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ROBA®-DSM

The Torque Measuring Machine Element

P.971005.V00.EN

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Construction and Development

Innovations for Your Success

With our innovative and economical solutions, we are able to set new records in the field of power transmission. Our many worldwide patents prove our constant ambition to develop better and technologically superior products.

Highly qualified engineers, high-performance 3D-CAD-systems and the most up-to-date FEM calculation aids used in our Development and Construction departments mean that our business is perfectly equipped to offer our customers effective solutions.

Experts for all Power Transmission Questions

Exploit our know-how, gained by decades of experience in the development, production and application of power transmission products. Our experts in Construction and Development are happy to advise you personally and competently when selecting and dimensioning the drive solution you require.

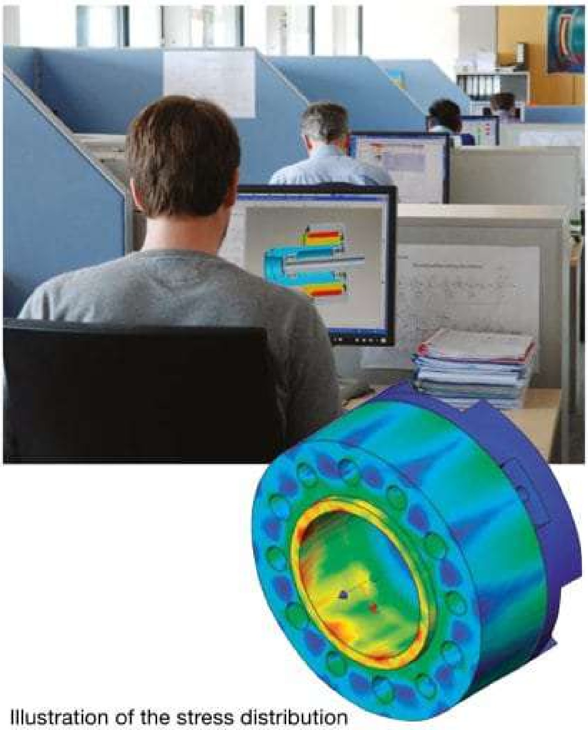


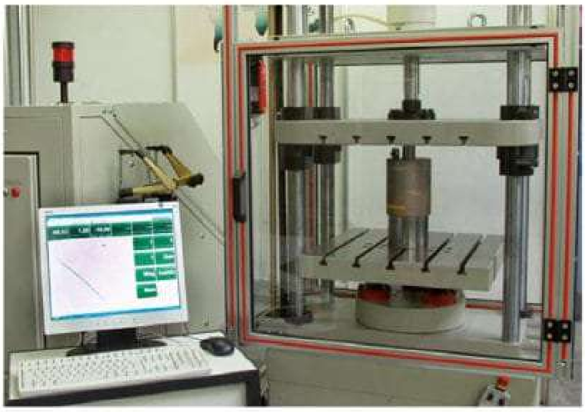
Illustration of the stress distribution in a backlash-free shaft connection

From Prototype to Finished Product

No mayr® product is released onto the market until it has proved its functional capabilities and reliability in extreme, long-term tests.

The spectrum of testing stands is as varied as our range of products:

- ❑ Friction work test stands
- ❑ Wear test stands
- ❑ Noise measurement room with highly accurate noise measurement inspection devices
- ❑ Torque inspection stands up to 200.000 Nm
- ❑ Impact alternating load test stands
- ❑ Force test stands
- ❑ Linear movement test stands
- ❑ Continuous performance test stands
- ❑ Magnetic flow measurement test stands
- ❑ High-speed test stands up to 20.000 rpm
- ❑ Misalignment and angular misalignment test stands
- ❑ Load and measurement test stands for DC motors



Product Data: Our 24-hour Service

Our website offers you detailed information 24 hours per day, 365 days per year with no delays. Here you can find not only the latest catalogues and technical documentation but also CAD-files for cost-saving construction of our products.

Unsurpassed - Our Standard Program

For safety clutches, safety brakes, backlash-free shaft couplings and high-quality DC drives, we offer you a complete product range with market and branch optimised constructions and designs.

A Worldwide Presence

Our Sales and Service network is constantly expanding. We guarantee you and your customers local representation almost all over the world. With eight branch firms in France, Switzerland, Italy, England, Poland, the USA, Singapore and China as well as around 30 representatives and eight subsidiaries in Germany, we provide local service for our customers in all important industrial areas.

Total Quality Management

Product Quality

Every delivery which leaves our firm has been subjected to a careful quality inspection, meaning that you are able to rely 100 % on *mayr*® products. If required, we pre-adjust our clutches and brakes accurately to the requested values and confirm the product characteristics with an Inspection Report.

Quality Management

mayr® uses the term quality to describe its products and services. Certification of our quality management confirms the quality-consciousness of our colleagues at every level of the company.

Our integrated management system is certified according to **DIN EN ISO 9001:2000 (Quality)** and **DIN EN ISO 14001 (Environment)** and complies with the **OHSAS 18001/OHRIS (Occupational Health and Safety)** demands.

