

# 3071 HALF / SPLIT Standard-Range



## Used symbols (使用される記号)

d	[mm]	Nominal diameter of the shrink disc (シュリンクディスク内径)
dW	[mm]	Shaft diameter (軸径)
M <sub>max</sub>	[mm]	Maximal transmittable torque (伝達トルク)
D	[mm]	Outer diameter (シュリンクディスク外径)
ℓ	[mm]	Length of the bush (内輪高さ)
e	[mm]	Excess length (余長 (約))
H	[mm]	Width of the shrink disc (シュリンクディスク高さ)
A	[mm]	Pitch circle diameter (ボルトピッチ形)
B	[mm]	Attachment size (外輪内径)
M <sub>A</sub>	[Nm]	Tightening torque of the clamping screws (ボルト締付トルク)
Z		Number of clamping screws (ボルト数)
S		Size of the clamping screws (ボルトサイズ)
n <sub>max</sub>	[min <sup>-1</sup> ]	Permitted rotational frequency (最大許容回転数)
P <sub>N</sub>	[N/mm <sup>2</sup> ]	Moderate pressure to the hub (中空軸 面圧 (中間値))
I	[kgm <sup>2</sup> ]	Moment of inertia (慣性モーメント)

## Design of the shrink disc (シュリンクディスクのデザイン)

- d < 115 Discs galvanized - without washers (外輪亜鉛メッキ、ワッシャなし)
- d ≥ 115 Discs painted - with washers (外輪塗装、ワッシャあり)

Dimensions H & e in unlocked position (H,e寸法は、無負荷時)

Hexagon head bolts are used as standard. Upon request we provide all sized shrink discs with hexagon socket head bolts (Inbus). (六角ボルト(標準)、六角穴付ボルト(対応可能))

min. yield strength Rp0,2	N/mm <sup>2</sup>
Solid shaft	290
Hub	350

(軸 降伏応力最小値)

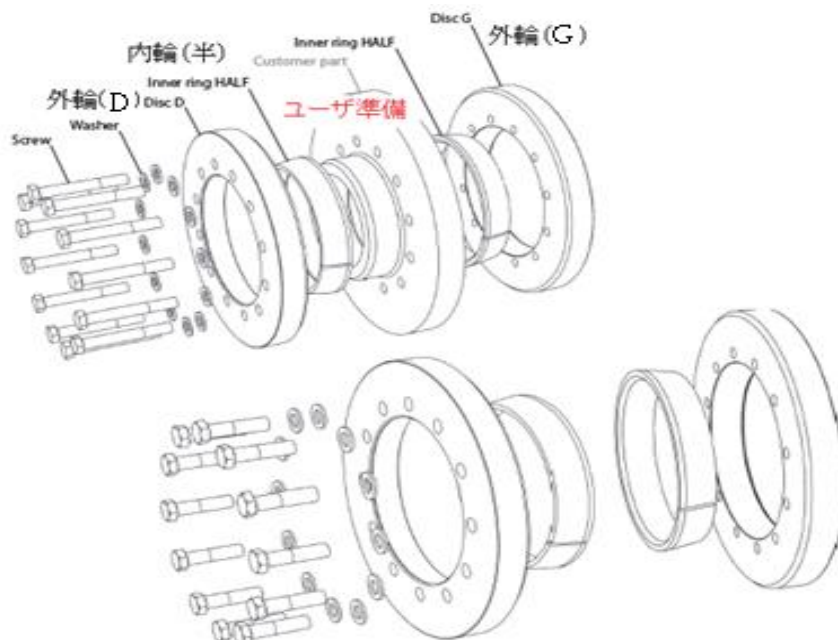
(中空軸 降伏応力最小値)

Ordering information: TAS 3071Typ - d - y (z.B.: TAS 3071GET-200-Y60  
oder TAS 3071HALB-G-200-Y30 oder TAS 3071HALB-D-200)

with Inbus: TAS 3071Typ - d - y - Inbus (z.B.: TAS 3071GET-200-Y60-Inbus u.s.w.)

( 型番指定例 : TAS 3071**GET**-200-Y60 or TAS 3071**HALB**-G-200-Y30 or  
TAS 3071**HALB**-D-200 )

( GETはスプリットです。HALB=HALF でも構いません。詳細は問合せください。 )



標準シャフト径dw からの派生対応領域			
dw径		minimal	maximal
>	≤	-	+
mm	mm	mm	mm
10	30	-1	1
30	50	-3	2
50	140	-5	5
140	180	-10	5
180	320	-15	10
320	500	-20	10
500	700	-30	20
700	820	-40	20
$M = M_{max} (Catalog) \left( \frac{d_W (target)}{d_W (Catalog)} \right)^2$			
$M = M_{max (Catalog)} \left( \frac{d_W (target)}{d_W (Catalog)} \right)^2$			
(see Basics - Calculation)			

**Please note: (ご注意下さい)**

All values refer to shrink disk design HALF! (ハーフ選択時)

Please provide us the dimension of „y“ or the length of screws.

