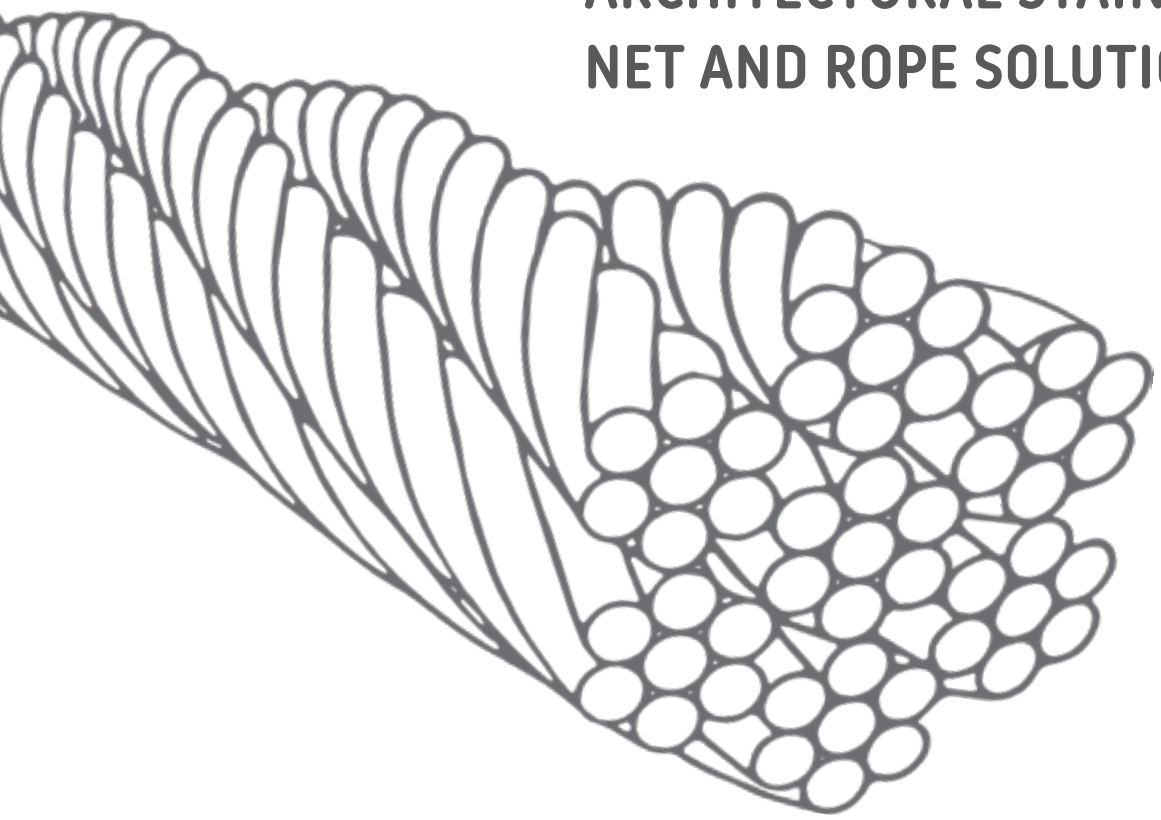
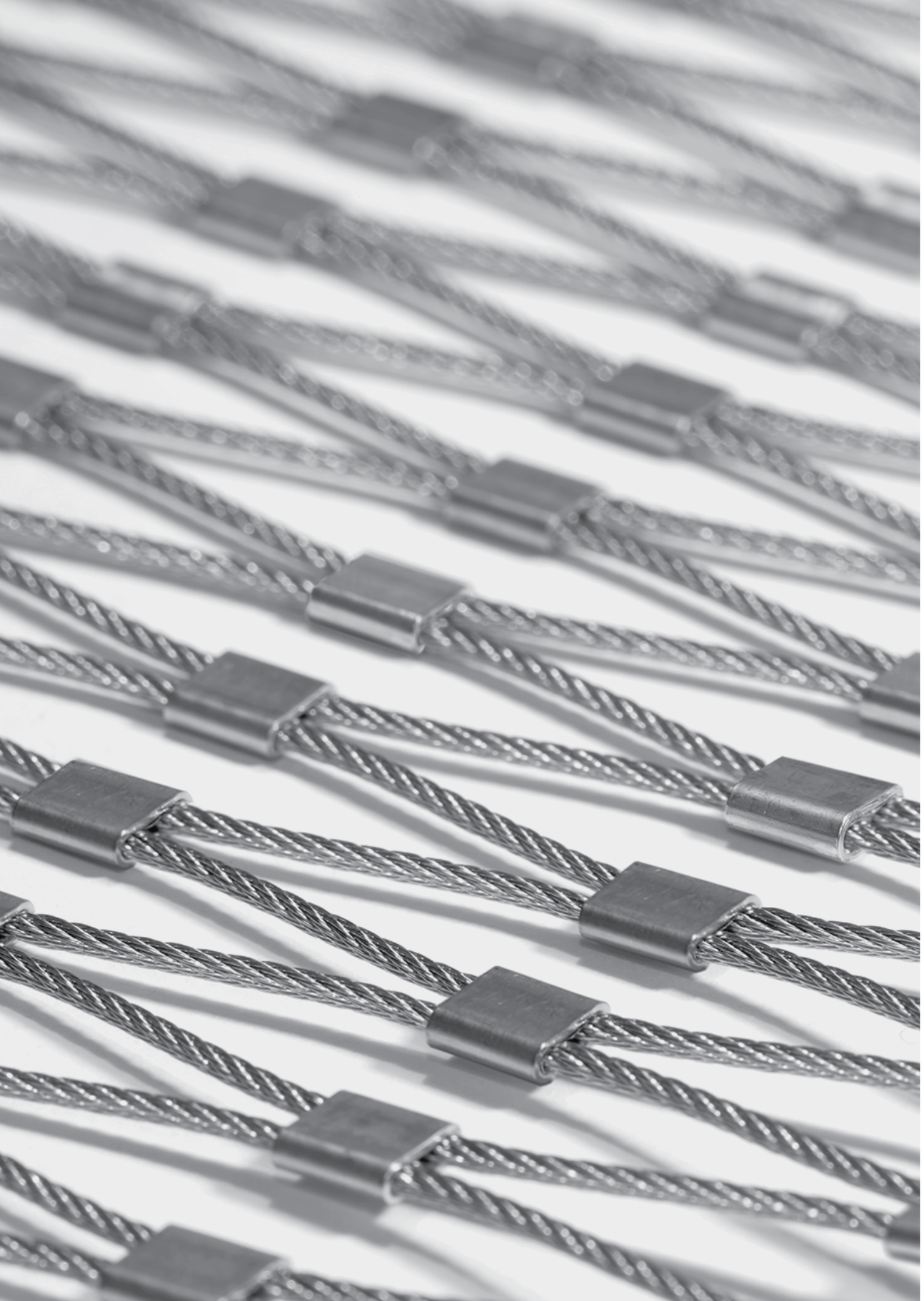
inoxnet

