

品质



自 1912

MAGNETSCHULTZ

舒尔兹电磁铁 电磁铁和传感器的专家

SPECIALISTS FOR ELECTROMAGNETIC ACTUATORS AND SENSORS



产品系列概览

Programme Survey

MSM集团 - 承袭传统的家族企业
The MSMgroup - Family business with tradition



Stammwerk Allgäuer Straße



Werk Memmingerberg



PREFAG, Walzbachtal



Magnet-Schultz of America



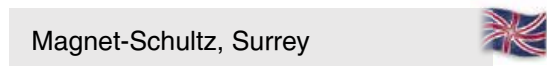
W. E. Schultz, Oberrindal



Magnet-Schultz, Suzhou



Magnet-Schultz, Italia



Magnet-Schultz, Surrey

2014 / 2015 年度
销售额 400,000,000.00 欧元

- 5% 用于研究开发
- 12% 用于资产投资
- 18% 直接出口
- 家族企业

2700 名员工

- 10% 在意大利、瑞士、英国、美国
- 9% 学徒员工
- 生产线 > 50% 以上, 具有专业技术认证
- 持续性培训
- 弹性需求工时
- 900 名以上, 服务年资超过 25 年
- 波动极小, 使专业知识和技能 Know-How 得以累积

2014 / 2015
Sales US-\$ 440.000.000.

- 5% for R & D
- 12% for capital goods
- 18% direct export
- family ownership

2700 Employees

- 10% in Italy, Switzerland, UK, USA
- 9% Apprentices
- Production > 50% workers with certified skills
- Continuous Education
- Order-adaptive Work Schedule
- 900+ employees celebrated 25+ years
- Minimal Fluctuation accumulates Know How

我们多数的顾客关系, 已超过数十年之久

Our Customer Relations extend over Decades!



满足高端工业产品需求的电磁设备

Electromagnetic Actuators and Sensors for High-End Industries

产品系列概览

Survey Product Groups

产品系列 1
高性能直流直动式电磁铁
*Product Group 1
High-Duty DC Solenoids*



产品系列 1
闭锁式电磁铁
*Product Group 1
Shotbolt Lock Units*



产品系列 2
交流直动式电磁铁
*Product Group 2
AC-Solenoids*



产品系列 3
气动阀用电磁铁
*Product Group 3
Valve Solenoids for Pneumatic Application*



产品系列 4
液压用直流开关和比例电磁铁
*Product Group 4
DC On/Off and Proportional
Solenoids for Hydraulic Application*



产品系列 6
开关和比例
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*Product Group 6
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*Product Group 11
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产品系列 13
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*Product Group 13
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PREFAG - 精密技术伙伴
PREFAG - Partners in Precision



产品系列 1 – 高性能直流直动式电磁铁
Product Group 1 – High-Duty DC Solenoids

G MC X



单向直动电磁铁

- 3 种尺寸: Ø (mm) 37、45、63
- 几近水平特性
- 行程 (mm): 8、10、12
- 磁力 (N) 10 - 165

Single-Acting Solenoids

- 3 sizes: Ø (mm) 37, 45, 63
- nearly horizontal characteristic
- stroke (mm) 8, 10, 12
- magnetic force (N) 10 up to 165

G TA



单向直动电磁铁

- 3 种尺寸: Ø (mm) 20、26、32
- 几近水平特性
- 行程 (mm) 3 - 5
- 磁力 (N) 1.7 - 17.7
- 拉力型或压力型

Single-Acting Solenoids

- 3 sizes: Ø (mm) 20, 26, 32
- nearly horizontal characteristic
- stroke (mm) 3 up to 5
- magnetic force (N) 1,7 up to 17,7
- pull or push type

G TC A



单向直动电磁铁

- 7 种尺寸: Ø (mm) 40、50、60、70、80、90、100
- 上升特性
- 行程 (mm) 8 - 30
- 磁力 (N) 6 - 470
- 有水平特性, 可订制

Single-Acting Solenoids

- 7 sizes: Ø (mm) 40, 50, 60, 70, 80, 90, 100
- increasing characteristic
- stroke (mm) 8 up to 30
- magnetic force (N) 6 up to 470
- horizontal characteristic on request

