PHONE: 516.328.3300 • FAX: 516.326.8827 • WWW.SDP-SI.COM

SPLIT TYPE HUB
STAINLESS STEEL
ZERO BACKLASH

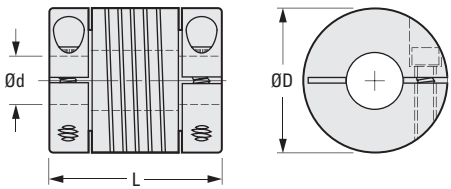
Metric
0 10

› MATERIAL:
17-4PH Stainless Steel

› MISALIGNMENT COMPENSATION:
Max. Angular Offset: 5°
Max. Lateral Offset: 0.25
Max. Axial Motion: ± 0.25

› FEATURES:
One-Piece Construction.
Integral Clamp.
Shaft Relief.
High Fatigue Resistance.
Constant Velocity.
Adapts to High- and Low-Speed Applications.

Bore diameter combinations are available on special order.



The projections shown are per ISO convention.

METRIC COMPONENT

Catalog Number	d Bore +0.05 0	D O.D.	L Length ± 0.25	Screw Size	Momentary* Dynamic Torque N • m	Torsional Flexibility Arc Min./ N • m	Inertia** x 10^{-4} kg cm $sec.^2$
S50HWWM15H0303	3	15	22	M2	1.4	114	0.078
S50HWWM15H0404	4	15	22	M2	1.3	156	0.078
S50HWWM15H0505	5	15	22	M2	1.2	222	0.078
S50HWWM20H0404	4	20	28	M3	2.6	59.4	0.32
S50HWWM20H0505	5	20	28	M3	2.5	78	0.32
S50HWWM20H0606	6	20	28	M3	2.3	96	0.32
S50HWWM25H0606	6	25	30	M3	5.7	32.4	0.84
S50HWWM25H0707	7	25	30	M3	5.5	39.6	0.84
S50HWWM25H0808	8	25	30	M3	5.1	49.2	0.84
S50HWWM25H0909	9	25	30	M3	4.7	60	0.84
S50HWWM25H1010	10	25	30	M3	4.3	78	0.84
S50HWWM30H0909	9	30	38	M4	9.5	24	2.2
S50HWWM30H1010	10	30	38	M4	8.9	28.8	2.2
S50HWWM30H1111	11	30	38	M4	8.3	34.8	2.2
S50HWWM30H1212	12	30	38	M4	7.7	42	2.2

* Torque listed is maximum momentary value:
For NONREVERSING applications, the torque rating is 1/2.
For REVERSING applications, the torque rating is 1/4.
** Inertia is based on the smallest standard bore diameter.

PHONE: 516.328.3300 • FAX: 516.326.8827 • WWW.SDP-SI.COM

SPLIT TYPE HUB
ALUMINUM
ZERO BACKLASH

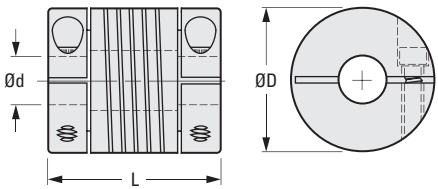
Metric
0 10

› MATERIAL:
7075-T6 Aluminum

› MISALIGNMENT COMPENSATION:
Max. Angular Offset: 5°
Max. Lateral Offset: 0.25
Max. Axial Motion: ± 0.25

› FEATURES:
One-Piece Construction
Integral Clamp
Shaft Relief
High Fatigue Resistance
Constant Velocity
Adapts to High- and Low-Speed Applications

Bore diameter combinations are available on special order.



The projections shown are per ISO convention.

