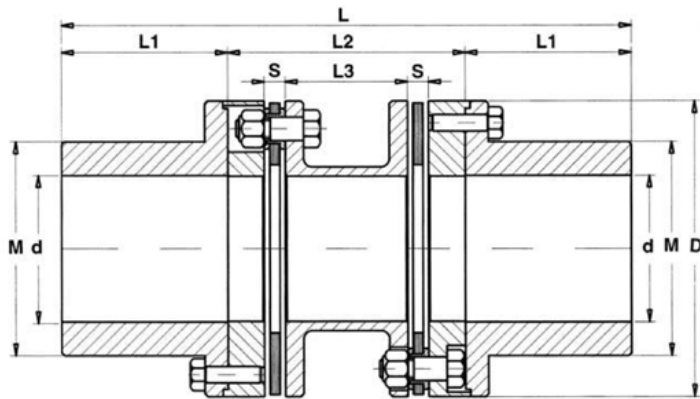




## Disc Coupling - Type HBSX-8-AH

8 Bolts with Spacer and Adaptors from HP 0,65 to HP 35 at 1 RPM



Max angular misalignment = 0.30° each element  
Max parallel misalignment = 0.0085 x (L3 + S)

DIMENSIONS REFERRED TO STANDARD VERSION  
Hubs and spacer length can be modified

TAB. A

SIZE	Nominal rating transmissible at 1 RPM		Nominal Torque Nm	D mm	L mm	d min mm	d max mm	L1 mm	S mm	L2 mm	L3 mm	M mm
	HP/n	KW/n										
650-8	0,65	0,48	4500	214	350	25	125	110	13	130	58	175
1260-8	1,25	0,92	8800	246	400	25	140	125	15	150	68	196
2010-8	2,01	1,47	14100	275	440	25	155	130	19	180	78	217
3160-8	3,16	2,32	22200	308	520	25	175	150	23,5	220	95	245
4630-8	4,63	3,40	32500	346	590	25	200	170	25	250	112	288
6470-8	6,47	4,76	45500	375	650	25	220	185	27	280	126	310
8770-8	8,77	6,44	61600	410	700	25	245	200	28	300	134	346
13850-8	13,85	10,18	97300	445	770	25	260	210	36	350	156	365
14840-8	14,84	10,90	104200	470	800	25	275	225	36	350	156	390
19700-8	19,70	14,48	138400	565	940	25	340	280	36	380	166	476
23700-8	23,70	17,42	166,500	595	990	25	355	290	37,5	410	181	498
35000-8	35,00	25,73	245900	665	1090	25	395	320	41	450	194	556



## Disc Coupling - Type HBSX-8-AH

### Technical Features

**TAB. B**

<b>COUPLING SIZE</b>	<b>650-8</b>	<b>1260-8</b>	<b>2010-8</b>	<b>3160-8</b>	<b>4630-8</b>	<b>6470-8</b>	<b>8770-8</b>	<b>13850-8</b>	<b>14840-8</b>	<b>19700-8</b>	<b>23700-8</b>	<b>35000-8</b>
<b>Weight HBSX-8-AH kg.</b>	59,0	86,0	118	178	264	341	450	564	654	1147	1323	1854
<b>Inertia PD<sup>2</sup> HBSX-8-AH kgm<sup>2</sup></b>	1,2108	2,2824	3,9683	7,7045	14,585	22,258	35,430	52,036	67,145	169,02	216,74	379,72
<b>Torsional Stiffness HBSX-8-AH Nm/rad x 10<sup>6</sup></b>	4,0221	6,6708	10,497	16,088	22,171	30,607	38,651	50,423	61,705	118,70	138,32	200,12
<b>Nuts tightening torque of hub Nm</b>	70	120	180	280	180	280	280	550	550	750	950	1400
<b>Nuts tightening torque of element blades Nm</b>	80	180	380	650	950	1300	1700	2100	2100	4200	5200	8000
<b>Axial deflection HBSX-8-AH +/- mm</b>	3,6	4,4	4,4	5,0	5,8	6,2	6,6	7,4	8,4	9,8	10,0	12,0
<b>Max speed RPM</b>	8500	8300	7700	6600	5600	5200	4700	4200	3900	3500	3100	2800

A) Weight and inertia are calculated with steel hubs, standard dimensions and with min bore "d".

B) Torsional stiffness is given between hub flanges for standard dimensions (spacer, elements blades, bolts, adaptors, etc.).

C) Allowable axial misalignment is related to parallel misalignment and viceversa.

D) Before bolts tightening to lock the element blades it is advisable to apply a light oil film on the related threads.

