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What we do?

inoxnet[®] offers comprehensive, end-to-end services-including consulting, design, planning, structural calculations, production, and installation-to clients worldwide who seek to transform their innovative ideas into reality.

Consulting

We provide consultancy to architects, design studios, and contractors, supporting them in achieving their design goals and meeting project requirements. Our consulting process begins with the initial architectural concept and continues through the planning stages to final implementation. We are always pleased to share our insights, whether through phone, email, or in person at our offices.

Planning & Design

The inoxnet® planning process includes:

- Design and System Development
- Planning Support
- Administrative Planning
- Project Application for Ropes, Nets, and Steel Works
- Installation Planning

inoxnet[®] services are always customer focused, with our specialists involved at every stage of the process, from start to finish. In addition to our standard products, we also offer custom-designed stainless steel net and rope solutions, tailored to meet the unique requirements of each project.



Static Calculations

inoxnet® provides structural static calculations for all types of stainless steel net and rope projects when required.

Our static analysis services include:

- System Development
- Shaping of Stainless Steel Nets and Net Structures
- Sizing of Net and Rope Loads
- Calculation of Additional Costs
- Verifiable Structural Static Calculations

Production

Once the production drawings are approved, they are forwarded to the production department, where manufacturing begins immediately according to these plans. Each net component is meticulously crafted to meet the specified dimensions, diamond orientation, and net ending features. I-ROPE® systems are also produced with precise attention to pin-to-pin measurements and pre-tension loads, as defined by the structural calculations.



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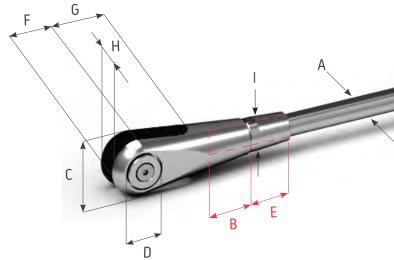




I-ROD® Accessories

										FORK
Part Number	System Thread	Rod Ø mm			[Dimensi	ons in mi	n		
		Α	В	C	D	Е	F	G	Н	1
IRD-610-010-00	M10	10	20	25.7	10	20	12.9	19.7	11	15
IRD-610-012-00	M12	12	24	29.7	12	23	14.8	22	12	18
IRD-610-016-00	M16	16	32	39.6	18	28	19.8	29.3	16	24
IRD-610-020-00	M20	20	40	52.6	20	35	26.3	38.7	16	28
IRD-610-024-00	M24	25	48	60.1	26	42	30	45	22	35
IRD-610-027-00	M27	28	55	66.5	28	47	34.1	48.2	22	36
IRD-610-030-00	M30	30	60	75.9	30	53	37.9	55	22	40

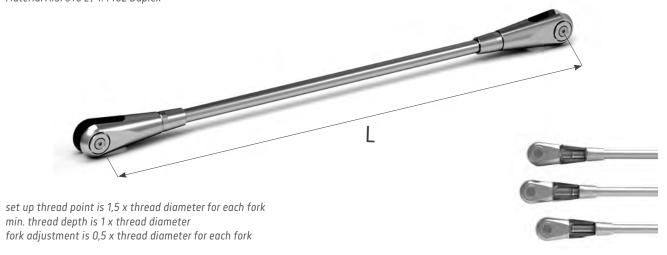
Material AISI 316 L / 1.4462 Duplex



BOTH SIDES FORK SET

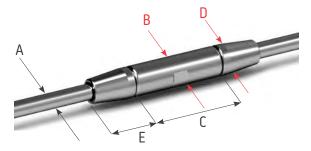
Set Number	System Thread	Rod 0 A(mm)	Max. Rod Length (mm)	Max. Set Length (L) max.(mm)	Min. Set Length (L) min.(mm)	Length Adjustment L +/- (mm)
IRDS-601-010	M10	10	6000	6084	294	10
IRDS-601-012	M12	12	6000	6096	316	12
IRDS-601-016	M16	16	6000	6128	366	16
IRDS-601-020	M20	20	6000	6170	480	20
IRDS-601-024	M24	25	6000	6192	524	24
IRDS-601-027	M27	28	6000	6217	615	28
IRDS-601-030	M30	30	6000	6240	656	30

