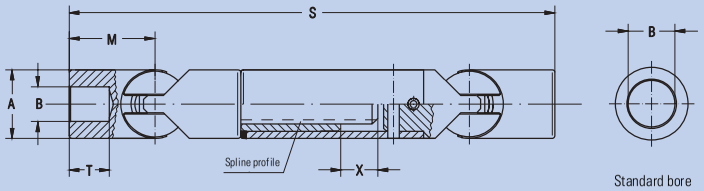
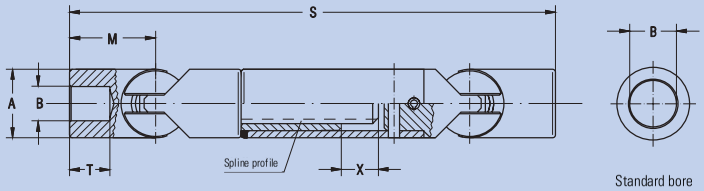
double, with length compensation, Standard bore





When ordering, please indicate compressed length and extension!

Ball and Socket Shafts, double, Standard bore

Order number		0.820.100	0.824.100	0.828.100	0.832.100	0.836.100	0.840.100	0.845.100
Md_{max}	Nm	20	30	50	60	120	160	200
Angle of deflection ß	°	35	35	35	35	35	35	35
Weight by S_1	kg	0,32	0,50	0,78	1,10	1,58	2,17	2,92
Weight by S_2	kg	0,36	0,58	0,85	1,22	1,72	2,28	3,38
Weight by S_3	kg	0,40	0,62	0,98	1,33	1,82	2,52	3,68
A	mm	20	24	28	32	36	40	45
*B^{H7}	mm	10	12	14	16	18	20	22
*$C^{\pm 0,2}$	mm	–	–	–	–	–	–	–
*D^{P9}	mm	–	–	–	–	–	–	–
*F^{H9}	mm	–	–	–	–	–	–	–
M	mm	25	30	35	40	45	50	55
$S_1 + X_1$	mm	150 + 20	170 + 25	200 + 30	220 + 30	250 + 35	280 + 40	300 + 40
$S_2 + X_2$	mm	170 + 40	200 + 55	220 + 50	250 + 60	280 + 65	300 + 60	350 + 90
$S_3 + X_3$	mm	200 + 70	220 + 75	250 + 80	280 + 90	300 + 85	350 + 110	400 + 140
T	mm	13	14	17	19	22	24	26
Spline profile	mm	6x11x14	6x11x14	6x16x20	6x16x20	6x18x22	6x21x25	6x21x25

Order number		0.850.100	0.855.100	0.860.100	0.865.100	0.870.100	0.880.100	0.890.100	0.896.100
Md_{max}	Nm	290	440	520	700	820	930	1060	1250
Angle of deflection ß	°	35	35	35	35	35	35	35	35
Weight by S_1	kg	4,27	5,50	7,78	10,4	13,6	20,1	27,7	35,8
Weight by S_2	kg	4,58	5,98	8,45	10,8	14,7	21,9	30,6	38,7
Weight by S_3	kg	5,18	6,62	9,58	11,8	16,2	24,5	33,5	41,7
A	mm	50	55	60	65	70	80	90	100
*B^{H7}	mm	25	30	35	40	45	50	60	70
*$C^{\pm 0,2}$	mm	–	–	–	–	–	–	–	–
*D^{P9}	mm	–	–	–	–	–	–	–	–
*F^{H9}	mm	–	–	–	–	–	–	–	–
M	mm	62,5	67,5	82,5	95	105	115	130	145
$S_1 + X_1$	mm	350 + 50	400 + 50	450 + 50	520 + 70	580 + 70	630 + 70	700 + 70	800 + 100
$S_2 + X_2$	mm	400 + 100	450 + 100	500 + 100	550 + 100	630 + 120	700 + 140	800 + 170	900 + 200
$S_3 + X_3$	mm	450 + 150	500 + 160	580 + 180	630 + 180	700 + 190	800 + 240	900 + 270	1000 + 300
T	mm	30	35	42	46	52	58	70	80
Spline profile	mm	6x28x32	6x28x32	6x36x42	6x36x42	52x44x18	58x50x18	62x54x20	62x54x20

