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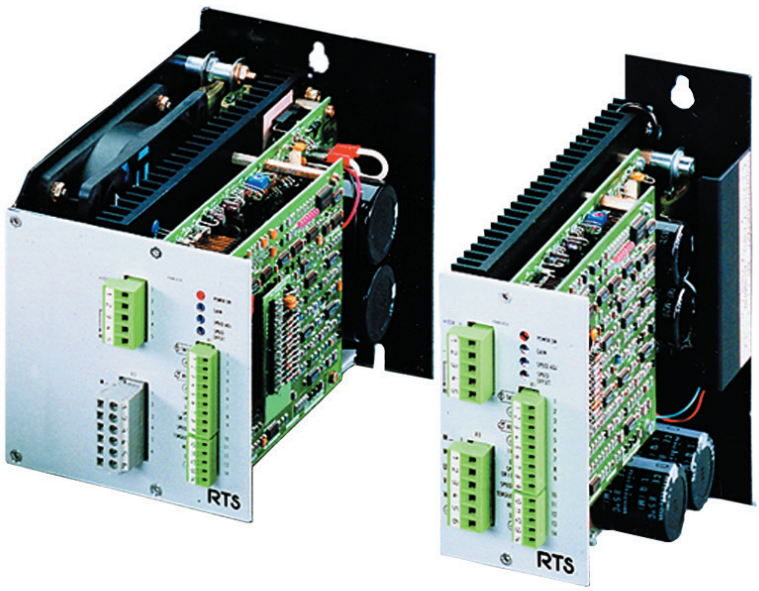
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RTS, RS, RX and AXEM Series

DC Servo Drives



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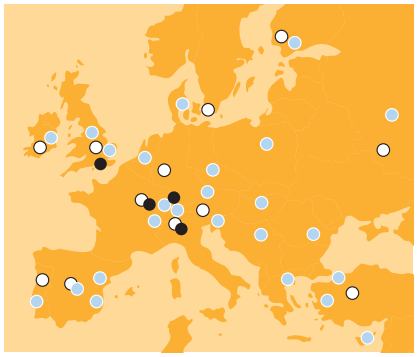
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DC Servo Drive - RTS Series

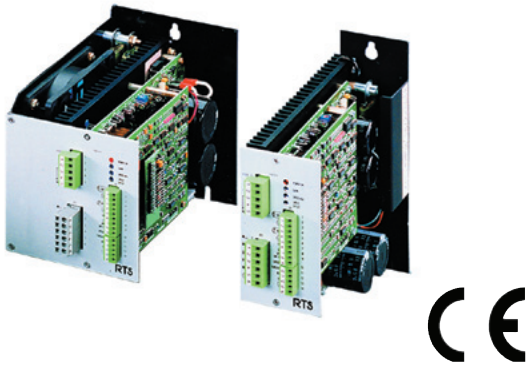
Overview

Description

The RTS servo amplifiers are designed for driving DC servo motors and are available in ratings up to 6.5 kW.
These products enable speed control of DC motors with or without tachometers.
They integrate main supply, auxiliary supply and braking resistor circuits in a compact package.

Features

- **Battery, single-phase or three-phase power supply**
- **U-RI or tachometer control**
- **Integrated braking resistor**
- **Full protecting features**
- **High compactness**
- **Panel or rack mounting**
- **3U Eurocard**



Technical Characteristics - Overview

Power supply	Single phase, three phase or battery
Nominal current	3...40 A
Peak current	10...80 A
Operating Temperature	0...40 °C (derate by 35 % per 10 °C >40 °C to 60 °C max.)
Altitude	1000 m (derate by 10 % >1000 m per 1000 m to 4000 m max.)
Protection	IP00, IP20 for versions with covering cap

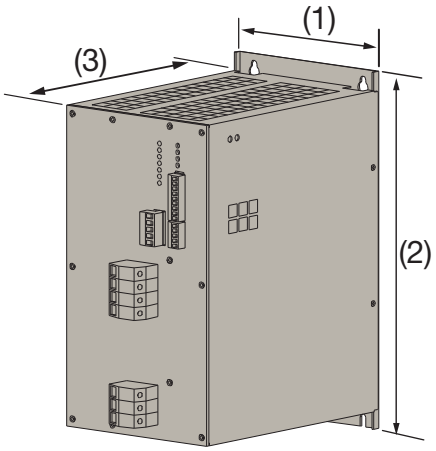
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Technical Data

Product type	Power supply input [V..]	Output current (nominal/peak) [A]	Nominal output voltage [VDC]	Associated transformer (minimum power)
Panel mounting				
RTS 71 04- 301	32 VAC 1 ph. ±10 %	3/10	40	TT_11133
RTS 71 060 102R	48 VAC 1 ph. ±10 %	10/20	60	TT-11135
RTS 71 130 102R	100 VAC 1 ph. ±10 %	12/24	130	TT_11147
RTS 73 060 102R	48 VAC 3 ph. ±10 %	10/20	60	TT-11136
RTS 73 130 102R	100 VAC 3 ph. ±10 %	12/24	130	TT_11145
RTS 73 130 204R	100 VAC 3 ph. ±10 %	20/40	130	TT_11140
RTS 73 190 103R	135 VAC 3 ph. ±10 %	16/32	190	TT_11117
RTS 73 200 408R	150 VAC 3 ph. ±10 %	40/80	200	TT_11119
RTS 42 BA0 102	24-48 VDC battery	12/24	Ubatt-2	
RTS P2 BA0 204	24-48 VDC battery	20/40	Ubatt-2	
RTS 72 BA0 408	36-72 VDC battery	40/80	Ubatt-2	
Rack Mounting				
RTS 61 04- 301	32 VAC 1 ph. ±10 %	3/10	40	TT_11133
RTS 63 060 102R	48 VAC 3 ph. ±10 %	10/20	60	TT_11136
RTS 63 130 102R	100 VAC 3 ph. ±10 %	12/24	130	TT_11145
RTS 42 BA0 102	24-48 VDC battery	12/24	Ubatt-2	

All the RTS servo amplifiers are supplied with a RZ6602 setting board.