METRIC COMPONENT

Catalog Number	d Bore +0.05 0	D O.D.	L Length ± 0.25	Screw Size	Momentary* Dynamic Torque N • m	Torsional Flexibility Arc Min./ N • m	Inertia Δ x 10^{-4} kg cm $sec.^2$
S50HAWM15H0303	3	15	22	M2	0.71	306	0.028
S50HAWM15H0404	4	15	22	M2	0.66	432	0.028
S50HAWM15H0505	5	15	22	M2	0.59	600	0.028
S50HAWM20H0404	4	20	28	M3	1.3	162	0.11
S50HAWM20H0505	5	20	28	M3	1.2	210	0.11
S50HAWM20H0606	6	20	28	M3	1.1	270	0.11
S50HAWM25H0606	6	25	30	M3	2.9	90	0.3
S50HAWM25H0707	7	25	30	M3	2.8	108	0.3
S50HAWM25H0808	8	25	30	M3	2.6	132	0.3
S50HAWM25H0909	9	25	30	M3	2.4	168	0.3
S50HAWM25H1010	10	25	30	M3	2.2	210	0.3
S50HAWM30H0909	9	30	38	M4	4.9	66	0.78
S50HAWM30H1010	10	30	38	M4	4.6	78	0.78
S50HAWM30H1111	11	30	38	M4	4.3	96	0.78
S50HAWM30H1212	12	30	38	M4	4	114	0.78

* Torque listed is maximum momentary value.
For NONREVERSING applications, the torque rating is 1/2.
For REVERSING applications, the torque rating is 1/4.
Δ Inertia is based on the smallest standard bore diameter.

FLEXIBLE HELICAL COUPLINGS

SDP/SI

PHONE: 516.328.3300 • FAX: 516.326.8827 • WWW.SDP-SI.COM

SET SCREW TYPE
STAINLESS STEEL
ZERO BACKLASH

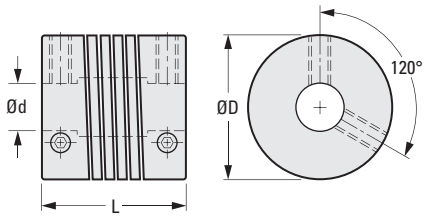
Metric
0 10

› MATERIAL:
17-4PH Stainless Steel

› MISALIGNMENT COMPENSATION:
Max. Angular Offset: 5°
Max. Lateral Offset: 0.25
Max. Axial Motion: ± 0.25

› FEATURES:
One-Piece Construction
Shaft Relief
High Fatigue Resistance
Constant Velocity
Adapts to High- and Low-Speed Applications

Bore diameter combinations are available on special order.



The projections shown are per ISO convention.

METRIC COMPONENT

Catalog Number	d Bore +0.05 0	D O.D.	L Length ± 0.25	Screw Size	Momentary* Dynamic Torque N • m	Torsional Flexibility Arc Min./ N • m	Inertia ** x 10^{-4} kg cm sec.^{2}
S50HWWM15P0303	3	15	20	M2.5	1.4	114	0.07
S50HWWM15P0404	4	15	20	M3	1.3	156	0.07
S50HWWM15P0505	5	15	20	M3	1.2	222	0.07
S50HWWM20P0404	4	20	20	M3	2.6	59.4	0.22
S50HWWM20P0505	5	20	20	M3	2.5	78	0.22
S50HWWM20P0606	6	20	20	M3	2.3	96	0.22
S50HWWM25P0606	6	25	24	M4	5.7	32.4	0.66
S50HWWM25P0707	7	25	24	M4	5.5	39.6	0.66
S50HWWM25P0808	8	25	24	M4	5.1	49.2	0.66
S50HWWM25P0909	9	25	24	M4	4.7	60	0.66
S50HWWM25P1010	10	25	24	M4	4.3	78	0.66
S50HWWM30P0909	9	30	30	M5	9.5	24	1.7
S50HWWM30P1010	10	30	30	M5	8.9	28.8	1.7
S50HWWM30P1111	11	30	30	M5	8.3	34.8	1.7
S50HWWM30P1212	12	30	30	M5	7.7	42	1.7

* Torque listed is maximum momentary value:
For NONREVERSING applications, the torque rating is 1/2.
For REVERSING applications, the torque rating is 1/4.
** Inertia is based on the smallest standard bore diameter.

PHONE: 516.328.3300 • FAX: 516.326.8827 • WWW.SDP-SI.COM

SET SCREW TYPE
ALUMINUM
ZERO BACKLASH

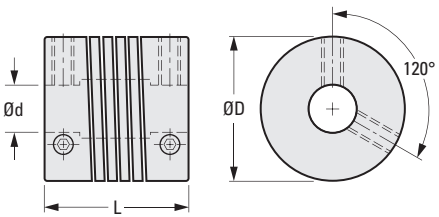
Metric
0 10

› MATERIAL:
7075-T6 Aluminum

› MISALIGNMENT COMPENSATION:
Max. Angular Offset: 5°
Max. Lateral Offset: 0.25
Max. Axial Motion: ± 0.25

› FEATURES:
One-Piece Construction
Shaft Relief
High Fatigue Resistance
Constant Velocity
Adapts to High- and Low-Speed Applications

Bore diameter combinations are available on special order.