* = Customized bores, key-ways and inner square dimensions possible
Md_{max} = Max. permissible torque
ß = Max. angle of deflection per joint
S_1
S_2 = preferred lengths, compressed
S_3
X_1 = Maximum extension for S_1
X_2 = Maximum extension for S_2
X_3 = Maximum extension for S_3
For application criteria and calculations refer to technical annex

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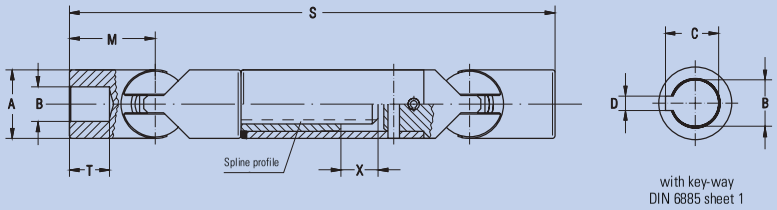
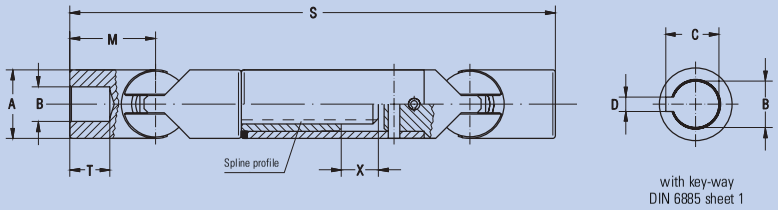
double, with length compensation, Bore with key-way DIN 6885, Sheet 1



with key-way
DIN 6885 sheet 1



with key-way
DIN 6885 sheet 1

When ordering, please indicate compressed length and extension!

Ball and Socket Shafts, double, Bore with key-way DIN 6885, Sheet 1

Order number		0.820.103	0.824.103	0.828.103	0.832.103	0.836.103	0.840.103	0.845.103
Md_{max}	Nm	20	30	50	60	120	160	200
Angle of deflection ß	°	35	35	35	35	35	35	35
Weight by S_1	kg	0,32	0,50	0,78	1,10	1,58	2,17	2,92
Weight by S_2	kg	0,36	0,58	0,85	1,22	1,72	2,28	3,38
Weight by S_3	kg	0,40	0,62	0,98	1,33	1,82	2,52	3,68
A	mm	20	24	28	32	36	40	45
*B^{H7}	mm	10	12	14	16	18	20	22
*$C^{\pm 0,2}$	mm	11,4	13,8	16,3	18,3	20,8	22,8	24,8
*D^{P9}	mm	3	4	5	5	6	6	6
*F^{H9}	mm	–	–	–	–	–	–	–
M	mm	25	30	35	40	45	50	55
$S_1 + X_1$	mm	150 + 20	170 + 25	200 + 30	220 + 30	250 + 35	280 + 40	300 + 40
$S_2 + X_2$	mm	170 + 40	200 + 55	220 + 50	250 + 60	280 + 65	300 + 60	350 + 90
$S_3 + X_3$	mm	200 + 70	220 + 75	250 + 80	280 + 90	300 + 85	350 + 110	400 + 140
T	mm	13	14	17	19	22	24	26
Spline profile	mm	6x11x14	6x11x14	6x16x20	6x16x20	6x18x22	6x21x25	6x21x25