Individual and Flexible Logistics

Flexible and optimally qualified colleagues ensure that your order is delivered according to schedule and with the most appropriate delivery method. We take into account your individual packaging and dispatch regulations as a matter of course. Our modern high rack warehouse has a permanently available stock of our wide standard product selection.

And if you are really in a hurry, simply use our uniquely-quick basic product delivery service!

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ROBA®-DSM – the measuring machine element

The torque measuring shaft coupling ROBA®-DSM is based on the tried and tested backlash-free ROBA®-DS disk pack coupling. The areas of application for this torque measurement coupling range from test stand construction through use in serial production machines right up to condition monitoring. The system permits uncomplicated condition monitoring of machines and systems. Machines can be optimally utilised through evaluation of the coupling data.

Valuable data for maximum productivity

The ROBA®-DSM monitors machines and records the measurement values 1). From this data, important information can be obtained for the user:

- Machine performance data
- Unpermitted operating conditions lying outside the specifications (in case of a defect or reclaim)
- Utilisation or runtime of the machine
- Current operating conditions and condition changes to the machine for preventative maintenance purposes
- Dynamic maintenance intervals dependent on the utilisation

Fig. 1

Highlights and system advantages

- Direct PC connection possible (USB connection)
- Software for visualisation of the measurement values available as an option
- Use without bearings
- Wide temperature range from -20 ° to +70 °
- Simple installation and set-up
- Low space requirements on the drive line, no torque support required
- Resistant to vibrations and distance changes on the energy transmitter
- Housing and plug-in connector suitable for industrial purposes (protected against water spray)
- High measuring rate of 7000 measurements per second permits the recording of highly-dynamic loads
- Operation of extension sensor without battery via contactless power supply

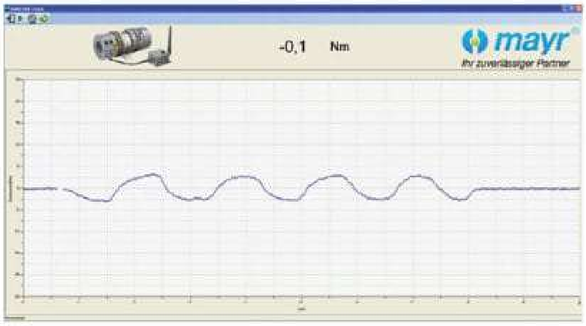

Fig. 2

Order number

	HUB 1	HUB 2	
Key hub, standard (Fig. 7)	0	0	Key hub, standard (Fig. 7)
Key hub, large (Fig. 8)	1	1	Key hub, large (Fig. 8)
Shrink disk hub / external clamping (Fig. 9)	2	2	Shrink disk hub / external clamping (Fig. 9)
Clamping ring hub (Fig. 11)	4	4	Clamping ring hub (Fig. 11)
Clamping hub (Figs. 1, 3 and 12)	5	5	Clamping hub (Figs. 1, 3 and 12)
Flange (Fig. 13)	6	6	Flange (Fig. 13)
Split clamping hub 3) (Fig. 14)	8	8	Split clamping hub 3) (Fig. 14)
Shrink disk hub, large (Fig. 10)	9	9	Shrink disk hub, large (Fig. 10)

__ / 9 7 1 . __ __ 5 / __ / __

Sizes	Bore 2) Hub 1 ø	Bore 2) Hub 2 ø
16 to 160	(See Dimensions sheets pages 8 – 9)	(See Dimensions sheets pages 8 – 9)

Example: 16 / 971.005 / Hub 1 – ø 25 H7 / Hub 2 – ø 30 H7

1) Recording of the measurement values possible only with the aid of appropriate software
2) Standard H7, other tolerances possible
3) For Type 971.885 (double-sided split clamping hub), radial installation/disassembly is not possible as the hubs are offset at an angle.

