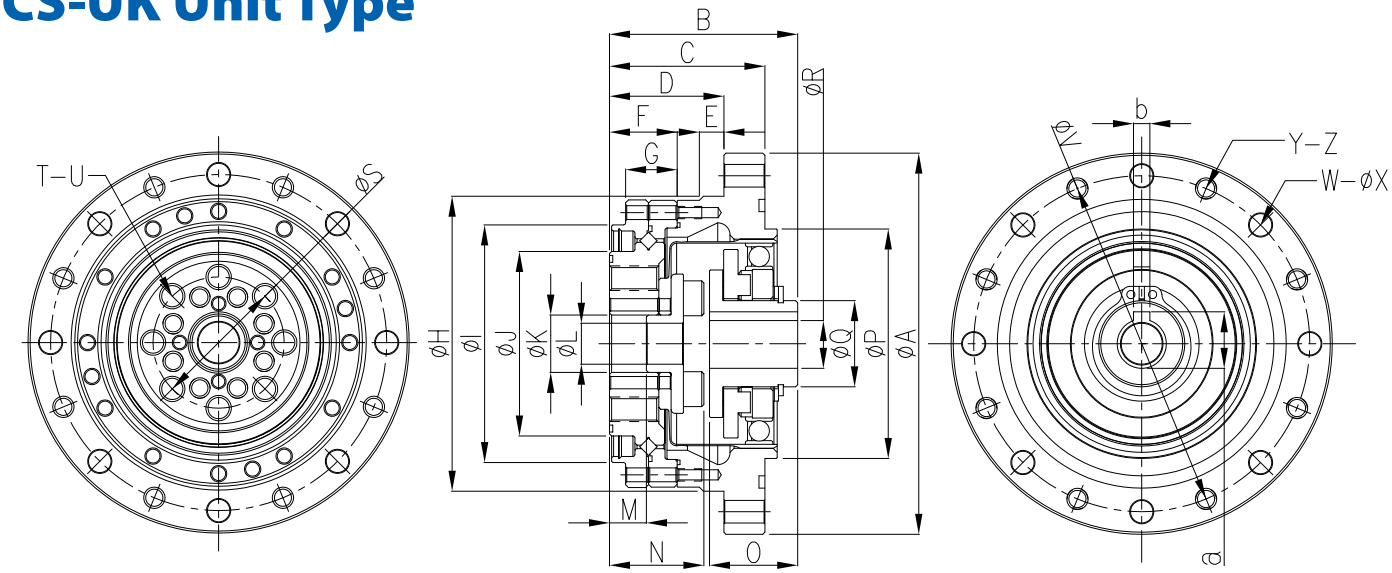
DIEQUA Corporation

FEATURES

- Zero Backlash
- Peak Torque: 46 Nm to 892 Nm
- Accuracy <l arc-min, excellent repeatability
- Reduction ratios 50:1 to 120:1
- High torsional stiffness & high torque density
- Robust cross roller output bearing
- High reliability and long service life

