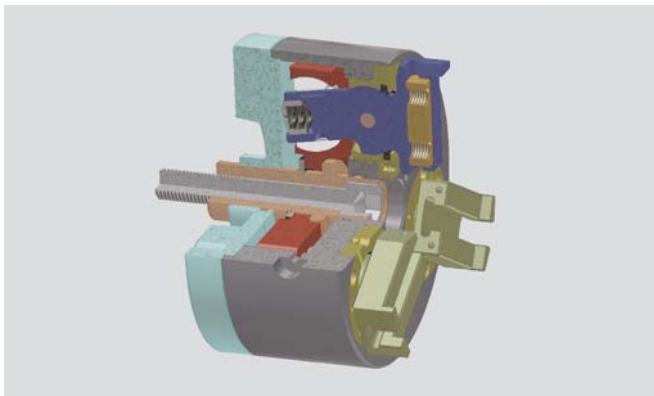
DIMENSIONS

	PBL-06	PBL-08	PBL-10	PBL-12	PBL-15	PBL-18	PBL-21	PBL-24
ΦA	162	200	254	300	381	457	533	610
ΦB min.	40	45	58	58	83	120.7	120.7	-
ΦC	30.16	31.75	41.27	41.27	57.16	88.9	88.9	80
D	85.2	100	118	118	131	131	131	131
E	59.2	70	86.6	86.6	96.1	96.1	96.1	100.9
F	19.3	23.3	29.1	29.1	32.4	32.4	32.4	32.4
G	M16	M16	M18	M18	M24	M30	M30	M30
ΦH	30.170	31.760	41.285	41.285	57.160	88.900	88.900	88.900
J	10.6	10.4	13.5	13.5	24.7	31.7	31.7	31.7
a	5.1	8	8	8	10.3	10.3	10.3	10.3
b	6.2	6.4	9.5	9.5	12	12	12	12
K	73.15	88.95	112.7	133.27	171.45	209.55	247.65	285.8
L	20.3	25.3	30.2	50.87	65.8	103.9	142	180.2
M	22.1	25.35	30.3	50.77	69.8	107.9	146	184.2
N	75	89	112.8	133.37	175.46	213.6	252	289.81
X	24.9	29.4	36.5	36.5	41.9	41.9	41.9	41.9

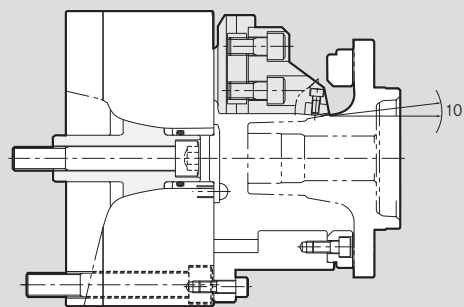
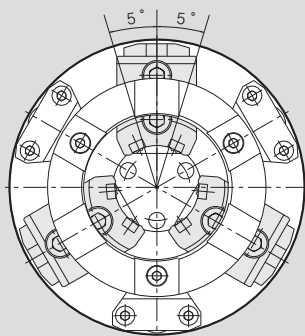
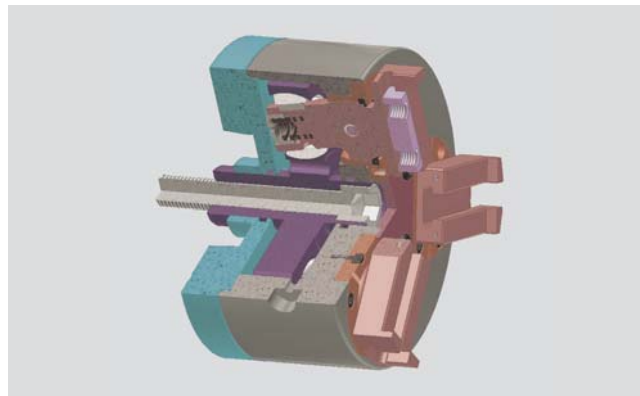
SPECIFICATIONS

	PBL-06	PBL-08	PBL-10	PBL-12	PBL-15	PBL-18	PBL-21	PBL-24
Max. Clamping Force [kgf]	6600	8700	10800	10800	16500	16500	16500	16500
Max. Drawbar Pull [kgf]	2200	2900	3600	3600	5500	5500	5500	5500
Jaw Stroke Dia. [mm]	7.9	9.5	12.7	12.7	15.8	15.8	15.8	15.8
Plunger Stroke [mm]	11.3	14.3	17.5	17.5	22.3	22.3	22.3	22.3
Clamping Range [mm]	Outside Dia.	12.7~120	16~152	50~203	63~241	76~317	89~394	162~470
	Inside Dia.	70~152	76~203	85~235	127~305	165~381	241~457	317~533
Max. Speed [r.p.m.]	4000	3500	2500	2000	1800	1500	1000	1000
Weight [kg]	18.0	27.0	45.0	67.5	84.5	120.0	180.0	290
GD2 [kgf·m ²]	0.15	0.48	1.23	2.42	8.49	15.17	25.00	25

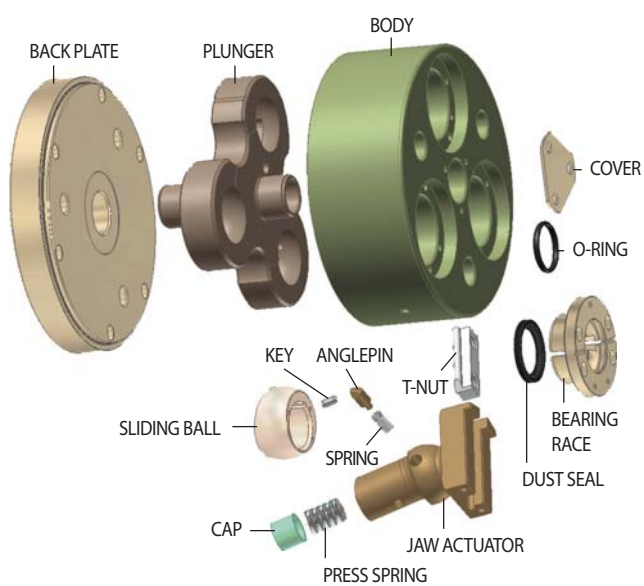
Centralizing



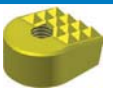


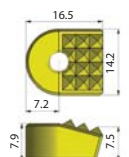


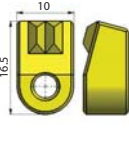

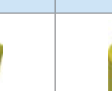


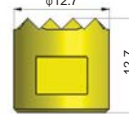
Compensating



PBL Components



Inserts

Angle Lot Style			
			
PC127-10SC	PC127-4SC	PC130-4SC	
			
PC132-4SC	PC145-5SC		
			
PC127-4SC-S	PC130-2SC-S		
Round Style			
			
PC070-12SC	PC070-4SC		

PIL Inside Pin Arbor Chuck



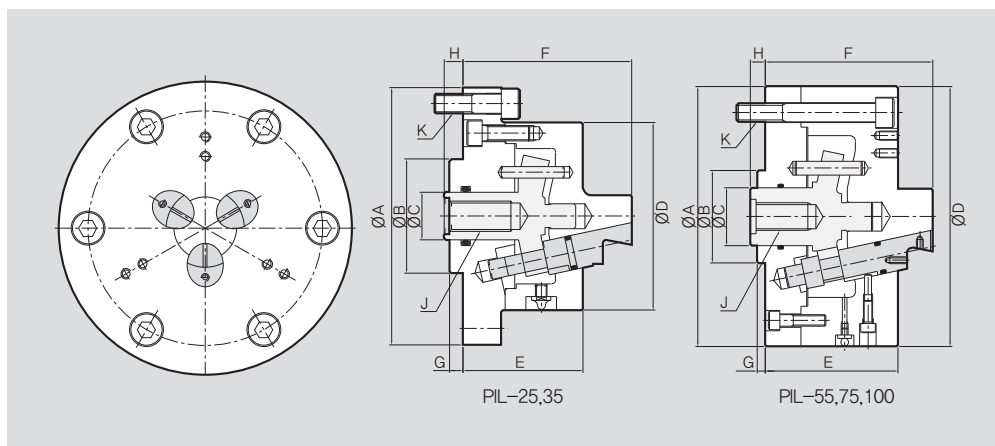
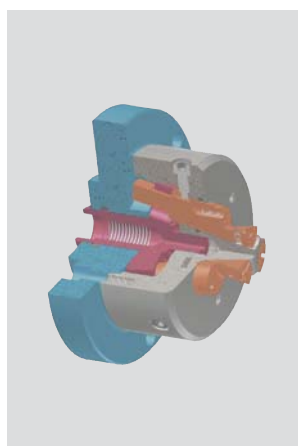
Application / Benefits

Ideal for second operation I.D. gripping

Technical features

Active pull-down for high precision

Counter centrifugal gripping reduces distortion



DIMENSIONS

	PIL-25	PIL-35	PIL-55	PIL-75	PIL-100
ØA	135	135	190	225	270
ØB(h7)	60	60	80	80	120
ØC	20	25	32	50	50
ØD	85	100	190	225	270
E	60	63	93	115	130
F	80	88.5	120	145	170
G	7	7	7	7	7
Hmax.	12	12	18	18	23
Hmin.	8	8	8	8	13
J	M12	M16	M16	M24	M24
K	3-M10 PCD118	3-M10 PCD118	3-M16 PCD150	6-M16 PCD180	6-M16 PCD180

SPECIFICATIONS

	PIL-25	PIL-35	PIL-55	PIL-75	PIL-100
Max. Clamping Force [kgf]	2250	3380	5640	7150	7150
Max. Drawbar Pull [kgf]	1200	1800	3000	3800	3800
Jaw Stroke Dia. [mm]	1.7	1.7	4.2	4.2	4.2
Plunger Stroke [mm]	4	4	10	10	10
Clamping Range [mm]	Pin Jaw	17~25	25~40	35~55	55~76
	Top Jaw	-	48~60	62~90	85~130
Max. Speed [r.p.m.]	5000	4500	3500	2500	2000
Weight [kg]	3.5	4.3	18.4	35	55
GD2 [kgf·m²]	0.013	0.026	0.33	0.88	2.0