Dimensions



Product type / size	Height (2) [mm]	Width (1) [mm]	Depth (3) [mm]	Weight [kg]
Panel mounting				
RTS 71 04- 301	150	65	212	1
RTS 71 060 102R	180	65	212	1.1
RTS 71 130 102R	180	95	212	1.9
RTS 73 060 102R	149	65	212	1
RTS 73 130 102R	149	95	212	1.5
RTS 73 130 204R	149	121	221	1.9
RTS 73 190 103R	149	121	212	1.9
RTS 73 200 408R	275	139	229	6
RTS 42 BA0 102	149	65	212	1
RTS P2 BA0 204	149	65	212	1.5
RTS 72 BA0 408	275	70	229	2.5
Rack mounting				
RTS 61 04- 301	128.4	60.6	215	0.9
RTS 63 060 102R	128.4	60.6	215	0.9
RTS 63 130 102R	128.4	60.6	215	0.9
RTS 42 BA0 102	128.4	50.4	215	0.85

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Accessories

Accessories	Description		
TT_11133	0.12 kVA transformer	230/400 VAC primary	32 VAC 1 ph. ± 5 % secondary
TT_11134	0.63 kVA transformer	230/400 VAC primary	32 VAC 1 ph. ± 5 % secondary
TT_11135	0.63 kVA transformer	230/400 VAC primary	48 VAC 1 ph. ± 5 % secondary
TT_11136	0.5 kVA transformer	230/400 VAC primary	48 VAC 3 ph. ± 5 % secondary
TT_11137	1.6 kVA transformer	230/400 VAC primary	48 VAC 3 ph. ± 5 % secondary
TT_11138	2.5 kVA transformer	230/400 VAC primary	48 VAC 3 ph. ± 5 % secondary
TT_11147	1.6 kVA transformer	230/400 VAC primary	100 VAC 3ph. ± 5 % secondary
TT_11144	0.63 kVA transformer	230/400 VAC primary	100 VAC ± 5 % secondary
TT_11145	1 kVA transformer	230/400 VAC primary	100 VAC 3 ph. ± 5 % secondary
TT_11139	1.6 kVA transformer	230/400 VAC primary	100 VAC 3 ph. ± 5 % secondary
TT_11140	2.5 kVA transformer	230/400 VAC primary	100 VAC + 48 VAC 3 ph. ± 5 % secondary
TT_11141	4 kVA transformer	230/400 VAC primary	100 VAC + 48 VAC 3 ph. ± 5 % secondary
TT_11115	1 kVA transformer	230/400 VAC primary	135 VAC 3 ph. ± 5 % secondary
TT_11116	1.6 kVA transformer	230/400 VAC primary	135 VAC 3 ph. ± 5 % secondary
TT_11117	2.5 kVA transformer	230/400 VAC primary	135 VAC 3 ph. ± 5 % secondary
TT_11118	4 kVA transformer	230/400 VAC primary	135 VAC 3 ph. ± 5 % secondary
TT_11119	6.3 kVA transformer	230/400 VAC primary	135 VAC 3 ph. ± 5 % secondary
TT_11120	10 kVA transformer	230/400 VAC primary	135 VAC 3 ph. ± 5 % secondary
CZ463068	56 Ω 200 W Brake Resistor FC - one per phase - to be added with 10 kVA transformer		
TP_83131	Cover for RTS 16/32 A & 20/40 A		
TP_83132	Cover for RTS 3/10 A & 10/20 A - 60 VDC Three phase & 12/24 A battery		
TP_83133	Cover for RTS 12/24 A - 130 VDC Three phase		
TP_83138	Cover for RTS 10/20 A - 60 VDC Single phase		
TP_83140	Cover for RTS 12/24 A - 130 VDC Single phase		
RACE234	Rack RTS 3 U - 1 to 4 axis		
RACE234V	22 Rack RTS 3 U - 1 to 4 axis with ventilation		
RACE238	Rack RTS 3 U - 1 to 8 axis		
RACE238V	32 Rack RTS 3 U - 1 to 8 axis with ventilation		
TL_84032	Cover for rack RTS 81 mm		
TL_84045	Cover for rack RTS 51 mm		
RG_6601	Acceleration / deceleration board		
RG_6602	Acceleration / deceleration board for RTS 40/80 A		
SF_02022	Choke for RTS - 16 A - 2.5 mH (recommended for cables > 40 m)		
SF_02023	Choke for RTS - 25 A - 1.5 mH (recommended for cables > 40 m)		
SF_02024	Choke for RTS - 40 A - 1.25 mH (recommended for cables > 40 m)		
SF_02031	Choke for RTS - 12 A - 1 mH (recommended for cables > 40 m)		
FR_13020	20 A 1 ph. / 3 ph. input main filter		

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Order Code

DC Servo Drive - RTS

	1	2	3	4	5
Order example	**RTS**	**71**	**060**	**102**	**R**

1	**Type**	
	RTS	DC Servo Drive
2	**Mounting type / power supply**	
	71 **73** **42** **...**	see table "Technical Data"
3	**Output voltage**	
	40 **60** **130** **...**	see table "Technical Data"
4	**Output current**	
	102	see table "Technical Data"
5	**Brake resistance**	
	R	see table "Technical Data"

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High Performance DC Servo Motor - RS Series

Overview

Description

Using high energy magnets, RS DC motors combined with RTS drives are particularly suitable for applications which require a very compact solution or a high dynamic level.

Characteristics and advantages

- High performance characteristics
- Excellent low-speed functioning
- High compactness
- Very long service life
- Rare earth magnets
- Tacho, encoder resolver and brake in option



Features

- Shaft
  - RS1 to RS4: Smooth full shaft
  - RS5 and RS6: Full keyed shaft
- 2nd Shaft end
  - RS1 to RS3: possibility to mount standard tacho or encoder
  - RS5 and RS6: possibility to mount standard tacho, adaptation for encoder mounting in option
- Output cables 1 m without connector
- Options
  - Brake (RS2 to RS6)
  - Tachometer
  - Adaptation 2nd shaft end for encoder mounting (RS5 and RS6)

Technical Characteristics - Overview

Motor type	DC motors with rare earth magnets
Number of poles	4
Protection degree	RS1 to RS4: IP40 RS5 and RS6: IP54
Insulation	Class F
Torque at low speed	0.05 ... 13 Nm
Permanent current at low speed	1.5 ... 28 A
Rated voltage	20.7 ... 105 V
Rated speed	2 000 ... 3 000 min^{-1}
Rotor inertia	2.4 ... 8 300 $kgmm^2$