Order number		0.850.103	0.855.103	0.860.103	0.865.103	0.870.103	0.880.103	0.890.103	0.896.103
Md_{max}	Nm	290	440	520	700	820	930	1060	1250
Angle of deflection ß	°	35	35	35	35	35	35	35	35
Weight by S_1	kg	4,27	5,50	7,78	10,4	13,6	20,1	27,7	35,8
Weight by S_2	kg	4,58	5,98	8,45	10,8	14,7	21,9	30,6	38,7
Weight by S_3	kg	5,18	6,62	9,58	11,8	16,2	24,5	33,5	41,7
A	mm	50	55	60	65	70	80	90	100
*B^{H7}	mm	25	30	35	40	45	50	60	70
*$C^{\pm 0,2}$	mm	28,3	33,3	38,3	43,3	48,8	53,8	64,4	74,9
*D^{P9}	mm	8	8	10	12	14	14	18	20
*F^{H9}	mm	–	–	–	–	–	–	–	–
M	mm	62,5	67,5	82,5	95	105	115	130	145
$S_1 + X_1$	mm	350 + 50	400 + 50	450 + 50	520 + 70	580 + 70	630 + 70	700 + 70	800 + 100
$S_2 + X_2$	mm	400 + 100	450 + 100	500 + 100	550 + 100	630 + 120	700 + 140	800 + 170	900 + 200
$S_3 + X_3$	mm	450 + 150	500 + 160	580 + 180	630 + 180	700 + 190	800 + 240	900 + 270	1000 + 300
T	mm	30	35	42	46	52	58	70	80
Spline profile	mm	6x28x32	6x28x32	6x36x42	6x36x42	52x44x18	58x50x18	62x54x20	62x54x20

* = Customized bores, key-ways and inner square dimensions possible
Md_{max} = Max. permissible torque
ß = Max. angle of deflection per joint
S_1
S_2 = preferred lengths, compressed
S_3
X_1 = Maximum extension for S_1
X_2 = Maximum extension for S_2
X_3 = Maximum extension for S_3
For application criteria and calculations refer to technical annex

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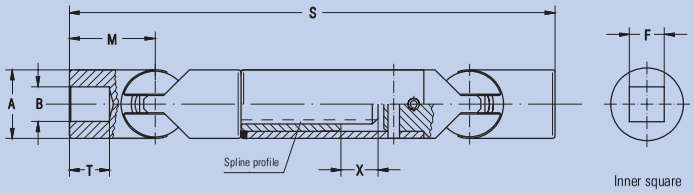
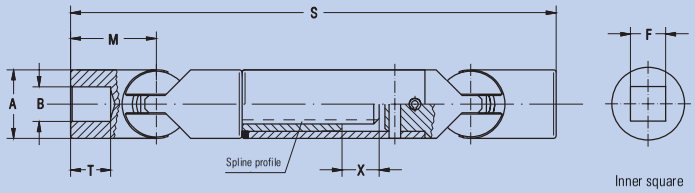
double, with length compensation, Inner square





When ordering, please indicate compressed length and extension!

Ball and Socket Shafts, double, Inner square

Order number		0.820.104	0.824.104	0.828.104	0.832.104	0.836.104	0.840.104	0.845.104
Md_{max}	Nm	20	30	50	60	120	160	200
Angle of deflection ß	°	35	35	35	35	35	35	35
Weight by S_1	kg	0,32	0,50	0,78	1,10	1,58	2,17	2,92
Weight by S_2	kg	0,36	0,58	0,85	1,22	1,72	2,28	3,38
Weight by S_3	kg	0,40	0,62	0,98	1,33	1,82	2,52	3,68
A	mm	20	24	28	32	36	40	45
*B^{H7}	mm	–	–	–	–	–	–	–
*$C^{\pm 0,2}$	mm	–	–	–	–	–	–	–
*D^{P9}	mm	–	–	–	–	–	–	–
*F^{H9}	mm	10	12	14	16	18	20	22
M	mm	25	30	35	40	45	50	55
$S_1 + X_1$	mm	150 + 20	170 + 25	200 + 30	220 + 30	250 + 35	280 + 40	300 + 40
$S_2 + X_2$	mm	170 + 40	200 + 55	220 + 50	250 + 60	280 + 65	300 + 60	350 + 90
$S_3 + X_3$	mm	200 + 70	220 + 75	250 + 80	280 + 90	300 + 85	350 + 110	400 + 140
T	mm	13	14	17	19	22	24	26
Spline profile	mm	6x11x14	6x11x14	6x16x20	6x16x20	6x18x22	6x21x25	6x21x25