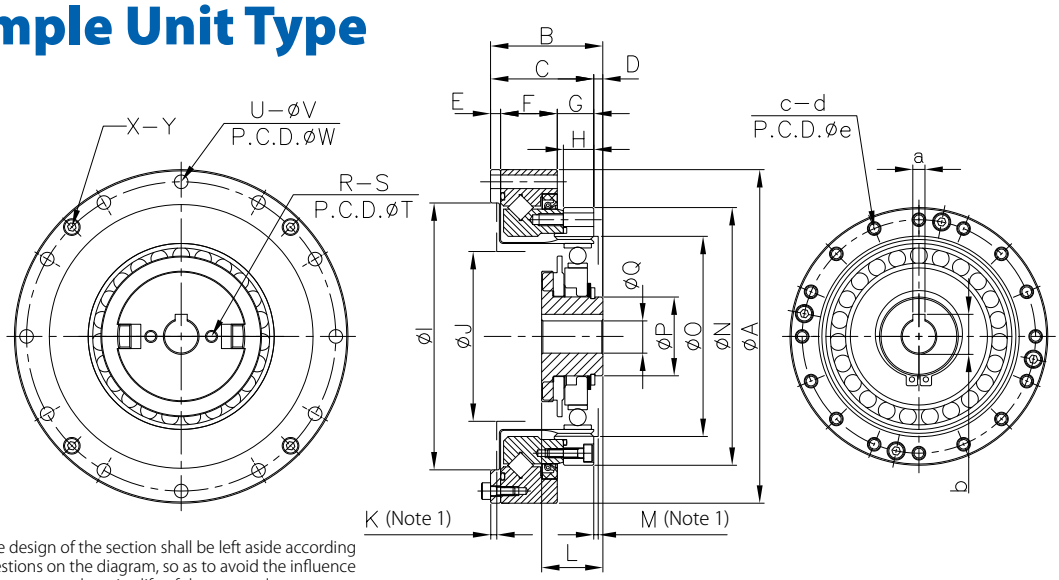
FLEXSPLINE ROBOTIC GEAR REDUCERS

SCS-UK Unit Type



SCS-□-■-UK (mm)					
Dimensions \ Size	14	17	20	25	32
ϕA	73	79	93	107	138
B	41	45	45.5	52	62
C	34	37	38	46	57
D	27	29	28	36	45
E	3.5	4.5	6	6	6
F	16.5	16.5	16.5	18.5	22.5
G	12	12	12	14	17
ϕH	56	63	72	86	113
ϕI	42.5	49.5	58	73	96
ϕJ	31	38	45	58	78
ϕK	11	10	14	20	26
ϕL	8	6	10	15	20
M	9.4	9.5	9	12	15
N	21.4	23.5	23	29	37
O	18.5	20.7	21.5	21.6	23.6
ϕP	38	48	56	67	90
ϕQ	14	18	21	26	26
ϕR	6	8	12	14	14
ϕS	23	27	32	42	55
T	6	6	8	8	8
U	M4	M5	M6	M8	M10
ϕV	65	71	82	96	125
W	8	8	8	10	12
ϕX	4.5	4.5	5.5	5.5	6.6
Y	8	8	8	10	12
Z	M4	M4	M5	M5	M6
a	-	-	13.8	16.3	16.3
b	-	-	4	5	5
set screw	2-M3	2-M3	-	-	-

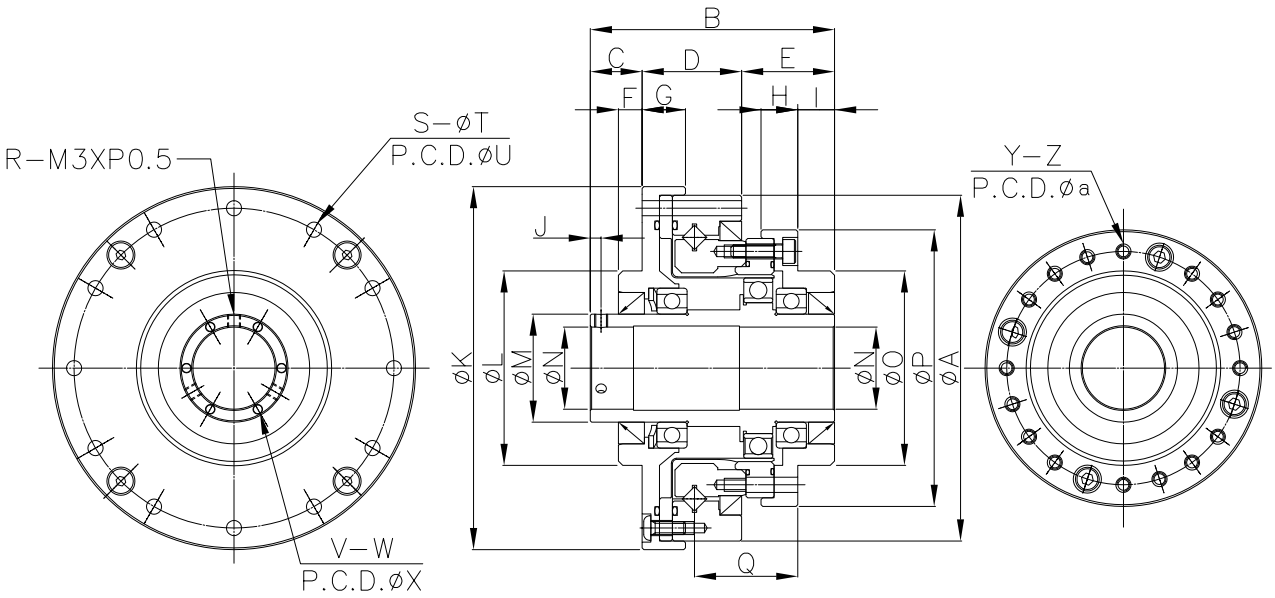
SSH-UK Simple Unit Type



Note 1: The structure design of the section shall be left aside according to the suggestions on the diagram, so as to avoid the influence on the performance and service life of the gear reducer.