G TU W



双向直动电磁铁

- 6 种尺寸: Ø (mm) 40、50、60、70、80、90
- 几近水平特性
- 行程 (mm) 8 - 25
- 磁力 (N) 12.4 - 276
- 有复位双向直动电磁铁, 可订制

Reverse Solenoids

- 6 sizes: Ø (mm) 40, 50, 60, 70, 80, 90
- nearly horizontal characteristic
- stroke (mm) 8 up to 25
- magnetic force (N) 12,4 up to 276
- Double-acting solenoids on request

G FC



单向直动电磁铁

- 6 种尺寸: 宽度 (mm) 25、30、35、40、50、60
- 近乎水平特性
- 行程 (mm) 4 - 12
- 磁力 (N) 2.7 - 125
- 拉力型或压力型
- 插槽式连接

Single-Acting Solenoids

- 6 sizes: width (mm) 25, 30, 35, 40, 50, 60
- nearly horizontal characteristic
- stroke (mm) 4 up to 12
- magnetic force (N) 2,7 up to 125
- pull or push type
- spade connector

G TC E



单向直动电磁铁

- 防爆设计符合 ATEX + IECEx 标准
- 防爆含括防气爆或尘爆标准达 (气爆) T4/T5 或 (尘爆) T95°C/T130°C
- 上升特性
- 行程 (mm) 8 - 35
- 磁力 (N) 6 - 90
- 带或不带安装法蘭
- 拉力型或压力型

Single-Acting Solenoids

- in explosion-proof design according to ATEX + IECEx
- Explosion protection for Gas or Dust up to T5/T4 resp. T95°C/T130°C
- increasing characteristic
- stroke (mm) 8 up to 35
- magnetic force (N) 6 up to 90
- with or without fastening flange
- pull or push type

产品系列 1 – 闩锁式电磁铁

Product Group 1 – Shotbolt Lock Units

闩锁式电磁铁

- 3 种尺寸: Ø (mm) 37、45、63
- 行程 (mm) 8、10、12
- 拉力型或压力型
- 其它尺寸, 可订制

Shotbolt Lock Units

- 3 sizes: Ø (mm) 37, 45, 63
- stroke (mm) 8, 10, 12
- pull or push type
- other sizes on request

G SC X



闩锁式电磁铁

- 1 种尺寸: 宽度 (mm) 17
- 行程 (mm) 2.5
- 拉力型或压力型
- 带或不带末端缓冲设计

Shotbolt Lock Units

- 1 size: width (mm) 17
- stroke (mm) 2.5
- pull or push type
- design with or without impact damping in the stop positions

G HU Z 017



闩锁式电磁铁

- 2 种尺寸: Ø (mm) 32、40
- 行程 (mm) 6 - 8
- 拉力型或压力型
- 带或不带开关讯号

Shotbolt Lock Units

- 2 sizes: Ø (mm) 32, 40
- stroke (mm) 6 up to 8
- pull or push type
- signal switch optional

G HU Z 032
G HU Z 040



闩锁式电磁铁

- 1 种尺寸: Ø (mm) 50
- 行程 (mm) 10
- 拉力型或压力型
- 带或不带开关讯号

Shotbolt Lock Units

- 1 size: Ø (mm) 50
- stroke (mm) 10
- pull or push type
- signal switch optional

G HU Z 050



产品系列 2 – 交流直动电磁铁

Product Group 2 – AC Solenoids

直动电磁铁

- 5 种尺寸: 6、10、30、50、70
- 行程 (mm) 20 - 45
- 磁力 (N) 2.4 - 86
- 拉力型或压力型
- 尺寸 050 以内的安装, 采通用式固定架
- 尺寸 070 以上的安装, 有 3 种不同选项
- 锁合模式连接

Single-Acting Solenoids

- 5 sizes: 6, 10, 30, 50, 70
- stroke (mm) 20 up to 45
- magnetic force (N) 2.4 up to 86
- pull or push type
- with universal mounting up to size 050
- from size 070 with 3 different mounting possibilities
- terminal block

