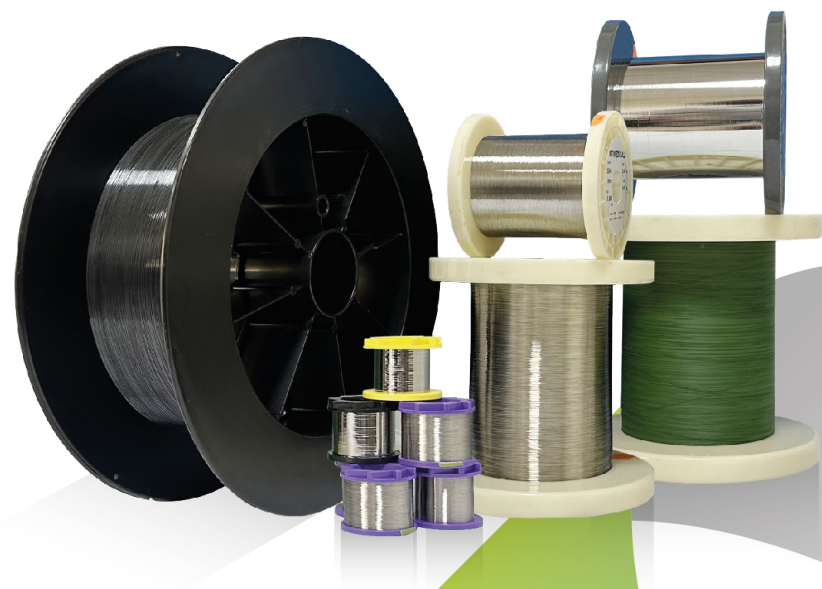


MEDICAL
WIRES AND COMPONENTS



www.ktmedical.co





T-STRAIGHT® PRE-STRAIGHTENED WIRE		
	Wire Straightness	Wire Diameter
T-Straight®	Max .36" / 10"	.008" - .036"
	Max 9mm / 254mm	.2mm - .9mm
T-Straight® Plus	Max .12" / 10"	.012" - .036"
	Max 3mm / 254mm	.3mm - .9mm
T-Straight® Ultra (cut length only)	Max .01" / 10"	.005" - .036"
	Max .25mm / 254mm	.12mm - .9mm

Material : Stainless Steel 302/302V • 304/304V

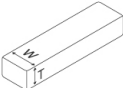
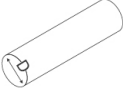


T-GLIDE™ PTFE COATED WIRE	
Base Material	Stainless Steel 302/302V • 304/304V Nitinol Wire OD and length can be customized
Coating Material	Poly (1,1,2,2-tetrafluoroethylene)
Color	Green • Blue • Clear
Thickness	3 - 7µm

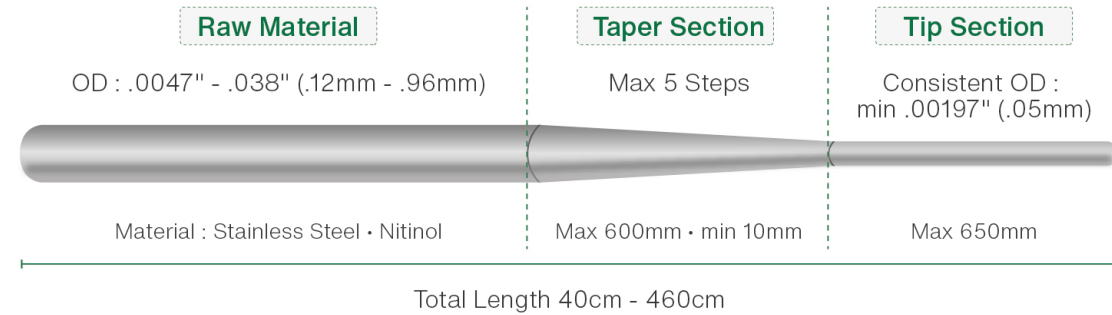


T-FLEX™ NITINOL WIRE	
Wire Diameter	.0014" - .079" (.035mm - 2mm)
Surface	Dark Oxide • Light Oxide • Pickled
Condition	Annealed • Super-elastic

