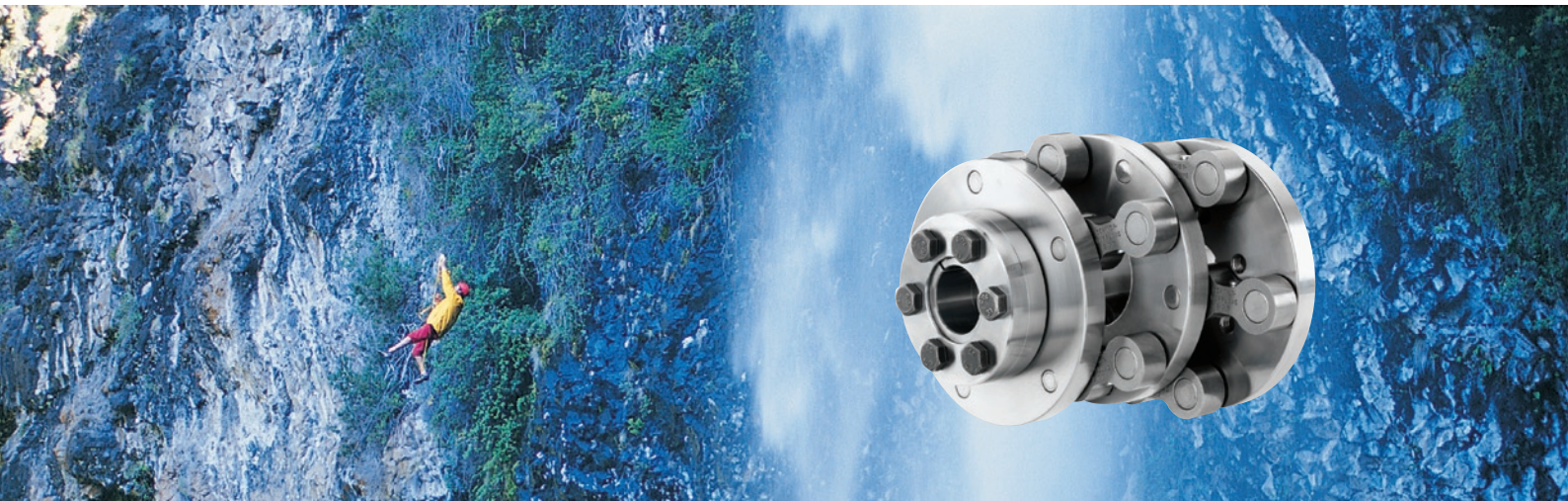


► Schmidt-Kupplung® ► Power Plus

More torque transmission while retaining compact design



The Schmidt-Kupplung® series

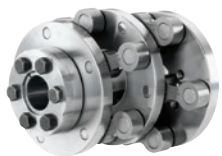


Standard S series

Symbiosis of performance, compact design and generous offset capacity

Bore diameter up to 80 mm

Torque (T_{KN}) 44 Nm to 2.875 Nm



Power Plus P series

More torque transmission while retaining compact design

Bore diameter up to 95 mm

Torque (T_{KN}) 44 Nm to 6.610 Nm



Offset Plus V series

Extreme parallel shaft offset while retaining compact design

Bore diameter up to 80 mm

Torque (T_{KN}) 44 Nm to 3.830 Nm

Schmidt-Kupplung®

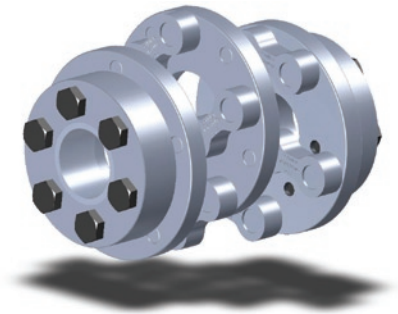
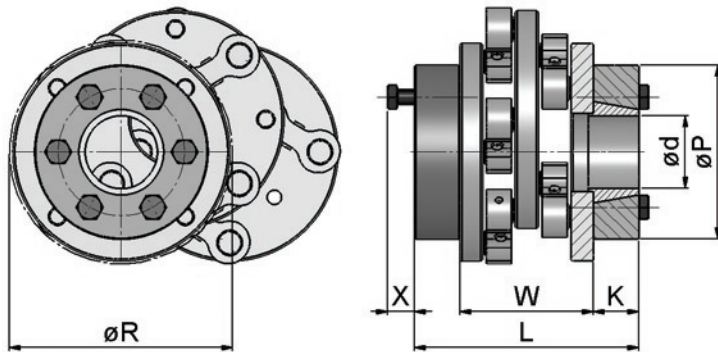
Our classic for extreme parallel offset:

The Schmidt-Kupplung® compensates variable parallel shaft offset without side loads in a very compact envelope. The Schmidt-Kupplung® is the ideal precision component for small envelopes and a better alternative to long cardan shafts.

Power Plus P series

Offers more torque transmission in a compact design when space is limited.

► **Schmidt-Kupplung®** ► **Power Plus**
 More torque transmission while retaining compact design



Hub version 3: locking-assembly

	T_{KN} (Nm)	T_{Kmax} (Nm)	n_{max} (1/min)	ΔK_c (mm)	ΔK_{rmin} (mm)	ΔK_r (mm)	ΔK_s (mm)	ΔK_w (°)	C_T (kNm/rad)	J (kg cm ²)	m (kg)	$\varnothing R$ (mm)	L (mm)	X (mm)	W (mm)	K (mm)	$\varnothing P$ (mm)	standard bore diameters (mm)
P 45	45	90	3.100	45	6	23	1	0,5	10	2,7	0,8	52	74	9	44	15	47	15, 16