Material AISI 316 L / 1.4462 Duplex



TURNBUCKLE

Part Number	System Thread	Rod Ø mm	Dimensions in mm		mm	
		Α	В	С	D	Ε
IRD-620-010-00	M10	10	19	65	19	27
IRD-620-012-00	M12	12	20	71	20	30
IRD-620-016-00	M16	16	28	79	28	37
IRD-620-020-00	M20	20	38	85	38	47
IRD-620-024-00	M24	25	40	105	40	58
IRD-620-027-00	M27	28	45	109	45	62
IRD-620-030-00	M30	30	50	145	50	65



Material AISI 316 L / 1.4462 Duplex

BOTH SIDES FORK WITH TURNBUCKLE SET

Set Number	System Thread	Rod 0 A(mm)	Max. Rod Length (mm)	Max. Set Length (L) max.(mm)	Min. Set Length (L) min.(mm)	Length Adjustment L +/- (mm)
IRDS-602-010	M10	10	6000	12129	563	30
IRDS-602-012	M12	12	6000	12141	597	32
IRDS-602-016	M16	16	6000	12175	669	36
IRDS-602-020	M20	20	6000	12215	859	40
IRDS-602-024	M24	25	6000	12249	945	49
IRDS-602-027	M27	28	6000	12272	1098	53
IRDS-602-030	M30	30	6000	12325	1181	70

Material AISI 316 L / 1.4462 Duplex



Material AISI 316 L / 1.4462 Duplex

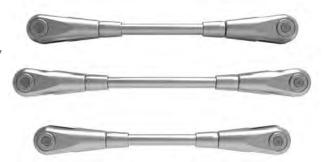
set up thread point is "thread diameter + 10 mm" for each side of turnbuckle for M10-M20

"thread diameter + 12,5 mm" for each side of turnbuckle for M24-M27" thread diameter + 20 mm" for each side of turnbuckle for M30 min. thread depth is 1 x thread diameter

turnbuckle adjustment is "+/- 20mm" for M10-M20

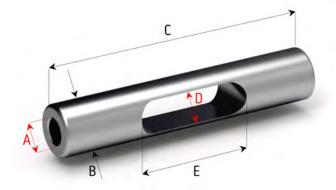
"+/- 25mm" for M24-M27

"+/- 40mm" for M30



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I-ROD® Accessories

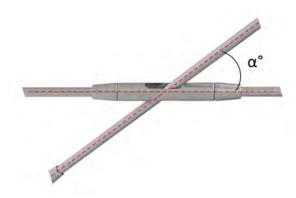


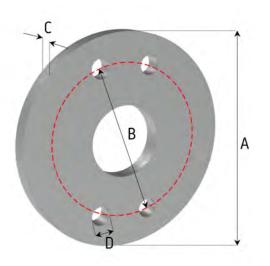
Connection angle α between 40 and 90 $^{\circ}$

CROSS COUPLER

Part Number	System Thread	Dimensions in mm		1	
	А	В	С	D	Ε
IRD-630-010-00	M10	19	100	12	42
IRD-630-012-00	M12	22	112	15	48
IRD-630-016-00	M16	28	145	19	61
IRD-630-020-00	M20	38	181	23	79
IRD-630-024-00	M24	40	208	27	88
IRD-630-027-00	M27	45	227	30	99
IRD-630-030-00	M30	50	250	33	110