Otherwise we can not provide appropriate screws! (y寸法をかならず教えてください)

Applies to shrink disc design HALF-G: (外輪G選択時)

- The required screw length is: Screw length (必要ボルト長さは以下)  
(3071 Standard-Range) -  $l_1 + 2 a + y$  (rounded up to standard lengths)

Applies to shrink disc design SPLIT: (スプリット選択時)

- The design consists of 1x HALF-D + 1x HALF-G (Dタイプ: 1set + Gタイプ: 1set)
- Delivery is possible with or without screws (ボルト付き/無指定)
- Maximum transmittable torque:  $M_{ges} = 2 M_{max}$  (MTは下記表Mmaxの2倍)
- The required screw length:  
Screw length(3071 Standard-Range) +  $2 a + y$  (rounded up to standard lengths)

## 《寸法性能表》

以下、標準サイズ表示(表記以外のものでも、対応可否検討しますのでお問い合わせください。)

													HALF-D ONLY					
d	dW	Mmax	D	ℓ	a	l <sub>1</sub>	A	B	M <sub>A</sub>	Z	δ <sub>B</sub>	S	DIN	Class	nmax	P <sub>N</sub>	l	Weight
mm	mm	Nm	mm	mm	mm	mm	mm	mm	Nm	Stk	mm				min-1	N/mm <sup>2</sup>	kgm <sup>2</sup>	kg
14	11	14	37	6	0.8	7.5	24	15	24	3	45	M4x12	933	10.9	15400	257	0.0000078	0.04
16	13	39	41	7.5	0.8	9	27	17	48	3	55	M5x14	933	10.9	13900	282	0.0000121	0.05
18	15	59	43	7.5	0.8	9	29	19	48	4	55	M5x14	933	8.8	13300	285	0.0000163	0.06
20	17	110	48	8.5	1.5	11.25	34	24	6	5	55	M5x18	933	10.9	11900	322	0.0000304	0.09
21	18	120	48	8.5	1.5	11.25	34	24	6	5	55	M5x18	933	10.9	11900	307	0.0000309	0.09
22	19	120	48	8.5	1.5	11.25	36	26	6	5	55	M5x18	933	10.9	11900	293	0.0000314	0.09
24	20	150	50	9	1.5	11.5	36	26	6	6	55	M5x18	933	10.9	11400	322	0.0000366	0.09
30	25	180	60	10	2	12.75	44	32	6	6	55	M5x18	931	10.9	9500	225	0.0000844	0.15
36	30	320	72	11	2	13.75	52	38	12	5	66	M6x20	933	10.9	7900	231	0.0001944	0.24
38	31	450	80	12	2	15	56	41	12	7	66	M6x22	933	10.9	7100	275	0.0003334	0.34
40	32	370	75	11.5	2	14.25	57	43	12	6	66	M6x22	933	10.9	7600	236	0.0002438	0.27
41	33	470	80	12	2	14.75	61	46	12	7	66	M6x22	933	10.9	7100	255	0.0003232	0.32
44	35	480	80	12	2	14.75	61	47	12	7	66	M6x22	933	10.9	7100	238	0.0003126	0.3
50	40	640	90	13	2	16	70	53	12	8	66	M6x25	933	10.9	6300	217	0.0005432	0.41
55	45	750	100	14	2.5	17.75	75	58	12	8	66	M6x25	933	10.9	5700	189	0.0009118	0.56
62	50	1000	110	14	2.5	17.75	86	66	12	10	66	M6x25	933	10.9	5200	210	0.0013154	0.66
68	55	1100	115	14	2.5	17.75	86	72	12	10	66	M6x25	933	10.9	4900	191	0.0015395	0.69
75	60	1800	138	16.5	3	20.25	100	79	30	7	9	M8x30	933	10.9	4100	233	0.0037004	1.2
80	65	2000	145	16.5	3	20.25	100	84	30	7	9	M8x30	933	10.9	3900	218	0.0044566	1.3
90	70	3000	155	20	4	24.5	114	94	30	10	9	M8x35	931	10.9	3600	231	0.0068266	1.7
100	75	3600	170	22	4	27	124	104	30	12	9	M8x35	931	10.9	3300	220	0.0106975	2.2
110	80	4400	185	24.5	4	30	136	114	59	9	11	M10x40	931	10.9	3000	208	0.0173719	3
115	80	4600	200	25	4	30	150	124	59	10	11	M10x40	931	10.9	2800	215	0.0239512	3.6
120	85	4800	200	25	4	30	150	124	59	10	11	M10x40	931	10.9	2800	206	0.0238	3.5
125	90	6500	215	26	5	32	160	134	59	12	11	M10x45	931	10.9	2600	226	0.0332444	4.3
140	100	8900	230	28	5	35.25	175	146	100	10	135	M12x50	931	10.9	2400	224	0.0480312	5.3
155	110	11900	265	30	5	37.25	192	165	100	12	135	M12x50	931	10.9	2100	224	0.09425	8
165	120	19300	290	33	5	40.5	210	175	250	8	175	M16x55	931	10.9	1900	258	0.1530719	11
175	130	21300	300	33	5	40.5	220	185	250	8	175	M16x55	931	10.9	1900	243	0.1658594	11
185	140	29500	330	40.5	5	48	236	195	250	10	17.5	M16x70	931	10.9	1700	227	0.3220312	18
195	150	39700	350	40.5	5	48	246	210	250	12	17.5	M16x70	931	10.9	1600	258	0.4013125	20
200	155	40800	350	40.5	5	48	246	210	250	12	17.5	M16x70	931	10.9	1600	252	0.3859375	19
220	165	51800	370	52	8	60	270	230	250	15	17.5	M16x80	931	10.9	1500	231	0.602225	26
240	180	72400	405	54	8	62.5	295	248	490	12	22	M20x90	931	10.9	1400	254	0.8865	32
245	185	73900	410	55.5	8	63.5	298	251	490	12	22	M20x90	931	10.9	1300	241	0.9410156	33
260	190	85300	440	59.5	8	68	321	268	490	14	22	M20x90	931	10.9	1300	244	1.3713	42
280	210	112000	460	67	10	77	346	288	490	16	22	M20x100	931	10.9	1200	234	1.7762	49
300	230	143000	485	71	10	81	364	308	490	18	22	M20x100	931	10.9	1100	230	2.3172	57
320	240	163000	520	71	10	81	386	328	490	20	22	M20x100	931	10.9	1100	239	3.0756	66
340	250	163000	570	77	10	88	408	348	490	24	22	M20x110	931	10.9	1000	205	5.0658	92