ARCHITECTURAL STAINLESS STEEL NET AND ROPE SOLUTIONS





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Who we are ?

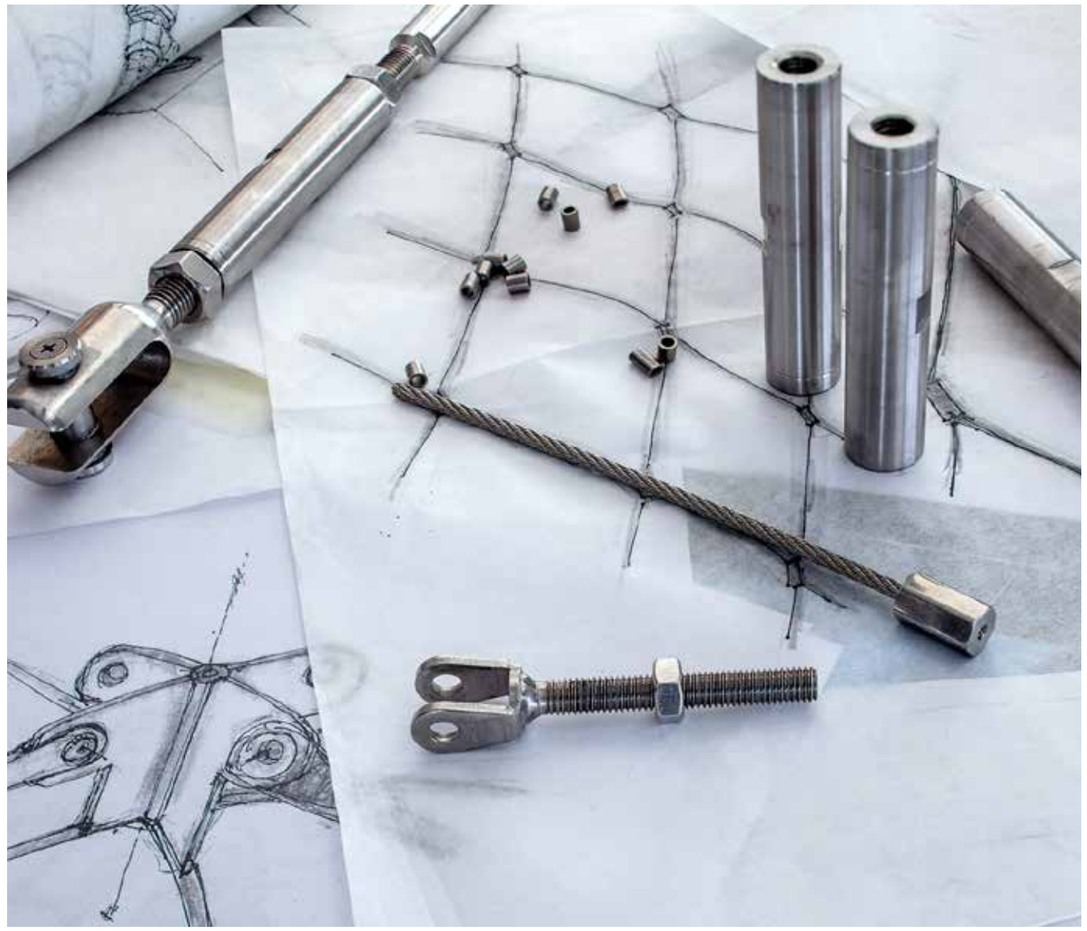
INOX-NET is a young and dynamic company specializing in architectural stainless steel net and rope systems. Our aim is to provide innovative, cost-effective, environmentally friendly, and long-lasting products with excellent quality. Stainless Steel Net and Rope Systems provide suitable solutions for many types of architectural projects by their features such as flexibility, durability, high quality, and lightweight.
INOX-NET is interested to be your solution partner from the smallest volume individual projects to the most unique and challenging projects from all over the world.

Our Company ;

INOX-NET is experienced in architectural applications involving stainless steel net and rope systems. We provide services and solutions in many architectural projects ranging from balustrades, safety nets, facades, greenery, decoration and zoo enclosures.

What we do ?

INOX-NET provides A to Z services from consulting, design and planning, static calculations to production and installation for customers all over the world who want to give life to their innovative ideas and imaginations.



Consulting ;

We provide consultancy services to architects, architectural design offices and contractors to fullfill their needs and guide their imagination. The consulting service we provide begins from the first idea of the architectural design project and lasts through the planning stage to the realization stage. We are always happy to share our ideas with you whether through phone, via email, or if you like face to face in our offices.

Planning & Design

The INOX-NET planning process includes:

- **DESIGN AND SYSTEM DEVELOPMENT,**
- **PLANNING SUPPORT,**
- **ADMINISTRATIVE PLANNING,**
- **PROJECT APPLICATION FOR ROPES, NETS AND STEEL WORKS,**
- **INSTALLATION PLANNING.**

INOX-NET services are always customer focused and our specialists are actively involved in the whole process from the beginning. Besides providing standard products, INOX-NET also provides custom design stainless steel net and stainless steel rope application concepts if so desired.