POL Outside Pin Arbor Chuck



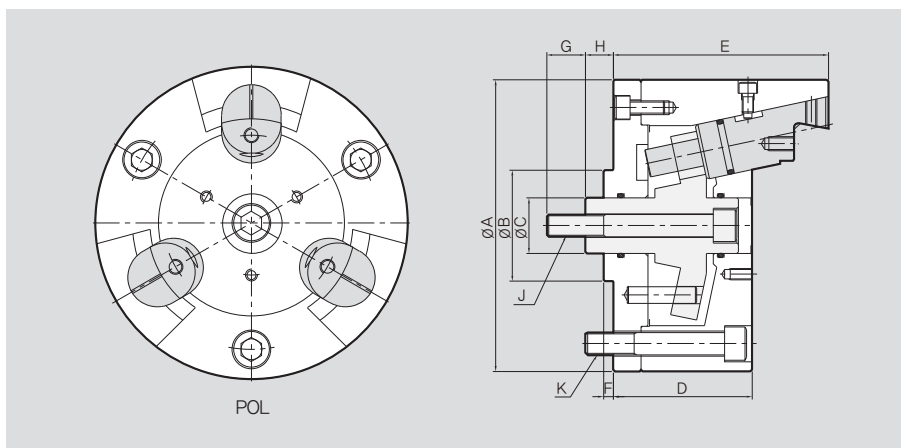
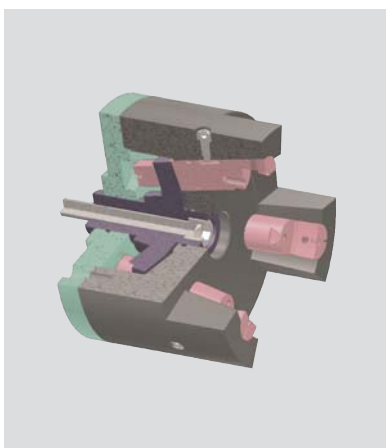
Application / Benefits

Ideal for second operation O.D. gripping on thin walled parts

Technical features

Active pull-down for high precision

Counter centrifugal gripping reduces distortion



DIMENSIONS

	POL-80	POL-100	POL-140	POL-180	POL-230	POL-300
ΦA	130	162	210	250	320	400
ΦB(h7)	60	80	80	80	120	-
ΦC	24	30	40	45	50	60
ΦD	72	90	100	110	130	137
E	103	130	155	165	200	248
F	5	7	7	7	7	7
G	20	30	30	30	40	40
Hmax.	18	22.5	25	25	30	25
Hmin.	10	12.5	15	15	20	15
J	M12	M16	M16	M18	M20	M35
K	3-M8 PCD100	3-M12 PCD130	3-M16 PCD170	3-M16 PCD210	6-M16 PCD270	M24

SPECIFICATIONS

	POL-80	POL-100	POL-140	POL-180	POL-230	POL-300
Max. Clamping Force [kgf]	2250	3760	4700	5640	7520	7520
Max. Drawbar Pull [kgf]	1200	2000	2500	3000	4000	4000
Jaw Stroke Dia. [mm]	3.4	4.2	4.2	4.2	4.2	4.2
Plunger Stroke [mm]	8	10	10	10	10	10
Clamping Range [mm]	Pin Jaw	65~80	86~100	120~140	150~180	-
	Top Jaw	15~60	20~80	60~110	100~145	120~200
Max. Speed [r.p.m.]	5000	4500	3000	2000	2000	2000
Weight [kg]	8	16	27	46	70	165
GD2 [kgf·m²]	0.067	0.2	0.54	1.43	3.5	5.6

DDL Outside Draw-Down Chuck



Application / Benefits

Workpiece pulled down to location for superior accuracy

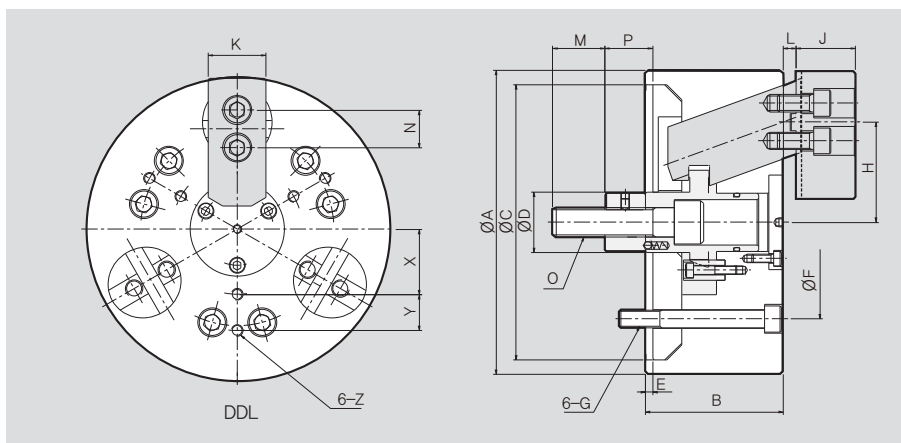
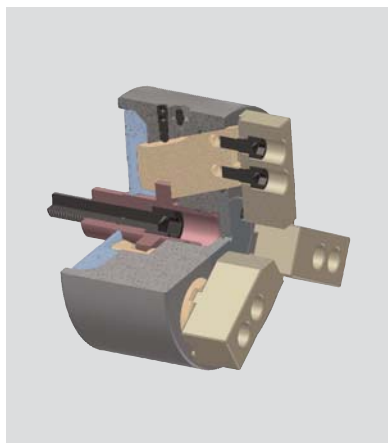
Technical features

Very accurate for parallel and perpendicular surfaces

Sealed to prevent chips and coolant from entering the chuck body

SPECIFICATIONS

	DDL-04	DDL-05	DDL-06	DDL-08	DDL-10	DDL-12	DDL-15	DDL-20
Max. Clamping Force [kgf]	1350	2000	2500	4500	6000	7500	9000	23800
Max. Drawbar Pull [kgf]	800	1000	1500	2500	3500	4500	5500	9100
Jaw Stroke Dia. [mm]	5	5.0	7.2	7.2	10.8	10.8	14.5	18
Plunger Stroke [mm]	7	7	10	10	15	15	20	28
Clamping Range [mm]	Pin Jaw	10~55	15~65	35~85	40~200	50~250	50~300	60~380
	Top Jaw	10~50	15~60	35~80	40~150	50~200	50~250	60~320
Max. Speed [r.p.m.]	5500	3500	3500	3000	2500	2000	1500	1700
Weight [kg]	4.5	7.3	14	27	46	68	110	230
GD2 [kgf·m ²]	0.05	0.07	0.18	0.66	1.50	3.20	9.00	12



DIMENSIONS

	DDL-04	DDL-05	DDL-06	DDL-08	DDL-10	DDL-12	DDL-15	DDL-20
ΦA	98	130	165	210	254	304	381	500
B	60	70	85	95	110	125	140	150
ΦC(h7)	60	80	140	190	230	230	300	420
ΦD	25	28	34	40	50	54	60	95
E	5	5	5	5	5	5	8	9
ΦF	80	100	104.8	133.4	171.4	171.4	230	360
G	3-M8	3-M8	M10	M12	M16	M16	M20	-
Hmax.	38.25	44	58	71	85	102	133.6	180.5
Hmin.	33.25	41.5	54.4	67.4	79.6	96.6	126.4	171.4
J	19.5	24.5	31	41	49	51	60	71
K	25	30	35	40	50	60	70	80
Lmax.	10.5	10.5	14	14	19	19	26	32
Lmin.	3.5	3.5	4	4	4	4	6	7
M	20	25	36	36	46	50	47	49
N	-	-	-	26	32	36	40	44
O	M10	M12	M16	M20	M24	M27	M30	-
Pmax.	14	24	33	38	47	47	71	72
Pmin.	7	17	23	28	32	32	51	47
X	25	30	35	45	55	70	95	150
Y	-	-	20	25	30	35	45	50
Z	3-M6	M6	M6	M8	M8	M10	M12	M16

DDO Inside Draw-Down Chuck



Application / Benefits

Workpiece pulled down to location for superior accuracy

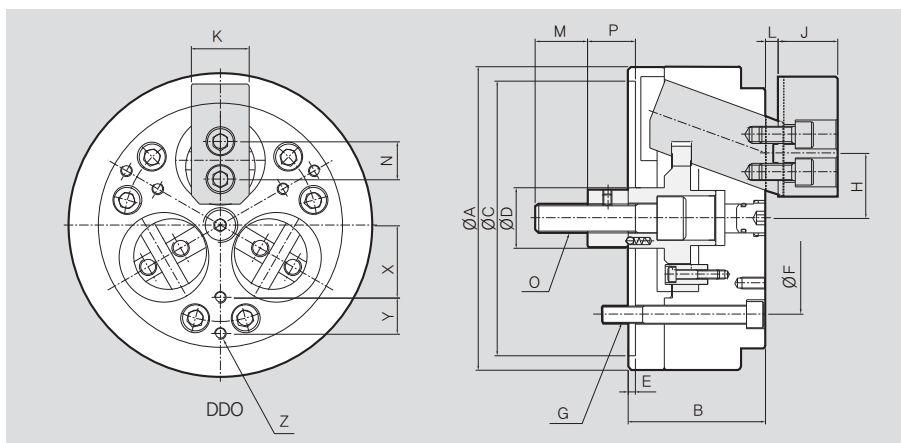
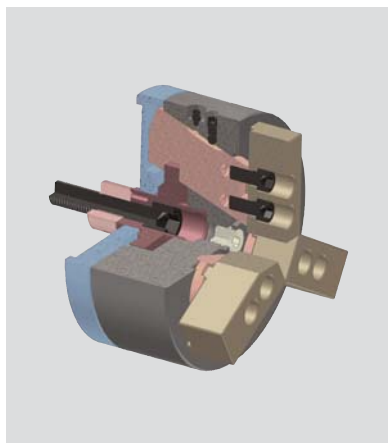
Technical features

Very accurate for parallel and perpendicular surfaces

Sealed to prevent chips and coolant from entering the chuck body

SPECIFICATIONS

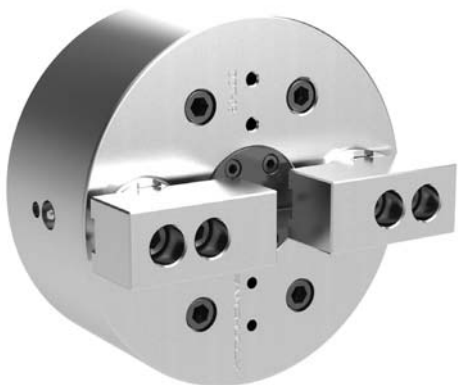
		DDO-06	DDO-08	DDO-10	DDO-12	DDO-15
Max. Clamping Force [kgf]		2500	4500	6000	7500	9000
Max. Drawbar Pull [kgf]		1500	2500	3500	4500	5500
Jaw Stroke Dia. [mm]		5.8	7.2	10.8	10.8	14.5
Clamping Range [mm]	Standard	35~140	40~180	50~220	60~270	250~340
	Top Jaw	70~140	90~180	100~220	110~220	200~340
Max. Speed [r.p.m.]		5000	4500	4000	3500	1500
Weight [kg]		13	26	44	68	110
GD2 [kgf·m ²]		0.18	0.66	1.50	2.90	6.5