Order number		0.850.104	0.855.104	0.860.104	0.865.104	0.870.104	0.880.104	0.890.104	0.896.104
Md_{max}	Nm	290	440	520	700	820	930	1060	1250
Angle of deflection ß	°	35	35	35	35	35	35	35	35
Weight by S_1	kg	4,27	5,50	7,78	10,4	13,6	20,1	27,7	35,8
Weight by S_2	kg	4,58	5,98	8,45	10,8	14,7	21,9	30,6	38,7
Weight by S_3	kg	5,18	6,62	9,58	11,8	16,2	24,5	33,5	41,7
A	mm	50	55	60	65	70	80	90	100
*B^{H7}	mm	–	–	–	–	–	–	–	–
*$C^{\pm 0,2}$	mm	–	–	–	–	–	–	–	–
*D^{P9}	mm	–	–	–	–	–	–	–	–
*F^{H9}	mm	25	30	32	36	40	42	50	54
M	mm	62,5	67,5	82,5	95	105	115	130	145
$S_1 + X_1$	mm	350 + 50	400 + 50	450 + 50	520 + 70	580 + 70	630 + 70	700 + 70	800 + 100
$S_2 + X_2$	mm	400 + 100	450 + 100	500 + 100	550 + 100	630 + 120	700 + 140	800 + 170	900 + 200
$S_3 + X_3$	mm	450 + 150	500 + 160	580 + 180	630 + 180	700 + 190	800 + 240	900 + 270	1000 + 300
T	mm	30	35	42	46	52	58	70	80
Spline profile	mm	6x28x32	6x28x32	6x36x42	6x36x42	52x44x18	58x50x18	62x54x20	62x54x20

* = Customized bores, key-ways and inner square dimensions possible
Md_{max} = Max. permissible torque
ß = Max. angle of deflection per joint
S_1
S_2 = preferred lengths, compressed
S_3
X_1 = Maximum extension for S_1
X_2 = Maximum extension for S_2
X_3 = Maximum extension for S_3
For application criteria and calculations refer to technical annex

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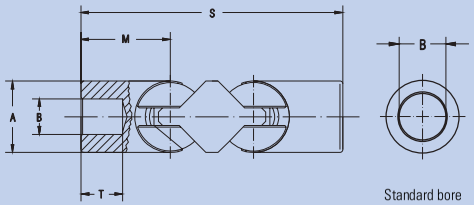
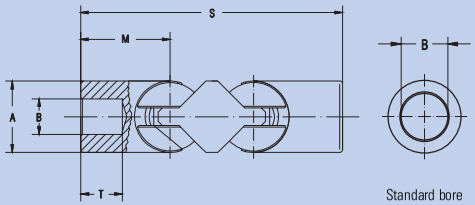
Ball and Socket Joints

Series 0.800

elso



Standard bore



Standard bore

Ball ans Socket Joints, double, Standard bore

Order number		0.820.300	0.824.300	0.828.300	0.832.300	0.836.300	0.840.300	0.845.300
Md_{max}	Nm	20	30	50	60	120	160	200
Angle of deflection ß	°	35	35	35	35	35	35	35
Weight	kg	0,14	0,22	0,38	0,55	0,78	1,08	1,48
A	mm	20	24	28	32	36	40	45
*B^{H7}	mm	10	12	14	16	18	20	22
*$C^{\pm 0,2}$	mm	–	–	–	–	–	–	–
*D^{P9}	mm	–	–	–	–	–	–	–
*F^{H9}	mm	–	–	–	–	–	–	–
M	mm	25	30	35	40	45	50	55
S	mm	74	88	103	118	133	148	163
T	mm	13	14	17	19	22	24	26