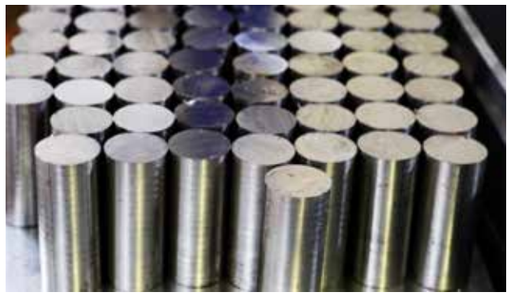
Static Calculations

INOX-NET can perform structural static calculations for all kinds of stainless steel net and rope projects when needed.
Our static analysis services are:

- **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

After approval of the production drawings, they are delivered to the production department and-productions start immediately according to these plans. Each net part is produced according to the desired measurements, diamond direction, and net ending features. I-ROPE systems are also produced by taking attention to the pin to pin measurements and pre-tension loads resulting from the static calculations.



Installation

- Self-Assembly by the customer,
- Installation training,
- Installation support.
- Installation supervision,
- Turn-key installation by INOX-NET.

According to customer preference, INOX-NET Stainless Steel Ropes and Net Systems can be installed on site by our experienced installation team.

Stainless, Ageless, Elegant, Durable, Solid & Transparent.

İstanbul 3.rd Airport I-ROPE Installation

BEHIND EVERY INNOVATIVE PRODUCT

THERE IS A CREATIVE SOLUTION.

OUR PRODUCTS

I-NET Stainless Steel Net Systems

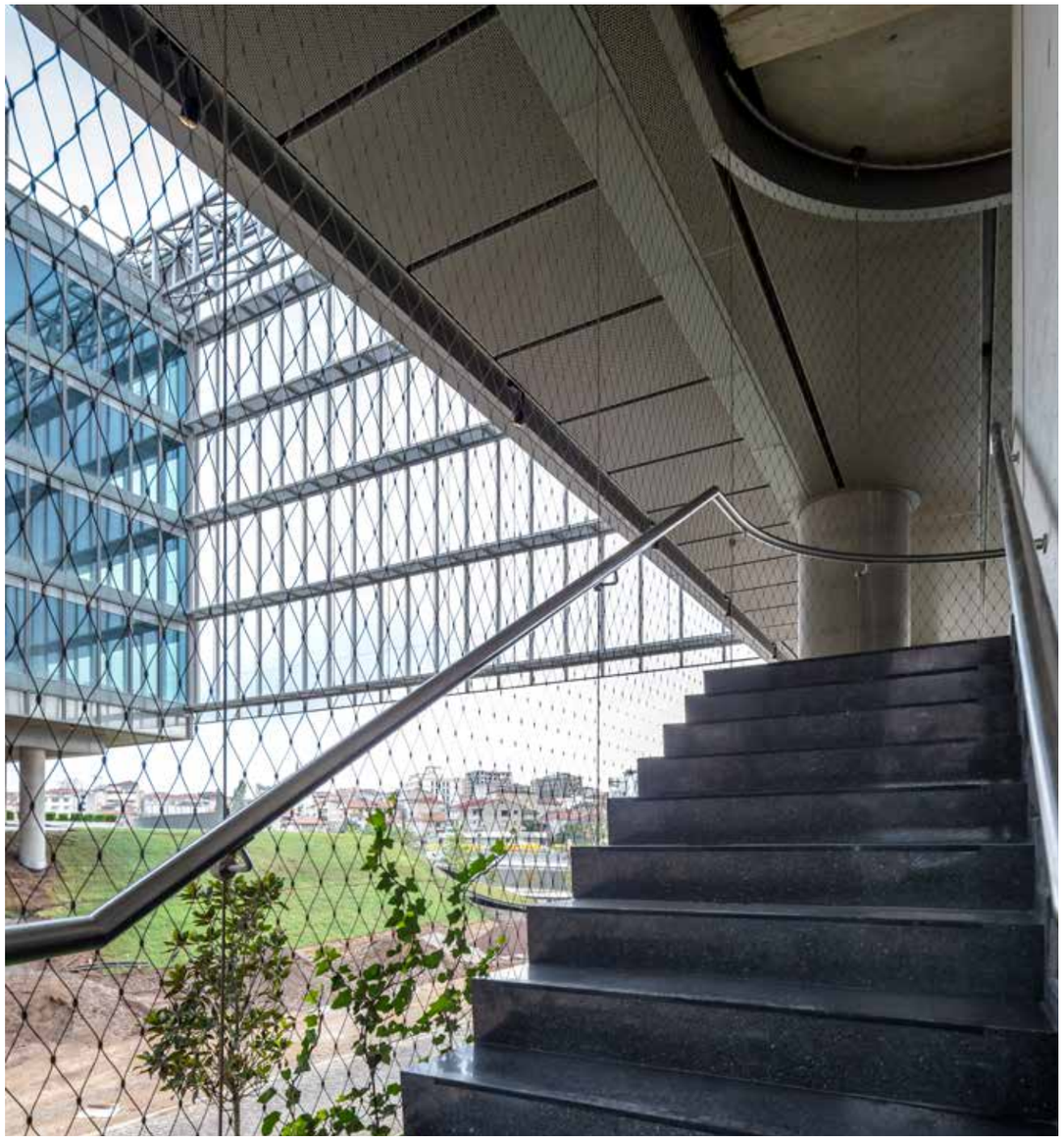
Lightweight, flexible, transparent, durable, and long-lasting I-NET is being created by knitting high quality stainless steel rope and stainless steel ferrules. I-NET is one of the most preferred materials for wide visioned architects and designers who want to give shape to their limitless imaginations. With the flexibility and curvature features of the I-NET stainless steel net, it can move in opposite directions allowing it to flex and change to the desired geometric form. Thus, it can be used in large areas without the need for any auxiliary substructures.

I-NET is produced with different net widths and rope diameters depending on the application field.

I-NET is a suitable material from railing fillings to,

- **DURABLE,**
- **TRANSPARENT,**
- **LIGHTWEIGHT**

facade structures, up to free-form zoo structures. I-NET provides solutions to a wide range of application fields.