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ROBA®-DSM

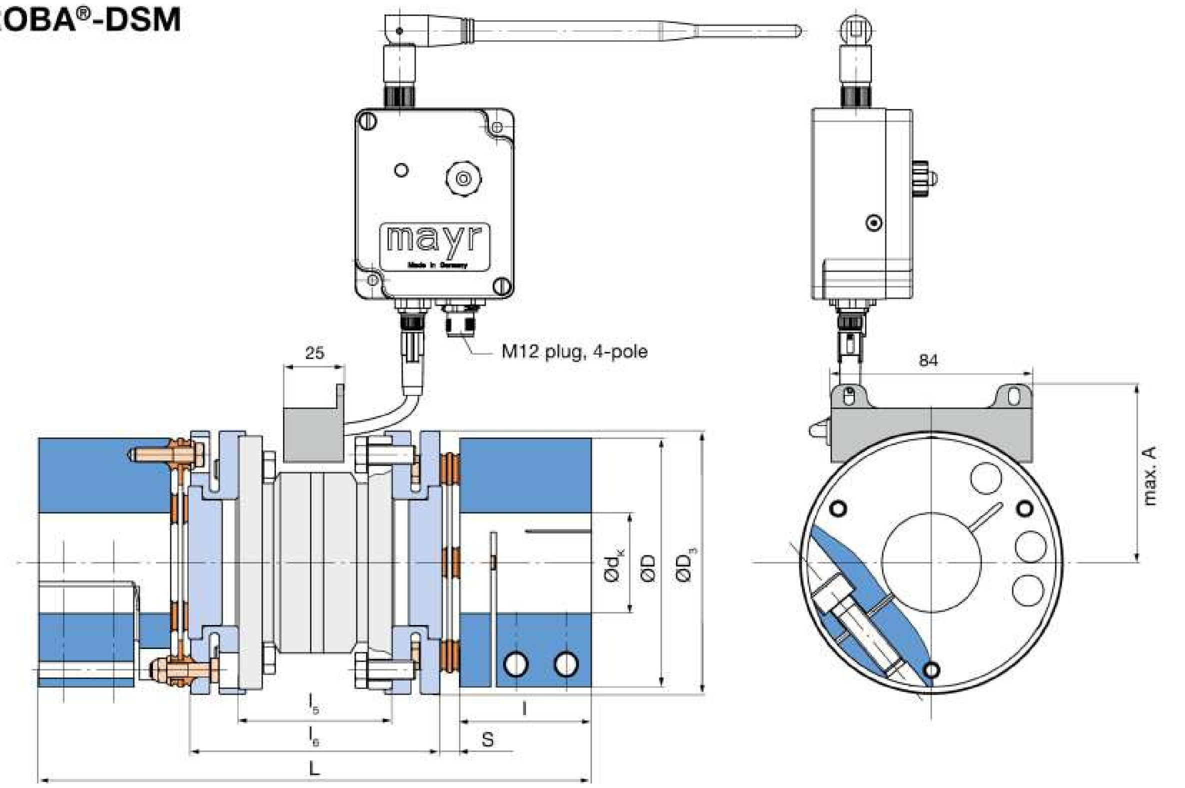

Fig. 3: Type 971.555 (for other mounting variants, see pages 7 – 9)

Technical data and main dimensions				Size			
				16	**40**	**100**	**160**
Nominal torque [1) 2)]		T_{KN}	[Nm]	190	450	800	1600
Peak torque [3)]		T_{KS}	[Nm]	285	675	1200	2400
Ultimate torque		T_{KB}	[Nm]	570	1350	2400	4800
Minimum hub bore Type 971.555 (Figs. 1 and 3) [4) 5)]		$d_{K\,min}$	[mm]	20	25	32	40
Maximum hub bore Type 971.555 (Figs. 1 and 3) [4) 5)]		$d_{K\,max}$	[mm]	45	60	90	100
Maximum speed		n_{max}	[rpm]	9500	7000	5100	4300
Permitted misalignments [6)]	Permitted axial displacement [7) 8)]	ΔK_a	[mm]	0,8	1,1	1,5	1,7
	Permitted angular misalignment [9)]	ΔK_w	[mm]	0,7	0,7	0,7	0,7
	Permitted radial misalignment [7)]	ΔK_r	[mm]	1,1	1,3	1,6	1,8
Spring rigidities	Total torsional rigidity		[10^3 Nm/rad]	36,2	114,3	320	585
	Angular spring rigidity [9)]		[Nm/rad]	229	298	1089	1990

Mass moments of inertia J [10^{-3}kgm²]

Size	16	40	100	160
Clamping hub [5) 10)]	0,74	3,64	16,94	34,32
Disk pack	0,08	0,26	1,19	3,27
Adaptor flange	0,38	1,67	7,06	15,36
Extension sensor	0,51	2,21	7,97	20,04

Weights [kg]

Size	16	40	100	160
Clamping hub [5) 10)]	0,73	2,05	4,82	6,94
Disk pack	0,08	0,15	0,35	0,67
Adaptor flange	0,43	1,11	2,44	3,89
Extension sensor	0,58	1,34	2,91	4,27

Dimensions [mm]

Size	16	40	100	160
A	55,5	63,7	74,3	87,5
D	77	104	143	167
D_3	82	110	150	175
l [5)]	40	55	75	85
l_5	54	64	72	78
l_6	84	104	122	136
L [5)]	178,2	230,8	292	329,2
S	7,1	8,4	10	11,6

1) Other torques and construction sizes available on request.

2) Valid for changing load direction as well as for max. permitted shaft misalignment. The following applies for split clamping hubs (Type 971.8_5): Valid for unchanging load direction as well as for max. permitted shaft misalignment. When the load direction changes, max. 60% of the stated nominal torque is permitted.

3) Valid for unchanging load direction, max. load cycles ≤ 10^5.

4) Transmittable torques dependent on bore, see page 10.

5) For technical data on alternative mounting variations, see pages 8 – 9.

6) The permitted misalignments must not simultaneously reach their maximum values.

7) The values refer to couplings with 2 disk packs.

8) Only permitted as a static or virtually static value.