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Technical Data

Torque at low speed M_0 [Nm]	Permanent current at low speed I_0 [A]	Rated Voltage U [V]	Rated Speed N [min^{-1}]	Rotor Inertia [$kgmm^2$]	Product Code			Typical combination
0.05	1.5	20.7	3000	2.4	RS110MR1	■	00	RTS 3/10-40M
0.092	2.3	21.2	3000	4.1	RS120GR1	■	00	RTS 3/10-40M
0.13	2.7	23.7	3000	5.8	RS130ER1	■	00	RTS 3/10-40M
0.11	2.5	24	3000	13	RS210LR1	■	00	RTS 3/10-40M
0.225	4.1	25.4	3000	195	RS220FR1	■	00	RTS 10/20-60 (1)
0.232	2.8	38.6	3000	195	RS220KR1	■	00	RTS 3/10-40M
0.31	5.6	24	3000	26	RS230CR1	■	00	RTS 10/20-60 (1)
0.39	6	27.6	3000	325	RS240BR1	■	00	RTS 10/20-60 (1)
0.28	2.6	49	3000	54	RS310NR1	■	00	RTS 10/20-60 (1)
0.54	4.5	49	3000	83	RS320HR1	■	00	RTS 10/20-60 (1)
0.78	5.9	51	3000	110	RS330ER1	■	00	RTS 10/20-60 (1)
0.98	6.9	53	3000	140	RS340CR1	■	00	RTS 10/20-60 (1)
0.48	3.6	60	3000	137	RS410RR1	■	00	RTS 10/20-60 (1)
0.93	6.2	60	3000	225	RS420JR1	■	00	RTS 10/20-60 (1)
1.3	8.1	43	2000	310	RS430FR1	■	00	RTS 10/20-60 (1)
1.36	6.6	78	3000	310	RS430HR1	■	00	RTS 12/24-130 T
1.74	7	90	3000	400	RS440GR1	■	00	RTS 12/24-130 T
1.9	7.9	82	2700	1 000	RS510LR1	■	00	RTS 12/24-130 T
3.1	10.9	92	2700	1 350	RS520GR1	■	00	RTS 12/24-130 T
4	13	97	2700	1 700	RS530ER1	■	00	RTS 20/40-130 T
5	15	104	2700	2 050	RS540CR1	■	00	RTS 20/40-130 T
8	22.3	100	2400	5 300	RS620GR1	■	00	RTS 40/80-190 T
10.8	25	100	2000	6 800	RS630FR1	■	00	RTS 40/80-190 T
13	28	105	2000	8 300	RS640ER1	■	00	RTS 40/80-190 T

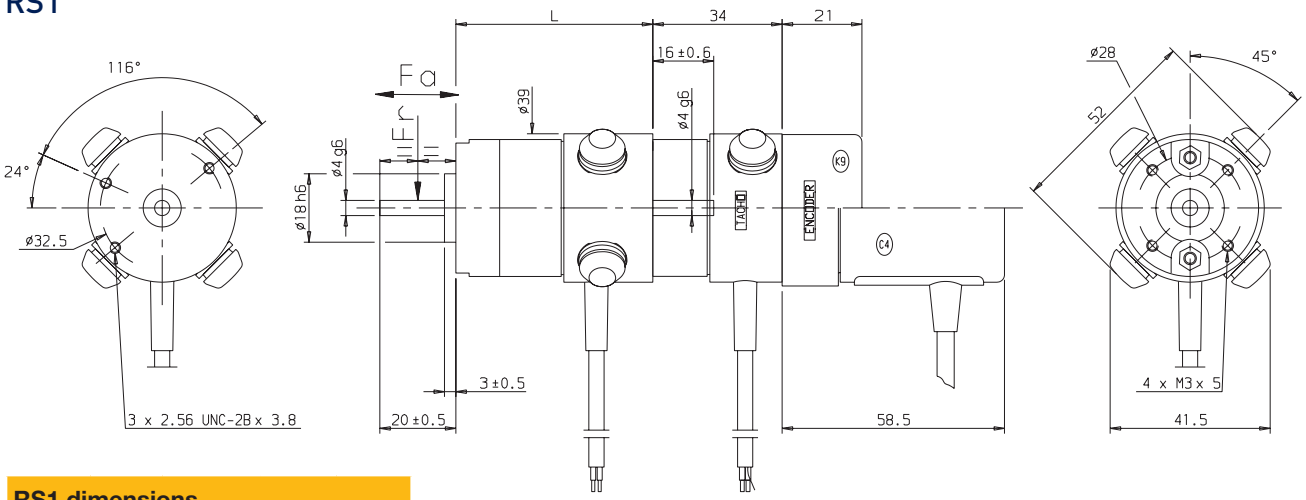
(1) M = single phase or T = three phase

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Dimensions

RS1

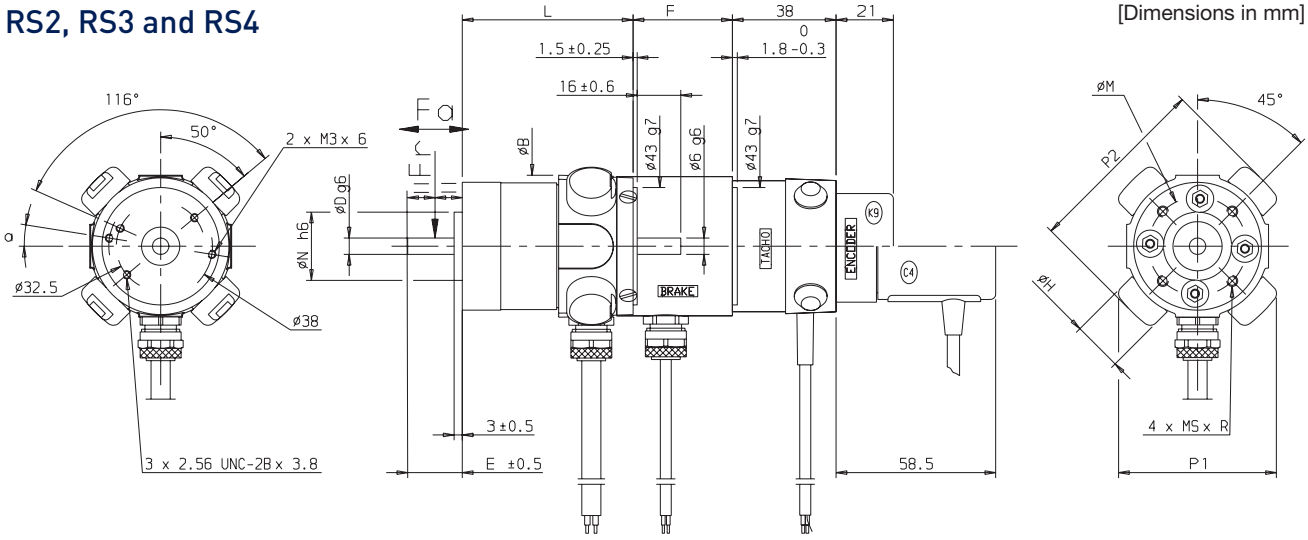
[Dimensions in mm]