P 60	60	115	2.800	45	6	23	1	0,5	13	4,2	1,0	62	74	9	44	15	47	15, 16
P 110	110	210	1.600	95	13	50	1	0,5	24	29,2	1,6	84	82	10	44	19	50	24, 25
P 115	110	210	2.400	45	6	23	1	0,5	24	28,9	1,5	84	82	10	44	19	50	24, 25
P 200	200	385	3.100	64	9	34	1	0,5	44	36,7	3,5	94	116	15	74	21	76	25, 28, 30
P 250	250	490	3.100	64	9	34	1	0,5	56	33,9	3,3	95	112	17	74	19	66	24, 25
P 280	280	550	1.900	126	17	66	1	0,5	63	110,2	6,1	124	124	17	74	25	96	30, 32, 35, 40
P 285	280	550	2.700	64	9	34	1	0,5	63	106,4	5,9	124	124	17	74	25	96	30, 32, 35, 40
P 350	350	690	1.900	126	17	66	1	0,5	79	115,8	6,3	124	124	17	74	25	96	30, 32, 35, 40
P 355	350	690	2.700	64	9	34	1	0,5	79	110,9	6,1	124	124	17	74	25	96	30, 32, 35, 40
P 590	590	1.155	1.700	162	22	85	1	0,5	132	239	9,8	140	151	17	101	25	96	35, 40
P 595	590	1.155	2.100	100	14	53	1	0,5	132	227	9,5	140	151	17	101	25	96	35, 40
P 700	700	1.365	1.600	162	22	85	1	0,5	156	415	13,2	160	161	23	101	30	115	42, 45, 50
P 705	700	1.365	2.000	100	14	53	1	0,5	156	399	12,8	160	161	23	101	30	115	42, 45, 50
P 1010	1.010	1.980	1.400	162	22	85	1	0,5	227	570	18	164	194	23	134	30	112	42, 45, 50
P 1015	1.010	1.980	1.600	122	17	64	1	0,5	227	560	17,5	164	194	23	134	30	112	42, 45, 50
P 1580	1.580	3.095	1.300	162	22	85	1	0,5	355	1.120	24,5	193	202	24	134	34	120	55, 60
P 1585	1.580	3.095	1.500	122	17	64	1	0,5	355	1.100	24	193	202	24	134	34	120	55, 60
P 2880	2.880	5.620	1.200	162	22	85	2	0,3	644	2.050	40	200	276	30	196	40	155	60, 70
P 3830	3.830	7.500	900	219	30	115	2	0,3	860	4.700	58	250	276	30	196	40	155	60, 70
P 3835	3.830	7.500	1.000	162	22	85	2	0,3	860	4.250	53	250	276	30	196	40	155	60, 70

