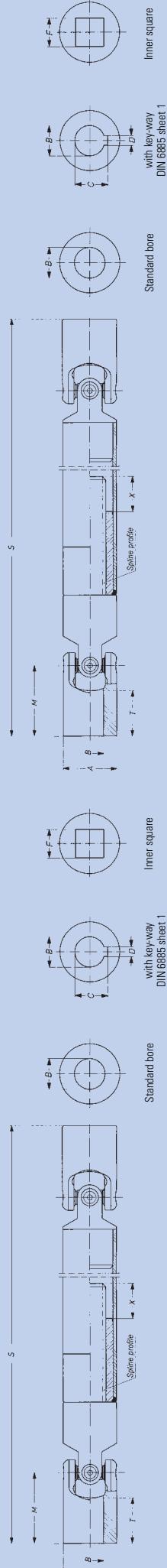


## Precision Cardan Shafts

## Series 0.600.1

## Size 0.616–0.663

Needle bearing version, with length compensation



Please indicate compressed length „S“, extension and required type of flange when ordering!

### Precision Cardan Shafts, Standard bore

Order number	0.616.100	0.620.100	0.625.100	0.632.100	0.640.100	0.650.100	0.663.100	0.616.103	0.620.103	0.625.103	0.632.103	0.640.104	0.650.104	0.663.104
Md <sub>max</sub>	Nm	6	15	20	40	80	120	250	6	15	20	40	80	120
Angle of deflection S	°	45	45	45	45	45	45	45	45	45	45	45	45	45
Weight by S <sub>1</sub>	kg	0.20	0.33	0.59	1.09	2.13	4.0	8.25	0.20	0.33	0.59	1.09	2.13	4.0
Weight by S <sub>2</sub>	kg	0.24	0.39	0.68	1.21	2.28	4.44	8.75	0.24	0.39	0.68	1.21	2.28	4.44
Weight by S <sub>3</sub>	kg	0.26	0.42	0.72	1.35	2.57	4.98	9.70	0.26	0.42	0.72	1.35	2.57	4.98
A	mm	16	20	25	32	40	50	63	16	20	25	32	40	50
*B <sup>17</sup>	mm	10	12	16	20	25	32	40	10	12	16	20	25	32
*C <sup>42</sup>	mm	—	—	—	—	—	—	—	—	—	—	—	—	—
*D <sup>48</sup>	mm	—	—	—	—	—	—	—	5	6	8	10	12	—
*F <sup>48</sup>	mm	—	—	—	—	—	—	—	—	—	—	—	—	—
M	mm	26	31	37	43	54	66	83	26	31	37	43	54	66
S <sub>1</sub> +X <sub>1</sub>	mm	165+15	174+20	198+25	234+30	301+40	372+50	475+70	165+15	174+20	198+25	234+30	301+40	372+50
S <sub>2</sub> +X <sub>2</sub>	mm	185+30	194+40	228+55	264+60	321+60	422+100	505+100	185+30	194+40	228+55	264+60	321+60	422+100
S <sub>3</sub> +X <sub>3</sub>	mm	210+60	224+70	248+75	294+90	371+110	472+150	565+180	210+60	224+70	248+75	294+90	371+110	472+150
T	mm	15	18	22	25	32	40	50	15	18	22	25	32	40
Spine profile	mm	6x7,5x10,2	6x11x14	6x11x14	6x16x20	6x21x25	6x28x32	6x36x42	6x7,5x10,2	6x11x14	6x16x20	6x21x25	6x28x32	6x36x42

These drive shafts are also available with rapid-change coupling.

