

MULTI MONT SELLA - HighSpeed

Flexible Claw Coupling

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SIMPLY **POWERFUL.**





D2C – Designed to Customer

The guiding principle of Designed to Customer is the recipe for success behind REICH. In addition to the catalogue products, we supply our customers with couplings developed to their specific requirements. The designs are mainly based on modular components to provide effective and efficient customer solutions. The special nature of our close cooperation with our partners ranges from; consulting, development, design, manufacture and integration to existing environments, to customer-specific production, logistics concepts and after-sales service - worldwide. This customer-oriented concept applies to both standard products and production in small batch sizes.

The company policy at REICH embraces, first and foremost, principles such as customer satisfaction, flexibility, quality, prompt delivery and adaptability to the requirements of our customers.

REICH supplies not only a coupling, but a solution::
Designed to Customer – SIMPLY **POWERFUL**.

D2C
Designed to Customer

MULTI MONT SELLA - HighSpeed

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MULTI MONT SELLA - HighSpeed

General Technical Description

MULTI MONT SELLA - HighSpeed Flexible Claw Coupling

The torsionally flexible MULTI MONT SELLA couplings (short form: MMS) have been built in series since 1958. This pluggable claw coupling, successfully proven over many years has been continually updated to meet technical developments.

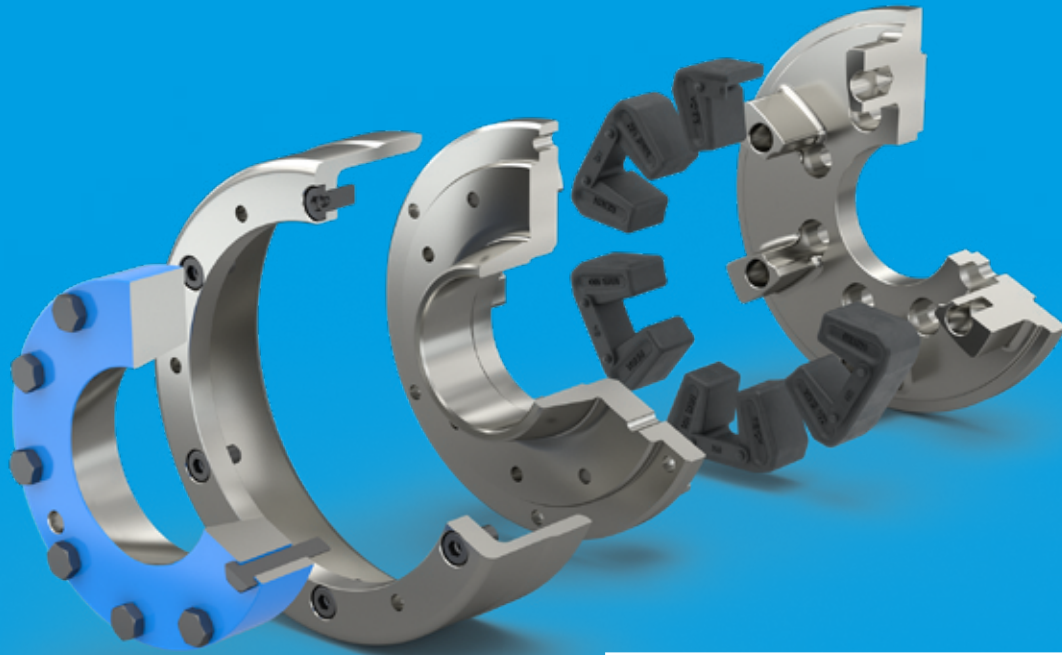
In consistently following the principle of providing the best for the customer, D2C - Designed to Customer, REICH has developed a flexible MULTI MONT SELLA - HighSpeed coupling series (short form: MMS-HS).

Today's drive solutions such as industrial gearboxes and vehicle transmissions, and e-mobility largely owe their tremendously high efficiency and long service life to the test benches on which they are developed and tested prior to their first series application. Test benches for drives place extremely high requirements on the components incorporated into them. The proper functioning of the test bench depends on their reliability and efficiency. REICH takes particular pride in the further development of its proven MULTI MONT SELLA claw coupling into a high speed product.

The latest development and calculation tools including, for example, an FEM-optimized design, and the results of trial runs on in-house test benches and in the field, were implemented into the development process.

The MULTI MONT SELLA product line offers a large variety of different types so that a suitable coupling is available for almost every type of power transmission requirement.

The coupling is fitted with a separately screwed-on retaining cap which encloses the periphery of the rubber elements. This screwed connection is not involved in torque transmission. The elements can be easily replaced radially with no need for axial movement of the coupled machine components after loosening and sliding back the retaining cap.