Order number	0.850.300	0.855.300	0.860.300	0.865.300	0.870.300	0.880.300	0.890.300	0.896.300	0.897.300
Md_{max} Nm	290	440	520	700	820	930	1060	1250	1370
Angle of deflection ß °	35	35	35	35	35	35	35	35	35
Weight kg	2,08	2,62	3,65	4,78	5,88	8,52	11,7	15,5	21,8
A mm	50	55	60	65	70	80	90	100	110
*B^{H7} mm	25	30	35	40	45	50	60	70	75
*$C^{\pm 0,2}$ mm	–	–	–	–	–	–	–	–	–
*D^{P9} mm	–	–	–	–	–	–	–	–	–
*F^{H9} mm	–	–	–	–	–	–	–	–	–
M mm	62,5	67,5	82,5	95	105	115	130	145	160
S mm	185	200	237	267	292	322	362	404	444
T mm	30	35	42	46	52	58	70	80	85

* =Customized bores, key-ways and inner square dimensions possible
Md_{max} = Max. permissible torque
For application criteria and calculations refer to technical annex

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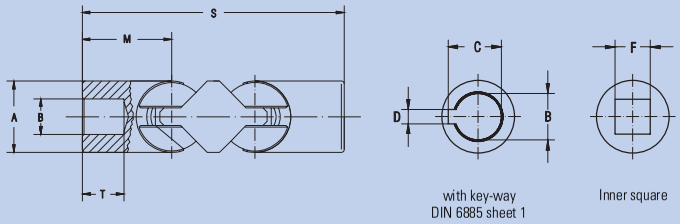
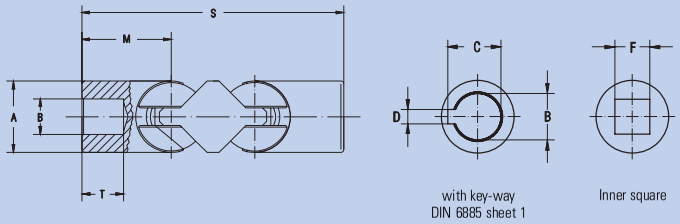
Size 0.820–0.897

Md_{max} 20–1370 Nm

double, Bore with key-way DIN 6885, Sheet 1; Inner square



with key-way DIN 6885 sheet 1 | Inner square



with key-way DIN 6885 sheet 1 | Inner square

Ball and Socket Joints, double, Bore with key-way DIN 6885, Sheet 1

Order number		0.820.303	0.824.303	0.828.303	0.832.303	0.836.303	0.840.303	0.845.303	0.850.303	0.855.303	0.860.303	0.865.303	0.870.303	0.880.303	0.890.303	0.896.303	0.897.303
Md_{max}	Nm	20	30	50	60	120	160	200	290	440	520	700	820	930	1060	1250	1370
Angle of deflection ß	°	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
Weight	kg	0,14	0,22	0,38	0,55	0,78	1,08	1,48	2,08	2,62	3,65	4,78	5,88	8,52	11,7	15,5	21,8
A	mm	20	24	28	32	36	40	45	50	55	60	65	70	80	90	100	110
*B^{H7}	mm	10	12	14	16	18	20	22	25	30	35	40	45	50	60	70	75
*$C^{\pm 0,2}$	mm	11,4	13,8	16,3	18,3	20,8	22,8	24,8	28,3	33,3	38,3	43,3	48,8	53,8	64,4	74,9	79,9
*D^{P9}	mm	3	4	5	5	6	6	6	8	8	10	12	14	14	18	20	20
*F^{H9}	mm	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M	mm	25	30	35	40	45	50	55	62,5	67,5	82,5	95	105	115	130	145	160
S	mm	74	88	103	118	133	148	163	185	200	237	267	292	322	362	404	444
T	mm	13	14	17	19	22	24	26	30	35	42	46	52	58	70	80	85