Material AISI316L



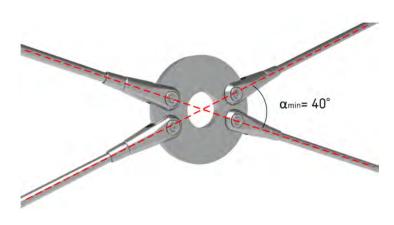


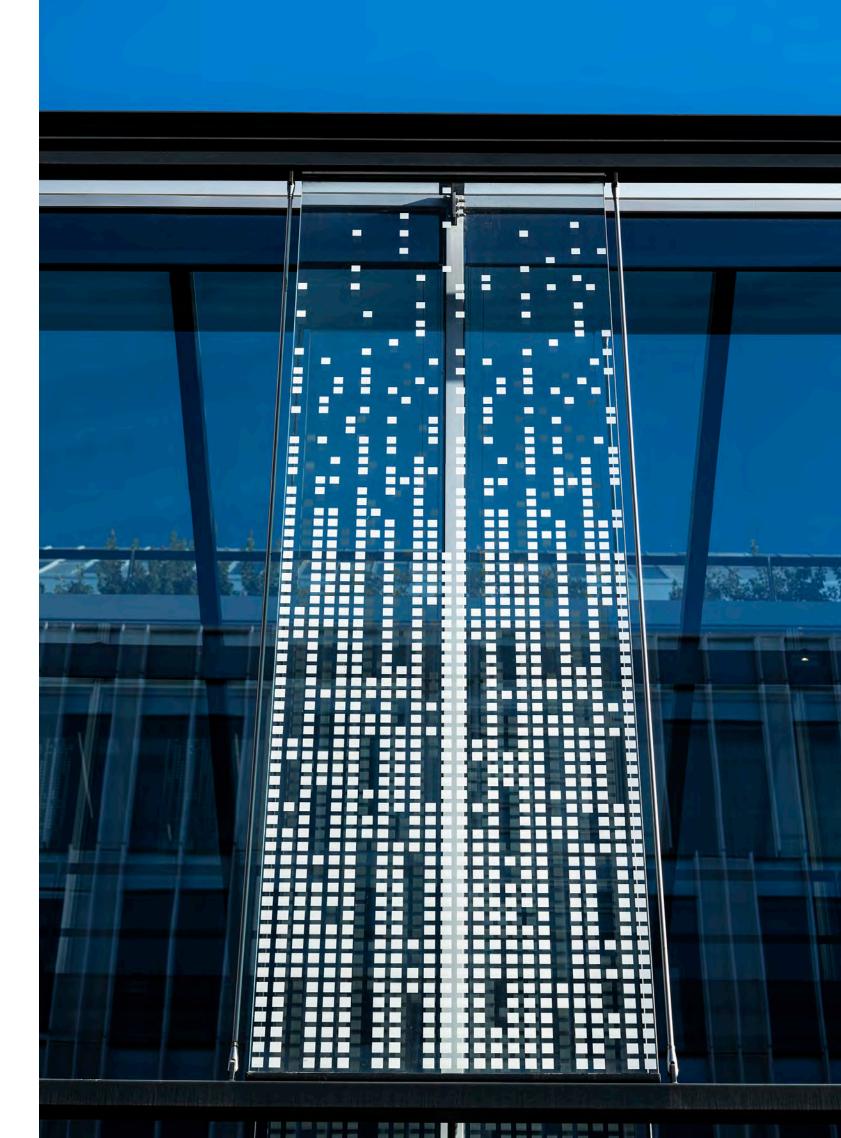
Custom manufacturing based on the project's requirements Smallest connection angle $\alpha\!\!:\!40^\circ$

CONNECTION DISC

Part Number	System Thread	Dimensions in mm			
	А	В	С	D	E
IRD-640-010-00	M10	120	87	10	11
IRD-640-012-00	M12	150	108	10	14
IRD-640-016-00	M16	187	130	12	19
IRD-640-020-00	M20	233	170	15	21
IRD-640-024-00	M24	281	200	20	27
IRD-640-027-00	M27	317	230	20	29
IRD-640-030-00	M30	343	250	20	31

Material AISI316L





INSTALLATION ACCESSORIES AND EQUIPMENTS

Fixing components

CONCRETE ANCHOR



Part Number	Thread	Length (mm)
922-006-00	M6	65
922-008-00	M8	70
922-010-00	M10	83
922-012-00	M12	100

Thread

M6

M8

M10

Material AISI 316

Part Number

923-006-00

923-008-00

923-010-00

Material AISI 316

Part Number	А	В	С	D	E
925-010-330	M10	330	150	170	15
925-012-330	M12	330	150	170	15
925-010-370	M10	370	150	210	15
925-012-370	M12	370	150	210	15