9) The values refer to 1 disk pack.

10) Mass moments of inertia and weights are valid for maximum bore.

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ROBA®-DSM measuring system

ROBA®-DSM receiver

The ROBA®-DSM receiver establishes the contactless connection to the extension sensor and supplies it with energy via the ROBA®-DSM stator.

ROBA®-DSM stator

The stator must be aligned centrally to the extension sensor. The radial distance can total between 1 mm and 5 mm. After correct assembly, the LED on the ROBA®-DSM receiver lights up green and signalises correct data transfer. The extension sensor is rotated slowly by 360° for inspection purposes.
If the LED lights up red at different angular positions, please select a different mounting place for the ROBA®-DSM receiver.

Technical data

Supply voltage:	24 VDC (±10 %)
Max. current consumption:	1 A
Measuring signal output:	0 ... ±10 V (rotational direction right positive, 10 V refers to T_{KN})
Nominal temperature range:	-20 °C to +70 °C
Temperature drift, zero point:	0,04 % of final value / K
Temperature drift, measured value:	0,03 % of final value / K
Max. total error:	< 1 % of final value
Bandwidth:	3 kHz (-3 dB)
Max. dyn. load:	100 % of T_{KN}
Protection:	Receiver / stator IP65 Extension sensor IP52
Permitted speed:	0 ... n_{max} (Technical data, page 5)

Electrical connection (Fig. 4)

- The ROBA®-DSM receiver is equipped manufacturer-side with a firmly installed 4-pole, A-encoded M12 plug.
- The voltage supply takes place via
  Pin 1 = +24 V ±10 % and
  Pin 3 = GND.
- The output signal is provided to
  Pin 4 = Ua torque 0 ... ±10 V and
  Pin 2 = GND
- The digital measurement data can be read into a PC directly via the USB port using the *mayr*®-software.
- The radio ID and the radio channel can be set and the offset compensation can be carried out via the USB port using the service software.