DIMENSIONS

	DDO-06	DDO-08	DDO-10	DDO-12	DDO-15
ΦA	165	210	254	304	381
B	80	95	110	125	140
ΦC(h7)	140	190	230	230	300
ΦD	35	42	52	80	60
E	5	5	5	5	8
ΦF	104.8	133.4	171.4	171.4	230
G	M10	M12	M16	M16	M20
Hmax.	37.9	46.6	57.9	65.4	93.6
Hmin.	35	43	52.5	60	86.4
J	30	41	46	51	60
K	35	40	50	60	70
Lmax.	12	14	19	19	26
Lmin.	4	4	4	4	6
M	36	36	46	50	55
N	-	26	32	36	40
O	M16	M20	M24	M27	M30
Pmax.	31	38	47	47	63
Pmin.	23	28	32	32	43
X	40	50	60	70	95
Y	20	25	30	40	45
Z	M6	M8	M8	M10	M12

DDT Outside 2-Jaw Draw-Down Chuck



Application / Benefits

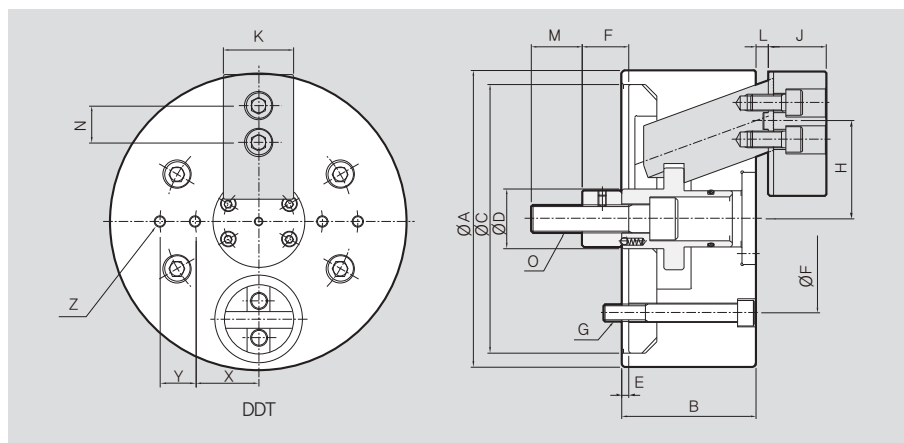
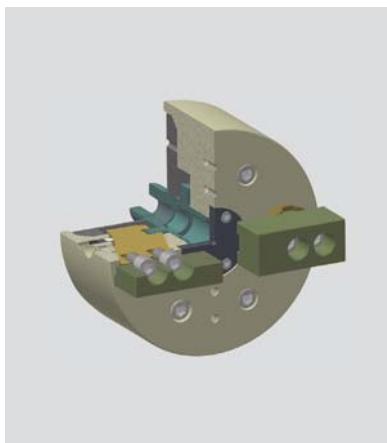
Workpiece pulled down to location for superior accuracy

Technical features

Ideal for machining square, rectangular and irregularly-shaped components
Very accurate for parallel and perpendicular surfaces

SPECIFICATIONS

	DDT-06	DDT-08	DDT-10
Max. Clamping Force [kgf]	1600	2800	4000
Max. Drawbar Pull [kgf]	1000	1700	2500
Jaw Stroke Dia. [mm]	7.2	7.2	10.2
Plunger Stroke [mm]	11.0	11.0	16.0
Clamping Range [mm]	Standard	40~200	50~250
	Top Jaw	40~150	50~200
Max. Speed [r.p.m.]	2500	2200	1800
Weight [kg]	14	26	42
GD2 [kgf·m ²]	0.19	0.57	1.50



DIMENSIONS

	DDT-06	DDT-08	DDT-10
ΦA	160	210	254
B	85	95	110
ΦC(h7)	140	190	230
ΦD	35	42	52
E	5	5	5
ΦF	104.8	133.4	171.4
G	M10	M12	M16
Hmax.	58	71	85
Hmin.	54.4	67.5	79.9
J	31	41	46
K	35	40	50
Lmax.	18	15	23
Lmin.	8	8	9
M	36	38	46
N	-	26	32
O	M16	M20	M24
Pmax.	34	39	48
Pmin.	23	28	32
X	35	45	55
Y	20	25	30
Z	M6	M8	M8

CDO Outside-Collet Chuck

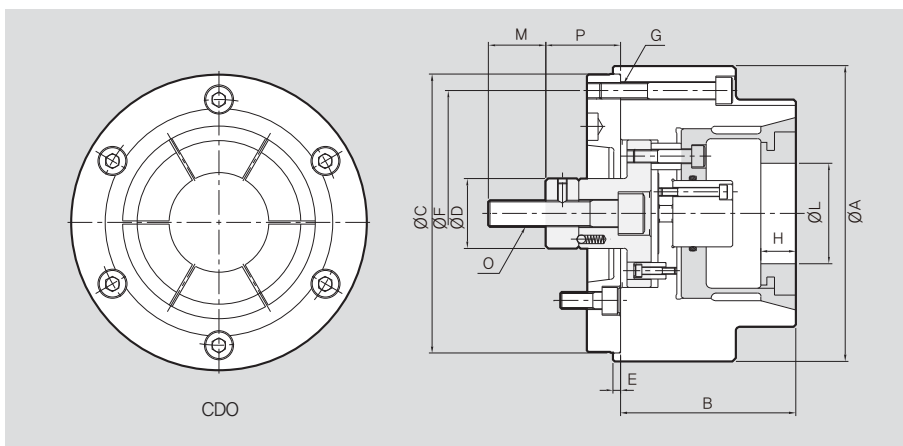
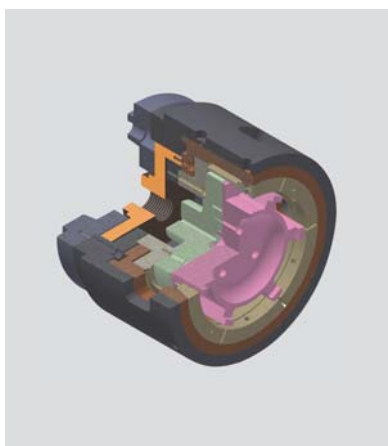


Application / Benefits

OD clamping of entire workpiece eliminates distortion
Pull down feature to locator provides superior accuracy

Technical features

Interchangeable top jaws grip the workpiece O.D.
Capable of air sensing and/or air/coolant porting for chip removal



DIMENSIONS

	CDO-06	CDO-08	CDO-10	CDO-12
ΦA	165	210	250	300
B	115	125	145	170
ΦC(h7)	150	200	230	230
ΦD	35	42	52	52
E	5	5	5	5
ΦF	130	180	210	270
G	M12	M12	M16	M16
H	30	35	45	50
ΦLmax.	50	90	130	180
ΦLmin.	15	80	80	100
M	36	36	46	50
O	M16	M20	M24	M24
Pmax.	26	32	35	36
Pmin.	23	29	32	32

SPECIFICATIONS

	CDO-06	CDO-08	CDO-10	CDO-12
Max. Clamping Force [kgf]	2800	4600	6500	7500
Max. Drawbar Pull [kgf]	1500	2500	3500	4000
Jaw Stroke Dia. [mm]	1.6	1.6	1.6	2.0
Plunger Stroke [mm]	3	3	3	4
Clamping Range [mm]	Max Min	80 40	130 80	180 100
Max. Speed [r.p.m.]	4500	4000	3300	2500
Weight [kg]	11	23	49	67
GD2 [kgf·m²]	0.11	0.44	1.76	3.10

CDI Inside-Collet Chuck

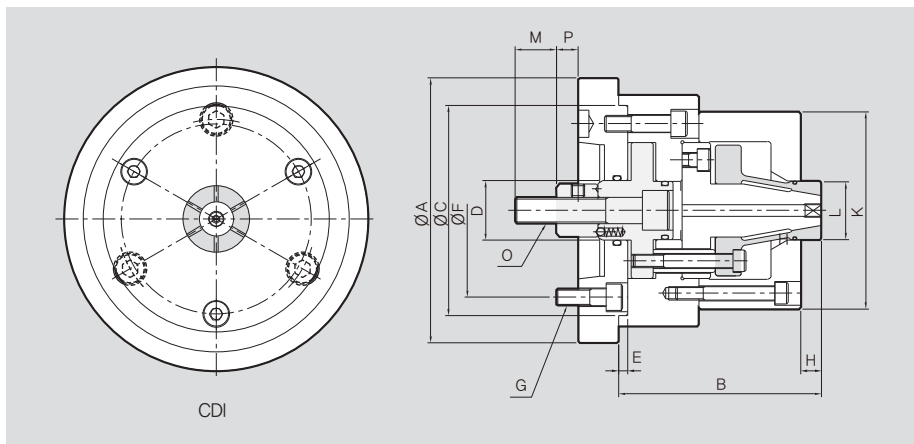
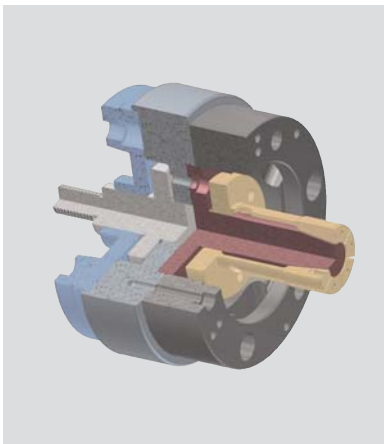


Application / Benefits

High accuracy, Good torque transmission
Even clamping pressure for no deformation
Custom made mandrels

Technical features

Pull down feature for better accuracy
Vulcanized rubber to protect mandrels from chips
Easily ported for air sensing or air/coolant for chip removal



