

SPRINT METAL
Your partner
for fine wire



SPRINT METAL
Providing special steel solutions



Fine wire & SPRINT METAL

Set up in 1933 by Willi Vongehr and Rudolf Pack, our company stands for more than 70 years of experience in the production of fine wires. As early as in 1935 fine wire was drawn to 50 µm, followed in 1939 by weaving wire in the diameter range up to 35 µm.

The incorporation by the French SPRINT METAL S.A. took place in 1978, the renaming as SPRINT METAL EDELSTAHLZIEHEREIEN GmbH in 1981.

We are today via our French parent company UGITECH S.A. an integral part of Schmolz + Bickenbach AG, the worldwide market leader in the area of stainless long products.



Grades

Grade	AISI	Other denomination
1.3912	Nilo 36	Feni 36 / Invar
1.4006		
1.4016	430	
1.4113		
1.4301	304	
1.4303	305	
1.4306	304L	
1.4307	304L	
1.4310	301/302	
1.4401	316	
1.4404	316L	
1.4435	316L	
1.4441		
1.4462		
1.4511		
1.4529		
1.4539	904L	Uranus B6
1.4541	321	
1.4550	347	
1.4568		
1.4571	316Ti	
1.4767		Gilphal 135
1.4828		
1.4841	314	
1.4845	310S	
Other alloys on request		

Grade	AISI	Other denomination
1.4860		Gilphy30
1.4876		Incoloy 800
1.4893		Avesta 253 Ma
		Avesta 254 SMO
1.4980	660	Alloy 286
2.4060	200	Nickel 99,6
2.4066	200	Nickel 99,2
2.4068		LC-Ni99
2.4360		Monel 400
2.4361		LC-NiCu30Fe
2.4602		Hastelloy C22
2.4610		Hastelloy C4
2.4632		Nimonic 90
2.4658		Gilphy 70
2.4660		Carpenter 20CB3
2.4669		Inconel X-750
2.4816		Inconel 600
2.4819		Hastelloy C-276
2.4851		Inconel 601
2.4856		Inconel 625
2.4858		Inconel 825
2.4867		Gilphy 60
2.4869		Gilphy 80
Phynox		
Sprinox		
Other alloys on request		



Mechanical properties



Grade: 1.4016

Diameter [d in mm]	Rm [N/mm ²]	Rp0,2 [N/mm ²]	A L ₀ = 100 [%] min
<=0,075	650	520	15
<=0,130	650	500	15
<=0,150	700	580	15
<=0,200	700	520	20
<=0,300	650	500	20
<=0,500	580	370	18
<=1,000	550	360	20

Grade: 1.4310

Diameter [d in mm]	Rm [N/mm ²]	Rp0,2 [N/mm ²]	A L ₀ = 100 [%] min
<=0,075			
<=0,130			
<=0,150	900	420	35
<=0,200	900	420	35
<=0,300	900	420	35
<=0,500	850	400	35
<=1,000	900	400	35

Grade: 1.4301

Diameter [d in mm]	Rm [N/mm ²]	Rp0,2 [N/mm ²]	A L ₀ = 100 [%] min
<=0,045	850-950	370-470	35
<=0,055	870-970	420-520	25
<=0,065	850-950	370-470	27
<=0,075	800-900	350-450	30
<=0,110	780-880	350-450	33
<=0,160	780-880	330-430	33
<=0,200	740-840	300-400	35
<=0,300	690-790	280-380	40
<=0,500	640-740	240-340	40
<=1,000	610-710	220-330	40
> 1,000	<=700	<=300	45

Grade: 1.4401

Diameter [d in mm]	Rm [N/mm ²]	Rp0,2 [N/mm ²]	A L ₀ = 100 [%] min
<=0,045	920-1020	460-560	27
<=0,055	750-850	380-480	30
<=0,065	730-830	370-470	33
<=0,075	700-800	370-470	33
<=0,130	680-780	350-450	33
<=0,150	680-780	300-400	35
<=0,200	680-780	300-400	40
<=0,300	670-770	280-380	40
<=0,500	630-730	230-330	40
<=1,000	610-710	230-330	40
> 1,000	<=700	<=330	40

Grade: 1.4539

Diameter [d in mm]	Rm [N/mm ²]	Rp0,2 [N/mm ²]	A L ₀ = 100 [%] min
<=0,045	780-880	500-600	25
<=0,070	780-880	500-600	25
<=0,075	780-880	500-600	25
<=0,100	750-850	450-550	25
<=0,130	750-850	450-550	25
<=0,150	750-850	450-550	25
<=0,200	700-800	350-500	30
<=0,300	700-800	350-450	30
<=0,400	700-800	350-450	30
<=0,500	700-800	350-450	30
<=1,000	650-800	300-450	30