RS1 dimensions				
Motor	**L**	**Weight [kg]**	**Fr(1) [daN]**	**Fa(1) [daN]**
RS110	52.1	0.27	6	3
RS120	68.1	0.36	6	3
RS130	84.1	0.45	6	3

RS2, RS3 and RS4

[Dimensions in mm]



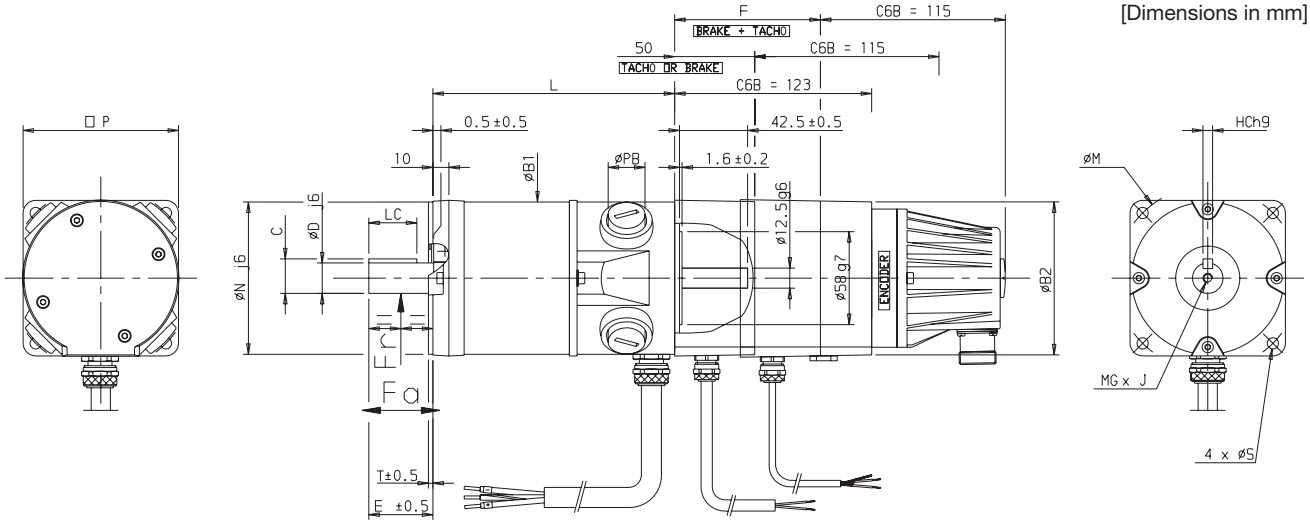
RS2, RS3 and RS4 with brake, tacho and encoder dimensions														
Motor	**a**	**N**	**D**	**E**	**B**	**L**	**F**	**P1**	**P2**	**H**	**MSxR**	**M**	**Weight [kg]**	**Fr(1) [daN]**	**Fa(1) [daN]**
RS210	9°	25	6	20	52	63	36.4	58	68	18.5	M4x6	36	0.54	18	10
RS220	9°	25	6	20	52	79	36.4	58	68	18.5	M4x6	36	0.7	18	10
RS230	9°	25	6	20	52	95	36.4	58	68	18.5	M4x6	36	0.86	18	10
RS240	9°	25	6	20	52	111	36.4	58	68	18.5	M4x6	36	1	18	10
RS310	-	32	9	25	68	80.5	41	69	83	18.5	M5x8	45	0.9	28	15
RS320	-	32	9	25	68	100.5	41	69	83	18.5	M5x8	45	1.3	28	15
RS330	-	32	9	25	68	120.5	41	69	83	18.5	M5x8	45	1.6	28	15
RS340	-	32	9	25	68	140.5	41	69	83	18.5	M5x8	45	2	28	15
RS410	-	50	11	32	83	95.5	40	82	98	22	M5x8	65	1.2	40	20
RS420	-	50	11	32	83	115.5	40	82	98	22	M5x8	65	1.8	40	20
RS430	-	50	11	32	83	135.5	40	82	98	22	M5x8	65	2.4	40	20
RS440	-	50	11	32	83	155.5	40	82	98	22	M5x8	65	3	40	20

(1) Fr and Fa not cumulative

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RS5 and RS6

[Dimensions in mm]



RS5 and RS6 with brake, tacho and encoder dimensions																		
Motor	**P**	**N**	**C**	**D**	**LC**	**E**	**T**	**B1**	**PB**	**L**	**F**	**B2**	**S**	**M**	**MGxJ**	**HC**	**Weight [kg]**	**Fr(1) [daN]**	**Fa(1) [daN]**
RS510	97	95	21.5	19	30	40	3	96	25	151	91	96	7	115	M6x18	6	5.1	70	23
RS520	97	95	21.5	19	30	40	3	96	25	180	91	96	7	115	M6x18	6	6.3	70	23
RS530	97	95	21.5	19	30	40	3	96	25	209	91	96	7	115	M6x18	6	7.5	70	23
RS540	97	95	21.5	19	30	40	3	96	25	238	91	96	7	115	M6x18	6	8.7	70	23
RS620	120	110	27	24	40	50	3.5	117	30	246	93	117	10	130	M8x20	8	11.5	80	26
RS630	120	110	27	24	40	50	3.5	117	30	284	93	117	10	130	M8x20	8	14	80	26
RS640	120	110	27	24	40	50	3.5	117	30	321	93	117	10	130	M8x20	8	16.3	80	26

(1) Fr and Fa not cumulative

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Options

Tachometers and brakes						
Motors	Tachometer		Brakes [Voltage 24 VDC +/- 10 %]			
	Model	EMF [V/1000 min^{-1}]	Holding torque [Nm]		Inertia [kgmm^2]	Weight [kg]
			20 °C	100 °C		
RS1	TBN 103	3	-	-	-	-
RS2	TBN 206	6	0.6	0.55	2	0.2
RS3	TBN 206	6	1.5	1.4	10	0.18
RS4	TBN 206	6	1.5	1.4	10	0.18
RS5	TBN 306	6	6	5.5	53	0.45
RS6	TBN 306	6	12	11.5	157	0.9