THERMO ANCHOR WITH PERFORATED SLEEVE

Dimensions in mm





Part Number	Description
954-330-00	HIT-MM Plus 330/2 Adhesive anchor injection mortar
955-275-00	HFX 275/2 Adhesive anchor injection mortar



THREAD LOCK FLUID

Part Number	Dimension	Description
956-243-10	10ml	Locktite 243 for locking and sealing the thread fasteners
956-243-50	50ml	service temprature -55°C to 150 °C

ANCHOR SYSTEM FOR CONCRETE

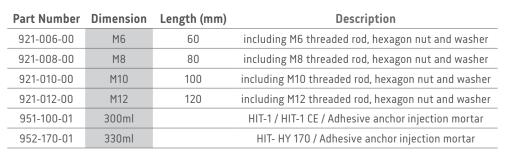
AERATED CONCRETE ANCHOR

Length (mm)

70 70

70





SCREW FOR WOOD



Part Number	Thread	Length (mm)
916-006-00	M6	25
916-008-00	M8	30
916-010-00	M10	40

ANCHOR SYSTEM FOR MASONRY



Part Number	Dimension	Description	
924-016-50	16 x 50	HIT-SC / 16 x 50mm mesh sleeve	
924-016-85	16 x 85	HIT-SC / 16 x 85mm mesh sleeve	
953-270-00	330ml	HIT- HY 270 / Adhesive anchor injection mortar for masonry	
950-000-01		HDM / Manual Dispenser gun	
950-000-02		HR-RE / Mixing nozzle	







PLASTIC TIES



Part Number	Dimensions (mm)
INT-601-160	4,5x160
INT-601-300	4,5x300

PLASTIC ENDCAP



Part Number	Rope Dia (mm)	
INT-602-004	4	
INT-602-006	6	

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OVERVIEW OF STAINLESS STEEL

Material

Stainlesss steel is an iron-based alloy which contains 10,5% chromium. This element keeps it self stain proof by creating a chromium-oxide layer on the surface of the material.

316 is a type of austhenitic stainless steel which is a popular grade as 304 with a higher corrosion resistance.

Different to 304 it contains Molibdenum and higher Nickel as well as Chromium contents. Since inox-net® products are used widely in outer weather conditions. inox-net® prefers 316 grade because of its better resistance to chemicals and chlorides (like salt). 316L has a better corrosion resistance and welding behaviour containing less Carbon. 316Ti has a better corrosion resistance compared to 316L with its Titanium content and higher friction resistance.

On the other hand Duplex stainless steel has both better corrosion and mechanical properties than 316L and 316Ti. This inox-net® prefers duplex stainless steel for the individual properties requested by special projects.