\* = Customized bores, key-way and inner square dimensions possible

Md<sub>max</sub> = Max. permissible torque

S<sub>1</sub> = Max. angle of deflection per joint

S<sub>2</sub> = preferred lengths, compressed

S<sub>3</sub> = Maximum extension for S<sub>1</sub>

X<sub>1</sub> = Maximum extension for S<sub>2</sub>

X<sub>2</sub> = Maximum extension for S<sub>3</sub>

For application criteria and calculations refer to technical annex

Precision Cardan Joints

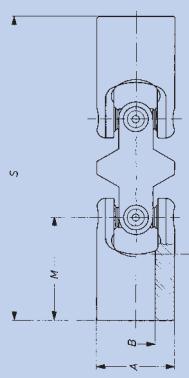
Series 0.600

elso

## Precision Cardan Joints

double, DIN 808, Needle bearing version

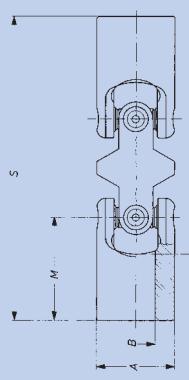
## Series 0.600.3



Standard bore

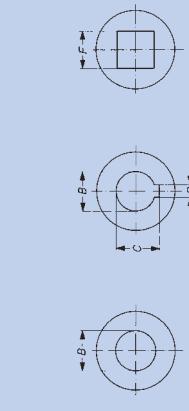
Inner square

DIN 6885 sheet 1



Standard bore

with key-way  
DIN 6885 sheet 1

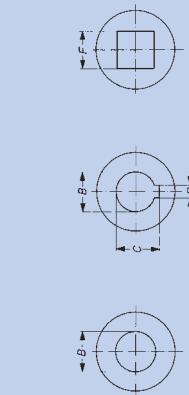


Inner square

with key-way  
DIN 6885 sheet 1

## Md<sub>max</sub> 6–250 Nm

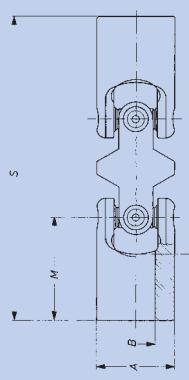
## Size 0.616–0.663



Standard bore

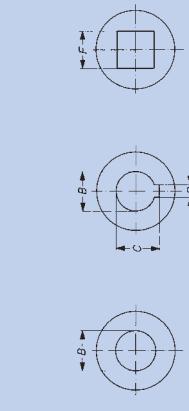
Inner square

DIN 6885 sheet 1



Standard bore

with key-way  
DIN 6885 sheet 1



Inner square

with key-way  
DIN 6885 sheet 1

### Precision Cardan Shafts, Standard bore

Order number	0.616.300	0.620.300	0.625.300	0.632.300	0.640.300	0.650.300	0.663.300	0.676.300	0.690.303	0.696.303	0.663.303	0.663.303	0.663.303	0.663.303	0.663.304	0.663.304	0.663.304	0.663.304	
Md <sub>max</sub>	Nm	6	15	20	40	80	120	250	6	15	20	40	80	120	250	6	15	20	40
Angle of deflection $\delta$	°	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
Weight	kg	0.08	0.14	0.24	0.50	0.95	1.71	3.06	0.08	0.14	0.24	0.50	0.95	1.71	3.06	0.08	0.14	0.24	0.50
A	mm	16	20	25	32	40	50	63	16	20	25	32	40	50	63	16	20	25	32
*B <sub>17</sub>	mm	10	12	16	20	25	32	40	10	12	16	20	25	32	40	—	—	—	—
*C <sub>12</sub>	mm	—	—	—	—	—	—	—	—	—	11.4	13.8	18.3	22.8	28.3	35.3	43.3	—	—
*D <sub>18</sub>	mm	—	—	—	—	—	—	—	—	—	3	4	5	6	8	10	12	—	—
*F <sub>18</sub>	mm	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8	10	12	16
M	mm	26	31	37	43	54	66	83	26	31	37	43	54	66	83	26	31	37	43
S	mm	74	88	104	124	156	188	238	74	88	104	124	156	188	238	74	88	104	124
T	mm	15	18	22	25	32	40	50	15	18	22	25	32	40	50	15	18	22	25

\* = Customized bores, key-way and inner square dimensions possible

Md<sub>max</sub> = Max. permissible torque

$\delta$  = Max. angle of deflection per joint

For application criteria and calculations refer to technical annex

0.600

### Precision Cardan Shafts, Inner square

Order number	0.625.303	0.632.303	0.640.304	0.650.304	0.663.303	0.676.303	0.690.304	0.696.304	0.663.304	0.663.304	0.663.304	0.663.304	0.663.304	0.663.304	0.663.304	0.663.304	0.663.304	0.663.304	
Md <sub>max</sub>	Nm	20	40	80	120	250	6	15	20	40	80	120	250	6	15	20	40	80	120
Angle of deflection $\delta$	°	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
Weight	kg	0.24	0.50	0.95	1.71	3.06	0.08	0.14	0.24	0.50	0.95	1.71	3.06	0.08	0.14	0.24	0.50	0.95	1.71
A	mm	25	32	40	50	63	16	20	25	32	40	50	63	16	20	25	32	40	50
*B <sub>17</sub>	mm	—	—	—	—	—	16	20	25	32	40	50	63	—	—	—	—	—	—
*C <sub>12</sub>	mm	—	—	—	—	—	18.3	22.8	28.3	35.3	43.3	—	—	—	—	—	—	—	—
*D <sub>18</sub>	mm	—	—	—	—	—	5	6	8	10	12	—	—	—	—	—	—	—	—
*F <sub>18</sub>	mm	—	—	—	—	—	—	—	—	—	—	8	10	12	16	20	25	32	32
M	mm	37	43	54	66	83	26	31	37	43	54	66	83	26	31	37	43	54	66
S	mm	104	124	156	188	238	74	88	104	124	156	188	238	74	88	104	124	156	188
T	mm	22	25	32	40	50	15	18	22	25	32	40	50	15	18	22	25	32	40