DIMENSIONS

	CDI-06	CDI-08	CDI-10	CDI-12
ΦA	165	200	250	300
B	115	135	180	220
ΦC(h7)	150	170	230	230
ΦD	35	42	52	52
E	6	6	6	6
ΦF	104.8	133.4	171.4	171.4
G	M10	M12	M16	M16
H	15	20	35	40
ΦK	L+25	L+35	L+40	L+50
ΦLmax.	15	90	130	180
ΦLmin.	40	40	90	130
M	40	45	55	55
O	M16	M20	M24	M24
Pmax.	26	33	36	37
Pmin.	23	29	32	32

SPECIFICATIONS

	CDI-06	CDI-08	CDI-10	CDI-12
Max. Clamping Force [kgf]	4000	7000	12000	15000
Max. Drawbar Pull [kgf]	1500	2500	4000	4800
Jaw Stroke Dia. [mm]	0.8	1.0	1.0	1.4
Plunger Stroke [mm]	3	4	4	5
Clamping Range [mm]	Max	90	130	180
	Min	40	90	130
Max. Speed [r.p.m.]	4500	4000	3300	2500
Weight [kg]	7	14	34	55
GD2 [kgf·m ²]	0.06	0.19	0.71	2

COR Outside-Collet Chuck

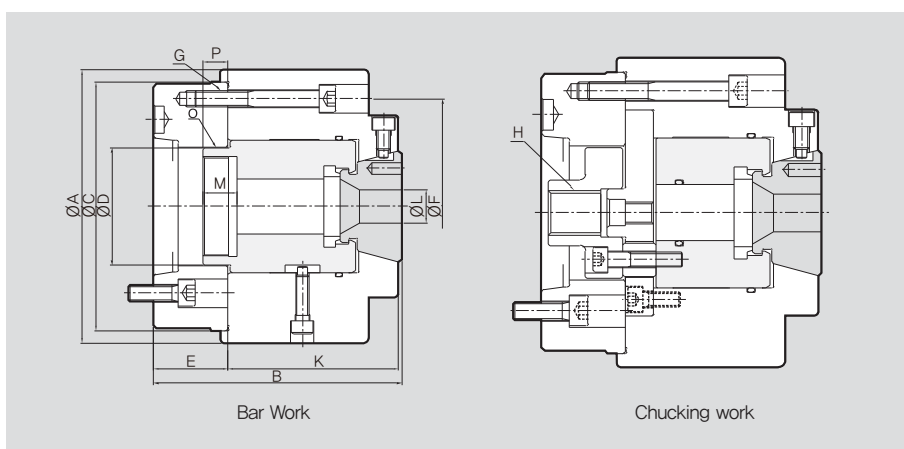
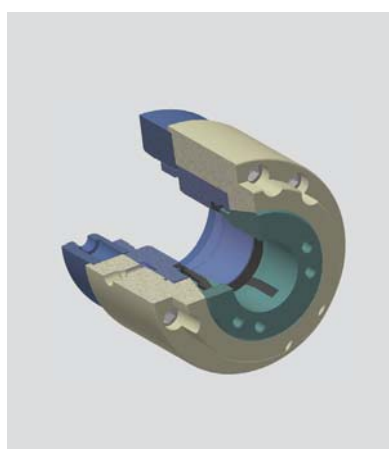


Application / Benefits

Quick change OD clamping collet chuck
No centrifugal losses for consistent clamp forces

Technical features

Vulcanized rubber - steel segmented collet
Round, square and hexagonal collets available



DIMENSIONS

	COR-32	COR-50	COR-65	COR-90
ΦA	165	165	180	210
B	150	150	170	190
ΦC(h7)	150	150	170	170
ΦD	71	87	103	103
E	45	45	49	55
ΦF	130	130	150	150
G	M10	M10	M12	M12
H	M24	M24	M30	M30
K	103	103	119	133
ΦLmax.	32	50	65	90
ΦLmin.	5	12	16	30
M	20.5	27.5	25	25
O	M60x2.0	M74x1.5	M90x2.0	M90x2.0
Pmax.	16.5	23	25.5	28.5
Pmin.	13.5	20	22.5	22.5

SPECIFICATIONS

		COR-32	COR-50	COR-65	COR-90
Max. Clamping Force [kgf]		6400	8200	9200	13300
Max. Drawbar Pull [kgf]		3200	4100	4600	6500
Collect Expansion [mm]		1.0	1.0	1.0	2.0
Plunger Stroke [mm]		3	3	3	6
Chucking Dia. [mm]	Bar Work	5~32	12~50	16~65	30~90
	Chuck Work	7~32	12~50	16~65	30~90
Max. Speed [r.p.m.]		4500	4500	4000	3500
Weight [kg]		25	25	32	38

FD Finger Chuck

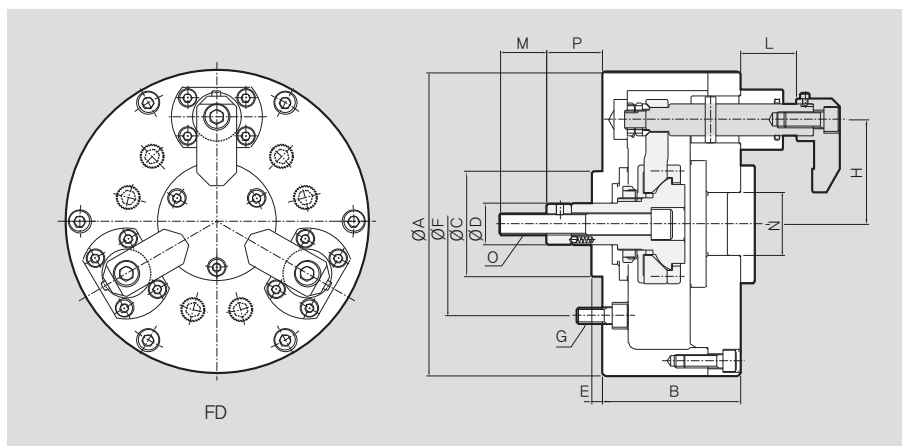
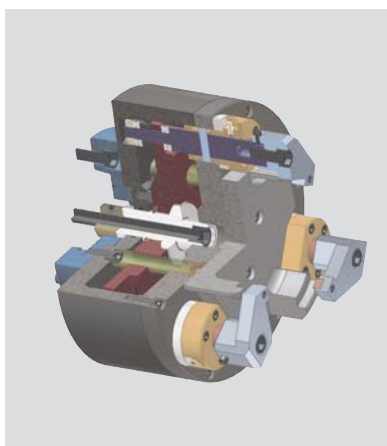


Application / Benefits

Ideal for thin walled parts to eliminate distortion by clamping onto the face

Technical features

Floating clamping fingers adjust to workpiece shape and will pull down to a locator
Available in 2-jaw, 3-jaw, and 4-jaw models



DIMENSIONS

	FD-06	FD-08	FD-10	FD-12	FD-15	FD-18
ΦA	165	210	254	304	381	457
B	75	85	95	110	125	140
ΦC(h7)	60	80	120	120	150	150
ΦD	35	42	52	52	55	55
E	7	7	7	7	7	7
ΦF	104.8	133.4	171.4	171.4	230	230
G	M10	M12	M16	M16	M20	M20
H	55	75	95	120	155	192
ΦLmax.	54	59	72	72	84	84
ΦLmin.	30	35	40	45	50	50
M	36	36	46	46	50	50
ΦN	40	45	55	55	60	60
O	M16	M20	M24	M24	M27	M27
Pmax.	44	50	60	60	75	75
Pmin.	30	35	40	40	50	50

SPECIFICATIONS

	FD-06	FD-08	FD-10	FD-12	FD-15	FD-18
Max. Clamping Force [kgf]	1400	2100	2800	2800	3600	3600
Max. Drawbar Pull [kgf]	1800	2700	3600	3600	4500	4500
Jaw Stroke Dia. [mm]	2	2	2	2	2	2
Plunger Stroke [mm]	14	15	20	20	20	25
Clamping Range [mm]	Max	75	110	145	195	260
	Min	30	50	60	110	180
Max. Speed [r.p.m.]	3500	2800	2400	2100	1800	1500
Weight [kg]	9	18	30	41	73	102
GD2 [kgf·m ²]	0.12	0.41	1.05	2.17	5.65	11.6

DP Diaphragm Chuck

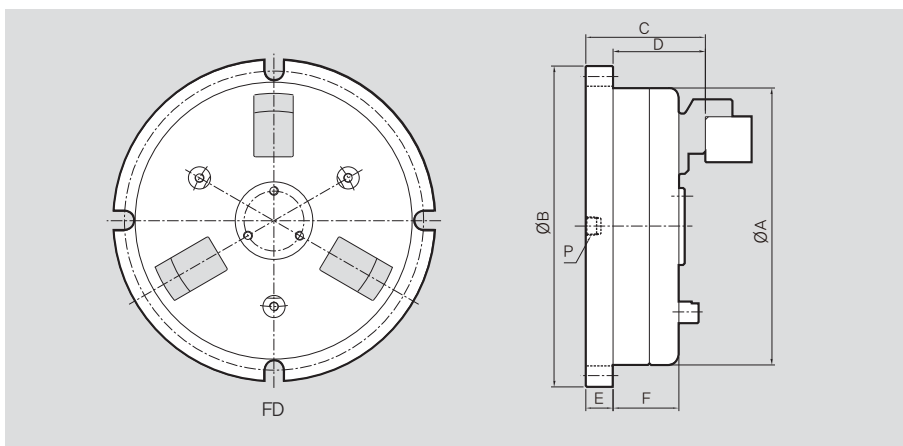
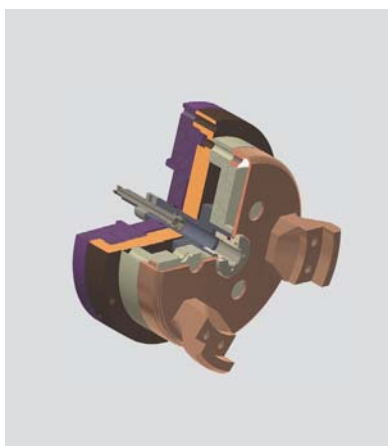


Application / Benefits

Ideal for cylindrical grinding, turning and hard turning that require high concentricity and roundness.
Thin walled or fragile parts that are easily distorted.
Can hold accuracies up to 2μ

Technical features

Minimal maintenance due to sealed body
Can be configured to be self contained or by drawbar