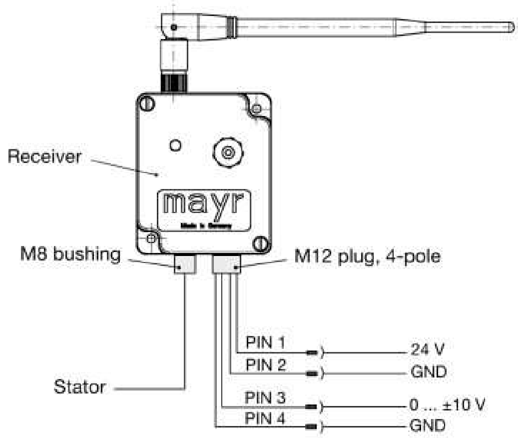

Fig. 4

Detail drawing

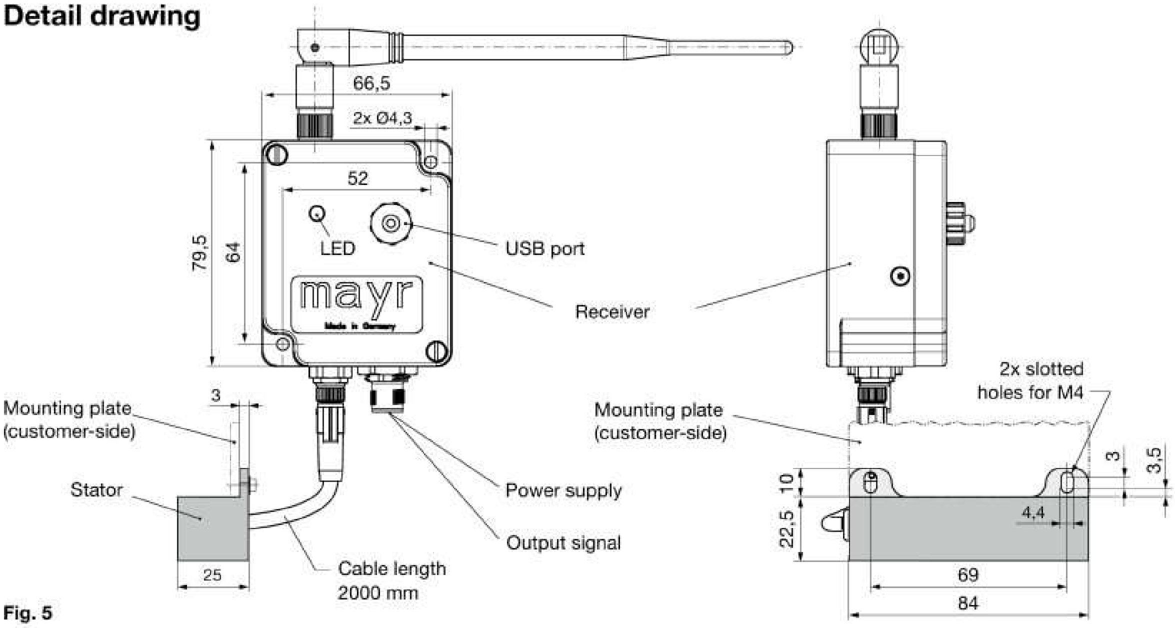

Fig. 5

ROBA®-DSM configuration possibilities/standard designs

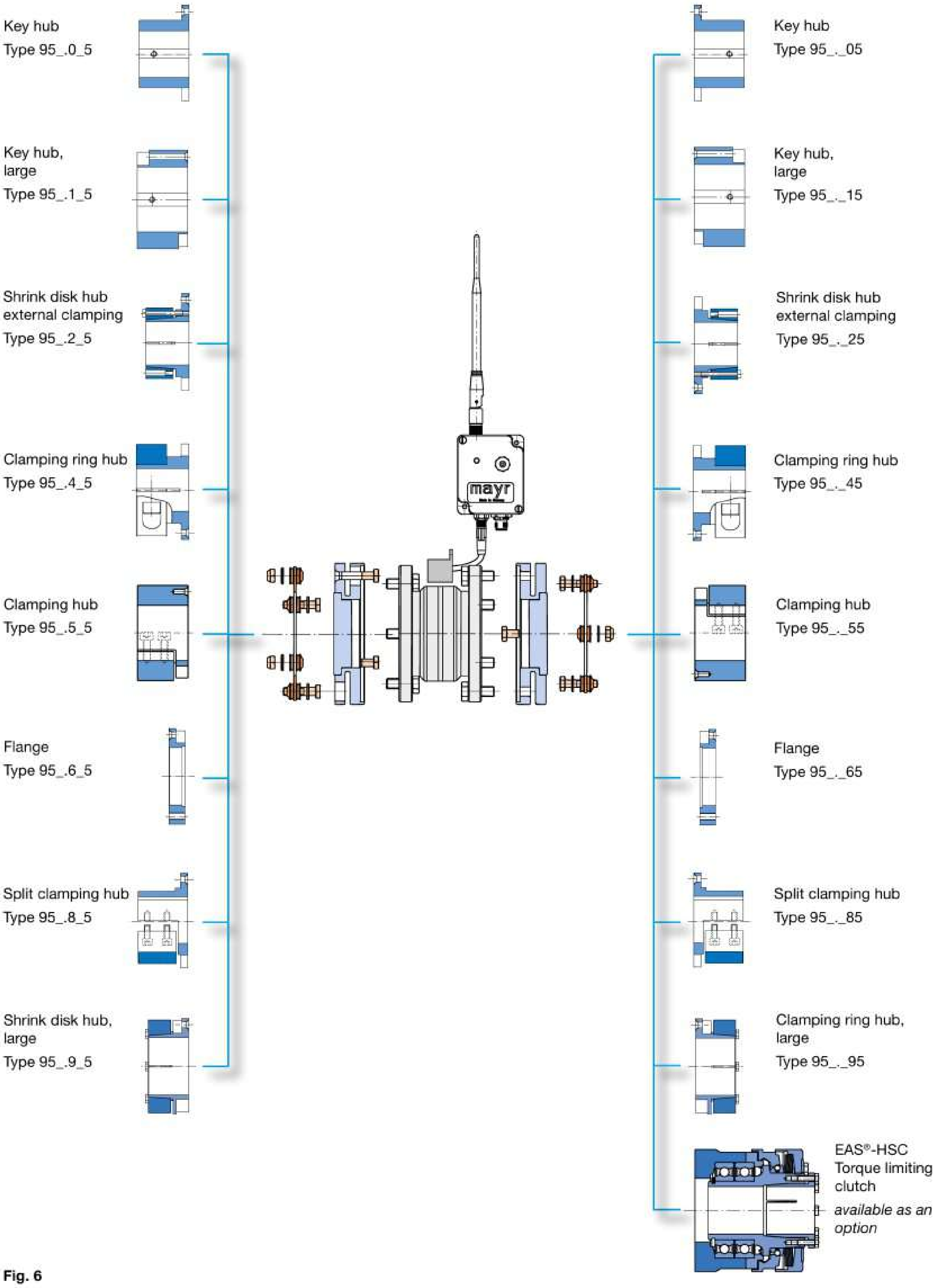

Fig. 6

Key hub

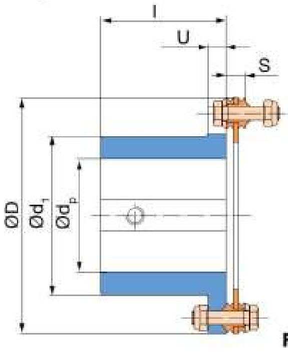

Fig. 7

Dimensions [mm]

Size	16	40	100	160
$d_{p\,min}$	16	25	35	40
$d_{p\,max}$	32	50	70	80
D	77	104	143	167
d_1	50	70	100	115
L	178,2	230,8	292	329,2
l	40	55	75	85
S	7,1	8,4	10	11,6
U	7	8	10	12

Mass moment of inertia J [10^{-3} kgm²]

Size	16	40	100	160
Hub 1)	0,27	1,16	6,18	12,51

Weight [kg]

Size	16	40	100	160
Hub 1)	0,46	1,02	2,83	4,25

1) Mass moment of inertia and weight are valid for maximum bore.