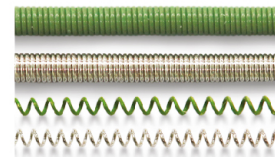


BRAIDING WIRES FLAT WIRE & ROUND WIRE			
Flat Wire 		Round Wire 	
Thickness .0005" - .01" (.0127mm - .254mm) W / T ratio 2:1 - 10:1		Diameter .0008" - .024" (.02mm - .61mm)	
Wire Type	Temper	Tensile Range	
Flat / Round	Spring Temper	300 - 355 ksi	2070 -2450 MPa
Flat / Round	3/4 Hard	250 -300 ksi	1720 -2070 MPa
Flat / Round	1/2 Hard	200 - 250 ksi	1380 - 1720 MPa
Round	1/4 Hard	150 - 200ksi	1030- 1380 MPa
Round	Annealed	109 - 150 ksi	750 - 1030 MPa
Round	Customization	Per Request	

TAPERED WIRE



COIL	
Coil OD	.0138" - .0787" (.35mm - 2mm)
Length	Upon Request
Material	Stainless Steel 304/304V
Spring Wire	Round Wire • Flat Wire • PTFE Coated Wire

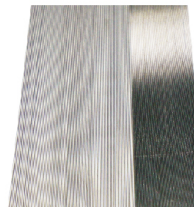


BAR			
Material	Stainless Steel	Grade	302/302V • 304/304V • 316/316LVM 420J2 • 630(17-4) • 631(17-7)
		Diameter	.04" - .37" (1mm - 9.4mm)
	Titanium	Grade	CPTiGr.1 • CPTiGr.2 • CPTiGr.4 • Ti-6Al-4V ELI
		Diameter	.08" - .32" (2mm - 8mm)
	Other medical grade alloys per request.		
	Length	36" - 118" (900mm - 3000mm)	
Condition	Cold Drawn • Centerless Ground		

Mechanical Properties : As per ASTM • EN • JIS Standard or Customized



MANDREL		
Material	Stainless Steel	Dia. .0047" - .0394" (.12mm - 1mm)
	Nitinol	Dia. .0047" min (.12mm min)
	Other medical grade alloys per request.	
Length	4" - 177" (100mm - 4500mm)	



KT Medical Inc. offers exceptional services tailored for medical device applications. Our core focus lies in the specialized production of “wire forms and components” and “guide wire” where we consistently strive for excellence. Our unwavering dedication to quality is demonstrated through our certifications in ISO 13485 and GMP, underscoring our commitment to medical industry standards.

We take immense pride in our wide range of skills, including wire drawing, coating, grinding, coiling, welding, and wire forming. These capabilities are intricately woven into every product we make. Leveraging the extensive knowledge of our parent company with over 40 years of wire manufacturing experience, we infuse compassion into every aspect of our work.

At **KT Medical Inc.**, we are dedicated to making a positive impact in the medical device field. With our comprehensive approach and years of experience, we are sure that we are a reliable partner for you.

LOCATIONS



HQ & FACTORY

- Kaohsiung, Taiwan (HQ)
- Tainan, Taiwan



SALES OFFICE

- Japan
- Germany
- Switzerland
- U.S.