DIMENSIONS

	DP-06	DP-08	DP-10	DP-13	DP-17
ØA	171.4	212.9	251	327.2	428.9
ØB	208	246	284	360	476
C	92	96.8	96.8	108	109.5
D	72.9	77.7	77.7	88.9	90.4
E	19.1	19.1	19.1	19.1	19.1
F	65	70	85	85	85
P	1/4	1/4	1/4	1/4	1/4

SPECIFICATIONS

	DP-06	DP-08	DP-10	DP-13	DP-17
Max. Clamping Force [kgf]	450	720	1150	2000	3600
No. of Jaw	3 (6Jaw)	3 (6Jaw)	3 (6Jaw)	3 (6Jaw)	3 (6Jaw)
Jaw Stroke [kgf]	0.23	0.25	0.25	0.35	0.40
Grip Dia. [mm]	44~107	76~143	114~181	150~248	203~349
Max. Speed [r.p.m.]	4500	4000	3500	3000	2000
Pressure [kgf/cm ²]	4.5	4.5	4.5	4.5	4.5
Weight [kg]	11	20	26.5	43	89

GDP Gear Chuck

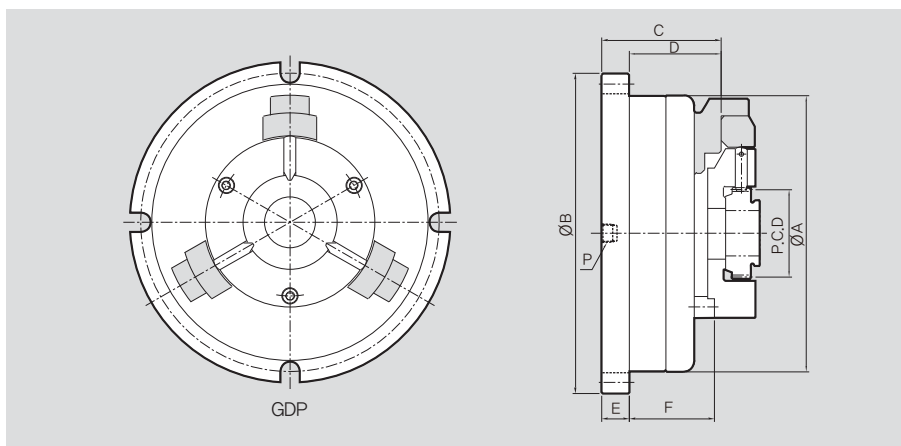
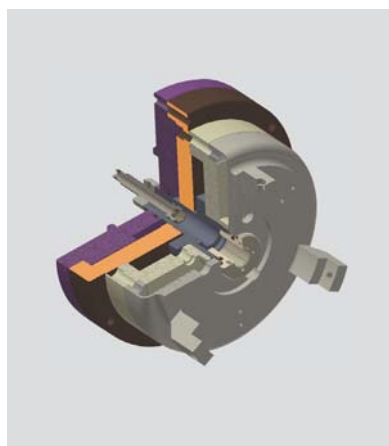


Application / Benefits

Diaphragm chuck with a pin cage to clamp onto gears by their pitch diameter.

Technical features

Diaphragm chuck for hard turning/ grinding gears
Jaws can be easily changed



DIMENSIONS

	GDP-08	GDP-10	GDP-13	GDP-17
ΦA	212.9	251	327.2	428.9
ΦB	246	284	360	476
C	96.8	96.8	108	109.5
D	77.7	77.7	88.9	90.4
E	19.1	19.7	19.1	19.1
F	70	85	85	85
P	1/4	1/4	1/4	1/4
H	55	75	95	120
Lmax.	54	59	72	72
Lmin.	30	35	40	45
M	36	36	46	46
ΦN	40	45	55	55
O	M16	M20	M24	M24
Pmax.	44	50	60	60
Pmin.	30	35	40	40

SPECIFICATIONS

	GDP-08	GDP-10	GDP-13	GDP-17
Max. Clamping Force [kgf]	720	1150	2000	3600
No. of Jaw	3	3	3	3
Jaw Stroke [kgf]	0.25	0.25	0.35	0.40
Grip Dia. [mm]	40~70	70~100	100~160	160~250
Max. Speed [r.p.m.]	4000	3500	3000	2000
Pressure [kgf/cm ²]	4.5	4.5	4.5	4.5
Weight [kg]	20	26.5	43	89

BDG Bevel-Gear Chuck

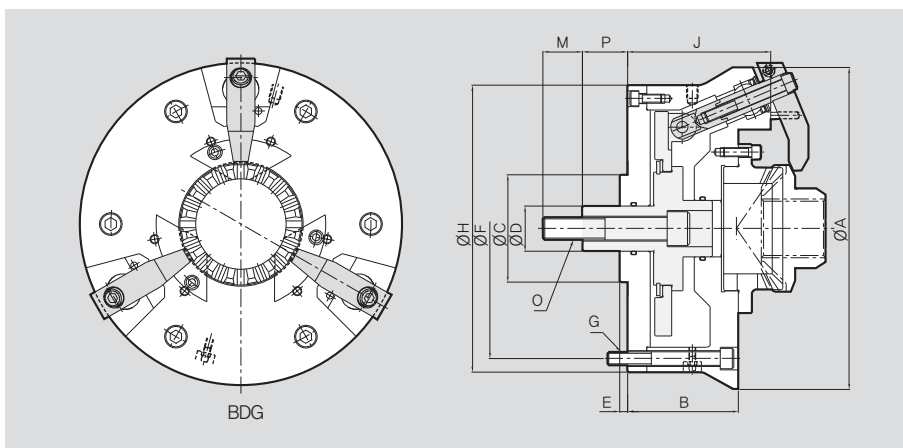
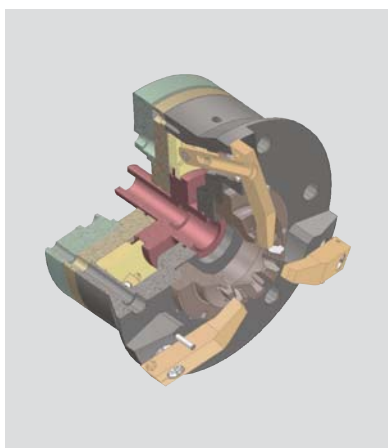


Application / Benefits

For ID machining of bevel gears.
Eliminates distortion by clamping onto face

Technical features

Finger chuck for high accuracy clamping of bevel gears
Floating action ensures equal clamping force on all 3 fingers
Available with hydraulic and pneumatic actuation



DIMENSIONS

	BDG-07	BDG-10
ΦA	215	285
B	98	98
ΦC(h7)	80	95
ΦD	30	40
E	7	7
ΦF	160	230
G	M12	M12
ΦH	185	254
J	126.5	126.5
M	27	35
O	M16	M20
Pmax.	45	45
Pmin.	30	30

SPECIFICATIONS

	BDG-07	BDG-10
Max. Drawbar Pull [kgf]	1500	1500
Plunger Stroke [mm]	15	15
Clamping Range [mm]	22.2 ~ 147.5	88.9 ~ 203.2
Max. Speed [r.p.m.]	2000	1500
Weight [kg]	30	45

IAHT Auto-Indexing Chuck



Application / Benefits

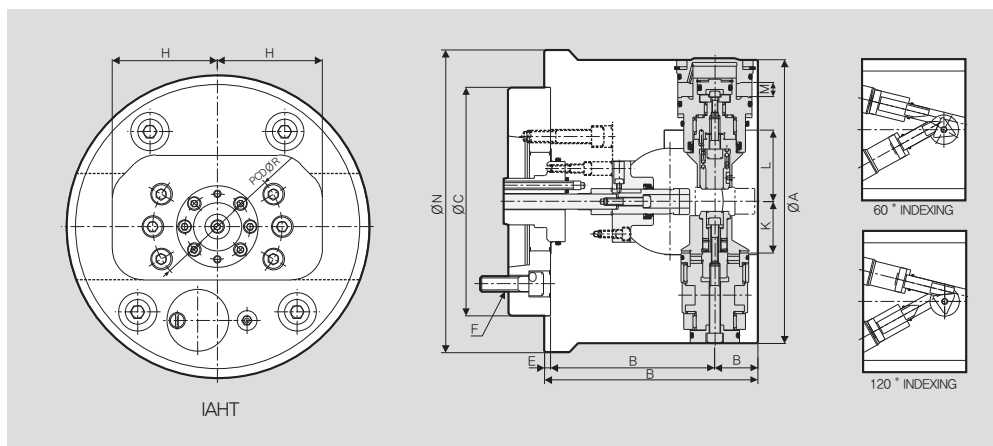
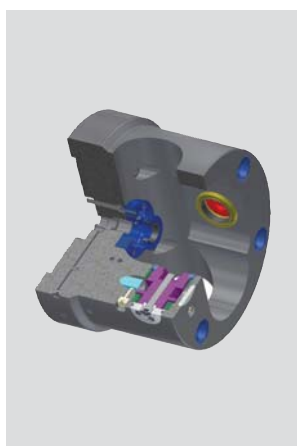
Machine multiple surfaces in a single clamping

Technical features

Accurate, durable indexing system

Index positions 6 x 60° or 3 x 120°, The check valve assures safe operation

Confirmation of index position via pressure sensors



DIMENSIONS

	IAHT-230	IAHT-280	IAHT-300
ØA	230	280	300
B	158	193.5	200
ØC(h7)	130	170	170
D	123	143.5	143.5
E	15	11	11
F	M10	M16	M16
G	35	50	56.5
H	102	82.5	82.5
K	40	56	56
L	58	71	65
M	14.5	21	25
ØN	245	295	295
ØR	104.8	130	130

SPECIFICATIONS

	IAHT-230	IAHT-280	IAHT-300
Clamp Piston Area [cm ²]	1270	2170	3500
Main Spindle Bore [mm]	OVER 45	OVER 45	OVER 45
Max. Speed [r.p.m.]	2400	2000	1800
Weight [kg]	35	65	83
GD2 [kgf-m ²]	1.3	3.6	4.2