Encoders					
Model	Associated motors	Pulse per rev	Encoder reference	Mounting kit reference	Connector reference
C2	RS1	500	220215P0002	220071R0025	
	RS1	1000	220215P0012	220071R0025	
	RS2 / RS3 / RS4	500	220215P0001	220071R0025	
	RS2 / RS3 / RS4	1000	220215P0004	220071R0025	
C6	RS5 / RS6	500	220024P0001	220071R0002	220065R4621
	RS5 / RS6	1000	220024P0003	220071R0002	220065R4621
	RS5 / RS6	2000	220024P0006	220071R0002	220065R4621
	RS5 / RS6	5000	220024P0005	220071R0002	220065R4621
C6B	RS5 / RS6	500	220031R0001	220071R0004	220065R4621
	RS5 / RS6	1000	220031R0003	220071R0004	220065R4621
	RS5 / RS6	2000	220031R0008	220071R0004	220065R4621
	RS5 / RS6	2500	220031R0004	220071R0004	220065R4621
	RS5 / RS6	5000	220031R0005	220071R0004	220065R4621

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Order Code

RS Series

	1	2	3	4	5	6	7
Order example	**RS**	**120**	**E**	**R**	**1**	**0**	**11**

1	**Motor type**	
	RS	Motor with neodyme magnets
2	**Motor size and length**	
	120 **130** **320** **...**	see table "Technical data"
3	**Winding**	
	L **H** **M** **...**	Depend of motor size, speed and voltage/current, see table "Technical data"
4	**Fix code**	
	R	
5	**Mechanical features**	
	1	Output cables (standard)
	2	Terminal box
	3	Motor with resolver
	5	Special motor
6	**Options**	
	0	No accessories (standard)
	1	Tacho
	2	Brake (RS2 to RS6)
	3	Tacho + brake (RS2 to RS6)
	4	Encoder adaptation [1] (size 5 and 6 only)
	5	Tacho + Encoder adaptation (size 5 and 6 only)
	6	Brake + Encoder adaptation (size 5 and 6 only)
	7	Tacho + Brake + Encoder adaptation (size 5 and 6 only)
7	**Customer specification**	
	00	Standard catalogue definition - smooth shaft (size 1 -> 4) - shaft with key way (size 5-6)

[1] Encoder adaptation is standard for RS1, RS2, RS3 and RS4.

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Low-Cost DC Servo Motor - RX Series

Overview

Description

The RX DC motors, combined with RTS drives, provide an economical solution for any servo applications. They are particularly suitable for low power systems in clean atmospheres.

Advantages

- Excellent price/performances ratio
- Very low torque modulation
- High quality construction
- Very long service life
- 2nd shaft end for tacho and encoder mounting
- Tacho and brake as option

Applications

- Factory Automation
- Life Science Diagnostic

Features

- Shaft
  - RX1 and RX3: Smooth full shaft
  - RX5 and RX6: Full keyed shaft
- 2nd Shaft end
  - RX1 and RX3: possibility to mount standard tacho or encoder
  - RX5 and RX6: possibility to mount standard tacho, adaptation for encoder mounting in option
- Output cables 1 m without connector
- Options
  - Brake
  - Tachometer
  - Adaptation 2nd shaft end for encoder mounting (RX5 and RX6)



Technical Characteristics - Overview

Motor type	CC Motors with rare ferrite magnets
Protection degree	RX1 and RX3: IP40 RX5 and RX6: IP54
Insulation	Class F

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Technical Data

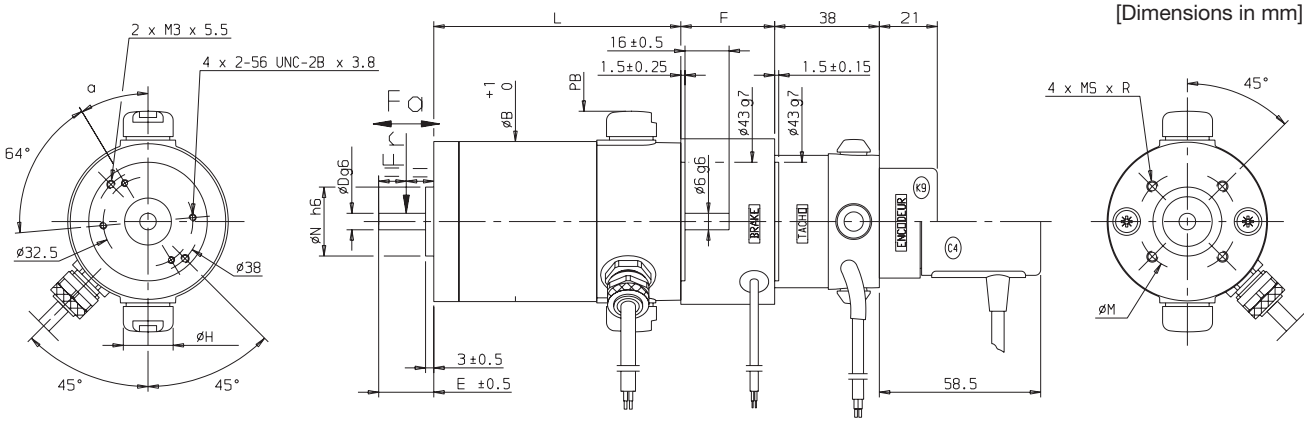
Torque at low speed M_0 [Nm]	Permanent current at low speed I_0 [A]	Rated Voltage U [V]	Rated Speed N [min^{-1}]	Rotor Inertia [kgmm^2]	Product Code			Typical combination
0.285 0.4	2.8 3.6	44.5 46	3 000 3 000	50 68	RX120LR1 RX130HR1	■ ■	00 00	RTS 3/10-40 M RTS 10/20-60 (1)
1.08 1.54	7.8 9.4	54 59	3 000 2 900	500 720	RX320ER1 RX330CR1	■ ■	00 00	RTS 10/20-60 (1) RTS 10/20-60 (1)
2.7 3.7	7.7 10.3	119 116	2 800 2 700	1 280 1 740	RX520KR1 RX530FR1	■ ■	00 00	RTS 12/24-130 T RTS 12/24-130 T
5 7.8	10.5 16	134 134	2 400 2 400	3 500 5 000	RX620JR1 RX630ER1	■ ■	00 00	RTS 12/24-130 T RTS 20/40-130 T

(1) M = single phase or T = three phase

Dimensions

RX1 and RX3

[Dimensions in mm]