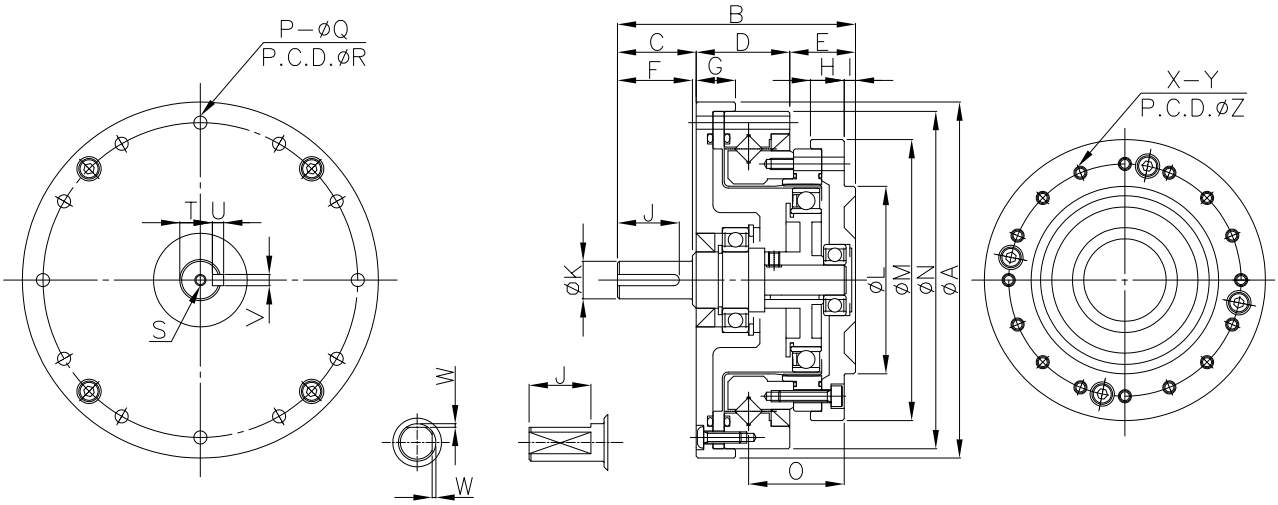
SSH-□-■-SK (mm)					
Dimensions \ Size	14	17	20	25	32
ϕA	70	80	90	110	142
B	28.5	32.5	33.5	37	44
C	23.5	26.5	29	34	42
D	5	6	4.5	3	2
E	2.4	3	3	3.3	3.6
F	14.1	16	17.5	18.7	23.4
G	7	7.5	8.5	12	15
H	6	6.5	7.5	10	14
ϕI	48	60	70	88	114
ϕJ	32	38	45	56	75
K	1.5	2	1.8	2	2
L	17.6	19.5	20.1	20.2	22
M	1	1	1.5	1.5	1.5
ϕN	50	60	70	85	110
ϕO	37	45	53	66	86.5
ϕP	14	18	21	26	26
ϕQ	8	8	11	11	14
R	-	-	2	2	-
S	-	-	M3	M4	-
ϕT	-	-	16	20	-
U	8	12	12	12	12
ϕV	3.5	3.5	3.5	4.5	5.5
ϕW	64	74	84	102	132
X	2	4	4	4	4
Y	M3	M3	M3	M3	M4
a	-	-	4	4	5
b	-	-	12.8	12.8	16.3
c	8	16	16	16	16
d	M3	M3	M3	M4	M5
ϕe	44	54	62	77	100
set screw	2-M3	2-M3	-	-	-