IAH Auto-Indexing Chuck



Application / Benefits

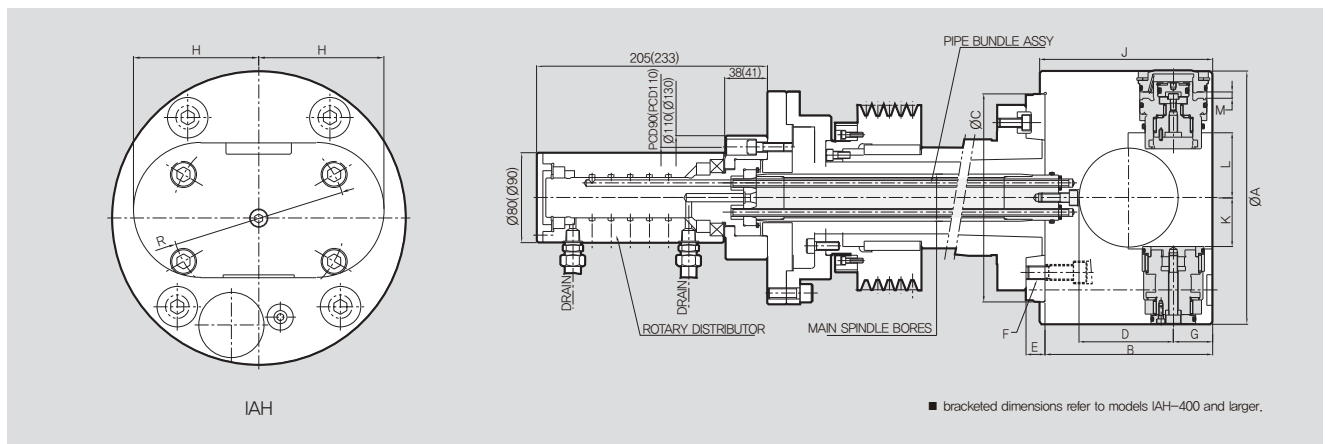
Machine multiple surfaces in a single clamping

Technical features

Accurate, durable indexing system

Index positions 4 x 90° or 8 x 45°, The check valve assures safe operation

Confirmation of index position via pressure sensors

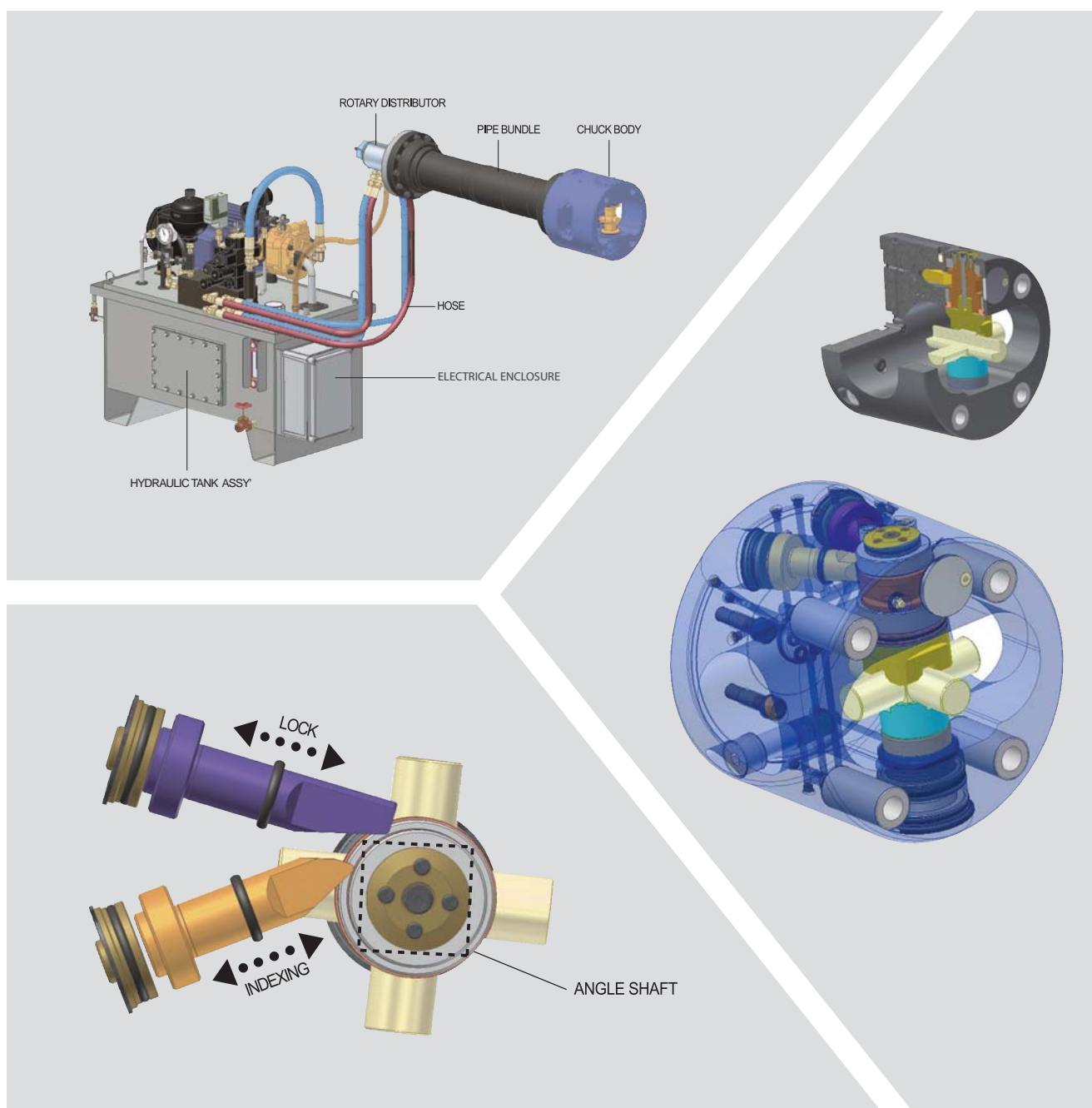


DIMENSIONS

	IAH-225	IAH-250	IAH-275	IAH-315	IAH-350	IAH-400	IAH-500	IAH-670
ΦA	225	250	280	315	350	400	500	670
B	149	185	208	227	235	253	301	465
ΦC(h7)	185	210	210	235	290	290	380	380
D	84	113	125	136	148	160	200	286
E	25	25	25	25	30	30	35	40
F	M12	M12	M16	M16	M20	M20	M20, M24	M24
G	35	40	48	50	50	60	68	90
H	95	106	125	136	145	165	205	275
J	154	190	213	232	240	259	308	470
K	46	46	57	70	84	100	133	176
L	58	55	67	85	102	114	157	214
M	11.5	20	20.5	22	23	30	35	40
ΦR	133.4	133.4	171.4	171.4	235	235	235	330.2

SPECIFICATIONS

	IAH-225	IAH-250	IAH-280	IAH-315	IAH-350	IAH-400	IAH-500	IAH-670
Max. Clamping Force [kgf]	1270	1730	2550	2550	2550	3530	4670	5890
Main Spindle Bore [mm]	OVER 45	OVER 45	OVER 45	OVER 45	OVER 55	OVER 55	OVER 55	OVER 55
Max. Speed [r.p.m.]	2800	2400	2000	1800	1800	1200	900	600
Weight [kg]	29	44	56	75	100	145	230	540
GD2 [kgf·m²]	0.9	1.7	2.8	5.0	8.0	15.0	25.4	32.5
Max. Workpiece Size [mm]	60	65	80	100	135	170	220	300
Max. Workpiece Size [mm]	100	160	220	230	240	260	310	400



Work Pieces



IAN Auto-Indexing Chuck



Application / Benefits

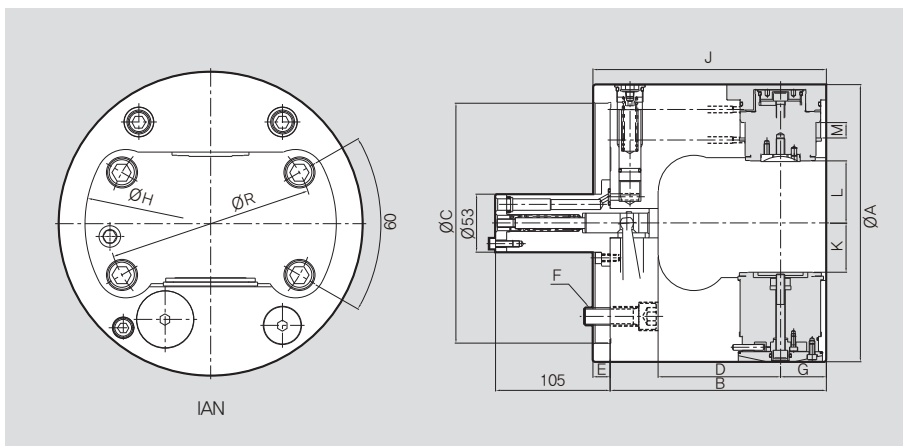
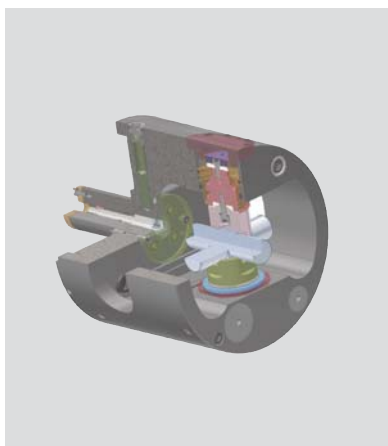
Machine multiple surfaces in a single clamping