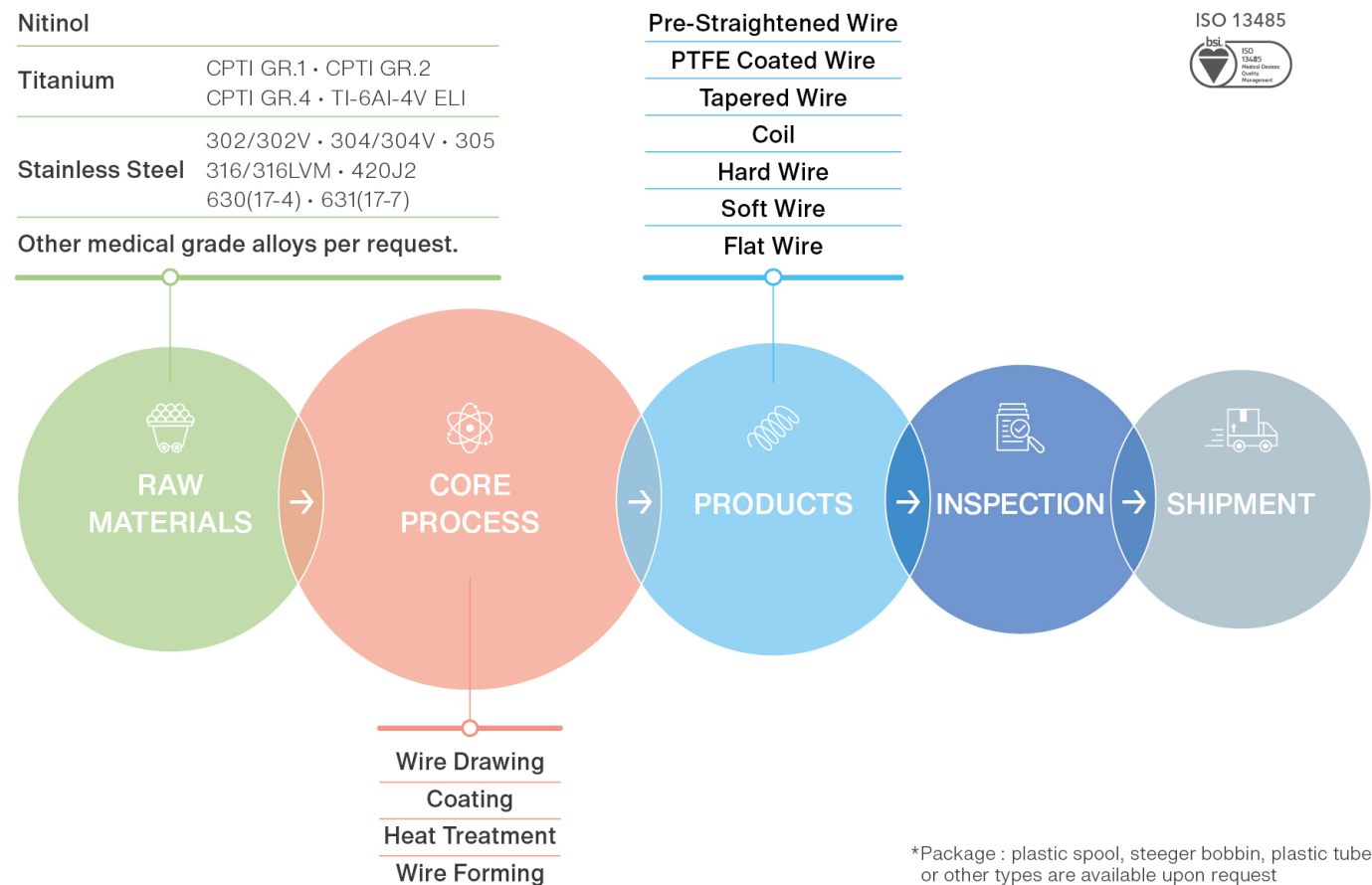


WAREHOUSE

- Costa Rica
- Mexico
- Malaysia



MANUFACTURE FLOW



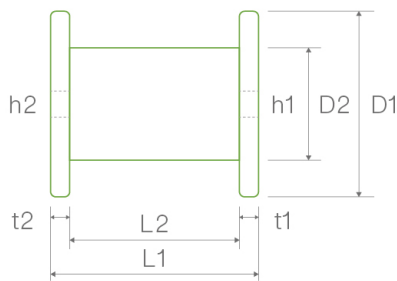
CHEMICAL COMPOSITION

unit : %wt															
Material	Standard	C	Mn	P	S	Si	Cr	Ni	N	Cu	H	Fe	O	Ti	Other Elements
302/302V	A313	.12	2.0	.045	.03	1.0	17.0-19.0	8.0-10.0	.10						
304/304V	A313	.08	2.0	.045	.03	1.0	18.0-20.0	8.0-10.5	.10						
305	A313	.12	2.0	.045	.03	1.0	17.0-19.0	10.5-13.0							
316	A313	.07	2.0	.045	.03	1.0	16.5-18.0	10.5-13.5	.10						Mo 2.0-2.5
316LVM	F138	.03	2.0	.025	.01	.75	17.0-19.0	13.0-15.0	.10	.50		Balance			Mo 2.25-3.0
420J2	JIS G4303	.26-.40	1.0	.040	.03	1.0	12.0-14.0	.60							
630(17-4)	F899	.07	1.0	.040	.03	1.0	15.0-17.5	3.0-5.0		3.0-5.0					Nb+Ta .15-.45
631(17-7)	F899	.09	1.0	.040	.03	1.0	16.0-18.0	6.50-7.75							Al .75-1.50
GPTI Gr.1	F67	.08							.03		.015	.20	.18	Balance	
GPTI Gr.2	F67	.08							.03		.015	.30	.25	Balance	
GPTI Gr.4	F67	.08							.05		.015	.50	.40	Balance	
Ti6Al4V ELI	F136	.08							.05		.012	.25	.13	Balance	Al 5.5-6.5 V 3.5-4.5
Ni-Ti	F2063	.04					.01	54.5-57.0	.005	.01	.005	.05	.04	Balance	Co .05 Nb .025

* Max if not expressed as a range.
** We also provide customized chemistry per customer's requirements.