0.600





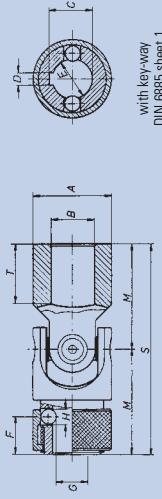
## Precision Cardan Joints

## Series 0.600.42

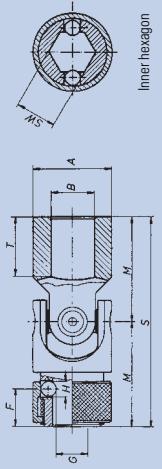
## Size 0.616–0.663

## Md<sub>max</sub> 6–250 Nm

single, with rapid-change coupling, DIN 808, Needle bearing version



with key-way  
DIN 808 sheet 1



Inner hexagon

### Precision Cardan Joints, with rapid-change coupling, Bore with key-way DIN 6885, Sheet 1

Order number	0.616.423	0.620.423	0.625.423	0.632.423	0.640.423	0.650.423	0.663.423	0.616.426	0.620.426	0.625.426	0.632.426	0.640.426	0.650.426	0.663.426
Md <sub>max</sub>	Nm	6	15	20	40	80	120	20	40	45	45	45	45	45
Angle of deflection $\beta$	°	45	45	45	45	45	45	45	45	45	45	45	45	45
Weight	kg	0.05	0.10	0.16	0.31	0.61	1.15	1.90	0.05	0.10	0.16	0.31	0.61	1.15
A	mm	16	20	25	32	40	50	63	16	20	25	32	40	63
*B <sup>17</sup>	mm	8	10	14	16	20	25	30	8	10	14	14	16	20
*C <sup>12</sup>	mm	9	11	15.3	17.3	21.7	26.7	31.7	—	—	—	—	—	—
*D <sup>18</sup>	mm	2	3	5	6	8	8	8	—	—	—	—	—	—
*E <sup>17</sup>	mm	8	10	14	16	20	25	30	—	—	—	—	—	—
F <sub>18</sub>	mm	9.5	11.5	13.5	14	19	20.5	25	9.5	11.5	13.5	14	19	20.5
G	mm	7	8.7	13	14.8	18	23	28	6.3	8	13	10.5	14.8	18
H	mm	3.5	4	4	6.35	8	10	10	3.5	4	4	4	6.35	8
M	mm	26	31	37	43	54	66	83	26	31	37	43	54	66
S	mm	52	62	74	86	108	132	166	52	62	74	86	108	132
*SW	mm	—	—	—	—	—	—	—	7.2	9.06	14.04	11.15	16	20
T	mm	15	18	22	25	32	40	50	15	18	22	25	32	40

\* = Customized bores, key-way and inner hexagon dimensions possible  
Md<sub>max</sub> = Max. permissible torque  
 $\beta$  = Max. angle of deflection per joint  
For application criteria and calculations refer to technical annex



There are application examples in which frequent removal of the universal joint shaft or the joint from the drive or the output shaft is required.

In this case the use of a rapid-change coupling allows to change the shaft within very short time. This is done manually without any tools.

Torque transmission is ensured via a hexagonal profile or a feather key. Two steel balls which grip into a circular groove at the shaft connection provide axial locking of the shaft.

## Precision Cardan Joints

## Size 0.616–0.663

## Md<sub>max</sub> 6–250 Nm

### Precision Cardan Joints, with rapid-change coupling, Inner hexagon

Order number	0.616.426	0.620.426	0.625.426	0.632.426	0.640.426	0.650.426	0.663.426
Md <sub>max</sub>	Nm	6	15	20	40	80	120
Angle of deflection $\beta$	°	45	45	45	45	45	45
Weight	kg	0.05	0.10	0.16	0.31	0.61	1.15
A	mm	16	20	25	32	40	63
*B <sup>17</sup>	mm	8	10	14	16	20	30
*C <sup>12</sup>	mm	9	11	15.3	17.3	21.7	31.7
*D <sup>18</sup>	mm	2	3	5	6	8	8
*E <sup>17</sup>	mm	8	10	14	16	20	30
F <sub>18</sub>	mm	9.5	11.5	13.5	14	19	20.5
G	mm	7	8.7	13	14.8	18	23
H	mm	3.5	4	4	6.35	8	10
M	mm	26	31	37	43	54	66
S	mm	52	62	74	86	108	132
*SW	mm	—	—	—	—	—	—
T	mm	15	18	22	25	32	40