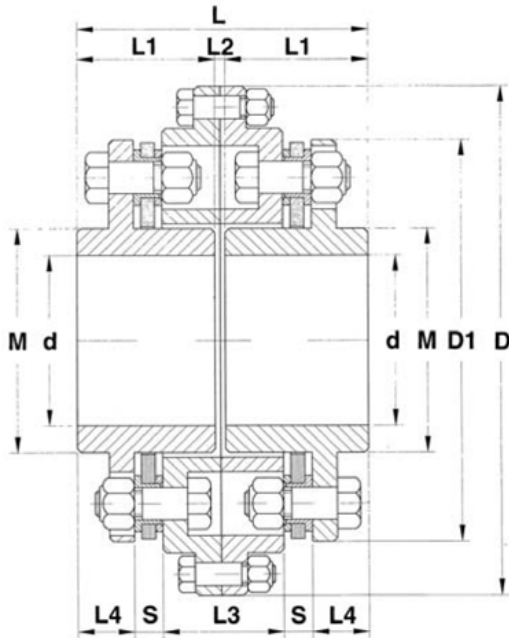
E) Max speed (RPM) are calculated with the main components (hubs, adaptors, spacers, etc.) manufactured in carbon steel and with standard dimensions.  
For higher operational speeds alternative materials or special designs are available.

Figures and dimensions included in this catalogue may be varied without prior advice.



# Disc Coupling - Type HBSX-8-RH

8 Bolts with Reversed Hubs and Spacer in Two Halfs from HP 0,17 to HP 19,7 at 1 RPM



Disassamento parallelo max mm = 0.085 x (L3 + S)  
 Max parallel misalignment = 0.0085 x (L3 + S)

DIMENSIONS REFERRED TO STANDARD VERSION  
 Hubs and spacer length can be modified

TAB. A

SIZE	Nominal rating g transmissible at 1 RPM		Nominal Torque Nm	D mm	D1 mm	L mm	d min mm	d max mm	L1 mm	S mm	L2 mm	L3 mm	L4 mm	M mm
	HP/n	KW/n												
170-8	0,17	0,12	1200	155	119	89	25	46	43	8,2	3	40	16,3	64
330-8	0,33	0,24	2300	185	148	103	25	62	50	9,5	3	48	18	86
650-8	0,65	0,48	4500	260	214	127	25	85	62	13	3	51	25	120
1260-8	1,25	0,82	8800	295	246	157	25	98	76	15	5	71	28	138
2010-8	2,01	1,47	14100	330	275	185	25	105	90	19	5	79	34	150
2700-8	2,70	1,98	19000	330	275	216	25	105	105	23	6	100	35	150
3160-8	3,16	2,32	22200	365	308	246	25	125	120	23,5	6	117	41	175
4630-8	4,63	3,40	32500	415	346	278	25	135	135	25	8	136	46	195
8770-8	8,77	6,44	61600	475	410	308	25	155	150	28	8	138	57	220
13850-8	13,85	10,13	97300	535	445	358	25	165	175	36	8	160	63	235
14840-8	14,34	10,90	104200	560	470	388	25	180	190	36	8	190	63	260
19700-8	19,70	14,48	138400	675	555	450	25	225	220	36	10	232	73	320



## Disc Coupling - Type HBSX-8-RH

### Technical Features

**TAB. B**

<b>COUPLING SIZE</b>	<b>170-8</b>	<b>330-8</b>	<b>650-8</b>	<b>1260-8</b>	<b>2010-8</b>	<b>2700-8</b>	<b>3160-8</b>	<b>4630-8</b>	<b>8770-8</b>	<b>13850-8</b>	<b>14840-8</b>	<b>19700-8</b>
<b>Weight HBSX-8-RH kg.</b>	8,0	11,0	29,5	47,0	68,0	80,0	115	165	253	352	487	625
<b>Inertia PD<sup>2</sup> HBSX-8-RH kgm<sup>2</sup></b>	0,0668	0,1383	0,7525	1,5263	2,7753	3,1936	5,6541	10,235	21,576	36,567	57,144	97,363
<b>Torsional Stiffness HBSX-8-RH Nm/rad x 10<sup>6</sup></b>	1,2753	2,5506	5,2974	9,5157	16,285	20,111	25,997	35,610	63,078	81,227	97,511	174,81
<b>Nuts tightening torque of element blades N m</b>	23	23	45	45	80	80	80	180	180	380	380	500
<b>Nuts tightening torque of element blades N m</b>	23	45	80	180	380	500	650	950	1700	2100	2100	4200
<b>Axial deflection HBSX-8-RH +/- m m</b>	2,0	2,8	3,6	4,4	4,4	4,4	5,0	5,8	6,6	7,4	8,4	9,8
<b>Max speed RPM</b>	14000	10000	8500	8300	7700	7700	6600	5600	4700	4200	3900	3500

A) Weight and inertia are calculated with steel hubs, standard dimensions and with min bore "d".

B) Torsional stiffness is given between hub flanges for standard dimensions (spacer, elements blades, bolts, adaptors, etc.).

C) Allowable axial misalignment is related to parallel misalignment and viceversa.

D) Before bolts tightening to lock the element blades it is advisable to apply a light oil film on the related threads.

E) Max speed (RPM) are calculated with the main components (hubs, adaptors, spacers, etc.) manufactured in carbon steel and with standard dimensions.  
For higher operational speeds alternative materials or special designs are available.

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