Ball and Socket Joints, double, Inner square

Order number		0.820.304	0.824.304	0.828.304	0.832.304	0.836.304	0.840.304	0.845.304	0.850.304	0.855.304	0.860.304	0.865.304	0.870.304	0.880.304	0.890.304	0.896.304	0.897.304
Md_{max}	Nm	20	30	50	60	120	160	200	290	440	520	700	820	930	1060	1250	1370
Angle of deflection ß	°	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
Weight	kg	0,14	0,22	0,38	0,55	0,78	1,08	1,48	2,08	2,62	3,65	4,78	5,88	8,52	11,7	15,5	21,8
A	mm	20	24	28	32	36	40	45	50	55	60	65	70	80	90	100	110
*B^{H7}	mm	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
*$C^{\pm 0,2}$	mm	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
*D^{P9}	mm	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
*F^{H9}	mm	10	12	14	16	18	20	22	25	30	32	36	40	42	50	54	58
M	mm	25	30	35	40	45	50	55	62,5	67,5	82,5	95	105	115	130	145	160
S	mm	74	88	103	118	133	148	163	185	200	237	267	292	322	362	404	444
T	mm	13	14	17	19	22	24	26	30	35	42	46	52	58	70	80	85

* = Customized bores, key-ways and inner square dimensions possible
Md_{max} = Max. permissible torque
For application criteria and calculations refer to technical annex

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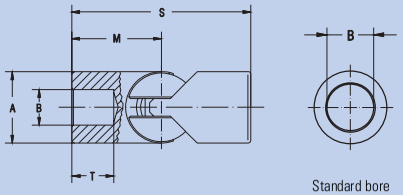
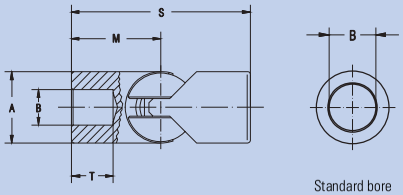


Standard bore



Standard bore

Ball and Socket Joints, single, Standard bore

Order number		0.813.400	0.816.400	0.820.400	0.824.400	0.828.400	0.832.400	0.836.400	0.840.400
Md_{max}	Nm	6	8	20	30	50	60	120	160
Angle of deflection ß	°	35	35	35	35	35	35	35	35
Weight	kg	0,03	0,05	0,09	0,15	0,24	0,36	0,53	0,72
A	mm	13	16	20	24	28	32	36	40
*B^{H7}	mm	6	8	10	12	14	16	18	20
*$C^{\pm 0,2}$	mm	–	–	–	–	–	–	–	–
*D^{P9}	mm	–	–	–	–	–	–	–	–
*F^{H9}	mm	–	–	–	–	–	–	–	–
M	mm	17,5	20	25	30	35	40	45	50
S	mm	35	40	50	60	70	80	90	100
T	mm	10	10	13	14	17	19	22	24

0.845.400	0.850.400	0.855.400	0.860.400	0.865.400	0.870.400	0.880.400	0.890.400	0.896.400	0.897.400
200	290	440	520	700	820	930	1060	1250	1370
35	35	35	35	35	35	35	35	35	35
1,02	1,40	1,75	2,52	3,32	4,15	6,02	8,04	10,6	15,3
45	50	55	60	65	70	80	90	100	110
22	25	30	35	40	45	50	60	70	75
–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–
55	62,5	67,5	82,5	95	105	115	130	145	160
110	125	135	165	190	210	230	260	290	320
26	30	35	42	46	52	58	70	80	85

