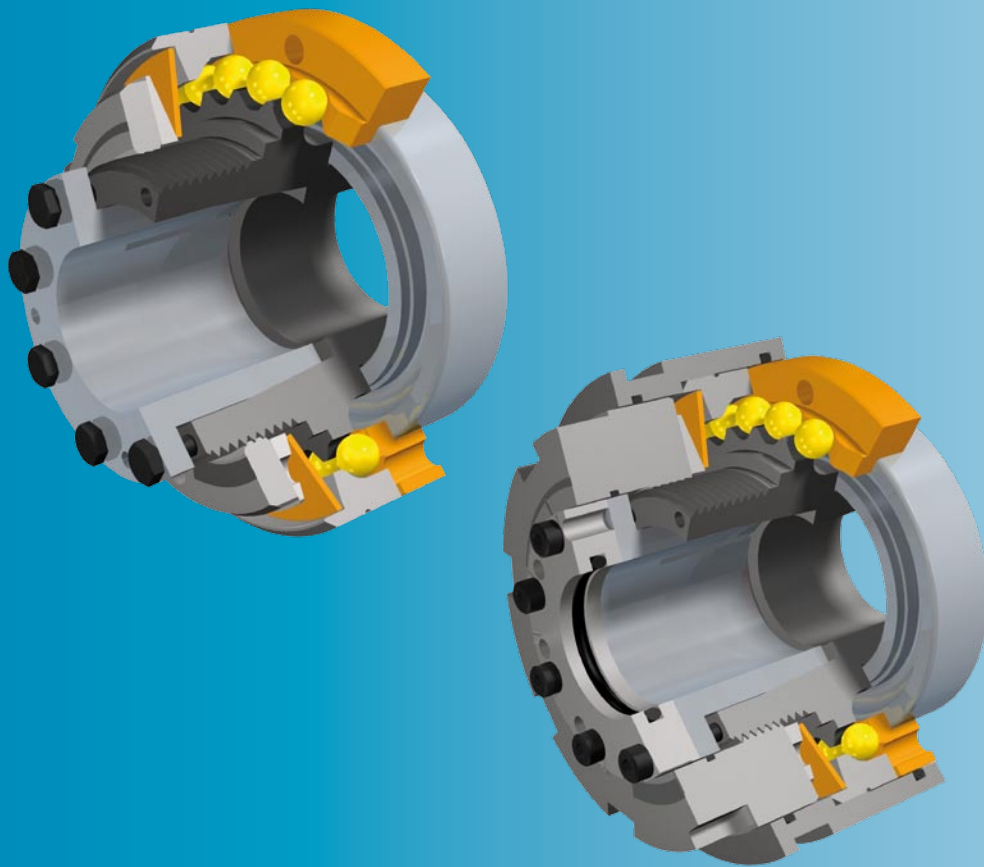


EAS[®]-Compact[®]-R

Rustproof Torque Limiting Clutches



- *Stainless steel design*
- *Immediate disengagement in case of overload*
- *Permanent backlash-free torque transmission*
- *Short delivery times*

www.mayr.com

P.49A.V04.GB

mayr[®]
your reliable partner

Mechanical torque limiting clutches are the only reliable means of maximising the productivity and economic efficiency of machines and systems. These clutches prevent damage in case of malfunctions and collisions and therefore also expensive downtimes and repairs.

In the food industry, the chemical industry and in process engineering, wet conditions, cleaning liquids and aggressive media are part of the everyday ambient conditions, which only torque limiting clutches with high-quality corrosion protection are able to withstand without any damage over long periods of time.

Standard torque limiting clutches are normally unsuitable for such application fields.

mayr® power transmission offers various types of clutches, which are optimally suited for such application fields.

The range includes open designs made of stainless steels, sealed, rustproof clutches, as well as complete, ready-to-mount units with standard flanges for integration between the motor and the gearbox (see brochure EAS®-HTL Housed Torque Limiter).

EAS®-Compact®-R

Completely made of rustproof stainless steel *

We manufacture the EAS®-Compact® in rustproof design for your series requirements.