Key hub, large

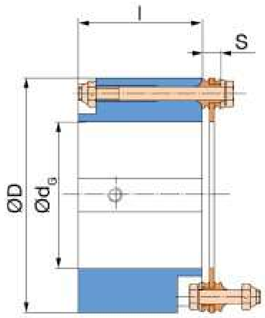

Fig. 8

Dimensions [mm]

Size	16	40	100	160
$d_{G\,min}$	30	45	65	75
$d_{G\,max}$	45	65	95	110
D	77	104	143	167
L	178,2	230,8	292	329,2
l	40	55	75	85
S	7,1	8,4	10	11,6

Mass moment of inertia J [10^{-3} kgm²]

Size	16	40	100	160
Hub 1)	0,86	3,89	18,12	36,00

Weight [kg]

Size	16	40	100	160
Hub 1)	0,87	2,08	4,94	7,23

1) Mass moment of inertia and weight are valid for maximum bore.

Shrink disk hub / external clamping

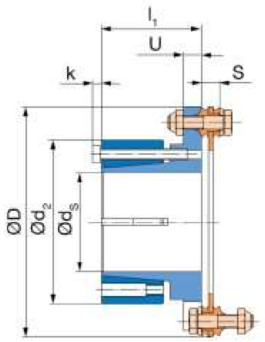

Fig. 9

Dimensions [mm]

Size	16	40	100	160
$d_{S\,min}$ 2)	14	25	35	40
$d_{S\,max}$ 2)	26	45	55	65
D	77	104	143	167
d_2	53	74	104	118
k	3,5	3,5	5,5	5,5
L	168,2	210,8	252	279,2
l_1	35	45	55	60
S	7,1	8,4	10	11,6
U	7	8	10	12

Mass moment of inertia J [10^{-3} kgm²]

Size	16	40	100	160
Hub 1)	0,27	1,15	5,59	11,14

Weight [kg]

Size	16	40	100	160
Hub 1)	0,49	1,03	2,73	3,99

1) Mass moment of inertia and weight are valid for maximum bore.
2) Transmittable torques dependent on bore, see page 10.

Shrink disk hub, large

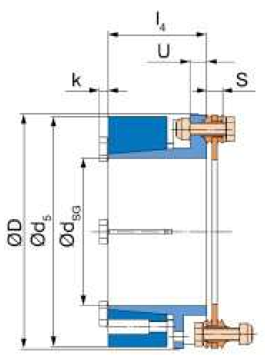

Fig. 10

Dimensions [mm]

Size	16	40	100	160
$d_{SG\,min}$ 2)	25	40	55	65
$d_{SG\,max}$ 2)	45	60	90	100
D	77	104	143	167
d_5	77	100	143	162
k	3,5	3,5	5,5	5,5
L	178,2	220,8	262	299,2
l_4	40	50	60	70
S	7,1	8,4	10	11,6
U	7	8	10	12

Mass moment of inertia J [10^{-3} kgm²]

Size	16	40	100	160
Hub 1)	0,78	2,88	13,77	27,35

Weight [kg]

Size	16	40	100	160
Hub 1)	0,79	1,71	3,92	6,08

1) Mass moment of inertia and weight are valid for maximum bore.
2) Transmittable torques dependent on bore, see page 10.

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Clamping ring hub

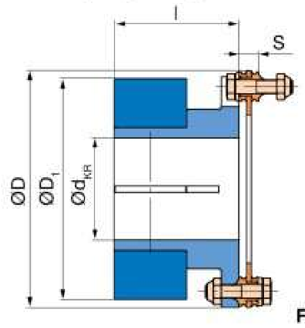


Fig. 11

Dimensions [mm]

Size	16	40	100	160
$d_{KR\ min}$ 2)	20	25	32	40
$d_{KR\ max}$ 2)	35	45	68	80
D	77	104	143	167
D_1	73	97	135	158
L	178,2	230,8	292	329,2
l	40	55	75	85
s	7,1	8,4	10	11,6

Mass moment of inertia J [10^{-3} kgm²]

Size	16	40	100	160
Hub 1)	0,63	2,84	13,49	28,71

Weight [kg]

Size	16	40	100	160
Hub 1)	0,76	2,00	4,90	7,61

1) Mass moment of inertia and weight are valid for maximum bore.
2) Transmittable torques dependent on bore, see page 10.