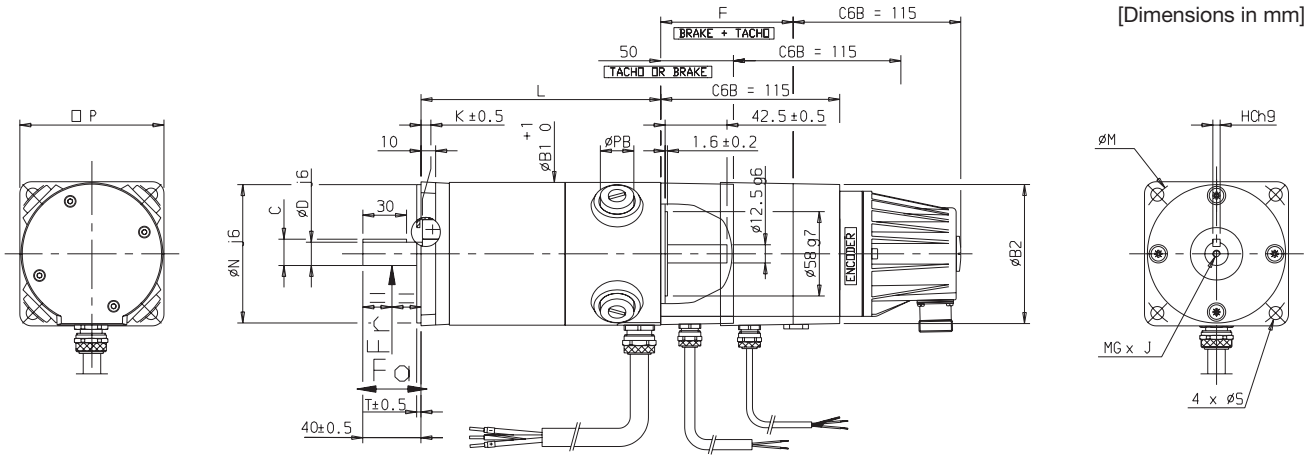


RX1 and RX3 with brake, tacho and encoder dimensions														
Motor	**H**	**a**	**N**	**D**	**E**	**B**	**PB**	**L**	**F**	**MSxR**	**M**	**Weight [kg]**	**Fr(1) [daN]**	**Fa(1) [daN]**
RX120	18.5	31°	25	6	20	58	80	122.5	34	M4x6	36	1.35	18	16
RX130	18.5	31°	25	6	20	58	80	147.5	34	M4x6	36	1.6	20	16
RX320	23	26°	50	11	32	84	100	178.5	40	M5x10	65	4	45	23
RX330	23	26°	50	11	32	84	100	218.5	40	M5x10	65	5.2	50	23

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RX5 and RX6

[Dimensions in mm]



RX5 and RX6 with brake, tacho and encoder dimensions																	
Motor	**P**	**N**	**C**	**D**	**T**	**K**	**B1**	**PB**	**L**	**F**	**B2**	**S**	**M**	**MGxJ**	**HC**	**Weight [kg]**	**Fr(1) [daN]**	**Fa(1) [daN]**
RX520	100	95	18	16	3	1	98	25	216	91	96	9	115	M5x15	5	6.6	80	30
RX530	100	95	18	16	3	1	98	25	266	91	96	9	115	M5x15	5	8.7	85	30
RX620	120	110	21.5	19	3.5	0.5	116	30	272	93	117	10	130	M6x18	6	13	95	40
RX630	120	110	21.5	19	3.5	0.5	116	30	358	93	117	10	130	M6x18	6	18.5	100	40

(1) Fr and Fa not cumulative

Options

Tachometers and brakes						
Motors	**Tachometer**		**Brakes [Voltage 24 VDC +/- 10 %]**			
	Model	**EMF [V/1000 min-1]**	**Holding torque [Nm]**		**Inertia [kgmm²]**	**Weight [kg]**
			20 °C	**100 °C**		
RX1	TBN 206	6	1	0.9	10	0.4
RX3	TBN 206	6	1.5	1.4	10	0.18
RX5	TBN 306	6	6	5.5	53	0.45
RX6	TBN 306	6	12	11.5	157	0.9

Encoders					
Model	**Associated Motors**	**Pulse per rev**	**Encoder Reference**	**Mounting kit Reference**	**Connector Reference**
C 2	RX1 / RX3	500	220215P0001	220071R0025	-
	RX1 / RX3	1 000	220215P0004	220071R0025	-
C 6	RX5 / RX6	500	220024P0001	220071R0002	220065R4621
	RX5 / RX6	1 000	220024P0003	220071R0002	220065R4621
	RX5 / RX6	2 000	220024P0006	220071R0002	220065R4621
	RX5 / RX6	5 000	220024P0005	220071R0002	220065R4621
C 6 B	RX5 / RX6	500	220031R0001	220071R0004	220065R4621
	RX5 / RX6	1 000	220031R0003	220071R0004	220065R4621
	RX5 / RX6	2 000	220031R0008	220071R0004	220065R4621
	RX5 / RX6	2 500	220031R0004	220071R0004	220065R4621
	RX5 / RX6	5 000	220031R0005	220071R0004	-

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Order Code

RX Series

	1	2	3	4	5	6	7
Order example	**RX**	**120**	**E**	**R**	**1**	**0**	**11**

1	**Motor type**	
	RX	Motor with ferrite magnets
2	**Motor size and length**	
	120 **130** **320** **...**	see table "Technical data"
3	**Winding**	
	L **H** **M** **...**	Depend of motor size, speed and voltage/current, see table "Technical data"
4	**Fix code**	
	R	
5	**Mechanical features**	
	1	Output cables (standard)
	2	Terminal box
	3	Motor with resolver
	5	Special motor
6	**Options**	
	0	No accessories (standard)
	1	Tacho
	2	Brake (RX3, RX5, RX6)
	3	Tacho + brake (RX3, RX5, RX6)
	4	Encoder adaptation [1] (size 5 and 6 only)
	5	Tacho + Encoder adaptation (size 5 and 6 only)
	6	Brake + Encoder adaptation (size 5 and 6 only)
	7	Tacho + Brake + Encoder adaptation (size 5 and 6 only)
7	**Customer specification**	
	00	Standard catalogue definition - smooth shaft (size 1 -> 4) - shaft with key way (size 5-6)

[1] Encoder adaptation is standard for RX1 and RX3.