T. Garanti Bank Pendik Technology Campus / Pendik - İSTANBUL

The most common applications for I-NET Stainless Steel Net are:

- **BALUSTRADES,**
- **SAFETY NETS,**
- **FACADES,**
- **GREENERIES,**
- **DECORATIVE DESIGNS,**
- **ZOO ENCLOSURES,**

I-NET TECHNICAL & GEOMETRICAL DETAILS

I-NET
AISI 316 Stainless Steel Rope

Rope 7x7 for
1,50 mm and 2,00 mm

I-NET
AISI 316 Stainless Steel Rope

Rope 7x19 for
3,00 mm and 4mm

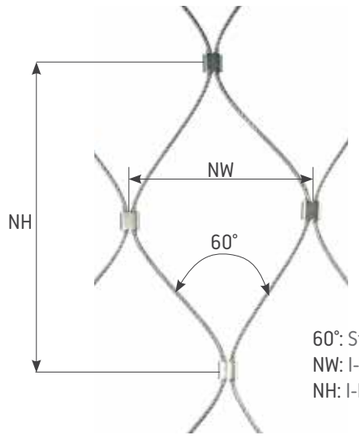
ROPES

Part Number	Rope (Ømm)	Material	Construction	F (kN)	MQ mm²	S (N/mm²)
IR-102-0150	1,5	AISI 316	7x7	1,86	0,97	1570
IR-102-0200	2	AISI 316	7x7	2,88	1,73	1570
IR-103-0300	3	AISI 316	7x19	4,69	3,73	1570
IR-103-0400	4	AISI 316	7x19	8,34	6,63	1570

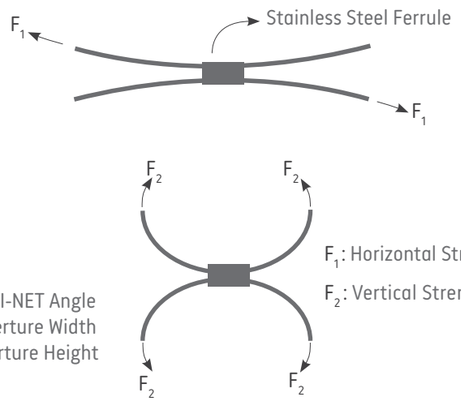
F *= Breaking load*
MQ *= Metallic cross section*
S *= Nominal strength of the individual wires*

FERRULES

Part Number	Rope (Ømm)	Material	Node Strength F1(kN)	Node Strength F2(kN)	Diameter Ø (mm)	Length (mm)
IN-115-0150	1,5	AISI 316L	0,21	2,26	5	6,4
IN-115-0200	2	AISI 316L	0,28	3,78	6	7,8
IN-115-0300	3	AISI 316L	0,45	7,9	8	11



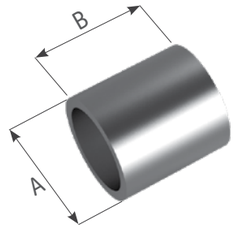
60°: Standart I-NET Angle
NW: I-NET Aperture Width
NH: I-Net Aperture Height



F_1: Horizontal Strength of Ferrules
F_2: Vertical Strength of Ferrules

The standard diameters of rope used in I-NET stainless steel nets are produced as 1.5 mm, 2 mm, 3 mm or 4 mm. Producing net width of 25 to 200mm (or larger) is possible depending on the rope diameter. The material class of I-NET is 1.4401.

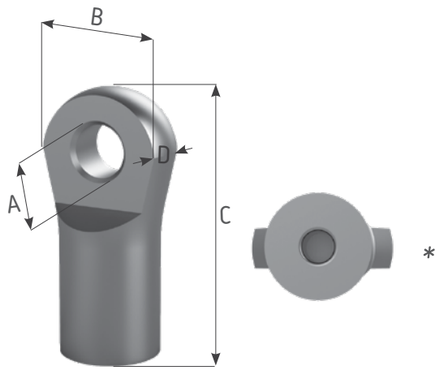
I-NET Components



I-NET FERRULE

Part Number	Rope (Ømm)	Dimensions in mm A	B
IN-115-0150	1,5	5	6,4
IN-115-0200	2	6	7,8
IN-115-0300	3	8	11

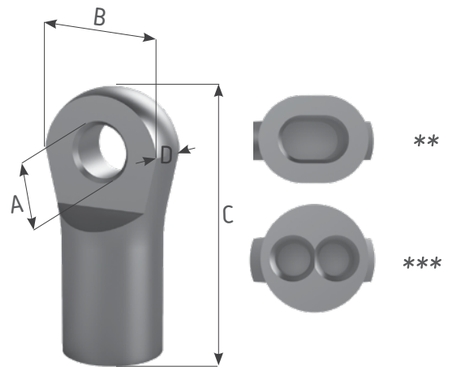
Material AISI 316 L



I-NET EYELET SINGLE

Part Number	Rope (Ømm)	Dimensions in mm A	B	C	D
*IN-116-0150	1,5	3,1	7,8	15,85	3
*IN-116-0200	2	4,55	10,62	21	3
*IN-116-0300	3	6	14,4	31	4,95

Material AISI 316 L



I-NET EYELET DOUBLE

Part Number	Rope (Ømm)	Dimensions in mm A	B	C	D
**IN-117-0150	1,5	3,1	7,8	15,85	3
**IN-117-0200	2	4,55	10,62	21	3
***IN-117-0300	3	6	14,4	31	4,95