W BA



应用上有特殊需要, 请向我们咨询解决方案

Please ask us for application oriented custom design

产品系列 10 – 微型电磁铁

Product Group 10 – Miniature Solenoids

G HU Z 007



微型门锁式电磁铁

- 1 种尺寸: \varnothing (mm) 7
- 行程 (mm) 1
- 磁力 (N) 0.13
- 内置复位弹簧

Miniature Shotbolt Lock Units

- 1 size: \varnothing (mm) 7
- stroke (mm) 1
- magnetic force (N) 0.13
- built-in return spring

G BK K/G BK P 017



致动电磁铁

极化致动电磁铁

- 1 种尺寸: 宽度 (mm) 17
- 磁力 (N) 1 - 2.1
- 拉力型或压力型
- 内置复位弹簧

Actuating Solenoids

Polarized Actuating Solenoids

- 1 size: width (mm) 17
- magnetic force (N) 1 up to 2.1
- pull or push type
- built-in return spring

产品系列 3 – 气动阀用电磁铁

Product Group 3 – Valve Solenoids for Pneumatic Application

V PK M 007



微型电磁阀

- 电枢工作空间静态耐压力最大 4 Mpa (= 580 psi)
- 1 种尺寸: \varnothing (mm) 7
- 功能: 2/2 NC、2/2 NO
- 公称宽度 (mm) NC: 0.4; NO: 0.55
- 压力范围: 0.2 - 0.8 Mpa
- 标准额定流量 (l/min) NC: ≥ 7 ; NO: ≥ 3.5

Miniature Solenoid Valves

- pressure-proof armature space up to max. 40 bar (= 580 psi-static)
- 1 size: \varnothing (mm) 7
- function: 2/2 NC, 2/2 NO
- nominal width (mm) NC: 0,4; NO: 0,55
- pressure range: 2 - 8 bar
- nominal flow (l/min) NC: ≥ 7 ; NO: $\geq 3,5$

G BK R 010 / X BK R 015



阀用电磁铁

- 电枢工作空间静态耐压力最大 2 Mpa (= 290 psi)
- 2 种尺寸: 宽度 (mm) 10、15
- 行程 (mm) 0.25 和 0.4
- 磁力 (N) 0.6 - 2.1

Valve Solenoids

- armature space pressure-proof up to max. 20 bar (= 290 psi static)
- 2 sizes: width (mm) 10, 15
- stroke (mm) 0.25 and 0.4
- magnetic force (N) 0.6 up to 2.1

X BR / X BR1. 辅件 /
X BR017



阀用电磁铁

- 电枢工作空间静态耐压力最大 5 Mpa (= 725 psi)
- 直流电或交流电
- 3 种尺寸: 宽度 (mm) 17、22、32
- 在公称宽度 2.5 mm 时, 可调式压力可达 0.75 Mpa (109 psi)

Valve Solenoids

- pressure-proof armature space up to max. 50 bar (= 725 psi-static)
- for DC or AC
- 3 sizes: width (mm) 17, 22, 32
- switchable pressure up to 7.5 bar (109 psi) at nominal width 2.5 mm

产品系列 3 – 气动阀用电磁铁

Product Group 3 – Valve Solenoids for Pneumatic Application

阀用电磁铁

- 电枢工作空间静态耐压力最大 5 Mpa (= 725 psi)
- 直流电或交流电
- 也适用于干式运行
- 2 种尺寸: 宽度 (mm) 22、32
在公称宽度 2 mm 时, 可调式压力可达 1Mpa (= 145 psi)
- 低功率运行

Valve Solenoids

- *pressure-proof armature space up to max. 50 bar (= 725 psi-static)*
- *for DC or AC*
- *also suitable for dry operation*
- *2 sizes: width (mm) 22, 32*
- *switchable pressure up to 10 bar (= 145 psi) at nominal width 2 mm*
- *low power execution*

X BK



阀用电磁铁

防爆设计符合 ATEX 95 标准

- 封装等级 II 2G Ex mb II T5
- 其它防爆类型, 可订制
- 电枢工作空间静态耐压力最大 5 Mpa (= 725 psi)
- 直流电或交流电
- 1 种尺寸: 宽度 (mm) 22
- 在公称宽度 2.5 mm 时, 可调式压力可达 1.3 Mpa (189 psi)