Clamping hub

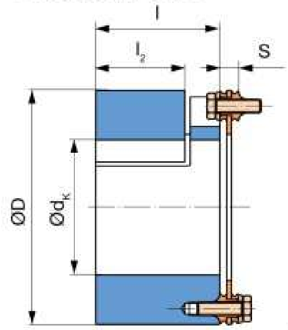


Fig. 12

Dimensions [mm]

Size	16	40	100	160
$d_{K\ min}$ 2)	20	25	32	40
$d_{K\ max}$ 2)	45	60	90	100
D	77	104	143	167
L	178,2	230,8	292	329,2
l	40	55	75	85
l_2	27	39,6	54,5	60
s	7,1	8,4	10	11,6

Mass moment of inertia J [10^{-3} kgm²]

Size	16	40	100	160
Hub 1)	0,74	3,64	16,94	34,32

Weight [kg]

Size	16	40	100	160
Hub 1)	0,73	2,05	4,82	6,94

1) Mass moment of inertia and weight are valid for maximum bore.
2) Transmittable torques dependent on bore, see page 10.

Flange

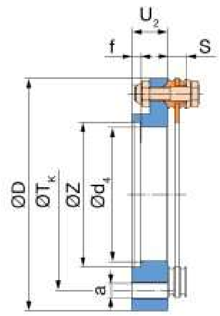


Fig. 13

Dimensions [mm]

Size	16	40	100	160
Z^{H7}	45	65	92	105
a	6 x M8	6 x M10	6 x M12	6 x M14
D	77	104	143	167
d_4	40	60	85	100
f	4	4	5	5
L	128,2	156,8	182	215,2
s	7,1	8,4	10	11,6
T_K	62	86	116	140
U_2	15	18	20	28

Mass moment of inertia J [10^{-3} kgm²]

Size	16	40	100	160
Flange 1)	0,23	0,89	3,87	9,48

Weight [kg]

Size	16	40	100	160
Flange 1)	0,26	0,52	1,16	2,10

1) Mass moment of inertia and weight are valid for maximum bore.

Split clamping hub

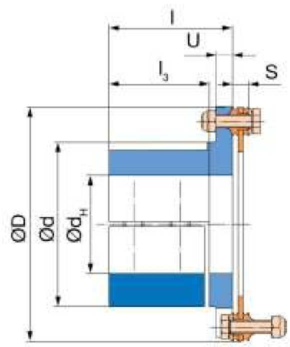


Fig. 14

Dimensions [mm]

Size	16	40	100	160
$d_{H\ min}$ 2) 3)	18	25	35	40
$d_{H\ max}$ 2) 3)	28	40	60	75
D	77	104	143	167
d	50	70	100	115
L	178,2	230,8	292	329,2
l	40	55	75	85
l_3	31	43	61	69
s	7,1	8,4	10	11,6
U	7	8	10	12

Mass moment of inertia J [10^{-3} kgm²]

Size	16	40	100	160
Hub 1)	0,25	1,20	6,31	12,49

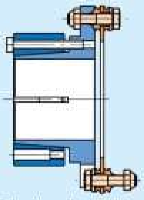
Weight [kg]

Size	16	40	100	160
Hub 1)	0,47	1,21	3,17	4,45

1) Mass moment of inertia and weight are valid for maximum bore.
2) Transmittable torques dependent on bore, see page 10.
3) **Optional** keyway design according to DIN 6885 possible.

Frictionally locking transmittable torques of shrink disk hubs, clamping ring hubs, clamping hubs and split clamping hubs – dependent on bore

Shrink disk hubs



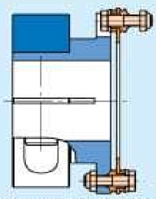
Frictionally locking transmittable torques **Shrink disk hubs**

Suitable for H7 / g6

T_R [Nm]

Bore	Size 16	40	100	160
Ø14	157	-	-	-
Ø16	179	-	-	-
Ø20	240	-	-	-
Ø22	269	-	-	-
Ø25	312	438	-	-
Ø28	-	491	-	-
Ø30	-	526	-	-
Ø32	-	600	-	-
Ø35	-	669	1090	-
Ø38	-	741	1184	-
Ø40	-	796	1246	1794
Ø42	Caution!	852	1320	1884
Ø45	Observe	932	1500	2019
Ø50	permitted		1692	2400
Ø55	peak torques		1889	2680
Ø60	for selected		-	2967
Ø65	coupling size		-	3263

Clamping ring hubs



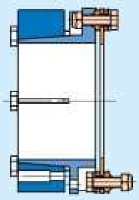
Frictionally locking transmittable torques **Clamping ring hubs**

Suitable for H7 / g6

T_R [Nm]

Bore	Size 16	40	100	160
Ø20	126	-	-	-
Ø22	138	-	-	-
Ø25	168	327	-	-
Ø28	201	366	-	-
Ø30	216	420	-	-
Ø32	230	470	785	-
Ø35	251	515	859	-
Ø38	-	559	932	-
Ø40	-	588	1050	1256
Ø45	-	661	1240	1413
Ø50	-	-	1378	1680
Ø55	Caution!	-	1516	1940
Ø60	Observe	-	1654	2117
Ø65	permitted		1792	2293
Ø68	peak torques		1874	2399
Ø70	for selected		-	2470
Ø80	coupling size		-	2822

Shrink disk hubs, large



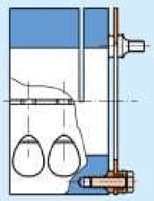
Frictionally locking transmittable torques **Shrink disk hubs, large**