Material AISI 316 L

Single 1.5, 2 and 3mm

Double 1.5 and 2mm

Double 3 mm

I-NET General Information

Part Number	Rope Ø mm	NW X NH mm	Weight kg/m²	Transparency %
IN-110-150-025	1,5	25 x 43	1,71	82,6
IN-110-150-030	1,5	30 x 52	1,31	85,9
IN-110-150-040	1,5	40 x 69	0,87	89,9
IN-110-150-050	1,5	50 x87	0,64	92,2
IN-110-150-060	1,5	60 x 104	0,5	93,7
IN-110-150-070	1,5	70 x 121	0,41	94,6
IN-110-150-080	1,5	80 x 139	0,35	95,3
IN-110-150-100	1,5	100 x 173	0,27	96,3
IN-110-150-120	1,5	120 x 208	0,22	97
IN-110-150-140	1,5	140 x 242	0,18	97,5
IN-110-150-160	1,5	160 x 277	0,15	97,8
IN-110-150-180	1,5	180 x 312	0,14	98
IN-110-150-200	1,5	200 x 346	0,12	98,9
IN-110-200-040	2	40 x 69	1,45	86,1
IN-110-200-050	2	50 x87	1,07	89,3
IN-110-200-060	2	60 x 104	0,85	91,4
IN-110-200-070	2	70 x 121	0,7	92,6
IN-110-200-080	2	80 x 139	0,6	93,6
IN-110-200-100	2	100 x 173	0,45	95
IN-110-200-120	2	120 x 208	0,36	95,9
IN-110-200-140	2	140 x 242	0,3	96,6
IN-110-200-160	2	160 x 277	0,26	97,1
IN-110-200-180	2	180 x 312	0,23	97,3
IN-110-200-200	2	200 x 346	0,2	97,8
IN-110-300-050	3	50 x87	2,48	85
IN-110-300-060	3	60 x 104	1,94	87,1
IN-110-300-070	3	70 x 121	1,59	89
IN-110-300-080	3	80 x 139	1,34	90,5
IN-110-300-100	3	100 x 173	1,01	92,6
IN-110-300-120	3	120 x 208	0,81	93,9
IN-110-300-140	3	140 x 242	0,68	94,9
IN-110-300-160	3	160 x 277	0,58	95,6
IN-110-300-180	3	180 x 312	0,51	95,9
IN-110-300-200	3	200 x 346	0,45	95

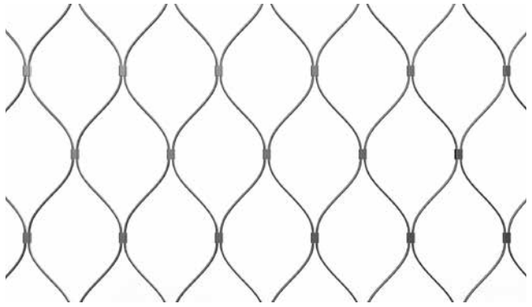
Part Number : IN - 000 - 000 - 000

- 000 → *Net Width*
- 000 → *Rope Diameter*
- 000 → *Code No*
- IN → *I-NET*

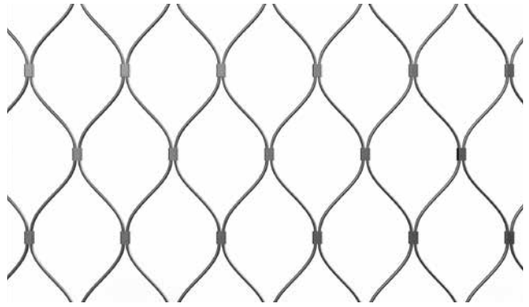
I-NET Comparison

I-NET 40mm with 1,5mm rope diameter

I-NET 40mm with 2mm rope diameter



I-NET 60mm with 1,5mm rope diameter



I-NET 60mm with 2mm rope diameter

I-NET 80mm with 2mm rope diameter

I-NET 80mm with 3mm rope diameter

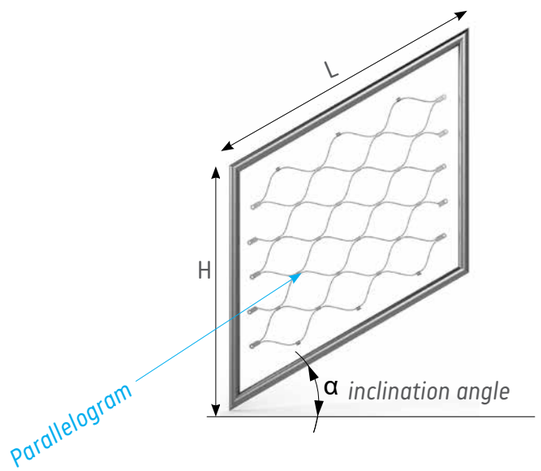
ORDER DATA SHEET

To provide a better service, please indicate following information when ordering stainless steel net systems.
If you have any specific inquiry please contact us..

1. I-NET Measurements

Outer Border / Frame Dimensions

*Rectangular : **H** (Height in mm) x **L** (Length in mm)*
*Parallelogram : **H** (Height in mm) x **L** (Length in mm) x α (inclination angle)*



For special shapes please share drawings.

2. I-NET Type

Rope Diameter: *: (See page 16)*
Net Width *: (See page 16)*
Net Direction and Endings *: (See page 20,21,22,23)*

3. Border Details

Border Rope and Assembly Details*: (See page 24 and 25)*
Frame System (Round and inviss) *: (See page 26 and 28)*

Additionals for Installation

Installation Cable *: Rope diameter (See page 14)*
Ferrules *: Type / dimension (See page 15)*
Eyelets *: Type / dimension (See page 15)*

To order I-NET please refer to following code system to indetify part number.