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												HALF-D ONLY						
d	dW	Mmax	D	ℓ	a	l <sub>1</sub>	A	B	M <sub>A</sub>	Z	d <sub>B</sub>	S	DIN	Class	n <sub>max</sub>	P <sub>N</sub>	I	Weight
mm	mm	Nm	mm	mm	mm	mm	mm	mm	Nm	Stk	mm				min-1	N/mm <sup>2</sup>	kgm <sup>2</sup>	kg
350	270	228000	580	80	10	91	432	358	490	24	22	M20x110	931	10.9	980	229	5.5068	96
360	290	259000	590	80	10	91	432	368	490	24	22	M20x110	931	10.9	970	222	5.8518	98
380	300	317000	645	85	13	97	458	387	840	20	26	M24x120	931	10.9	880	245	8.8967	127
390	310	348000	660	85	13	97	468	397	840	21	26	M24x120	931	10.9	860	251	9.7705	133
400	320	361000	680	85	13	97	480	407	840	21	26	M24x120	931	10.9	840	245	11.05	142
420	340	445000	690	95	13	107	504	427	840	24	26	M24x130	931	10.9	830	234	12.97	159
440	350	445000	750	101.5	13	114	527	447	840	24	26	M24x140	931	10.9	760	207	19.56	207
460	370	478000	770	101.5	13	114	547	468	840	28	26	M24x140	931	10.9	740	198	21.52	214
480	390	599000	800	109	15	121.5	570	488	840	30	26	M24x150	931	10.9	710	208	26.44	243
500	410	715000	850	109	15	121.5	590	508	1250	24	30	M27x150	931	10.9	670	225	34.04	280
530	440	980000	900	122.5	15	135	620	538	1250	30	30	M27x170	931	10.9	630	232	46.77	343
560	460	1082000	950	122.5	15	135	650	568	1250	32	30	M27x170	931	10.9	600	234	58.07	382
590	480	1257000	980	132.5	15	147.5	685	600	1250	36	30	M27x180	931	10.9	580	229	71.15	435
620	510	1428000	1020	132.5	15	147.5	715	630	1250	38	30	M27x180	931	10.9	560	230	82.99	466
660	540	1838000	1100	145	15	160	760	670	1700	38	33	M30x200	931	10.9	520	238	123	598
700	580	2116000	1200	145	15	160	800	710	1700	40	33	M30x200	931	10.9	470	236	177	733
720	600	2319000	1230	145	15	160	820	730	1700	42	33	M30x200	931	10.9	460	241	195	767
750	620	2483000	1230	155	15	172.5	855	762	1700	44	33	M30x220	931	10.9	460	225	210	810
800	660	2750000	1310	155	15	172.5	905	812	1700	46	33	M30x220	931	10.9	430	220	270	917
850	700	3161000	1330	170	15	187.5	965	862	1700	50	33	M30x230	931	10.9	430	204	302	969
900	740	3475000	1400	170	15	187.5	1015	912	1700	52	33	M30x230	931	10.9	400	200	369	1065
950	780	4210000	1550	185	15	205	1075	962	2800	42	39	M36x250	931	10.9	370	199	643	1556
1000	820	5281000	1620	185	15	205	1125	1012	2800	50	39	M36x250	931	10.9	350	225	763	1685