

FEATURES

- Rolling contacts minimize mechanical wear and maintain contact point precision.
- Zero-backlash technology simultaneously achieves high precision, powerful torque, and high rigidity.
- RollerDrive uses dedicated high-rigidity rollers and is very resistant to impact.
- RollerDrive enables continuous heavy-duty cutting of ferrous metals. Ideal for high-precision machining of complex parts

RollerDrive is an orthogonal reducer which transmits rotation from spirally-arranged ribs on the input axis to multiple roller followers arranged radially on the output axis through roller contacts between the axes.

The wedge-shaped ribs on the input axis are preloaded against the roller followers to **completely eliminate backlash**. The preload can be adjusted using the adjusting mechanism on the input axis.

Cross Roller

A high-rigidity cross roller bearing with extremely small runout is built into the output section.

Large-diameter hollow output

This configuration facilitates wiring and piping and broadens the design possibilities: it is, for example, possible to pass the shaft of other equipment through the hole of the output axis.

The Ultimate Solution for Rotary Motion

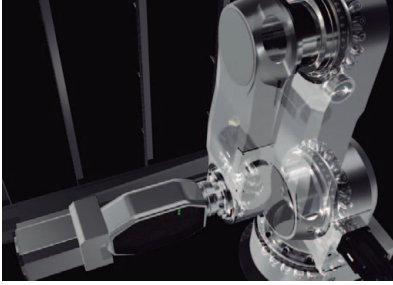
RollerDrive

COMPONENT

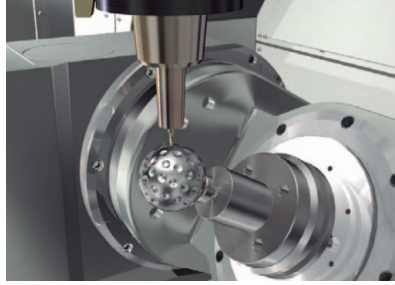
Japan Technology

APPLICATIONS

Robot Joint



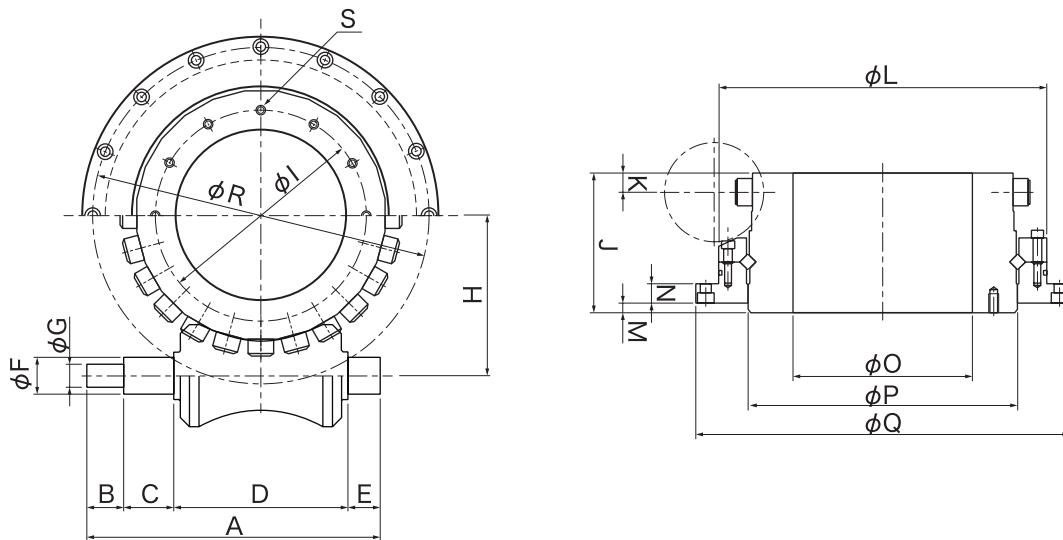
Rotary Axis for Milling



Positioners for Automation, etc.



DIMENSIONS



Unit: [mm]

Type	C055B	C070B	C080B	C090B	C100B	C110B	C123B	C175B	C200B	C245B	C290B	C410B	C450B
A	115	156	162	172	182	197	222	316	351	435	475	540	550
B	20	20	20	20	20	20	20	20	20	30	30	30	30
C	20	34	34	34	34	35	55	65	70	90	90	80	80
D	60	84	90	100	110	122	127	196	226	270	305	380	390
E	15	18	18	18	18	20	20	35	35	45	50	50	50
F	15k5	20k5	20k5	20k5	20k5	25k5	25k5	40k5	45k5	45k5	60k5	60k5	60k5
G	12h7	15h7	15h7	15h7	15h7	20h7	20h7	30h7	35h7	35h7	50h7	50h7	50h7
H	55	70	80	90	100	110	123	175	200	245	290	410	450
I	50	84	90	100	130	140	160	230	260	315	410	610	670
J	63	82	83	87	90	95	104	145	145	195	202	210	210
K	8	10	10	12	12	14	20	20	25	35	35	40	40
L	97h6	135h6	150h6	160h6	190h6	210h6	229h6	340h6	360h6	450h6	565h6	780h6	840h6
M	10	10	10	10	10	10	10	10	10	10	10	10	10
N	9	12	15	15	19	20	20	20	20	25	41	48	48
O	40	50	70	70	80	80	130	150	180	280	340	530	630
P	68.5	97.5	108	118	147.5	167.5	191	280	297	350	470	670	740
Q	119	159.5	175	189	219	238	279	388	400	505	615	830	890
R	108	147	162	173	203	223	263	367	378	480	590	805	865
S	6-M5	8-M6	8-M6	8-M8	8-M8	8-M8	8-M10	12-M10	12-M12	12-M12	12-M16	12-M16	12-M16

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