- Identical in construction to the EAS®-Compact® standard version

EAS®-Compact®-RA sealed

Completely made of rustproof stainless steel with seal *

- No penetration of cleaning liquids or any other media, no emission of grease
- Completely closed due to rustproof seal



- Synchronous function
- Automatic re-engagement
- Mechanical separation of input and output in case of overload
- Exact torque limitation due to high disengagement and repeat accuracies
 - Permanent backlash-free torque transmission
 - Low mass moment of inertia due to compact design
 - Easy torque adjustment
- Long service lifetime due to hardened functional components
- Application of lubricants approved for the food industry



Order Number

_ / 4 9 A . _ _ 5 . _ / _ / _					
▲	▲	▲	▲	▲	
Sizes 0 to 3	Torque range ** medium high very high ***	5 5 6 7	Hub 1 with cone bushing 2 with keyway	Design 0 Not sealed C Sealed	Bore Hub Ø d ^{H7} Ø d ^{H7} With limit switch for possible designs, see catalogue EAS®-Compact® K.490.V_ _GB

Example: Order number 1 / 49A.625.C / 22 / 25 / with limit switch 055.002.5

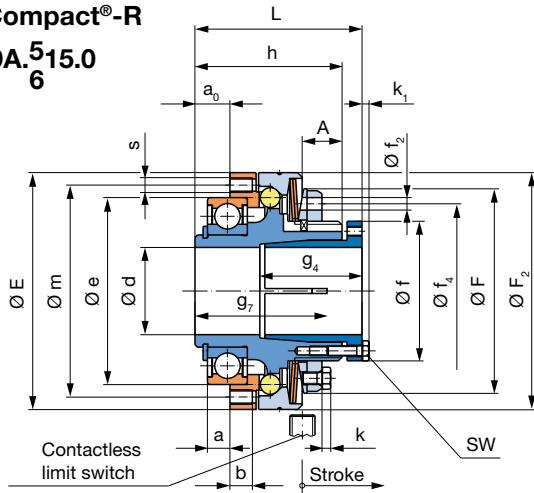
* Cup springs with high quality corrosion protection.

** See Technical Data, limit torque for overload M_G

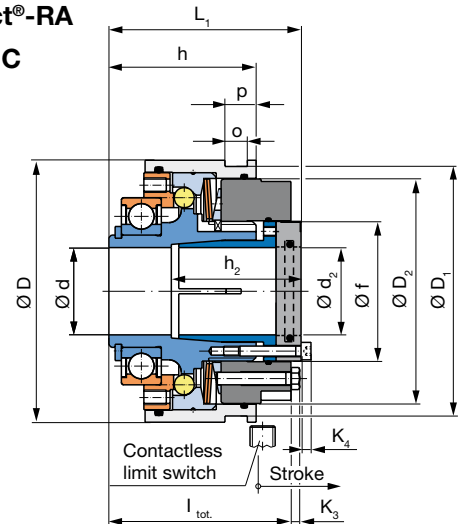
*** Not possible with cone bushing design.

Technical Data				Size			
				0	1	2	3
Limit torques for overload ¹⁾	Type 49A.5_5_	M _G [Nm]	10 - 25	20 - 50	40 - 100	70 - 175	
	Type 49A.6_5_	M _G [Nm]	20 - 50	40 - 100	80 - 200	140 - 350	
	Type 49A.725_ ²⁾	M _G [Nm]	40 - 100	80 - 200	160 - 400	280 - 700	
Max. speed	n _{max} [rpm]		3000	2500	2000	1200	
Thrust washer stroke on overload	[mm]		1,5	1,8	2,0	2,2	