Hub version 3: locking-assembly

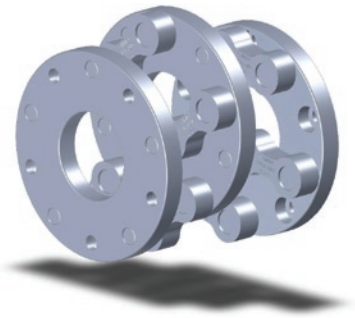
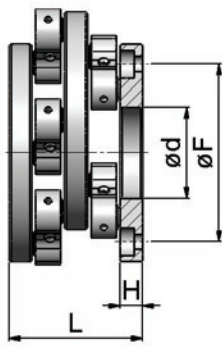
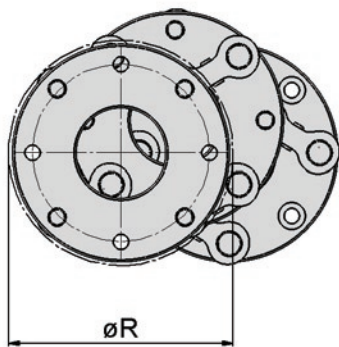
	T_{kN} (Nm)	$T_{k,max}$ (Nm)	n_{max} (1/min)	ΔK_v (mm)	$\Delta K_{r,min}$ (mm)	ΔK_r (mm)	ΔK_s (mm)	ΔK_w (°)	C_t (kNm/rad)	J (kg cm ²)	\bar{m} (kg)	$\varnothing R$ (mm)	L (mm)	X (mm)	W (mm)	K (mm)	$\varnothing P$ (mm)	standard bore diameters (mm)
P 4800	4.800	9.380	900	219	30	115	2	0,3	1.075	5.000	61	250	284	31	196	44	170	70, 75, 80
P 4805	4.800	9.380	1.000	162	22	85	2	0,3	1.075	4.500	55	250	284	31	196	44	170	70, 75, 80
P 6610	6.610	12.940	800	219	30	115	2	0,2	1.483	7.575	73	280	296	30	196	50	185	85, 90
P 6615	6.610	12.940	1.000	162	22	85	2	0,2	1.483	7.500	73	280	296	30	196	50	185	85, 90

Order Example 1: P 350.33 $\varnothing 30$ $\varnothing 40$ Order Example 2: P 595.33 $\varnothing 35$ $\varnothing 40$

P 595	33	$\varnothing 35$ $\varnothing 40$
Type Schmidt-Kupplung® Power Plus P 595	both sides locking-assembly	bore diameters

To ensure the correct selection of the Schmidt-Kupplung® please use the TD Calculator of the column Schmidt-Kupplung® or please use our selection procedure and legend area to download the required information.

► **Schmidt-Kupplung®** ► **Power Plus**
 More torque transmission while retaining
 compact design