Valve Solenoids in explosion-proof design according to ATEX 95

- *encapsulation II 2G Ex mb II T5*
- *further protection types on request*
- *pressure-proof armature space up to max. 50 bar (= 725 psi-static)*
- *for DC and AC*
- *1 size: width (mm) 22*
- *switchable pressure up to 13 bar (=189 psi) at nominal width 2.5 mm*

G BR E



比例式电磁阀

- 功能: 2/2 NC
- 压力范围: 达 0.8 Mpa (= 116 psi)
- 2 种尺寸: (mm) 16、20
- 流力: 达 80 l/min 公升/分 / 120 l/min 公升/分
- 压力负荷: 1.6 Mpa (= 232 psi)
- 用于氧气 和 中性介质
- 校定時間短
- 使用年限长

Proportional Solenoid Valve

- *function: 2/2 NC*
- *pressure range: up to 8 bar (= 116 psi)*
- *2 sizes: (mm) 16, 20*
- *flow: up to 80 l/min / 120 l/min*
- *overload pressure: 16 bar (= 232 psi)*
- *for oxygen and neutral media*
- *short correction times*
- *high switching life time*

V PR M



PREFAG – 精密技术伙伴

PREFAG – Partners in Precision

適用精密机械的精密车削组件

Precision turned parts for fine mechanics

组件
组件組合

**Components
Assembly of components**

测量仪

Meter Movements



Please ask us for application oriented custom design

产品系列 4 - 液压用开关和比例电磁铁

Product Group 4 - On/off and Proportional Solenoids for Hydraulic Application

G HP (开/关) /
G RC (比例)



液压用直流开关和比例电磁铁

- 3 种尺寸: 宽度 \varnothing (mm) 37、45、63
- 电枢工作空间态耐压力达最大 32 Mpa (= 4640 psi)
- 行程 (mm) 5.5 - 9
- 磁力 (N) 43 - 120 (工作中冲程)
- 以中心螺纹安装
- 有拉力型设计, 可订制

DC On/Off and Proportional Solenoids for Hydraulic Application

- 3 sizes: \varnothing (mm) 37, 45, 63,
- pressure-proof armature space up to max. 320 bar (= 4640 psi-static)
- stroke (mm) 5.5 up to 9
- magnetic force (N) 43 up to 120 (at working stroke)
- fastening with central thread pulling design on request

G HP E (开/关) /
G RC E (比例)



液压用直流开关和比例电磁铁

- 防爆设计符合 ATEX + IECEx 标准
- 防爆等级: II 2G Ex mb IIC T4 Gb
II 2D Ex mb IIIC T130°C Db
 - 1 种尺寸: \varnothing (mm) 37
 - 电枢工作空间态耐压力达最大 32 Mpa (= 4640 psi)
 - 行程 (mm) 4
 - 磁力 (N) 5 - 75

DC On/Off and Proportional Solenoids for Hydraulic Applications

- in explosion-proof design according to ATEX + IECEx
- explosion protection: II 2G Ex mb IIC T4 Gb
II 2D Ex mb IIIC T130°C Db
 - 1 size: \varnothing (mm) 37
 - pressure-proof armature space (up to 320 bar = 4640 psi-static)
 - stroke (mm) 4
 - magnetic force (N) 5 up to 75

G RF 025...B01 / G RF...B01
G RF...B61, B62
G AA 035/060 / G AA 辅件



液压用直流开关和比例电磁铁

- 电枢工作空间静态耐压力达最大 35 Mpa (= 5075 psi)
- 4 种尺寸: \square (mm) 25、35、45、60
- 带或不带位移传感器
- 力/电流具比例特性
- 磁滞极小
- 可扩大成完整封闭控制回路
- 行程 (mm) 2.5 - 8
- 磁力 (N) 19 - 145 (额定磁力)
- 运行压力最大 17.5 Mpa (= 2538 psi)
- 有防爆型, 可订制