I-NET Part Number Description

IN	Code No.	Rope Diameter	Net Width	Net Direction & Endings
I-NET	110	1,5 mm	25 x 43 mm	**H1** (Horizontal diamond direction, both sides open cable endings)
		2 mm	30 x 52 mm	**H2** (Horizontal diamond direction, one side open,other side closed with loose ferrules)
		3 mm	40 x 69 mm	**H3** (Horizontal diamond direction, both sides closed with loose ferrules)
			50 x 87 mm	**H4** (Horizontal diamond direction, one side open cable, other side closed with eyelets)
			60 x 104 mm	**H5** (Horizontal diamond direction, both sides with eyelets)
			70 x 121 mm	**H6** (Horizontal diamond direction,one side closed with loose ferrules, otherside closed with eyelets)
			80 x 139 mm	**V1** (Vertical diamond direction, both sides open cable endings)
			100 x 173 mm	**V2** (Vertical diamond direction, one side open,other side closed with loose ferrules)
			120 x 208 mm	**V3** (Vertical diamond direction, both sides closed with loose ferrules)
			140 x 242 mm	**V4** (Vertical diamond direction, one side open cable, other side closed with eyelets)
			160 x 277 mm	**V5** (Vertical diamond direction, both sides with eyelets)
			180 x 312 mm	**V6** (Vertical diamond direction,one side closed with loose ferrules, otherside closed with eyelets)
			200 x 346 mm	**PH1** (Parallelogram net, horizontal diamond,, all sides open cable endings)
				PH2 (Parallelogram net, horizontal diamond, both side open closed with loose ferrules, both side open cable)
				PH3 (Parallelogram net,horizontal diamond, all sides closed with eyelets)
				PH4 (Parallelogram net,horizontal diamond, all sides closed with eyelets)
				PH5 (Parallelogram net,horizontal diamond, all sides closed with eyelets)
				PH6 (Parallelogram net, horizontal diamond, both side open closed with eyelets, both side closed with loose ferrules)
				PV1 (Parallelgram net, vertical diamond, all sides closed with loose ferrules)
				PV2 (Parallelogram net, vertical diamond, both sides open cable, both sides closed with loose ferrules)
				PV3 (Parallelogram net, vertical diamond, both sides closed with loose ferrules, both sides closed with eyelets)
				PV4 (Parallelogram net, vertical diamond, all sides closed with eyelets)

Part Number : IN - 000 - 000 - 000 - H0, V0, P0 → ***Net Direction & Endings***
Horizontal or Vertical Diamond Directions types or Horizontal & Vertical Sides of Paralellogram Net's types.

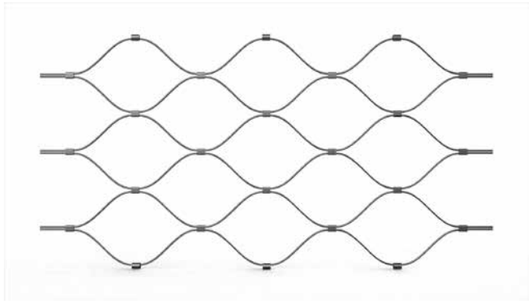
- *Net Width*
- *Rope Diameter*
- *Code No*
- *I-NET*

I-NET Directions and Endings

Horizontal Diamond I-NET Endings

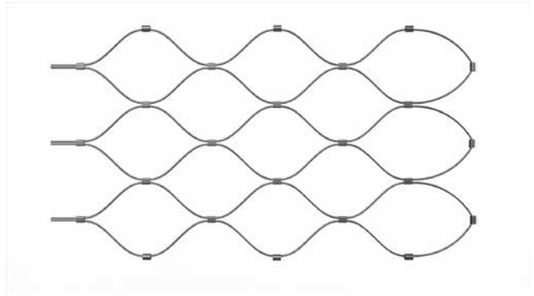
The horizontal diamond net direction is commonly used at balustrade, greenery and decorative projects. It might be preferred for projects involving long continuous nets as an economic solution. Ending possibilities of horizontal diamond directioned I-NET are as below;

H1



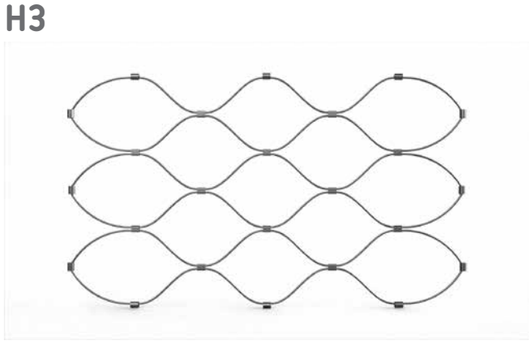
Both side open cable endings.

H2



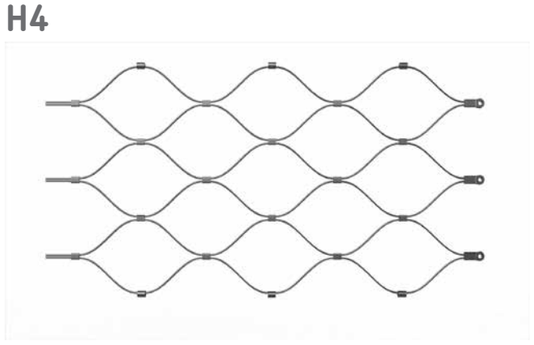
One side open cable, other side closed with loose ferrules.

H3



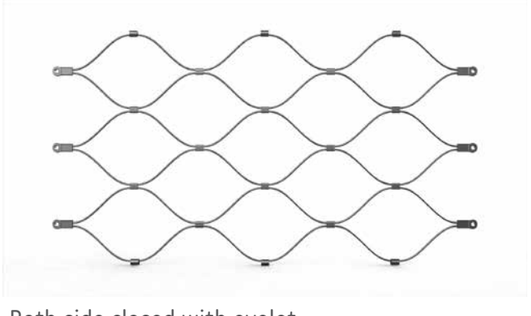
Both side closed with loose ferrules.

H4



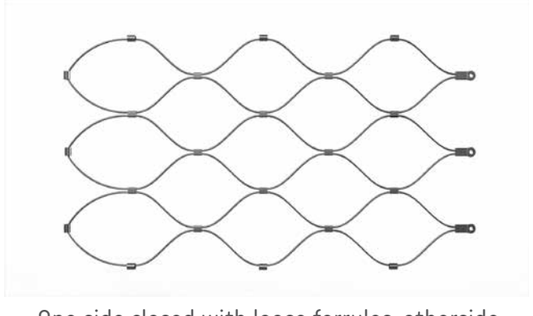
One side open cable, other side closed with eyelet.

H5



Both side closed with eyelet.