The projections shown are per ISO convention.

METRIC COMPONENT

Catalog Number	d Bore +0.05 0	D O.D.	L Length ± 0.25	Screw Size	Momentary* Dynamic Torque N • m	Torsional Flexibility Arc Min./ N • m	Inertia Δ x 10^{-4} kg cm sec.^{2}
S50HAWM15P0303	3	15	20	M2.5	0.71	306	0.025
S50HAWM15P0404	4	15	20	M3	0.66	432	0.025
S50HAWM15P0505	5	15	20	M3	0.59	600	0.025
S50HAWM20P0404	4	20	20	M3	1.3	162	0.079
S50HAWM20P0505	5	20	20	M3	1.2	210	0.079
S50HAWM20P0606	6	20	20	M3	1.1	270	0.079
S50HAWM25P0606	6	25	24	M4	2.9	90	0.24
S50HAWM25P0707	7	25	24	M4	2.8	108	0.24
S50HAWM25P0808	8	25	24	M4	2.6	132	0.24
S50HAWM25P0909	9	25	24	M4	2.4	168	0.24
S50HAWM25P1010	10	25	24	M4	2.2	210	0.24
S50HAWM30P0909	9	30	30	M5	4.9	66	0.6
S50HAWM30P1010	10	30	30	M5	4.6	78	0.6
S50HAWM30P1111	11	30	30	M5	4.3	96	0.6
S50HAWM30P1212	12	30	30	M5	4	114	0.6

* Torque listed is maximum momentary value.
For NONREVERSING applications, the torque rating is 1/2.
For REVERSING applications, the torque rating is 1/4.
Δ Inertia is based on the smallest standard bore diameter.

PHONE: 516.328.3300 • FAX: 516.326.8827 • WWW.SDP-SI.COM

ZERO BACKLASH
LIGHTWEIGHT

Metric
0 10
Precision Component

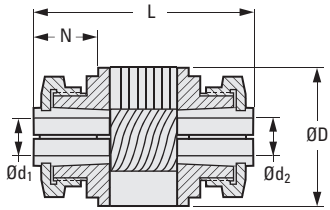
› MATERIAL:
7075-T651 Aluminum

› MISALIGNMENT COMPENSATION:
Max. Angular Offset: 3°
Max. Lateral Offset: See table below

› MAX. OPERATING SPEED:
5000 rpm

Service Factor	
Shock & Reversing	2
Nonreversing	1.5
Steady Load	1

*Select the size so that
(Application Torque) x (Service Factor)
is less than the allowable maximum torque



› SPECIFICATION:
d_1, d_2 Tolerance:
4 to 6 mm +0.012/0
8 & 10 mm +0.015/0
12 mm +0.018/0

METRIC COMPONENT

Catalog Number	D Dia.	d_1 Bore H7	d_2 Bore H7	N	L	Max. Lateral Offset	Max.* Torque N • m	Torsional Stiffness N • m/rad	Approx. Weight grams
S54MHCM190404	19.1	4	4	8	28	0.08	4	90	22
S54MHCM190405	19.1	4	5	8	28	0.08	4	90	22
S54MHCM190406	19.1	4	6	8	28	0.08	4	90	22
S54MHCM190408	19.1	4	8	8	28	0.08	4	90	22
S54MHCM190505	19.1	5	5	8	28	0.08	4	90	22
S54MHCM190506	19.1	5	6	8	28	0.08	4	90	22
S54MHCM190508	19.1	5	8	8	28	0.08	4	90	22
S54MHCM190606	19.1	6	6	8	28	0.08	4	90	22
S54MHCM190608	19.1	6	8	8	28	0.08	4	90	22
S54MHCM190808	19.1	8	8	8	28	0.08	4	90	22
S54MHCM250505	25.4	5	5	11	40	0.10	8	130	30
S54MHCM250506	25.4	5	6	11	40	0.10	8	130	30
S54MHCM250508	25.4	5	8	11	40	0.10	8	130	30
S54MHCM250510	25.4	5	10	11	40	0.10	8	130	30
S54MHCM250606	25.4	6	6	11	40	0.10	8	130	30
S54MHCM250608	25.4	6	8	11	40	0.10	8	130	30
S54MHCM250610	25.4	6	10	11	40	0.10	8	130	30
S54MHCM250808	25.4	8	8	11	40	0.10	8	130	30
S54MHCM250810	25.4	8	10	11	40	0.10	8	130	30
S54MHCM251010	25.4	10	10	11	40	0.10	8	130	30
S54MHCM310606	31.8	6	6	16	58	0.15	14	200	60
S54MHCM310608	31.8	6	8	16	58	0.15	14	200	60
S54MHCM310610	31.8	6	10	16	58	0.15	14	200	60
S54MHCM310612	31.8	6	12	16	58	0.15	14	200	60
S54MHCM310808	31.8	8	8	16	58	0.15	14	200	60
S54MHCM310810	31.8	8	10	16	58	0.15	14	200	60
S54MHCM310812	31.8	8	12	16	58	0.15	14	200	60
S54MHCM311010	31.8	10	10	16	58	0.15	14	200	60
S54MHCM311012	31.8	10	12	16	58	0.15	14	200	60
S54MHCM311212	31.8	12	12	16	58	0.15	14	200	60