DC On/Off and Proportional Solenoids for Hydraulic Application

- armature space pressure-proof up to max. 350 bar (= 5075 psi-static)
- 4 sizes: \square (mm) 25, 35, 45, 60
- without and with stroke transducer
- proportional force vs current characteristic
- very small hysteresis
- extendable to a complete closed loop control circuit
- stroke (mm) 2.5 up to 8
- magnetic force (N) 19 up to 145 (rated magnetic force)
- operating pressure max. 175 bar (= 2538 psi)
- explosion-proof types on request

G RC...A62



液压用直流比例电磁铁
带位移传感器

- 3 种尺寸: \varnothing (mm) 37、45、63
- 电枢工作空间静态耐压力达最大 32 Mpa (= 4640 psi)
- 行程 (mm) 5.5 - 9
- 磁力 (N) 43 - 120
- 以中心螺纹安装
- 可扩大成完整封闭控制回路

DC Proportional Solenoids for Hydraulic Application

- 3 sizes: \varnothing (mm) 37, 45, 63
- pressure-proof armature space up to max. 320 bar (= 4640 psi-static)
- stroke (mm) 5.5 up to 9
- magnetic force (N) 43 up to 120
- fastening with central thread
- extendable to a complete closed loop control circuit

产品系列 9 – 吸持电磁铁

Product Group 9 – Holding Magnets

直流吸持电磁铁

- 8 种尺寸: \varnothing (mm) 20、25、30、40、50、65、80、100
- 持力 (N): 60 - 3000
- 带或不带电枢 G ZZ

DC Holding Magnets

- 8 sizes: \varnothing (mm) 20, 25, 30, 40, 50, 65, 80, 100
- holding force (N) 60 up to 3000
- optional armature G ZZ

G MH / G ZZ



永久吸持电磁铁

- 4 种尺寸: \varnothing (mm) 25、30、35、50
- 持力 (N): 120 - 800

Permanent Holding Magnets

- 4 sizes: \varnothing (mm) 25, 30, 35, 50
- holding force (N) 120 up to 800

G MP / G MP B01



产品系列 6 – 旋转式开关和比例电磁铁

Product Group 6 – On/Off and Proportional Rotary Solenoids

直流旋转电磁铁

- 1 种尺寸: \varnothing (mm) 12
- 旋转角度 45°
- 扭矩 (Nmm) 0.5 to 1.58
- 带或不带自校准扭力
- 上升特性

DC Rotary Solenoids

- 1 size: \varnothing (mm) 12
- rotation angle 45°
- torque (Nmm) 0,5 to 1,58 with/without self-aligning torque
- increasing characteristic

G DP R 012



直流旋转电磁铁

- 6 种尺寸: \varnothing (mm) 25、35、50、60、75、100
- 旋转角度: 35°、65°、95°
- 扭矩 (Ncm) 0.065 - 195
- 以两侧均有伸出轴的设计, 可选顺时针或逆时针旋转
- 带或不带复位弹簧

DC Rotary Solenoids

- 6 sizes: \varnothing (mm) 25, 35, 50, 60, 75, 100
- rotation angle 35°, 65°, 95°
- torque (Ncm) 0.065 up to 195
- design clockwise or anti-clockwise ends lead-out on both sides
- with and without return spring

G DA



直流旋转电磁铁

- 4 种尺寸: \square (mm) 35、50、75、100
- 旋转角度达 95°
- 扭矩 (Ncm) 0.38 - 114
- 以两侧均有伸出轴的设计, 可选顺时针或逆时针旋转
- 带或不带复位弹簧

DC Rotary Solenoids

- 4 sizes: \square (mm) 35, 50, 75, 100
- rotation angle up to 95°
- torque (Ncm) 0.38 up to 114
- design clockwise or anti-clockwise ends lead-out on both sides
- with and without return spring

G DC



比例旋转电磁铁

- 3 种尺寸: \varnothing (mm) 35、50、75、
- 旋转角度达 110°
- 扭矩 (Ncm) 2.1 - 85
- 扭矩/转角成水平特性
- 扭矩和电流成比例关系
- 带或不带转角位移传感器