H6



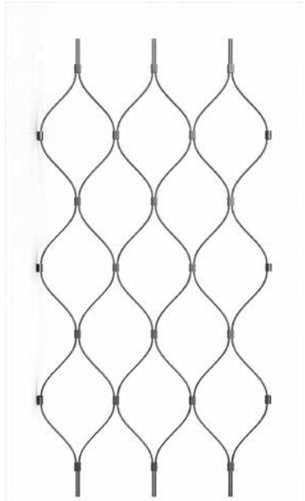
One side closed with loose ferrules, otherside closed with eyelet.

I-NET Directions and Endings

Vertical Diamond I-NET Endings

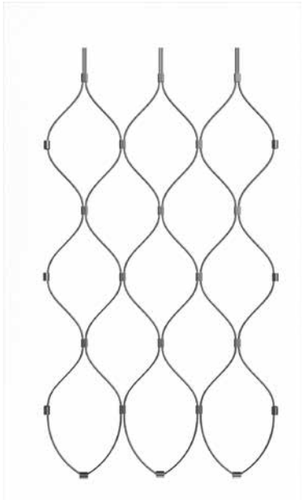
The vertical diamond net direction is mostly preferred at safety requiring applications and facade projects. Ending possibilities of vertical diamond directioned I-NET are as below

V1



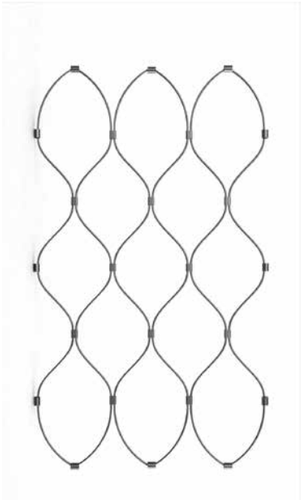
Both side open cable endings.

V2



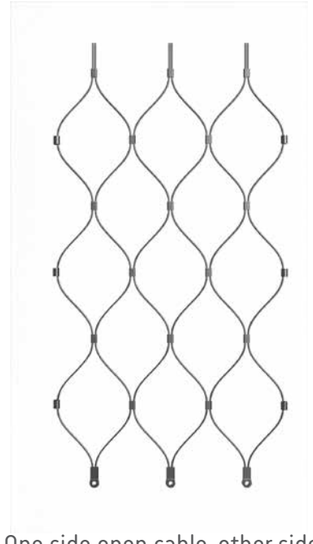
One side open cable, other side closed with loose ferrules.

V3



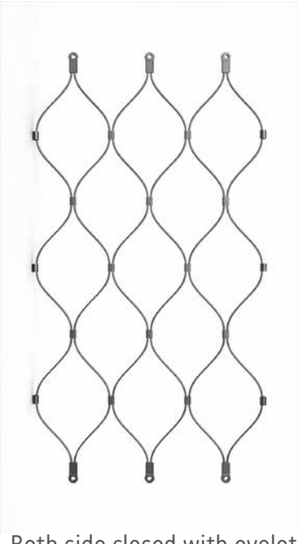
Both side closed with loose ferrules.

V4



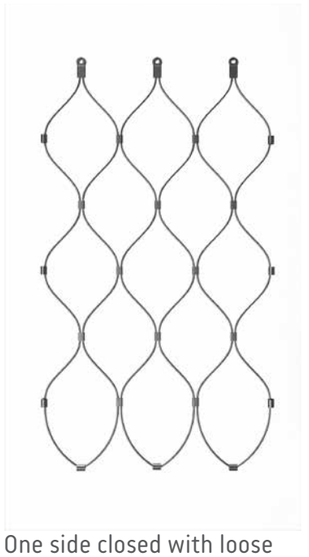
One side open cable, other side closed with eyelet.

V5



Both side closed with eyelet.

V6



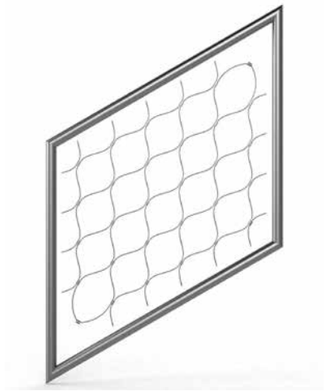
One side closed with loose ferrules otherside closed with eyelet.

I-NET Directions and Endings

Horizontal Diamond Paralellolgrams I-NET Endings

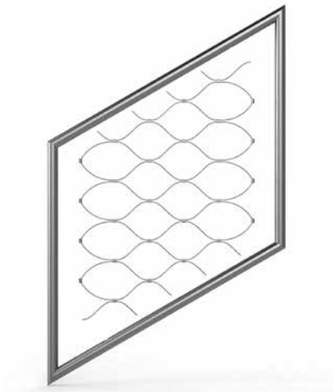
Parallelogram I-NET panel requirements are mostly seen in staircase projects. The planning and production process is precisely done with the exact dimensions. Ending possibilities of horizontal diamond directioned parallelogram I-NET are as below;

PH1



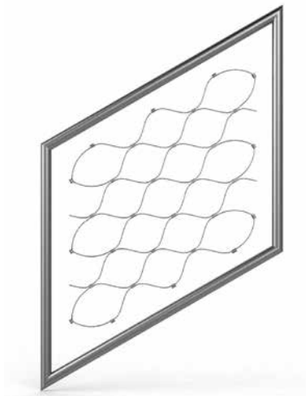
All sides open cable net endings.

PH2



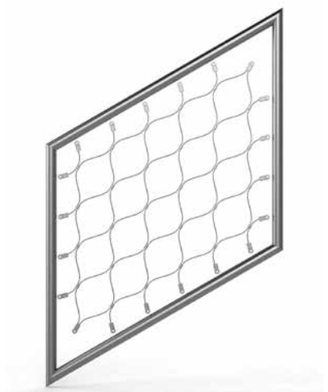
Both sides closed with loose ferrrules, two side open cable.

PH3



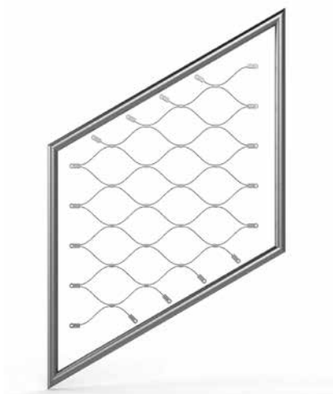
All net sides closed with loose ferrrules.