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Pancake DC Servo Motor - AXEM Series

Overview

Description

The AXEM motor, with more than 2 million units produced, is one of the most widespread servo motors in the world. With its disk rotor, composed solely of copper and insulator the Axem motor achieves high dynamics and excellent regulation of motion at low speed, as well as silent and vibration-free functioning. It is robust, efficient, and low maintenance.



Advantages

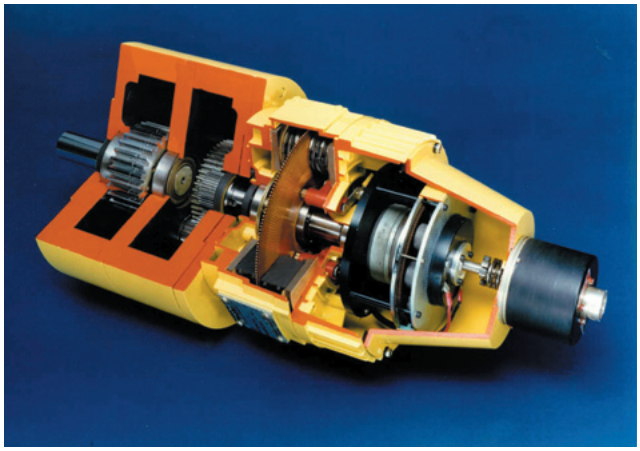
- Very low speed modulation
- Exceptional regulation at low speed
- High dynamic characteristics
  low rotor inertia
- Silent and vibration-free functioning
- Maintenance free
- Disk rotor
- Protection: IP44
  IP20 for ventilated models
- Class F insulation

Applications

- Factory Automation
- Life Science Diagnostic

Technical Characteristics - Overview

Nominal torque	0.14...19.2 Nm
Nominal current	6.4...44 A
Nominal voltage	14...178 V
Nominal speed	3000, 4800 min^{-1}
Inertia	29...7400 $kgmm^2$



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Technical Data

Motor	Nominal torque [Nm]	Nominal current [A]	Nominal voltage [V]	Nominal speed [min^{-1}]	Inertia [kgmm^2]
F9M4R	0.14	6.4	22	4800	35
F9M2	0.282	11	14	3000	29
F9M4	0.346	6.7	26	3000	35
F9M4H	0.537	6.5	35	3000	34
F12M4R	0.42	8	37	4800	150
F12M2	0.61	11.7	24	3000	105
F12M4	0.77	7.7	43	3000	150
F12M4H	1.1	7.2	61	3000	160
MC13S	1.2	7.6	64	3000	235
MC17H	1.8	6.9	102	3000	790
MC17B	1.2	24	23.5	3200	790
MC19P	3.2	14.5	83	3000	1000
MC19P(1)	5.1	22.2	87	3000	1000
MC19S	3.2	7.3	165	3000	1000
MC19S(1)	5.1	11.1	171	3000	1000
MC19B	2.8	46	23.5	3000	1000
MC23S	6.1	13	170	3000	2300
MC23S(1)	10.5	21.8	178	3000	2300
MC24P	7.3	18.9	136	3000	3200
MC24P(1)	14.3	36	142	3000	3200
MC27P	14.3	33	152	3000	7400
MC27P(1)	19.2	44	154	3000	7400

(1) Cooling by external fan 10 l/s

Encoder					
Type	**Associated motor**	**Pulse/rev.**		**Inertia**	**Weight [kg]**
		standard	**option**	**[kgmm^2]**	
C2	F	500 250	1000	0.1	0.035
C4	F	500	1000 2500	2.3	0.2
C6B	MC	500	1000 2500 5000	3	0.45

Tachy		
Type	**Associated motor**	**EMF [V/1000 min^{-1}]**
F9T	F9	3
FC12T	F12 / MC	6
TBN 206	F9 / F12	6
TBN 420	MC	20

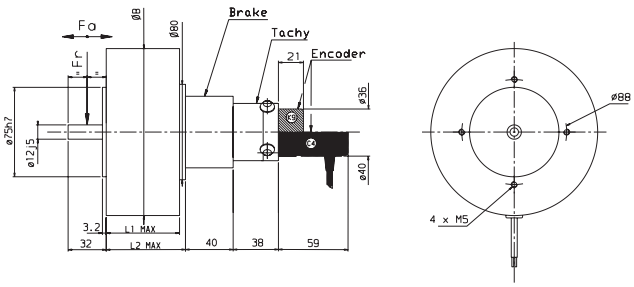
Brake (24 VDC ± 10%)				
Associated motor	**Holding torque**		**Inertia [kgmm^2]**	**Weight [kg]**
	Magnet brake [Nm]	**Spring brake [Nm]**		
F9 - F12	-	1.5	10	0.47
MC13	2	-	23	0.3
MC17 / MC19	5	-	65	0.6
MC23 / MC24	12	-	214	1.1
MC27	20	-	570	1.9
MC17	-	4	25	1.4
MC19	-	8	70	1.9
MC23 / 24 / 27	-	16	135	2.8

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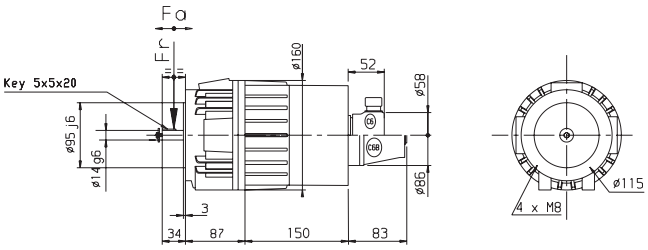
Dimensions

F9 - F12 dimensions					
Motor	**L1 [mm]**	**L2 [mm]**	**Weight [kg]**	**Fr(1) [daN]**	**Fa(1) [daN]**
F9M4R	34	46.5	1.1	14	2.5
F9M2	52.5	65	2.3	14	2.5
F9M4	52.5	65	2.3	14	2.5
F9M4H	64	76.5	2.8	14	2.5
F12M4R	37.5	51	2.9	14	2.5
F12M2	61.5	71.5	3.85	14	2.5
F12M4	61.5	71.5	3.85	14	2.5
F12M4H	74	84	5	14	2.5

F9: øB = ø110
F12: øB = ø140

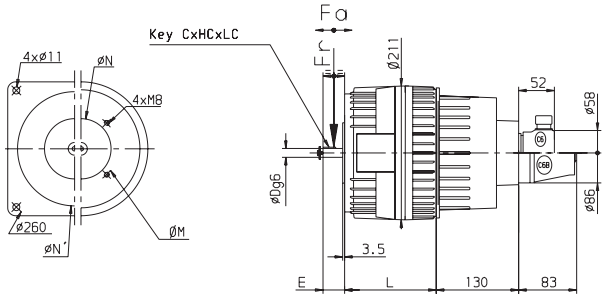


MC13 dimensions			
Motor	**Weight [kg]**	**Fr(1) [daN]**	**Fa(1) [daN]**
MC13	4	35	13