Hub version 5: flange-mounting

	T_{KN} (Nm)	T_{Kmax} (Nm)	n_{max} (1/min)	ΔK_v (mm)	ΔK_{rmin} (mm)	ΔK_r (mm)	ΔK_s (mm)	ΔK_w (°)	C_T (kNm/rad)	J (kg cm ²)	m (kg)	$\varnothing R$ (mm)	H (mm)	L (mm)	$\varnothing d$ (mm)	$\varnothing F$ (mm)	skg
P 45	45	90	3.100	45	6	23	1	0,5	10	1,8	0,4	52	8	44	22	35	4xM6
P 60	60	115	2.800	45	6	23	1	0,5	13	3,1	0,6	62	8	44	25	45	4xM6
P 110	110	210	1.600	95	13	50	1	0,5	24	9,1	1,3	84	8	44	40	67	5xM6
P 115	110	210	2.400	45	6	23	1	0,5	24	8,8	0,9	84	8	44	40	67	5xM6
P 200	200	385	3.100	64	9	34	1	0,5	44	23	1,8	94	12,5	74	45	70	4xM8
P 250	250	490	3.100	64	9	34	1	0,5	56	25	2	95	12,5	74	45	71	5xM8
P 280	280	550	1.900	126	17	66	1	0,5	63	63	3	124	12,5	74	50	98	4xM8
P 285	280	550	2.700	64	9	34	1	0,5	63	61	2,9	124	12,5	74	50	98	4xM8
P 350	350	690	1.900	126	17	66	1	0,5	79	65	3,2	124	12,5	74	50	100	5xM8
P 355	350	690	2.700	64	9	34	1	0,5	79	63	3	124	12,5	74	50	100	5xM8
P 480	480	945	2.300	100	14	53	1	0,5	108	105	5	120	17	101	50	90	4xM12
P 590	590	1.155	1.700	162	22	85	1	0,5	132	187	6,8	140	17	101	50	110	4xM12
P 595	590	1.155	2.100	100	14	53	1	0,5	132	175	6,3	140	17	101	50	110	4xM12
P 700	700	1.365	1.600	162	22	85	1	0,5	156	304	8	160	17	101	60	130	4xM12
P 705	700	1.365	2.000	100	14	53	1	0,5	156	295	7,4	160	17	101	60	130	4xM12
P 1010	1.010	1.980	1.400	162	22	85	1	0,5	227	480	13,2	164	26	134	60	120	4xM16
P 1015	1.010	1.980	1.600	122	17	64	1	0,5	227	475	13	164	26	134	60	120	4xM16
P 1580	1.580	3.095	1.300	162	22	85	1	0,5	355	920	18	193	26	134	70	150	5xM16
P 1585	1.580	3.095	1.500	122	17	64	1	0,5	355	910	17,5	193	26	134	70	150	5xM16
P 2880	2.880	5.620	1.200	162	22	85	2	0,3	644	1.600	28	200	33	196	80	150	4xM20
P 3830	3.830	7.500	900	219	30	115	2	0,3	860	3.750	41	250	33	196	100	200	8xM20
P 3835	3.830	7.500	1.000	162	22	85	2	0,3	860	3.700	41	250	33	196	100	200	8xM20

Hub version 5: flange-mounting

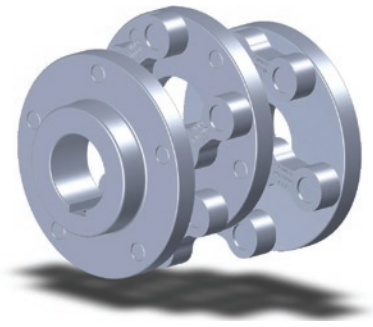
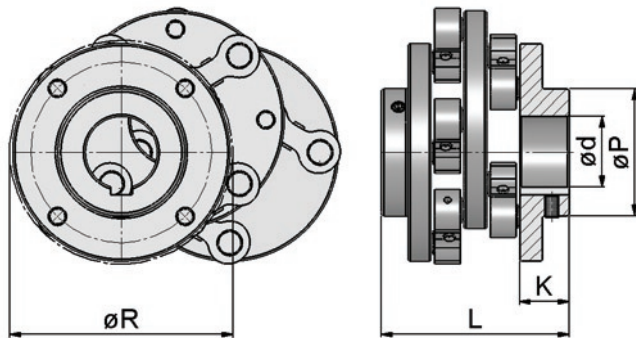
	T_{KN} (Nm)	$T_{K,max}$ (Nm)	n_{max} (1/min)	ΔK_v (mm)	$\Delta K_{r,min}$ (mm)	ΔK_r (mm)	ΔK_s (mm)	ΔK_w (°)	C_t (kNm/rad)	J (kg cm ²)	m (kg)	ØR (mm)	H (mm)	L (mm)	Ød (mm)	ØF (mm)	SkG
P 4800	4.800	9.380	900	219	30	115	2	0,3	1.075	4.080	45	250	33	196	100	200	10xM20
P 4805	4.800	9.380	1.000	162	22	85	2	0,3	1.075	4.000	43	250	33	196	100	200	10xM20
P 6610	6.610	12.940	800	219	30	115	2	0,2	1.483	8.700	52	280	33	196	150	230	12xM20
P 6615	6.610	12.940	1.000	162	22	85	2	0,2	1.483	5.600	43	280	33	196	150	230	12xM20