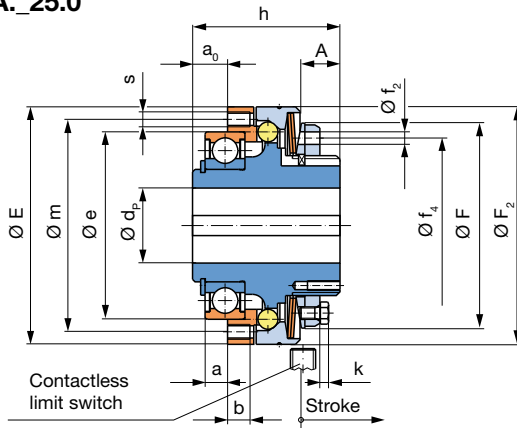
EAS®-Compact®-R
Type 49A.515.0
6



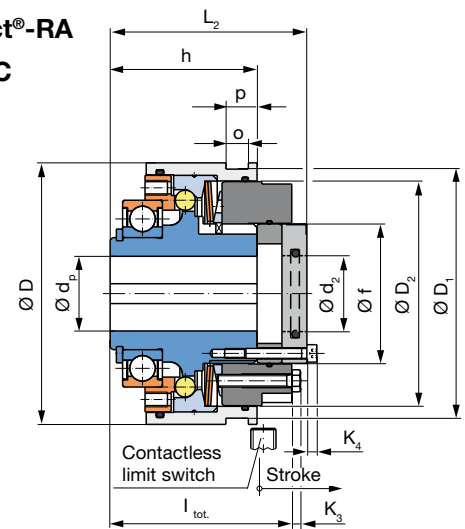
EAS®-Compact®-RA
Type 49A.515.C
6



EAS®-Compact®-R
Type 49A.25.0



EAS®-Compact®-RA
Type 49A.25.C



Dimensions [mm]	Size			
	0	1	2	3
A	13,5	16	17	20,5
a ⁵⁾	7	9	10	10
a ₀	11	14	16	18
b	7	9	10	12
D	90	105	120	140
D ₁	85	100	115	135
D ₂	75	90	105	125
E	80	95	110	130
e _{h5} ⁶⁾	62	75	90	100
F	67	82	97	117
F ₂	80	95	110	130
f	44	56	70	84
f ₂	5	5	6	7
f ₄	55	70	84	100
Min. shaft length	g ₄	39	42	48
	g ₇	36	48	49
	h ₂	47	52	63
h	48	59	64	75
K ₃	2,8	3,5	4	4
K ₄	4	4	5	6
k	2,8	3,5	4,0	4,0
k ₁	2,8	2,8	3,5	4,0
L ⁷⁾	56	67	73	86
L ₁ ⁷⁾	64	77	88	98
L ₂	64	79	84	99

Dimensions [mm]	Size			
	0	1	2	3
I _{tot.}	Dependent on torque setting			
m	71	85	100	116
o	9	9	9	9
p	10,5	12,5	13	14
s	8 x M5	8 x M6	8 x M6	8 x M8
SW	7	7	8	10

For clutch operation from "Torque range high (Type 49A.6_5...)", screws quality class 12.9 must be used for mounting the drive element.

Bores [mm]	Size				
	0	1	2	3	
d ^{3) 4)}	d _{min}	15	22	32	35
	d _{max}	25	35	45	55
d _P ¹⁰⁾	d _{P min} ⁸⁾	15	22	28	32
	d _{P max} ⁹⁾	25	30	40	50
d ₂	Acc. to customer's request - As for standard, without bore.				

We reserve the right to make dimensional and constructional alterations.

- Further sizes for smaller and larger torques available on request.
- Very high torque range only for hubs with keyway.
- Shaft tolerance up to $\varnothing 38_{\text{H}7}$ over $\varnothing 38_{\text{H}8}$.
- Transmittable torques with smaller bores available on request.
- Mounting tolerance + 0,1
- Tolerance user-side H7
- Dimensions in untightened condition (shorter in tightened condition).
- Smaller bores for low torques available on request.
- Larger bores available on request.
- The position of the keyway to the mounting bore "s" in the pressure flange is not defined. Defined position available on request.

Headquarters

Chr. Mayr GmbH + Co. KG
Eichenstrasse 1, D-87665 Mauerstetten
Tel.: 0 83 41/8 04-0, Fax: 0 83 41/80 44 21
www.mayr.com, E-Mail: info@mayr.com



mayr[®]

Service Germany

Baden-Württemberg

Esslinger Straße 7
70771 Leinfelden-Echterdingen
Tel.: 07 11/45 96 01 0
Fax: 07 11/45 96 01 10

Bavaria

Eichenstrasse 1
87665 Mauerstetten
Tel.: 0 83 41/80 41 04
Fax: 0 83 41/80 44 23

Chemnitz

Bornaer Straße 205
09114 Chemnitz
Tel.: 03 71/4 74 18 96
Fax: 03 71/4 74 18 95

Franken

Unterer Markt 9
91217 Hersbruck
Tel.: 0 91 51/81 48 64
Fax: 0 91 51/81 62 45

Hagen

Im Langenstück 6
58093 Hagen
Tel.: 0 23 31/78 03 0
Fax: 0 23 31/78 03 25

Kamen

Lünener Strasse 211
59174 Kamen
Tel.: 0 23 07/23 63 85
Fax: 0 23 07/24 26 74

North

Schiefer Brink 8
32699 Extertal
Tel.: 0 57 54/9 20 77
Fax: 0 57 54/9 20 78

Rhine-Main

Hans-Böckler-Straße 6
64823 Groß-Umstadt
Tel.: 0 60 78/7 82 53 37
Fax: 0 60 78/9 30 08 00