SPOOL TYPES

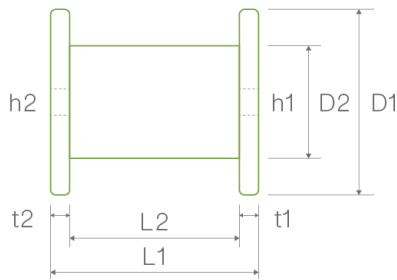
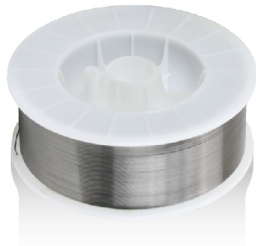
DIN TYPE



DIN TYPE	Flange Diameter D1 (mm)	Barrel Diameter D2 (mm)	Overall Length L1(mm)	Traverse Length L2(mm)	Spool Weight (g)
DIN80	80	50	80	64	70
DIN100	100	63	100	80	125
DIN125	125	80	125	100	200
DIN160	160	100	160	128	350
DIN200	200	125	200	160	610
DIN250	250	160	200	160	1250
6"A	152 (6")	90 (3.5")	110 (4.3")	90 (3.5")	310 (0.681 lbs)

* Material: ABS

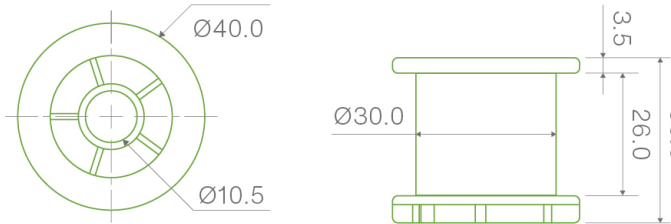
WELDING SPOOL



WELDING SPOOL	Flange Diameter D1 (mm)	Barrel Diameter D2 (mm)	Overall Length L1(mm)	Traverse Length L2(mm)	Spool Weight (g)
SD-300K (D300)	300	212	101	89	800

* Material: HIPS

STEEGER BOBBIN



STEEGER BOBBIN	Flange Diameter (mm)	Barrel Diameter (mm)	Bore Diameter (mm)	Overall Length (mm)	TraverseLength (mm)
STEEGER BOBBIN 40×30×26	40	30	10.5	35.5	26

* Material: ABS

CONVERSION TABLE

DIAMETER									
inch	.0010	.0015	.0020	.0025	.0030	.0035	.0040	.0045	.0050
mm	.0254	.0381	.0508	.0635	.0762	.0889	.1016	.1143	.1270
inch	.010	.014	.018	.021	.025	.028	.032	.035	.038
mm	.2540	.3556	.4572	.5334	.6350	.7112	.8128	.8890	.9652

• 1 inch = 25.4 mm

• 1 mm = .039inch

LENGTH									
ft	1	.0833	.0328	.0033	5	10	12	15	20
inch	12	1	.3937	.0394	60	120	144	180	240
cm	30.48	2.54	1	0.1	152.4	304.8	365.8	457.2	609.6
mm	304.8	25.4	10	1	1524	3048	3658	4572	6096

• 1 foot = 12 inch = 30.48 cm = 304.8 mm

• 1 inch = .0833 ft = 2.54 cm = 25.4 mm

• 1 cm = .0328 ft = .3937 inch = 10 mm

• 1 mm = .0033 ft = .0394 inch = .1 cm

TENSILE STRENGTH									
kgf/mm ²	1	.70	.102	70	105	141	176	211	246
ksi	1.42	1	.145	100	150	200	250	300	350
MPa	9.81	6.89	1	689	1034	1379	1724	2068	2413

• 1 kgf/mm² = 1.42 ksi = 9.81 MPa

• 1 ksi = 1000 psi = .70 kgf/mm² = 6.89 MPa

• 1 MPa = .102 kgf/mm² = .145 ksi

WEIGHT				
kg	1	.454	.0283	.0010
lb	2.2	1	.0625	.0022
oz	35.3	16	1	.0353
g	1000	453.59	28.3495	1

• 1 kg = 2.2046 lb = 35.27 oz = 1000 g

• 1 lb = .4536 kg = 16 oz = 453.59 g

• 1 oz = .0283 kg = .0625 lb = 28.35 g

• 1 g = .001 kg = .0022 lb = .0353 oz

WIRE WEIGHT ⇄ LENGTH			
$Weight_{(kg)} = Length_{(m)} \times Density_{(kg/m^3)} \times Radius^2_{(m^2)} \times \pi$			
Materials	SS 304	SS 316	Nitinol
Density (kg/m ³)	7930	7980	6450