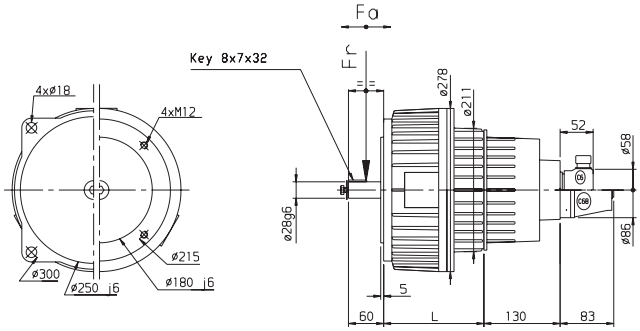
MC17 - MC19 dimensions								
Motor	**M [mm]**	**N [mm]**	**N(1) [mm]**	**E [mm]**	**L [mm]**	**Weight [kg]**	**Fr(1) [daN]**	**Fa(1) [daN]**
MC17	115	95	180	34	163	6.5	60	35
MC19	165	130	130	50	163	9.7	60	35

MC17: C x HC x LC = 5 x 5 x 20
MC19: C x HC x LC = 8 x 7 x 32



MC23 - MC24 - MC27 dimensions					
Motor	**L [mm]**	**B [mm]**	**Weight [kg]**	**Fr(1) [daN]**	**Fa(1) [daN]**
MC23	173	278	17	75	40
MC24	185	278	23	80	45
MC27	198	316	35	90	50

Dimensions including brake, tachy and encoder
(1) Fr and Fa not cumulative



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AEROSPACE

Key Markets
- Aircraft engines
- Business & general aviation
- Commercial transports
- Land-based weapons systems
- Military aircraft
- Missiles & launch vehicles
- Regional transports
- Unmanned aerial vehicles

Key Products
- Flight control systems & components
- Fluid conveyance systems
- Fluid metering delivery & atomization devices
- Fuel systems & components
- Hydraulic systems & components
- Inert nitrogen generating systems
- Pneumatic systems & components
- Wheels & brakes



CLIMATE CONTROL

Key Markets
- Agriculture
- Air conditioning
- Food, beverage & dairy
- Life sciences & medical
- Precision cooling
- Processing
- Transportation

Key Products
- CO^2 controls
- Electronic controllers
- Filter driers
- Hand shut-off valves
- Hose & fittings
- Pressure regulating valves
- Refrigerant distributors
- Safety relief valves
- Solenoid valves
- Thermostatic expansion valves



ELECTROMECHANICAL

Key Markets
- Aerospace
- Factory automation
- Food & beverage
- Life science & medical
- Machine tools
- Packaging machinery
- Paper machinery
- Plastics machinery & converting
- Primary metals
- Semiconductor & electronics
- Textile
- Wire & cable

Key Products
- AC/DC drives & systems
- Electric actuators
- Controllers
- Gantry robots
- Gearheads
- Human machine interfaces
- Industrial PCs
- Inverters
- Linear motors, slides and stages
- Precision stages
- Stepper motors
- Servo motors, drives & controls
- Structural extrusions



FILTRATION

Key Markets
- Food & beverage
- Industrial machinery
- Life sciences
- Marine
- Mobile equipment
- Oil & gas
- Power generation
- Process
- Transportation

Key Products
- Analytical gas generators
- Compressed air & gas filters
- Condition monitoring
- Engine air, fuel & oil filtration & systems
- Hydraulic, lubrication & coolant filters
- Process, chemical, water & microfiltration filters
- Nitrogen, hydrogen & zero air generators



FLUID & GAS HANDLING

Key Markets
- Aerospace
- Agriculture
- Bulk chemical handling
- Construction machinery
- Food & beverage
- Fuel & gas delivery
- Industrial machinery
- Mobile
- Oil & gas
- Transportation
- Welding

Key Products
- Brass fittings & valves
- Diagnostic equipment
- Fluid conveyance systems
- Industrial hose
- PTFE & PFA hose, tubing & plastic fittings
- Rubber & thermoplastic hose & couplings
- Tube fittings & adapters
- Quick disconnects



HYDRAULICS

Key Markets
- Aerospace
- Aerial lift
- Agriculture
- Construction machinery
- Forestry
- Industrial machinery
- Mining
- Oil & gas
- Power generation & energy
- Truck hydraulics

Key Products
- Diagnostic equipment
- Hydraulic cylinders & accumulators
- Hydraulic motors & pumps
- Hydraulic systems
- Hydraulic valves & controls
- Power take-offs
- Rubber & thermoplastic hose & couplings
- Tube fittings & adapters
- Quick disconnects



PNEUMATICS

Key Markets
- Aerospace
- Conveyor & material handling
- Factory automation
- Food & beverage
- Life science & medical
- Machine tools
- Packaging machinery
- Transportation & automotive

Key Products
- Air preparation
- Compact cylinders
- Field bus valve systems
- Grippers
- Guided cylinders
- Manifolds
- Miniature fluidics
- Pneumatic accessories
- Pneumatic actuators & grippers
- Pneumatic valves and controls
- Rodless cylinders
- Rotary actuators
- Tie rod cylinders
- Vacuum generators, cups & sensors



PROCESS CONTROL

Key Markets
- Chemical & refining
- Food, beverage & dairy
- Medical & dental
- Microelectronics
- Oil & gas
- Power generation

Key Products
- Analytical sample conditioning products & systems
- Fluoropolymer chemical delivery fittings, valves & pumps
- High purity gas delivery fittings, valves & regulators
- Instrumentation fittings, valves & regulators
- Medium pressure fittings & valves
- Process control manifolds



SEALING & SHIELDING

Key Markets
- Aerospace
- Chemical processing
- Consumer
- Energy, oil & gas
- Fluid power
- General industrial
- Information technology
- Life sciences
- Military
- Semiconductor
- Telecommunications
- Transportation

Key Products
- Dynamic seals
- Elastomeric o-rings
- EMI shielding
- Extruded & precision-cut, fabricated elastomeric seals
- Homogeneous & inserted elastomeric shapes
- High temperature metal seals
- Metal & plastic retained composite seals
- Thermal management

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