Grade: 1.4828

Diameter [d in mm]	Rm [N/mm ²]	Rp0,2 [N/mm ²]	A L ₀ = 100 [%] min
<=0,045	800-900	380-480	30
<=0,070	800-900	380-480	30
<=0,075	800-900	380-480	30
<=0,100	800-900	380-480	30
<=0,130	800-900	350-450	30
<=0,150	800-900	350-450	30
<=0,200	800-900	350-450	30
<=0,300	750-850	300-400	30
<=0,400	730-830	300-400	30
<=0,500	700-800	300-400	30
<=1,000	800	400	30



Mechanical properties

Re-melted ultra fine wire grades

Grade: 1.4404 / 316 HP			
Diameter [d in mm]	Rm [N/mm ²]	Rp0,2 [N/mm ²]	A L ₀ = 100 [%] min
<=0,020	1050-1150	550-650	20
<=0,025	1000-1100	500-650	20
<=0,030	1000-1100	450-600	22
<=0,035	950-1100	450-600	25
<=0,040	900-1050	450-600	25
<=0,045	950-1050	450-600	27
Other strengths on request			



Customers & markets

SPRINT METAL offers a wide product range of finally annealed and hard drawn wires, grades, mechanical properties, coatings and surfaces, which will meet your requirements in the diameter range of 0,015 – 1,40 mm. We comply with the specific needs of the customers from weaving, knitting, braiding and stranding mills.

More than 300 customers in Germany and abroad trust in the capability and the innovation potential of SPRINT METAL.

Highest quality standards as well as absolute customer orientation are for us of utmost importance. Our verifiable strong points find their expression in a distinct process orientation and a wide metallurgical basis along with high quality and reliability.

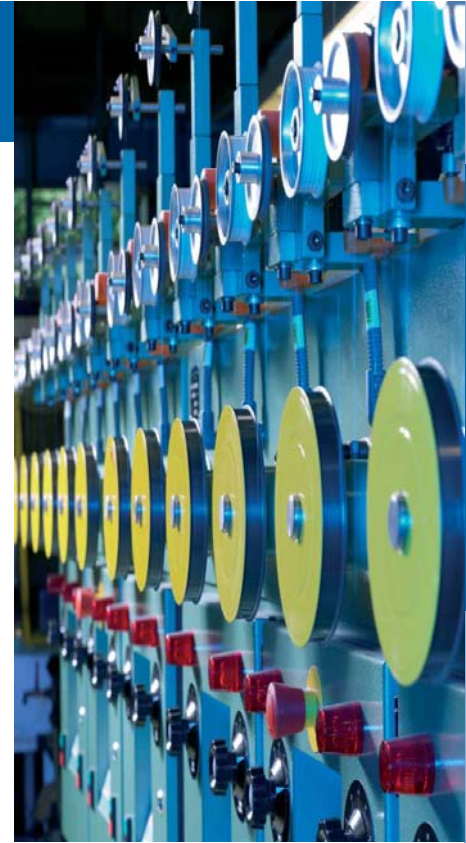
Our certifications in accordance with ISO/TS 16949:2002 and ISO 14001 are proof of our demands on ourselves.

Grade: 1.4301 / 304 HP			
Diameter [d in mm]	Rm [N/mm ²]	Rp0,2 [N/mm ²]	A L ₀ = 100 [%] min
<=0,020	950-1050	500-600	25
<=0,025	900-1050	450-600	27
<=0,030	900-1000	450-550	30
<=0,035	900-1000	400-550	34
<=0,040	900-1000	400-550	35
<=0,045	850-970	400-500	35
Other strengths on request			

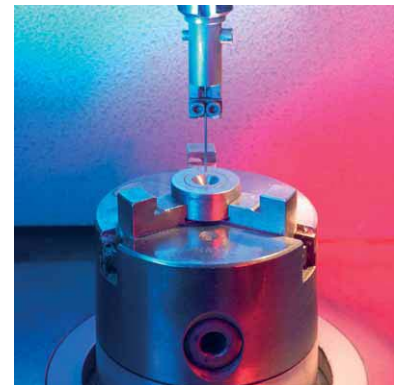
Grade: 1.4301 / 304 HPS			
Diameter [d in mm]	Rm [N/mm ²]	Rp0,2 [N/mm ²]	A L ₀ = 100 [%] min
<=0,020	1000-1150	600-750	20
<=0,025	1000-1150	600-750	22
<=0,030	1000-1150	600-750	22
<=0,035	950-1100	550-700	20
<=0,040	950-1100	550-700	22
<=0,045	950-1100	550-700	22
Other strengths on request			



Standard spool types



spool description	type	diameter range recommended	recommended weight (in g)
MF 50	F	0,040-0,050	400
HK 76/45	B	0,025-0,040	400
HK 80/45	B	0,025-0,053	800
BIK 7	B	0,025-0,060	1500
BIK 8	B	0,040-0,071	3000
HK 125/45	B	0,070-0,120	3000
HK 160/45	B	0,090-0,120	6000
DIN 40	F	0,040-0,060	250
DIN 50	F	0,040-0,060	350
DIN 63	F	0,040-0,060	500
DIN 80	F	0,050-0,100	1000
DIN 100	F	0,100-0,150	1500
DIN 125	F	0,100-0,150	3000
DIN160	F	0,120-0,200	6000
DIN 200	F	0,150-0,400	12000
DIN 250	F	0,280-1,000	18000
DIN 355	F	0,280-1,000	36000
PT 45	F	0,160-0,700	45000
PT 90	F	0,250-0,700	90000