PHONE: 516.328.3300 • FAX: 516.326.8827 • WWW.SDP-SI.COM

PATENT NO. 3,068,666

Metric

0 10

Precision Component

MATERIAL:
303 Stainless Steel

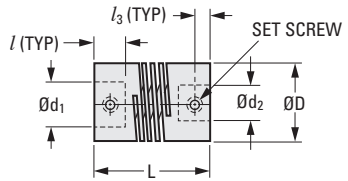
MISALIGNMENT COMPENSATION:
Max. Angular Offset: 5°
Max. Lateral Offset: 0.075
Max. Axial Motion: 0

FEATURES:
One-Piece Construction
Constant Velocity
Adapts to High- and Low-Speed Applications

SPECIFICATIONS:
d_1, d_2 Tolerance:
2 & 3 mm +0.010/0
4, 5 & 6 mm +0.012/0

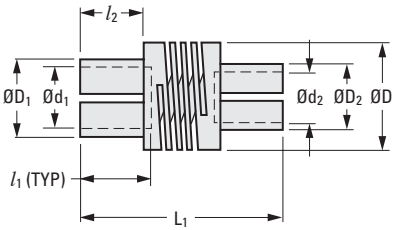
D_1, D_2 Dia. Tolerance:
3.6, 4.6 & 5.6 mm 0/-0.018
6.6 & 7.6 mm 0/-0.022

Other sizes and bores available on special order.



Set Screw Type

D	l	L	l_1	l_2	l_3	L_1	Set Screw
6.35	3	10	3	3	1.6	10	M2
12.7	6	20	8	7	2.4	24	M3



Clamp Type

METRIC COMPONENT

Catalog Number		d_1 Bore H7	d_2 Bore H7	D_1 Dia. h8	D_2 Dia. h8	D Dia.	Working Torque N • m	Torsional Flexibility Arc Sec./ N • m
Set Screw Type	Clamp Type							
S50HS9M1P02P02	S50HS9M1C02C02	2	2	3.6	3.6	6.35	0.14	18.9
S50HS9M1P02P03	S50HS9M1C02C03	2	3	3.6	4.6			
S50HS9M1P03P03	S50HS9M1C03C03	3	3	4.6	4.6			
S50HS9M2P03P03	S50HS9M2C03C03	3	3	4.6	4.6	12.7	0.56	3.5
S50HS9M2P03P04	S50HS9M2C03C04		4		5.6			
S50HS9M2P03P05	S50HS9M2C03C05		5		6.6			
S50HS9M2P03P06	S50HS9M2C03C06		6		7.6			
S50HS9M2P04P04	S50HS9M2C04C04	4	4	5.6	5.6	12.7	0.56	3.5
S50HS9M2P04P05	S50HS9M2C04C05		5		6.6			
S50HS9M2P04P06	S50HS9M2C04C06		6		7.6			
S50HS9M2P05P05	S50HS9M2C05C05	5	5	6.6	6.6	12.7	0.56	3.5
S50HS9M2P05P06	S50HS9M2C05C06	5	6	6.6	7.6			
S50HS9M2P06P06	S50HS9M2C06C06	6	6	7.6	7.6			