Technical features

Accurate, durable indexing system

Index positions 3 x 120° / 4 x 90°

Confirmation of index position via proximity switches

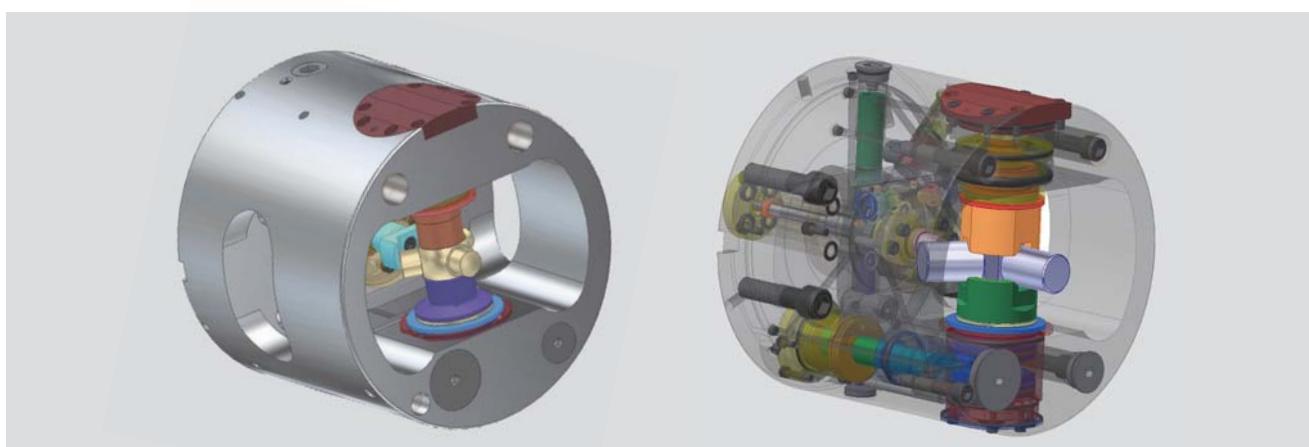
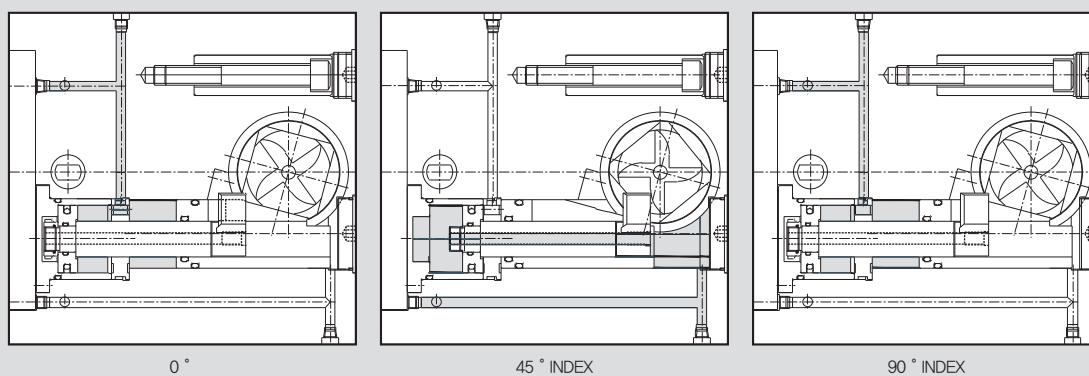


DIMENSIONS

	IAN-235	IAN-254	IAN-280
ΦA	235	254	280
B	172	198	211
ΦC(h7)	170	220	220
D	102	112	125
E	16	16	16
F	M12	M16	M16
G	30	42	42
ΦH	206	228	250
J	188	214	227
K	42.5	45	58
L	54.5	57	70
M	15	17	17
R	133.4	171.4	171.4

SPECIFICATIONS

	IAN-235	IAN-254	IAN-280
Clamp Piston Area [cm ²]	30	43	43
Max. Pressure [kgf·m ²]	45	45	45
Max. Speed [r.p.m.]	3000	2500	2300
Weight [kg]	32	45	55
GD2 [kgf·m ²]	0.27	0.47	0.88



Work Pieces



PHD Outside Pull-Down Chuck



Application / Benefits

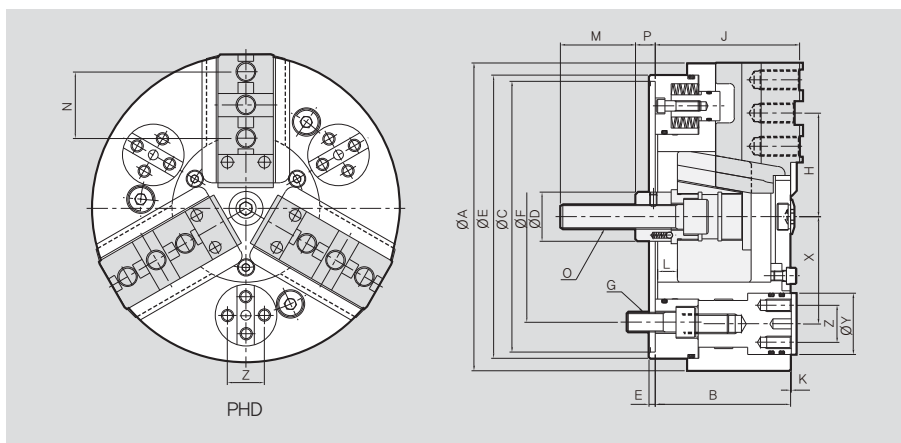
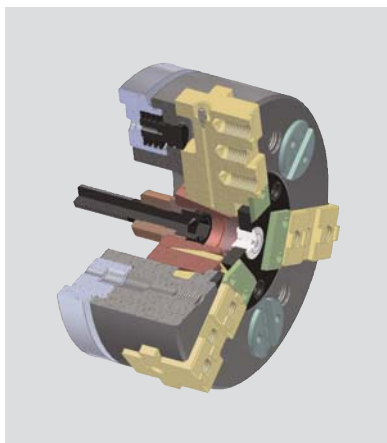
TOD clamping chuck ideal for parts with small gripping surfaces.
High accuracy to hold parallel and perpendicular tolerances.

Technical features

Chuck will center the workpiece, then chuck body will pull back to locate workpiece on fixed locator stop(s)

SPECIFICATIONS

	PHD-200	PHD-250	PHD-300	PHD-380
Max. Clamping Force [kgf]	8100	11000	13500	16500
Max. Drawbar Pull [kgf]	3000	4000	5000	6000
Jaw Stroke Dia. [mm]	8.5	10.5	12	12
Plunger Stroke [mm]	24	30	34	34
Stop Traction [kgf]	200	300	300	450
Max. Speed [r.p.m.]	3500	3000	2500	200
Weight [kg]	21	37	54	95



DIMENSIONS

	PHD-200	PHD-250	PHD-300	PHD-380
ΦA	200	250	300	380
B	105	115	123	135
ΦC(h7)	170	220	220	300
ΦD	40	40	50	50
ΦE	5	5	5	5
ΦF	133.4	171.4	171.4	235
G	M12	M16	M16	M20
Hmax.	71.5	87	105	133.5
Hmin.	67.3	81.7	99	127.5
J	107	117	125	137
K	1	1	1	1
Lmax.	34	34	34	34
Lmin.	10	4	5	16
M	52	60	60	60
N	44.5	54	63.5	76.2
O	M20	M20	M24	M24
Pmax.	25	31	30	19
Pmin.	1	1	-4	-15
X	70	87	108	130
ΦY	42	50	68	80
Z	24	30	40	54

PHDN

Inside Pull-Down Chuck



Application / Benefits

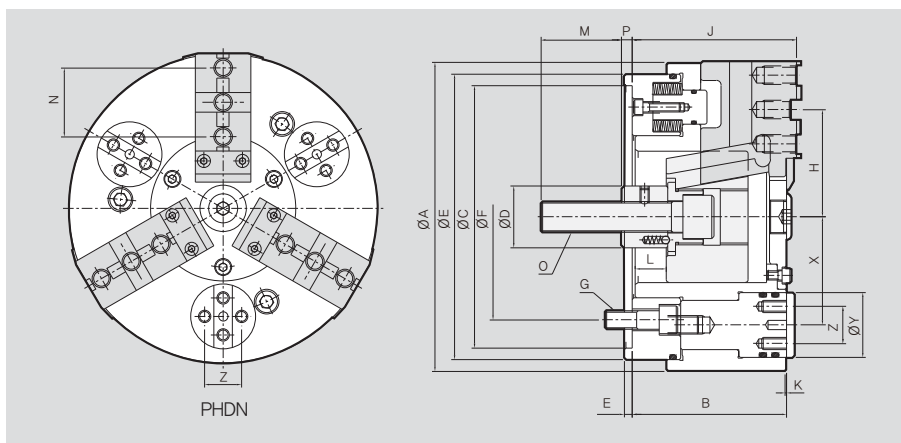
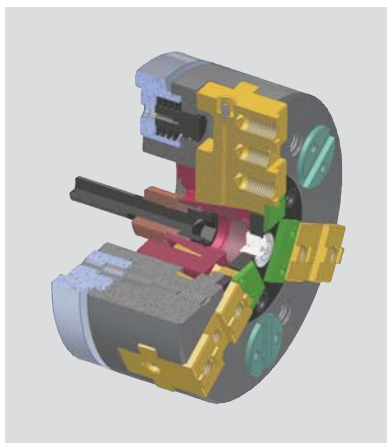
ID clamping chuck ideal for parts with small gripping surfaces
High accuracy to hold parallel and perpendicular tolerances

Technical features

Chuck will center the workpiece, then chuck body will pull back to locate workpiece on fixed locator stop(s).

SPECIFICATIONS

	PHDN-200	PHDN-250	PHDN-300	PHDN-380
Max. Clamping Force [kgf]	8100	11000	13500	16500
Max. Drawbar Pull [kgf]	3000	4000	5000	6000
Jaw Stroke Dia. [mm]	8.5	10.5	12.0	12.0
Plunger Stroke [mm]	24	30	34	34
Stop Traction [kgf]	200	300	300	450
Max. Speed [r.p.m.]	3500	3000	2500	200
Weight [kg]	21	37	54	95



DIMENSIONS

	PHDN-200	PHDN-250	PHDN-300	PHDN-380
ΦA	200	250	300	380
B	105	115	123	135
ΦC(h7)	170	220	220	300
ΦD	40	40	50	50
ΦE	5	5	5	5
ΦF	133.4	171.4	171.4	235
G	M12	M16	M16	M20
Hmax.	71.5	87	105	133.5
Hmin.	67.3	81.7	99	127.5
J	107	117	125	137
K	1	1	1	1
Lmax.	34	34	39	50
Lmin.	10	4	5	16
M	52	60	60	60
N	44.5	54	63.5	76.2
O	M20	M20	M24	M24
Pmax.	15	24	23	19
Pmin.	-9	-6	-11	-15
X	70	87	108	130
ΦY	42	50	68	80
Z	24	30	40	54

RS Retractable-Jaw Shaft Chuck



Application / Benefits

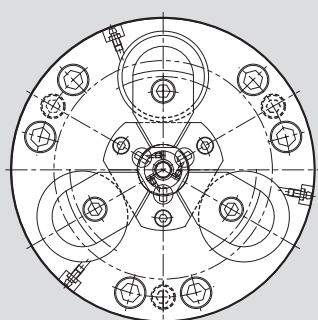
Machining of shafts with 1 setup

Technical features

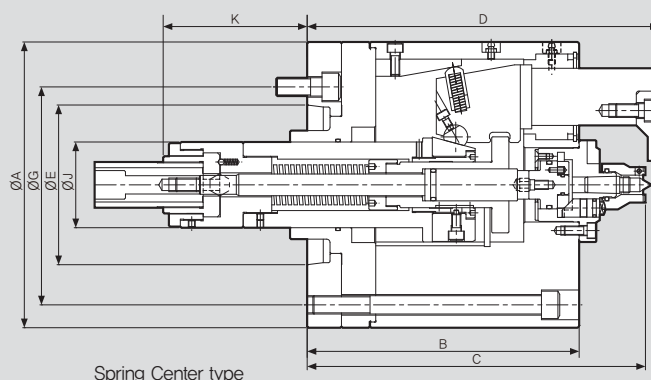
Jaws clamp on shaft during OD and facing operation.
Jaws then retract and face driver engaged to finish OD.
Requires dual piston cylinder