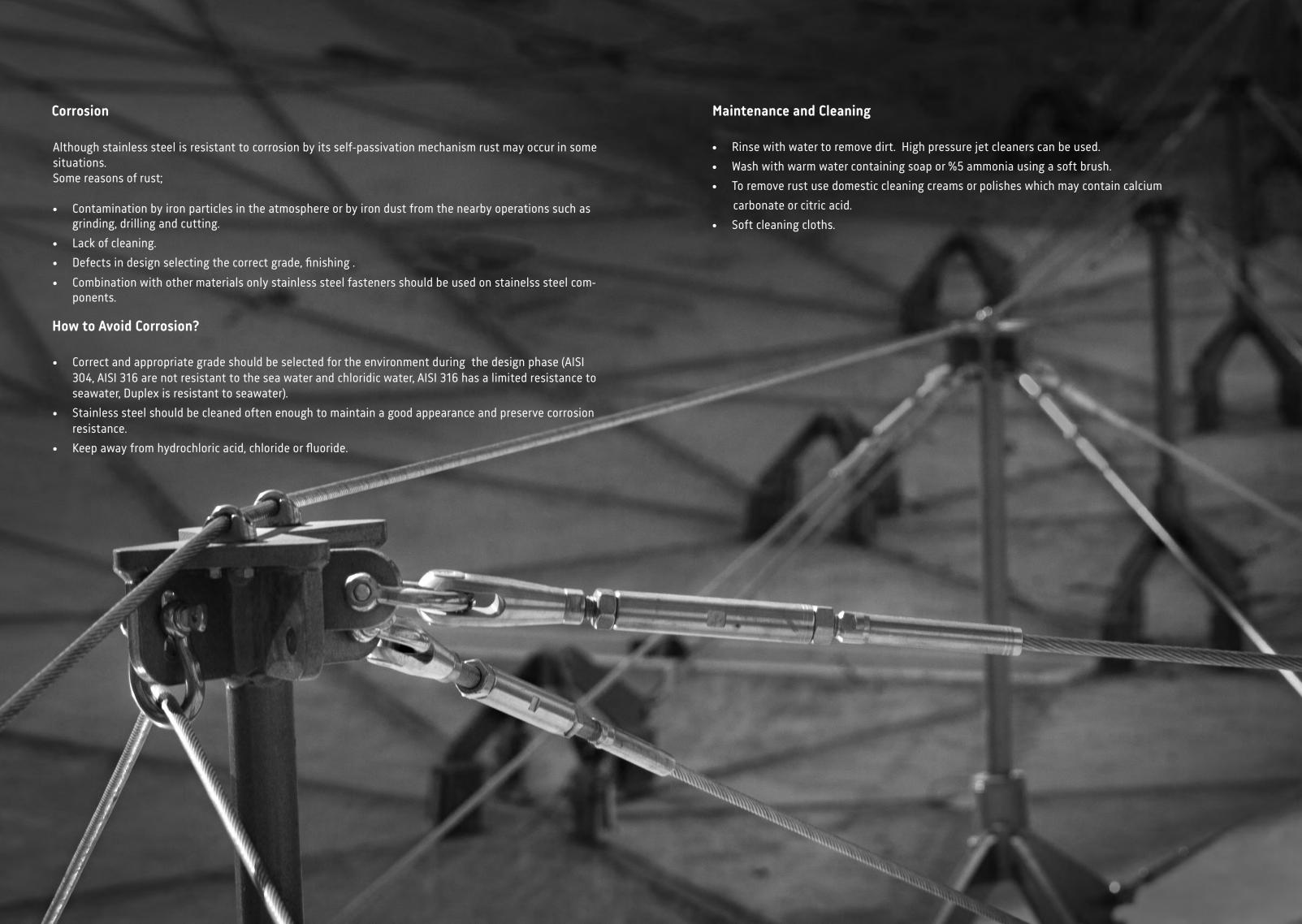
MATERIAL GROUPS

	EN 10088-3		AISI	Cmax.	Cr	Ni	Div	Туре
AISI	1.4401	X5CrNiMo17-12-2	316	0.07	18	10		Austenitic
	1.4404	X2CrNiMo17-12-2	316L	0.03	17	11	Mo	Austenitic
316	1.4408	GXCrNiMo19-11-2		0.07	19	10		Austenitic
group	1.4435	X2CrNiMo18-14-3	316L	0.03	18	12		Austenitic
	1.4571	X6CrNiMoTi17-12-2	316Ti	0.1	18	10	Ti	Austenitic
Duplex	1.4462	X2CrNiMoN22-5-3	2205	0.03	21-23	4,5-6,5	Mo	Austenitic-Ferritic
group	1.4410	X2CrNiMoN25-7-4	2507	0.03	24-26	6-8	Mo	Austenitic-Ferritic
Designation	European		USA	Carbon	Chromium	Nickel	Ti = Titanium	
	Standard		Standard				Mo = Molybdenum	

CRITERIA OF DIFFERENTATION AISI 316 / DUPLEX

	AISI 316	Duplex				
Material Number	1.4401 1.4404	1.4462				
	1.4408 1.4435	1.4410				
	1.4436 1.4571					
	weather-proof	weather-proof				
Properties	highly acid-resistant	highly acid and corrosion resistant highly resistant to aqueous environment and seawater higher mechanical properties				