Suitable for H7 / g6

T_R [Nm]

Bore	Size 16	40	100	160
Ø25	339	-	-	-
Ø28	404	-	-	-
Ø30	448	-	-	-
Ø32	492	-	-	-
Ø35	558	-	-	-
Ø38	620	-	-	-
Ø40	659	873	-	-
Ø42	694	937	-	-
Ø45	738	1036	-	-
Ø48	-	1132	-	-
Ø50	-	1195	-	-
Ø52	-	1255	-	-
Ø55	-	1338	2074	-
Ø60	-	1454	2366	-
Ø65	-	-	2658	3246
Ø70	Caution!	-	2943	3618
Ø75	Observe	-	3213	3991
Ø80	permitted		3458	4353
Ø85	peak torques		3666	4695
Ø90	for selected		3828	5007
Ø100	coupling size		-	5497

Clamping hubs



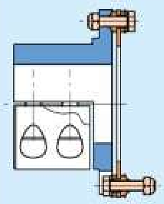
Frictionally locking transmittable torques **Clamping hubs**

Suitable for H7 / g6

T_R [Nm]

Bore	Size 16	40	100	160
Ø20	183	-	-	-
Ø22	202	-	-	-
Ø25	229	604	-	-
Ø28	257	677	-	-
Ø30	275	725	-	-
Ø32	293	773	1102	-
Ø35	321	846	1205	-
Ø38	348	918	1309	-
Ø40	367	967	1378	1839
Ø42	385	1015	1447	1931
Ø45	412	1087	1550	2069
Ø48	-	1160	1653	2207
Ø50	-	1208	1722	2299
Ø52	-	1257	1791	2391
Ø55	-	1329	1894	2529
Ø60	-	1450	2066	2759
Ø65	-	-	2239	2989
Ø68	-	-	2342	3127
Ø70	-	-	2411	3219
Ø75	Caution!	-	2583	3449
Ø80	Observe	-	2755	3679
Ø85	permitted	-	2927	3909
Ø90	peak torques		3100	4139
Ø95	for selected		-	4369
Ø100	coupling size		-	4599

Split clamping hubs, large



Frictionally locking transmittable torques **Split clamping hubs**

Suitable for H7 / g6

T_R [Nm]

Bore	Size 16	40	100	160
Ø18	130	-	-	-
Ø20	144	-	-	-
Ø22	158	-	-	-
Ø25	180	326	-	-
Ø28	202	365	-	-
Ø30	-	391	-	-
Ø32	-	418	-	-
Ø35	-	457	897	-
Ø38	-	496	973	-
Ø40	-	522	1025	1218
Ø42	-	-	1076	1279
Ø45	-	-	1153	1370
Ø50	-	-	1281	1522
Ø55	Caution!	-	1409	1675
Ø60	Observe	-	1537	1827
Ø65	permitted	-	-	1979
Ø68	peak torques		-	2071
Ø70	for selected		-	2131
Ø75	coupling size		-	2284

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Product Summary

Safety Clutches/Overload Clutches

- **EAS®-Compact®/EAS®-NC**
  Positive locking and completely backlash-free torque limiting clutches
- **EAS®-smartic®**
  Cost-effective torque limiting clutches, quick installation
- **EAS®-element clutch/EAS®-elements**
  Load-disconnecting protection against high torques
- **EAS®-axial**
  Exact limitation of tensile and compressive forces
- **EAS®-Sp/EAS®-Sm/EAS®-Zr**
  Load-disconnecting torque limiting clutches with switching function
- **ROBA®-slip hub**
  Load-holding, frictionally locked torque limiting clutches
- **ROBA®-contitorque**
  Magnetic continuous slip clutches

Shaft Couplings

- **smartflex®**
  Perfect precision couplings for servo and stepping motors
- **ROBA®-ES**
  Backlash-free and damping for vibration-sensitive drives
- **ROBA®-DS/ROBA®-D**
  Backlash-free, torsionally rigid all-steel couplings
- **EAS®-control-DS**
  Cost-effective torque-measuring couplings

Electromagnetic Brakes/Clutches

- **ROBA-stop® standard**
  Multifunctional all-round safety brakes
- **ROBA-stop®-M motor brakes**
  Robust, cost-effective motor brakes
- **ROBA-stop®-S**
  Water-proof, robust monoblock brakes
- **ROBA-stop®-Z/ROBA-stop®-silenzio®**
  Doubly safe elevator brakes
- **ROBA®-diskstop®**
  Compact, very quiet disk brakes
- **ROBA®-topstop®**
  Brake systems for gravity loaded axes
- **ROBA®-linearstop**
  Backlash-free brake systems for linear motor axes
- **ROBATIC®/ROBA®-quick/ROBA®-takt**
  Electromagnetic clutches and brakes, clutch brake units

DC Drives

- **tendo®-PM**
  Permanent magnet-excited DC motors
- **tendo®-SC**
  1 quadrant and 4 quadrant transistor controllers

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