SPECIFICATIONS

		RS-200	RS-250	RS-300
Max. Clamping Force [kgf]		4000	6500	10000
Max. Drawbar Pull [kgf]		3800	6000	8000
Clamping Range [mm]	Chuck	18~80	25~110	40~140
	Face Driver	12~70	12~100	30~130
Max. Speed [r.p.m.]		4000	3500	2500
Weight [kg]		35	60	100
GD2 [kgf·m ²]		0.19	0.79	1.35



IAH



Spring Center type

DIMENSIONS

	RS-200	RS-250	RS-300
ΦA	200	250	300
Bmax.	164	205	205
Bmin.	139	173.5	173.5
C	192	240	240
Dmin.	205	252.5	252.5
Dmin.	190	221	221
ΦE	106.375	139.719	139.719
ΦG	133.4	171.4	171.4
H	3xM12	3xM16	3xM16
ΦJ	50	60	80
Kmax.	96.5	109.5	114.5
Kmin.	58.5	62.5	67.5
L	M16	M20	M24
M	30	45	50
Pmax.	41.5	49.5	49.5
Pmin.	3.5	2.5	25
Q	M34x0.5	M40x0.5	M50x0.5
R	30	35	40
Smax.	92	105	110
Smin.	82	95	100
T	12.5	16.5	13.5
U	10	10	10
V	M12	M16	M16
W	30	37	37

CSF Compensating Chuck



Application / Benefits

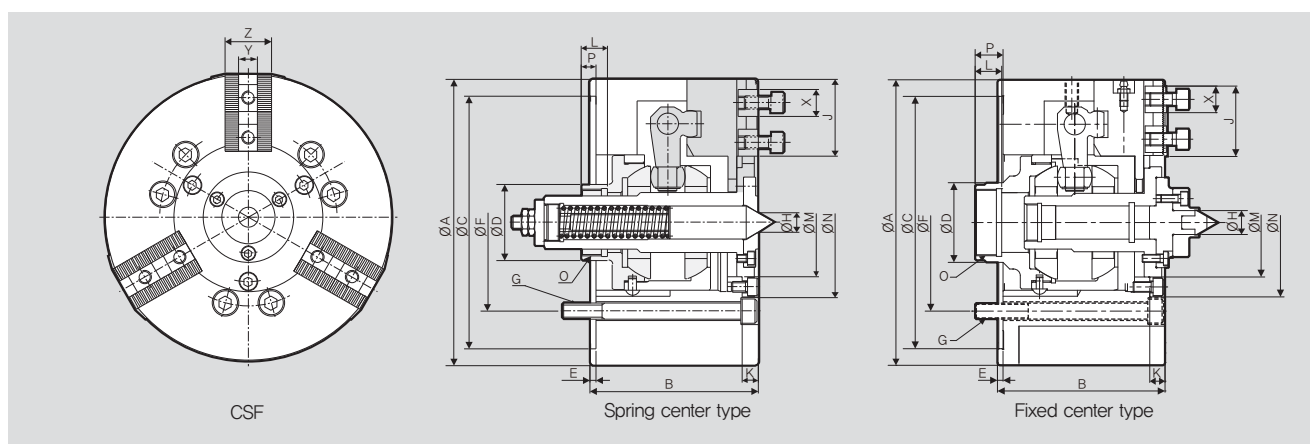
A spherical bearing enables the jaws to compensate for high-precision work on rounded surfaces

Technical features

Jaws float on spherical bearing to determined clamping points
Spring or fixed center available, All three jaws apply constant gripping force

SPECIFICATIONS

	CSF-07	CSF-08	CSF-12
Static Clamping force [kgf]	2600	3200	4400
Max. Drawbar Pull [kgf]	1500	2100	2700
Jaw Stroke Dia. [mm]	16	20	25
Plunger Stroke [mm]	20	25	30
Min. Chucking Dia. [mm]	20	25	30
Max. Runout Dia. [mm]	4	4	6
Max. Speed [r.p.m.]	4000	3200	2000
Spring Force [kgf]	45	52	106
Weight [kg]	15	28	58
GD2 [kgf·m ²]	0.25	0.8	3.13



DIMENSIONS

	CSF-07	CSF-08	CSF-12
ΦA	170	215	280
B	99	126.2	154.7
ΦC(h7)	140	190	255
ΦD	42	57	72
ΦE	4	4.2	5.7
ΦF	104.8	133.4	171.4
G	3-M10	6-M12	6-M16
ΦH	11	15	20
J	45	57.5	72
K	11	13	17
L	20	20	26
ΦM	65	82	110
ΦN	86	112.1	142.2
O	M34xP1.5	M50xP1.5	M60xP1.5
Pmax.	28.2	34	44
Pmin.	8.2	9	14
X	16	20	26
Y	11	14	20
Z	28	35	45

FWC Aluminum Wheel Chuck

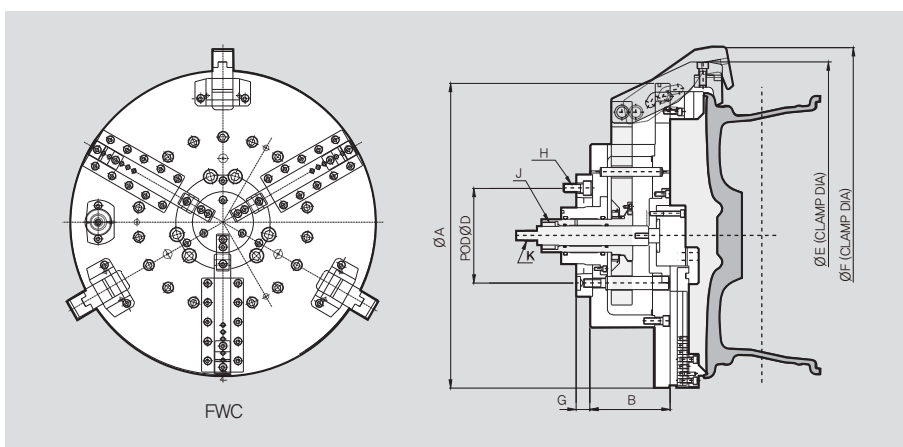
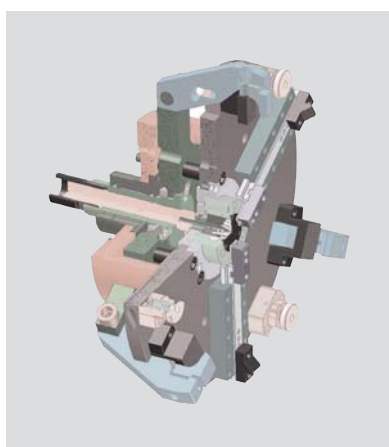


Application / Benefits

Ideal for machining the aluminum wheels used on cars and motorcycles
Improving the productivity with lower weight and moment of inertia(GD^2)

Technical features

Finger clamping type of cam arm structure has strong clamping force.
Lower weight increases efficiency and reduces down time.



DIMENSIONS

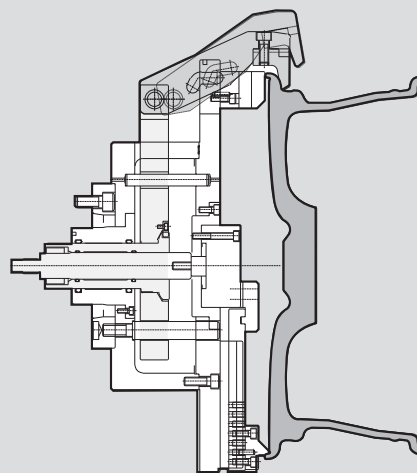
JAW		A	B	C	D	
FWC-300	Cam Arm	S	12	13	14	15
		M	13	14	15	16
		L	14	15	16	17
		XL	15	16	17	18
JAW		A	B	C	D	
FWC-310	Cam Arm	S	13	14	15	16
		M	14	15	16	17
		L	15	16	17	18
		XL	16	17	18	19
		XXL	17	18	19	20
JAW		A	B	C	D	
FWC-320	Cam Arm	S	17	18	19	20
		M	18	19	20	21.5
		L	19	20	21.5	22.5

	FWC-300	FWC-310	FWC-320
ΦA	495	550	660
B	139.7	145	199.5
C(h6)	139.719	196.87	196.87
ΦD	171.45	235	235
E	Flexible	Flexible	Flexible
F	Flexible	Flexible	Flexible
G	25	35	35
H	M16	M20	M20
J	M42	M42	M42
K	M24	M24	M24

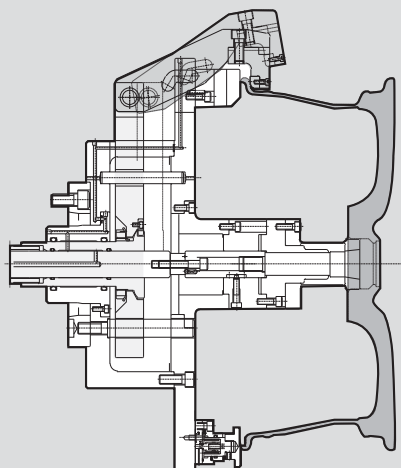
SPECIFICATIONS

	FWC-300	FWC-310	FWC-320
Max. Clamping Force [kgf]	970	970	970
Max. Drawbar Pull [kgf]	3000	3000	3000
Jaw Stroke Dia. [mm]	27	27	27
Plunger Stroke [mm]	35	35	35
Wheel Size Range [inch]	12~18	13~20	17.5~24.5
Max. Speed [r.p.m.]	2800	2200	1800
Weight [kg]	120	160	240
GD2	2.4	3.5	7.5

	FWC-300	FWC-310	FWC-320
Wheel Size [inch]	12"	O	
	13"	O	O
	14"	O	O
	15"	O	O
	16"	O	O
	17"	O	O
	18"	O	O
	19"	O	O
	20"	O	O
	21.5"		O
	22.5"		O



(OP#10)



(OP#20)