Branch office

China

Mayr Zhangjiagang
Power Transmission Co., Ltd.
Changxing Road No. 16,
215600 Zhangjiagang
Tel.: 05 12/58 91-75 65
Fax: 05 12/58 91-75 66
info@mayr-ptc.cn

Great Britain

Mayr Transmissions Ltd.
Valley Road, Business Park
Keighley, BD21 4LZ
West Yorkshire
Tel.: 0 15 35/66 39 00
Fax: 0 15 35/66 32 61
sales@mayr.co.uk

France

Mayr France S.A.
Z.A.L. du Minopole
BP 16
62160 Bully-Les-Mines
Tel.: 03.21.72.91.91
Fax: 03.21.29.71.77
contact@mayr.fr

Italy

Mayr Italia S.r.l.
Viale Veneto, 3
35020 Saonara (PD)
Tel.: 0 49/8 79 10 20
Fax: 0 49/8 79 10 22
info@mayr-italia.it

Singapore

Mayr Transmission (S) PTE Ltd.
No. 8 Boon Lay Way Unit 03-06,
TradeHub 21
Singapore 609964
Tel.: 00 65/65 60 12 30
Fax: 00 65/65 60 10 00
info@mayr.com.sg

Switzerland

Mayr Kupplungen AG
Tobelackerstrasse 11
8212 Neuhausen am Rheinfall
Tel.: 0 52/6 74 08 70
Fax: 0 52/6 74 08 75
info@mayr.ch

USA

Mayr Corporation
4 North Street
Waldwick
NJ 07463
Tel.: 2 01/4 45-72 10
Fax: 2 01/4 45-80 19
info@mayrcorp.com

Representatives

Australia

Transmission Australia Pty. Ltd.
22 Corporate Ave,
3178 Rowville, Victoria
Australien
Tel.: 0 39/7 55 44 44
Fax: 0 39/7 55 44 11
info@transaus.com.au

China

Mayr Power Transmission Co., Ltd.
Shanghai Representative Office
Room 2206, No. 888 Yishan Road
200233 Shanghai, VR China
Tel.: 0 21/64 32 01 60
Fax: 0 21/64 57 56 21
Trumpf.feng@mayr.de

India

National Engineering
Company (NENCO)
J-225, M.I.D.C.
Bhosari Pune 411026
Tel.: 0 20/27 13 00 29
Fax: 0 20/27 13 02 29
nenco@nenco.org

Japan

MATSUI Corporation
2-4-7 Azabudai
Minato-ku
Tokyo 106-8641
Tel.: 03/35 86-41 41
Fax: 03/32 24 24 10
k.goto@matsui-corp.co.jp

South Africa

Torque Transfer
Private Bag 9
Elandsfontein 1406
Tel.: 0 11/8 99 00 00
Fax: 0 11/8 99 65 74
torque@bearings.co.za

South Korea

Mayr Korea Co. Ltd.
Room No.1002, 10th floor,
Nex Zone, SK TECHNOPARK,
77-1, SungSan-Dong,
SungSan-Gu, Changwon, Korea
Tel.: 0 55/2 62-40 24
Fax: 0 55/2 62-40 25
info@mayrkorea.com

Taiwan

German Tech Auto Co., Ltd.
No. 28, Fenggong Zhong Road,
Shengang Dist.,
Taichung City 429, Taiwan R.O.C.
Tel.: 04/25 15 05 66
Fax: 04/25 15 24 13
abby@zfgta.com.tw

Machine tools

Applications in China
Dynamic Power Transmission Co., Ltd.
Block 5th, No. 1699, Songze Road,
Xujing Industrial Zone
201702 Shanghai, China
Tel.: 021/59883978
Fax: 021/59883979
dtcshanghai@online.sh.cn

More representatives:

Austria, Benelux States, Brazil, Canada, Czech Republic, Denmark, Finland, Greece, Hongkong, Hungary, Indonesia, Israel, Malaysia, New Zealand, Norway, Philippines, Poland, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Thailand, Turkey

You can find the complete address for the representative responsible for your area under www.mayr.com in the internet.

mayr[®]
your reliable partner