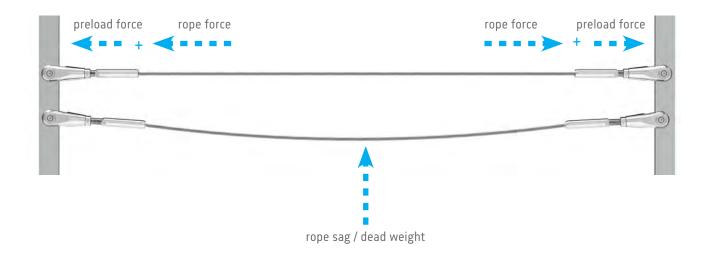




TECHNICAL TIPS

Rope Forces and Tensioning

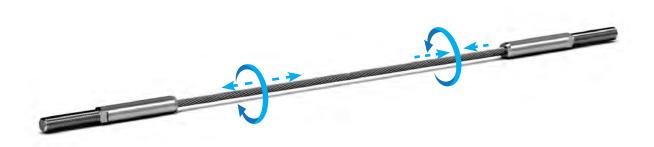
To make up an effective total, rope force and preload force should be applied as a combination. The ropes are held by means of fittings such as end stops and nuts. The length of the rope can be adjusted by the help of this joints.



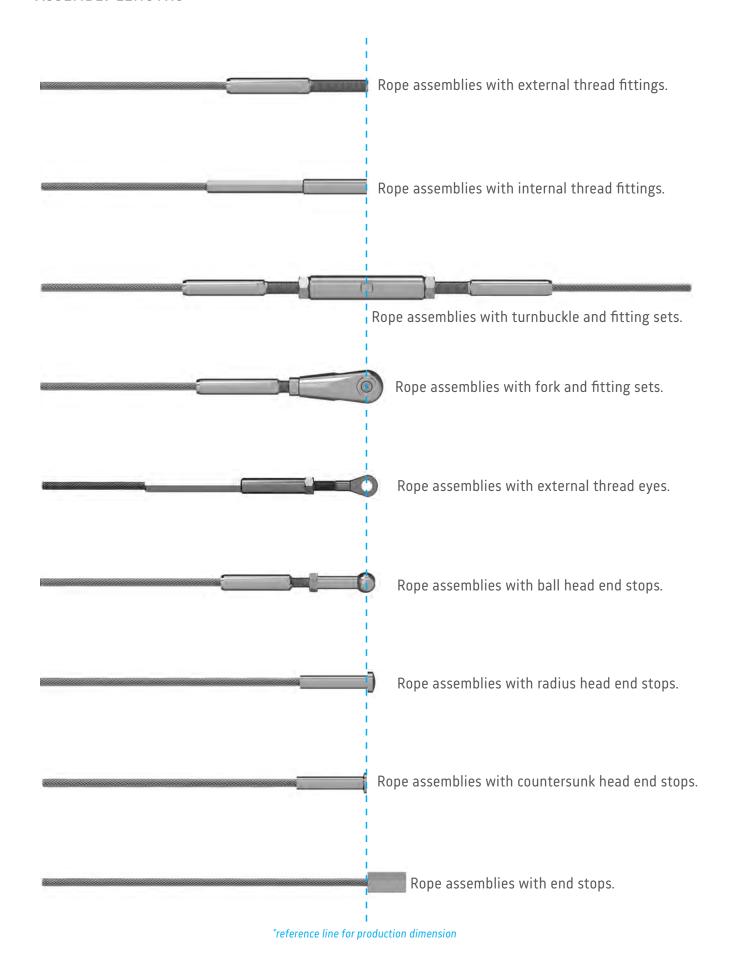
Tightening and Loosening Description of Rope System