Single service spools on request

B = biconical

F = flange

Use of customer spools possible on request



Diameter tolerances (with exception of cable)

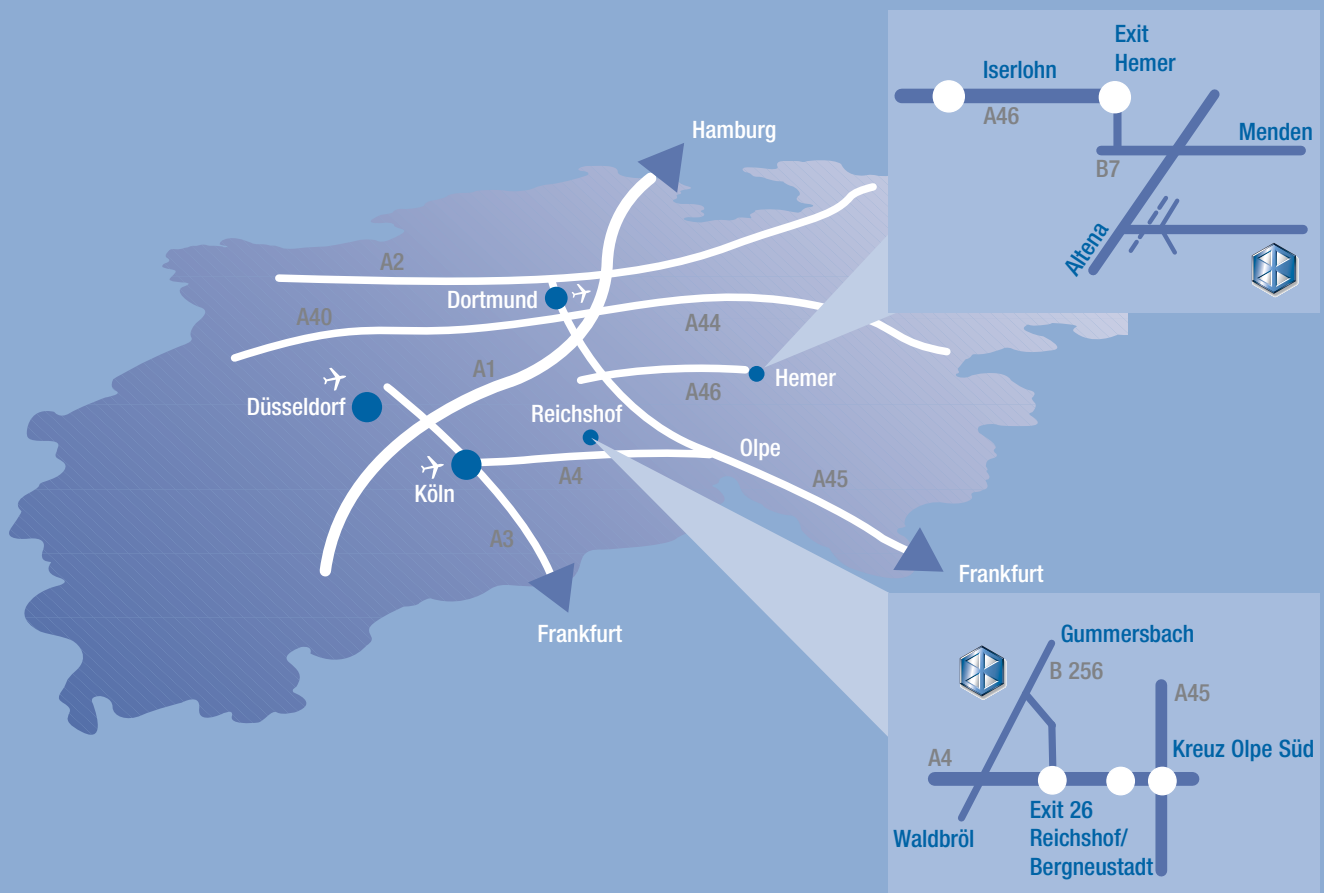
following DIN ISO 4782

Nominal diameter (d) mm	Tolerance mm
< 1,00 - 1,40	+/- 0,02
0,71 - 1,00	+/- 0,015
0,45 - 0,63	+/- 0,01
0,28 - 0,40	+/- 0,008
0,18 - 0,25	+/- 0,006
0,112 - 0,16	+/- 0,004
0,071 - 0,10	+/- 0,003
0,045 - 0,063	+/- 0,002
0,02 - 0,04	+/- 0,0015

Other diameters on request



**We are certified in accordance with
DIN EN ISO 14001 : 2005
ISO/TS 16949 : 2002**



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