Order Example 1: P 350.55 Order Example 2: P 595.55

P 595	55
Type Schmidt-Kupplung® Power Plus P 595	both sides flange-mounting

To ensure the correct selection of the Schmidt-Kupplung® please use the TD Calculator of the column Schmidt-Kupplung® or please use our selection procedure and legend area to download the required information.

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 More torque transmission while retaining
 compact design



Hub version 6: standard hub

	T_{KN} (Nm)	T_{Kmax} (Nm)	n_{max} (1/min)	ΔK_v (mm)	ΔK_{rmin} (mm)	ΔK_r (mm)	ΔK_a (mm)	ΔK_v (°)	C_T (kNm/rad)	J (kg cm ²)	m (kg)	ØR (mm)	L (mm)	ØP (mm)	K (mm)	Ød _{max} (mm)
P 45	45	90	3.100	45	6	23	1	0,5	10	2,3	0,6	52	60	50	16	25
P 60	60	115	2.800	45	6	23	1	0,5	13	4,3	0,8	62	60	60	16	36
P 110	110	210	1.600	95	13	50	1	0,5	24	12,3	1,6	84	78	50	25	30
P 115	110	210	2.400	45	6	23	1	0,5	24	11,7	1,4	84	78	50	25	30
P 200	200	385	3.100	64	9	34	1	0,5	44	31,5	3,2	94	104	56	27,5	36
P 250	250	490	3.100	64	9	34	1	0,5	56	29,9	2,6	95	104	56	27,5	36
P 280	280	550	1.900	126	17	66	1	0,5	63	82,6	4,3	124	104	70	27,5	40
P 285	280	550	2.700	64	9	34	1	0,5	63	78,8	4,1	124	104	70	27,5	40
P 350	350	690	1.900	126	17	66	1	0,5	79	88,2	4,5	124	104	70	27,5	40
P 355	350	690	2.700	64	9	34	1	0,5	79	83,3	4,3	124	104	70	27,5	40
P 480	480	945	2.300	100	14	53	1	0,5	108	117	6,1	120	143	70	38	45
P 590	590	1.155	1.700	162	22	85	1	0,5	132	217	8,3	140	143	80	38	50
P 595	590	1.155	2.100	100	14	53	1	0,5	132	205	7,9	140	143	80	38	50
P 700	700	1,4	1.600	162	22	85	1	0,5	156	348	10,2	160	151	80	42	50
P 705	700	1.365	2.000	100	14	53	1	0,5	156	331	9,9	160	143	80	42	50
P 1010	1.010	1.980	1.400	162	22	85	1	0,5	227	505	14,5	164	170	90	44	60
P 1015	1.010	1.980	1.600	122	17	64	1	0,5	227	495	14	164	170	90	44	60
P 1580	1.580	3.095	1.300	162	22	85	1	0,5	355	1.065	22	193	192	110	55	70
P 1585	1.580	3.095	1.500	122	17	64	1	0,5	355	1.045	21,5	193	192	110	55	70
P 2880	2.880	5.620	1.200	162	22	85	2	0,3	644	1.800	33	200	236	110	53	70
P 3830	3.830	7.500	900	219	30	115	2	0,3	860	4.250	49	250	266	120	68	80
P 3835	3.830	7.500	1.000	162	22	85	2	0,3	860	4.050	47	250	266	120	68	80