Proportional Rotary Solenoids

- 3 sizes: \varnothing (mm) 35, 50, 75
- rotation angles up to 110°
- torque (Ncm) 2.1 up to 85
- horizontal torque vs rotation angle characteristic
- proportional relation between torque and current
- without and with rotation angle position sensor

G DR



产品系列 11 – 传感器和电子组件
Product Group 11 – Sensors and Electronic

A WE F / A WE X / A WA F
 A WA X / A WU X / A WX X



电感式位移传感器

- 5 种尺寸
- 行程: (mm) ± 4 、 ± 8 、 ± 15 、 ± 20 、 ± 25
- 适用于湿式和干式运行
- 静态耐压力最大达 35 Mpa (= 5070 psi)
- 带或不带集成电子

Linear Stroke Transducers

- 5 sizes
- stroke: (mm) ± 4 , ± 8 , ± 15 , ± 20 , ± 25
- for wet and dry operation
- pressure-proof up to max. 350 bar (= 5075 psi static)
- with or without integrated electronic

ASEW



电感式定位控制器

- 行程: (mm) ± 20
- 适用于干式和湿式运行
- 静态耐压力最大达 35 Mpa (= 5070 psi)
- 机械调节开关

Inductive Position Control

- stroke: (mm) ± 20
- for wet and dry operation
- pressure-proof up to max. 350 bar (= 5075 psi static)
- switching point mechanically adjustable

电子控制组件
 請咨詢，可索取我们最新的
 传感器和电子装置’小册

Inductive Position Control
 Please ask for our latest
 brochure “sensors and electronic”!

符合尖端质量要求的表列标准化产品和客制化特殊研发产品



用于商用车辆排气处理的阀塊單元

Valve block for exhaust treatment at commercial vehicles



永久吸持电磁铁
 G MP H 030
 用于纺织机械

**Permanent Holding Magnet
 G MP H 030
 for textile machinery**



开关电磁铁 G AL Y 020
 用于柴油引擎机共轨式喷射装置的致器

**ON/OFF Solenoid G AL Y 020
 Actuators for Common-Rail Injectors
 at Diesel Engines**



电磁铁 G CA X 027
 用于商用航空器的电液阀门控制

**Solenoid G CA X 027
 Control of hydraulic valves in
 commercial aircrafts**



压力调节阀 VR 032
 用于车辆自动变速器的操控

**Pressure control valve VR 032
 Control of automatic transmissions
 in passenger cars**



产品系列 7 – 交流振动电磁铁 Product Group 7 – AC Vibrators

振动电磁铁

- 7 种尺寸: (mm) 10、40、60、80、90、120、130
- 直接连接交流电源或透过半波整流器
- 耗电量: 15 - 2060 VA
- 额定气隙 (mm): 1 - 3
- 尖峰磁力 (N): 13.7 - 2740
- 封装设计, 可选

Vibrators

- 7 sizes: 10, 40, 60, 80, 90, 120, 130
- for direct connection to the AC network... or via one-way rectifier
- power consumption from 15 up to 2060 VA
- nominal air gap (mm) 1 up to 3
- peak force (N) 13.7 up to 2740
- encapsulated design optional

W ZA / Y ZA / Y ZU



产品系列 13 – 特殊电磁阀 Product Group 13 – Special Solenoid Valves

特殊电磁阀

应用上有特殊需要,
请向我们咨询解决方案
我们期待您的咨询

Special Solenoid Valves

Please ask us for application-oriented
custom designs!
We look forward to your inquiry!



Standard Devices and Custom Design meet the highest Requirements

用于变速箱操控的车用监控传感器

Sensor Automotive
Monitoring of gearbox control



LVDT 传感器
A WA X

用于润滑油泵的流量调节

LVDT sensors
A WA X
Flow control of lube oil pumps



航空器传感器
用于飞行控制系统

Sensors Aerospace
for flight control system



拔销器 G SC H 023
用于解除太阳能卫星上一个变速单元

Pin Puller G SC H 023
for releasing a gear unit of Solar Orbiter



直流液压电磁铁 G AA Y
用于深海设备的液压控模块

DC Hydraulic Solenoids G AA Y
Hydraulic control blocks for deep sea
applications



产销据点 / *Factories and Distribution*



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