* = Customized bores, key-ways an inner square dimensions possible
Md_{max} = Max. permissible torque
For application criteria and calculations refer to technical annex

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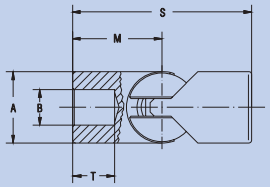
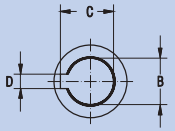
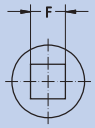
elso

single, Bore with key-way DIN 6885, Sheet 1; Inner square

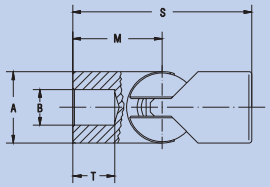


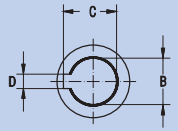


with key-way
DIN 6885 sheet 1

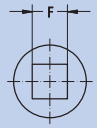


Inner square





with key-way
DIN 6885 sheet 1



Inner square

Ball and Socket Joints, single, Bore with Key-way DIN 6885, Sheet 1

Order number		0.820.403	0.824.403	0.828.403	0.832.403	0.836.403	0.840.403	0.845.403	0.850.403	0.855.403	0.860.403	0.865.403	0.870.403	0.880.403	0.890.403	0.896.403	0.897.403
Md_{max}	Nm	20	30	50	60	120	160	200	290	440	520	700	820	930	1060	1250	1370
Angle of deflection ß	°	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
Weight	kg	0,09	0,15	0,24	0,36	0,53	0,72	1,02	1,40	1,75	2,52	3,32	4,15	6,02	8,04	10,6	15,3
A	mm	20	24	28	32	36	40	45	50	55	60	65	70	80	90	100	110
*B^{H7}	mm	10	12	14	16	18	20	22	25	30	35	40	45	50	60	70	75
*$C^{\pm 0,2}$	mm	11,4	13,8	16,3	18,3	20,8	22,8	24,8	28,3	33,3	38,3	43,3	48,8	53,3	64,4	74,9	79,9
*D^{P9}	mm	3	4	5	5	6	6	6	8	8	10	12	14	14	18	20	20
*F^{H9}	mm	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
M	mm	25	30	35	40	45	50	55	62,5	67,5	82,5	95	105	115	130	145	160
S	mm	50	60	70	80	90	100	110	125	135	165	190	210	230	260	290	320
T	mm	13	14	17	19	22	24	26	30	35	42	46	52	58	70	80	85

Ball and Socket Joints, single, Inner square

Order number		0.820.404	0.824.404	0.828.404	0.832.404	0.836.404	0.840.404	0.845.404	0.850.404	0.855.404	0.860.404	0.865.404	0.870.404	0.880.404	0.890.404	0.896.404	0.897.404
Md_{max}	Nm	20	30	50	60	120	160	200	290	440	520	700	820	930	1060	1250	1370
Angle of deflection ß	°	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
Weight	kg	0,09	0,15	0,24	0,36	0,53	0,72	1,02	1,40	1,75	2,52	3,32	4,15	6,02	8,04	10,6	15,3
A	mm	20	24	28	32	36	40	45	50	55	60	65	70	80	90	100	110
*B^{H7}	mm	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
*$C^{\pm 0,2}$	mm	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
*D^{P9}	mm	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
*F^{H9}	mm	10	12	14	16	18	20	22	25	30	32	36	40	42	50	54	58
M	mm	25	30	35	40	45	50	55	62,5	67,5	82,5	95	105	115	130	145	160
S	mm	50	60	70	80	90	100	110	125	135	165	190	210	230	260	290	320
T	mm	13	14	17	19	22	24	26	30	35	42	46	52	58	70	80	85

* = Customized bores, key-ways an inner square dimensions possible
Md_{max} = Max. permissible torque
For application criteria and calculations refer to technical annex