Hub version 6: standard hub

	T_{KN} (Nm)	T_{Kmax} (Nm)	n_{max} (1/min)	ΔK_v (mm)	$\Delta K_{r,min}$ (mm)	ΔK_r (mm)	ΔK_a (mm)	ΔK_w (°)	C_T (kNm/rad)	J (kg cm ²)	m (kg)	$\varnothing R$ (mm)	L (mm)	$\varnothing P$ (mm)	K (mm)	$\varnothing d_{max}$ (mm)
P 4800	4.800	9.380	900	219	30	115	2	0,3	1.075	4.550	52	250	276	120	73	80
P 4805	4.800	9.380	1.000	162	22	85	2	0,3	1.075	4.325	50	250	276	120	73	80
P 6610	6.610	12.940	800	219	30	115	2	0,2	1.483	7.425	70	280	322	150	96	95
P 6615	6.610	12.940	1.000	162	22	85	2	0,2	1.483	7.025	67	280	322	150	96	95

Order Example 1: P 350.66 Ø35 Ø35 Order Example 2: P 595.66 Ø45 Ø45

P 595	66	Ø45 Ø45
Type Schmidt-Kupplung® Power Plus P 595	both sides standard hub	bore diameters

To ensure the correct selection of the Schmidt-Kupplung® please use the TD Calculator of the column Schmidt-Kupplung® or please use our selection procedure and legend area to download the required information.

1. Calculation of the design torque. Please multiply your continuous torque by the required performance factor (table 1) and the required service factor (table 2) to get the design torque.

An alternative:

simply use under www.schmidt-kupplung.com the TD Calculator of the column Schmidt-Kupplung®

Table 1: performance factor

speed range 1/min	service life (h)	performance factor
0-500	5.000	1,8
0-500	10.000	2,3
0-500	20.000	2,8
500-1.000	5.000	2,3
500-1.000	10.000	2,8
500-1.000	20.000	3,5
1.000-2.000	5.000	2,8
1.000-2.000	10.000	3,6
1.000-2.000	20.000	4,4
2.000-3.000	5.000	3,2
2.000-3.000	10.000	4
2.000-3.000	20.000	4,8

Table 2: service factor

uniform	1
light shocks	1,5
medium shocks	2
heavy shocks	2,5

2. Select a coupling size that has a continuous torque rating greater than your calculated design torque.
3. Make sure that the peak torque of the application does not exceed the maximum torque rating of the coupling.
4. Please check the coupling maximum speed to be sure it is within the rated maximum speed.
5. Make sure that the misalignment capability is sufficient. There is a trade-off between the radial, axial

and angular misalignment capabilities. Be certain that the combined percentages of each do not exceed 100%.

Legend

Performance

T_{KN}	continuous torque rating of the coupling (Nm)
$T_{K\ max}$	maximum torque capacity of the coupling (Nm)
$n_{\ max}$	maximum speed of the coupling (1/min)
ΔK_v	maximum linear range of the coupling (mm)
ΔK_r	maximum radial offset capacity (mm)
$\Delta K_{r\ min}$	minimum radial offset capacity (mm)
ΔK_a	maximum axial misalignment capacity (mm)
ΔK_w	maximum angular misalignment capacity (°)
C_T	torsional stiffness (kNm/rad)
J	moment of inertia (kg cm ²)
m	Gewicht (kg)

Dimension

ØR	swing diameter (mm)
H	disc thickness (mm)
L	coupling length (mm)
X	mounting space (mm)
W	coupling basis (mm)
ØP	hub diameter (mm)
K	total hub length (mm)
Ød	bore diameter (mm)
ØF	bolt circle diameter (mm)
Skg	number of counter bores x bolt size