SSH-UH Hollow Unit Type



SSH-□-■-UH (mm)					
Size / Dimensions	14	17	20	25	32
øA	70	80	90	110	142
B	52.5	56.5	51.5	55.5	65 5
C	12	12	5	6	7
D	20.5	23	25	26	32
E	20	21.5	21.5	23.5	26.5
F	5.5	5.5	-	-	-
G	9	10	10.5	10.5	12
H	8	8.5	9	8.5	9.5
I	7.5	8.5	7	6	5
J	2.5	2.5	-	-	-
øK	74	84	95	115	147
øL	36	45	-	-	-
øM	20	25	30	38	45
øN	14	19	21	29	36
øO	36	45	50	60	85
øP	54	64	75	90	115
Q	21.7	23.9	25.5	29.6	36.4
R	3	3	-	-	-
S	8	12	12	12	12
øT	3.5	3.5	3.5	4.5	5.5
øU	64	74	84	102	132
V	-	-	6	6	6
W	-	-	M3×6	M3×6	M3×6
øX	-	-	25.5	33.5	40.5
Y	8 of 12 divides	16 of 20 divides	16	16	16
Z	M3×5	M3×6	M3×6	M4×7	M5×8
øa	44	54	62	77	100

SSH-US Input Shaft Unit Type



SSH-□-■-US (mm)					
Size / Dimensions	14	17	20	25	32
øA	74	84	95	115	147
B	50.5	56	63.5	72.5	84.5
C	15	17	21	26	26
D	20.5	23	25	26	32
E	15	16	17.5	20.5	26.5
F	14	16	20	25	25
G	9	10	10.5	10.5	12
H	8	8.5	9	8.5	9.5
I	2.5	3	3	3	5
J	11	12	16.5	22.5	22.5
øK	6	8	10	14	14
øL	36	45	50	60	85
øM	54	64	75	90	115
øN	70	80	90	110	142
O	11	12	16.5	22.5	22.5
P	8	12	12	12	12
øQ	3.5	3.5	3.5	4.5	5.5
øR	64	74	84	102	132
S	-	-	M3×6	M5×10	M5×10
T	-	-	8.2	11	11
U	-	-	3	5	5
V	-	-	3	5	5
W	0.5	0.5	-	-	-
X	8 of 12 divides	16 of 20 divides	16	16	16
Y	M3×5	M3×6	M3×6	M4×7	M5×8
øZ	44	54	62	77	100

Notes

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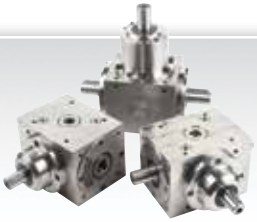
ABOUT DIEQUA

Founded in 1980 by Dietmar Quaas, and now owned by his sons, DieQua Corporation has expanded from a single product line to become a leading manufacturer and supplier of an extensive line of high-quality power transmission and precision motion control products, including gearboxes, servo gearheads, screw jack systems, speed reducers, cycloidal reducers, and connecting components. The company also offers custom product modifications and complete design solutions for virtually any application. DieQua Corporation serves a wide range of industries, including medical and health care, marine engineering, renewable energy, mining, transportation, steel, forestry and lumber, water and wastewater, automotive, and factory automation, to name a few.

An experienced and knowledgeable technical sales, customer service, and engineering support staff, as well as local distributors, ensure that DieQua customers in North America, Mexico and South America select the optimum components, systems, and best design solutions for their specific requirements.

The DieQua family of products



Spiral Bevel Gearboxes

Servo Gearheads

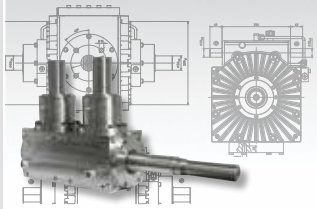
Cycloidal Reducers & Positioners

Screw Jack Systems

Helical Speed Reducers

Speed Modulating Gearboxes

Zero Backlash Couplings and Line Shafts



Custom Designs

The DieQua Advantage

Engineering Support

DieQua Corporation has several decades of combined experience specifying power transmission and motion control components. This assures proper selection of components and systems to suit your unique requirements.

Warehousing

We pride ourselves for our extensive in-stock inventory. For fast product turnaround, DieQua Corporation stocks many components of various ratios and sizes, ready to ship fast.

Manufacturing and Assembly

DieQua Corporation now manufactures or assembles most of the products, for on-time delivery of standard orders as well as prototypes. We are ISO 9001 certified and are constantly improving our quality systems to ensure our customers receive the best products.

DIEQUA Corporation

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