MULTI MONT SELLA – HighSpeed

Nominal torques from 630 Nm to 3 000 Nm

MULTI MONT SELLA - HighSpeed

Advantages

Salient features and advantages of MULTI MONT SELLA – HighSpeed claw coupling:

- High speeds
- Maintenance-free
- Shock and vibration damping
- Compensation of axial, radial and angular displacements
- Ease of assembly and alignment
- Simple radial element replacement by sliding back the retaining cap
- Fail-safe operation and high overload capability
- High-strength aluminium
- Low weight
- Adaptable to almost any mounting situation

MULTI MONT SELLA - HighSpeed

General Technical Data



Standard Type

Coupling size	Nominal torque	Maximum torque	Dynamic torsional stiffness				Rel. damping	Maximum speed
	T_{KN}	$T_{K max}$	$C_{T dyn}$				ψ	n_{max}
	[Nm]	[Nm]	$0.25 T_{KN}$	$0.5 T_{KN}$	$0.75 T_{KN}$	$1.0 T_{KN}$	-	[min ⁻¹]
MMS - HS 63	630	800	7	10	25	60	1.0	20000
MMS - HS 100	1250	1500	15	25	55	120	1.0	16000
MMS - HS 160	2000	3000	25	35	90	190	1.0	10000
MMS - HS 250	3000	4000	35	55	130	280	1.0	8000

i Technical data for the standard element version SN

Flexible coupling element

Material designation	Code	Permissible temperature range		Feature
			Shortly	
Natural/synthetic caoutchouc Hardness range: 75 - 80° Shore A	SN	-40 °C to 80 °C	90 °C	excellent abrasion resistance

i General technical data for MULTI MONT SELLA couplings with NBR elements on request. Other rubber materials and other shore hardnesses can also be supplied on request.

Balancing

The MULTI MONT SELLA - HighSpeed couplings are balanced as standard with a balancing grade of G 2.5/4000 min⁻¹ according to DIN ISO 21940. If vibrations occur, we recommend carrying out an operational balancing.

Technical Note

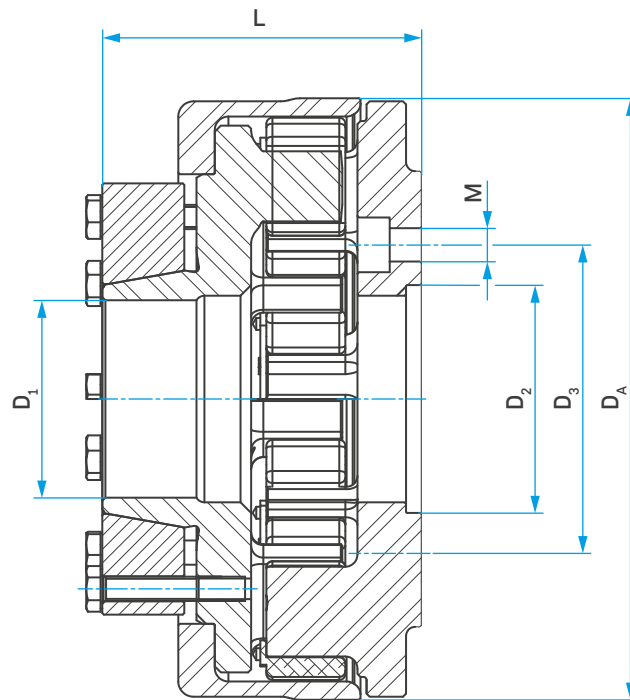
The technical data applies only to the complete coupling or the corresponding coupling elements. It is the customer's/user's responsibility to ensure there are no inadmissible loads acting on any of the components. In particular, existing connections, e.g. bolted connections, must be checked with regard to the torques to be transmitted. If necessary, further measures, such as additional reinforcement with pins, may be necessary. It is the customer's/user's responsibility to make sure the dimensioning of the shaft and keyed or other connection, e.g. shrinking or clamping connection,

is correct. All components that can rust are protected against corrosion as standard.

REICH have an extensive range of couplings and coupling systems to cover nearly every drive configuration. Customized solutions can be developed and manufactured even in small batches or as prototypes. In addition calculation programs are available for all necessary dimensioning.

MULTI MONT SELLA - HighSpeed

Type MMS - HS



Coupling details

Coupling size	D_A	D_1	D_2	D_3		L	Mass moment of inertia J_{total}	Weight m_{total}
	[mm]	H7 [mm]	H7 [mm]	[mm]	M ^{*)}	[mm]	[kgm ²]	[kg]
MMS - HS 63	176	65	75	101.5	M10	90	0.015	4.0
MMS - HS 100	196	65	75	101.5	M10	105	0.030	6.3
MMS - HS 160	230	90	140	196	M16	140	0.079	11.4
MMS - HS 250	257	90	140	196	M16	140	0.106	13.1

i Different mounting options are available by using intermediate flanges

*) Optionally with counterbore or thread

Ordering example

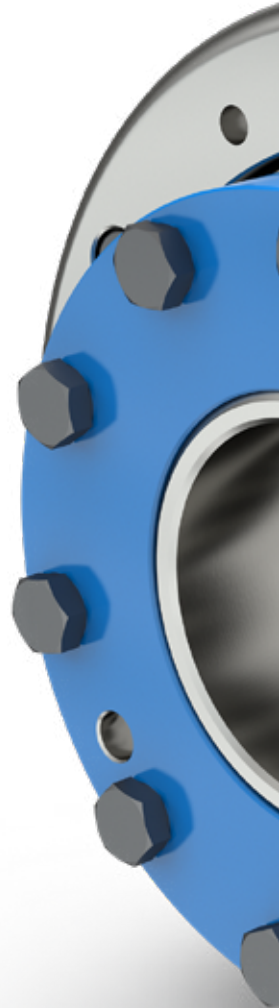
Coupling size	Element version	Flange version	Flange connections	Length
MMS - HS 100	.SN.	F1.	120.	90

Coupling designation: MMS - HS 100.SN. F1. 120. 90









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