Right Hand / Left Hand Thread

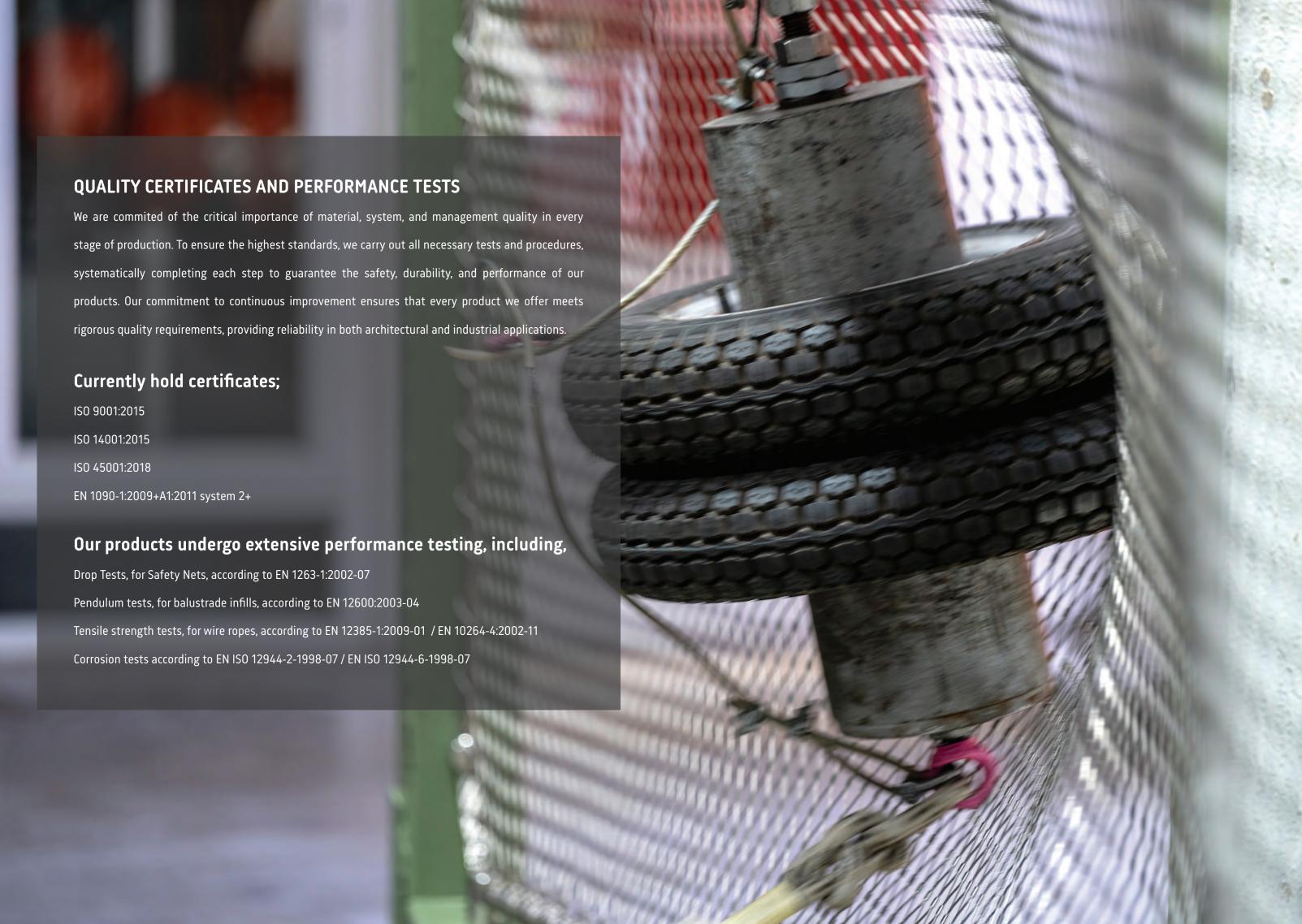
Where it is not possible to tension the rope from outside then a rope configuration with right hand /left hand thread should be used. The tensioning and releasing is effected by turning the entire rope. Both side right or both side left hand thread is used where the rope can be tensioned from outside.

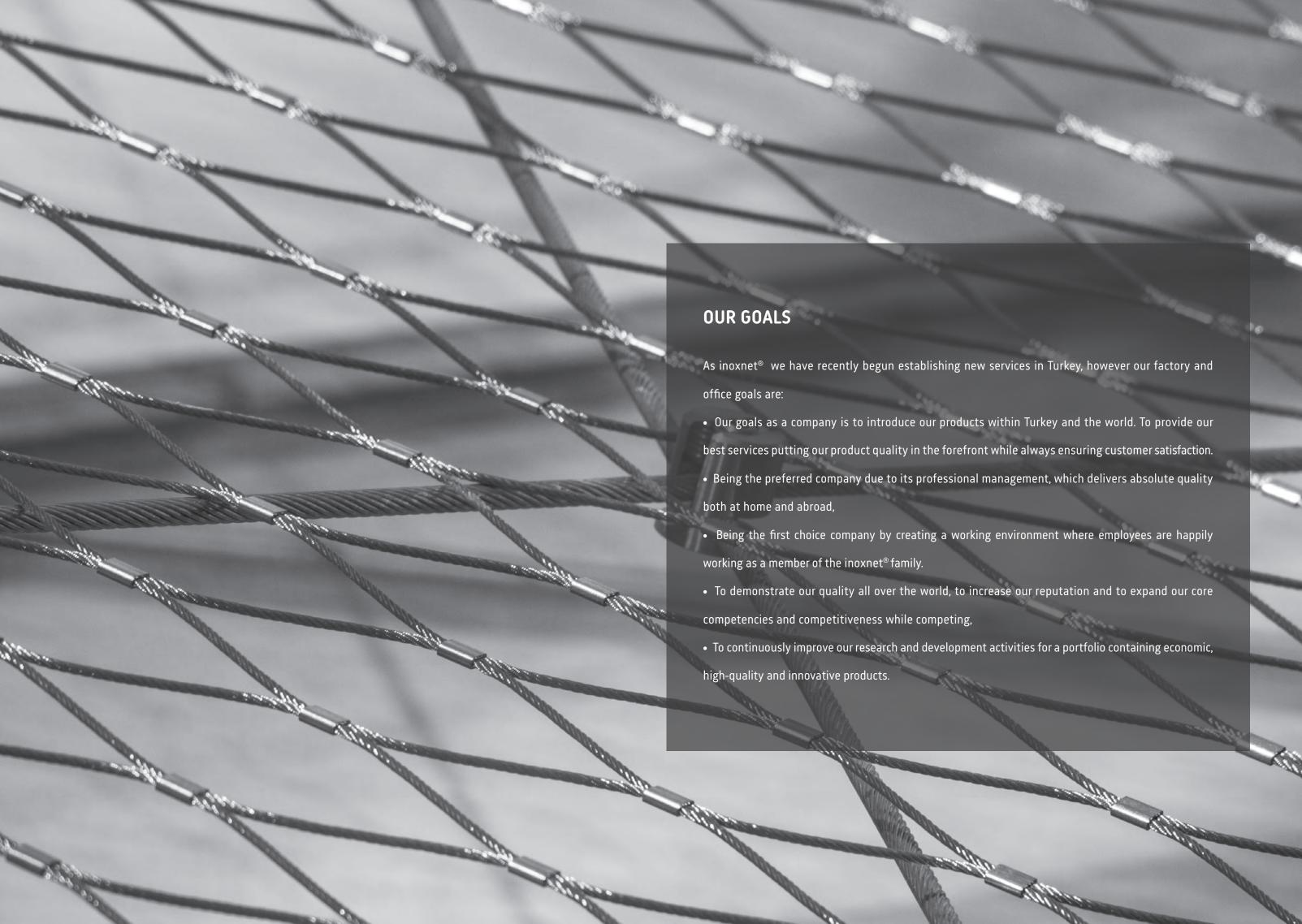


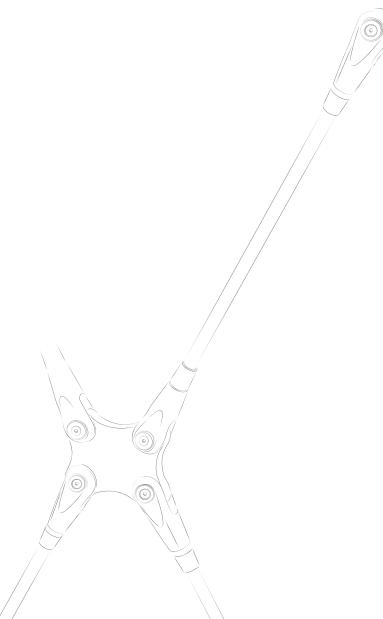
ASSEMBLY LENGTHS



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INOKSNET YAPI SİSTEMLERİ SAN. DIŞ. TİC. A.Ş.

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