PH4



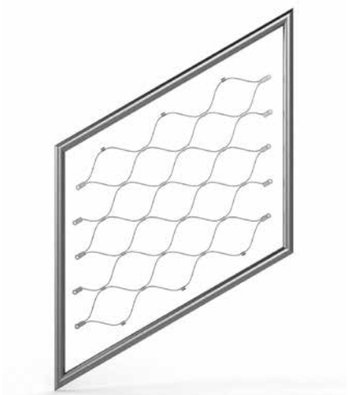
All net sides closed with eyelets.

PH5



All net sides closed with eyelets.

PH6



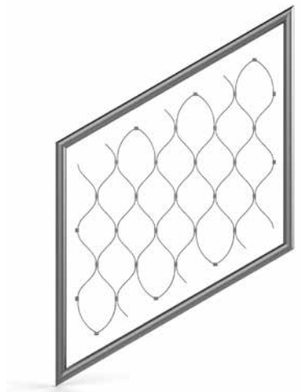
Both sides closed with eyelets, both sides closed with loose ferrules

I-NET Directions and Endings

Vertical Diamond Paralellolgrams I-NET Endings

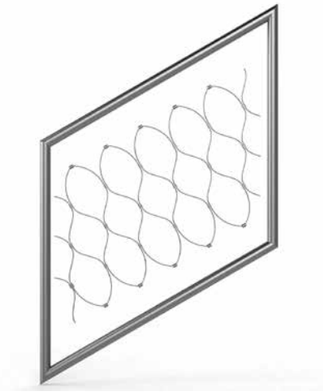
Parallelogram I-NET panel requirements are mostly seen in staircase projects. The planning and production process is precisely done with the exact dimensions. Ending possibilities of vertical diamond directioned parallelogram I-NET are as below;

PV1



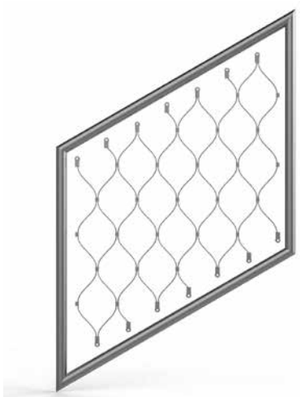
All net sides closed with loose ferrrules.

PV2



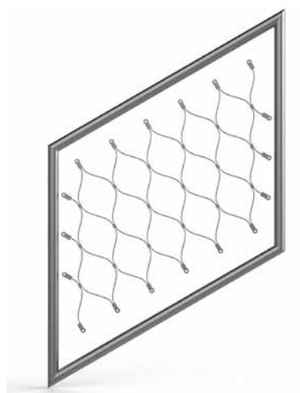
Both net sides open cable, both net sides closed with loose ferrules.

PV3



Both net sides closed with loose ferrules, both net sides closed with eyelets.

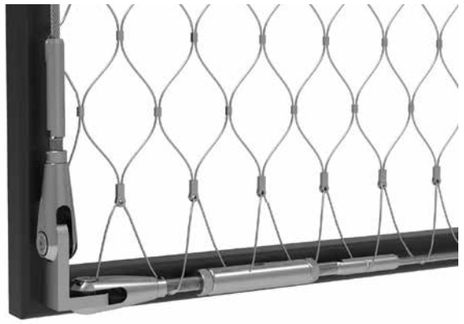
PV4



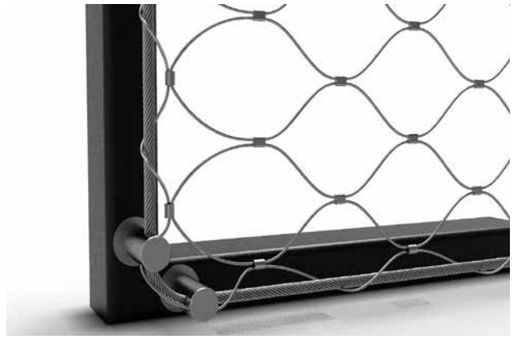
All net sides closed with eyelets.

1. *Corner solution, Eye with internal thread swaged fitting*

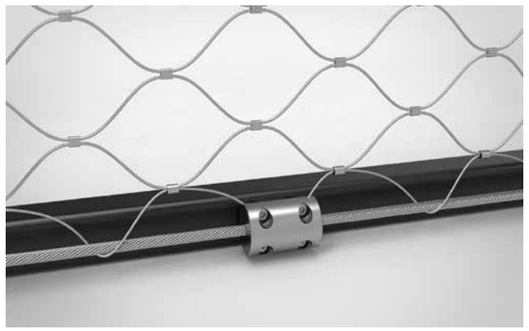
2. *Corner solution with external thread fitting and rod fixation*



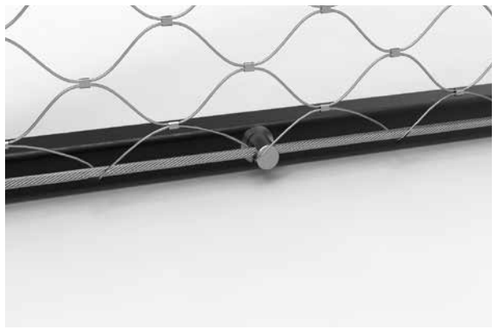
3. *Corner connection bracket fixation with fork and swaged fitting*



4. *Corner solution with rope holder*



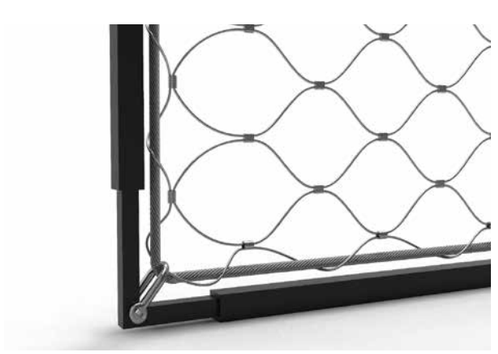
5. *Border cable guidance with clamp ring with two part*



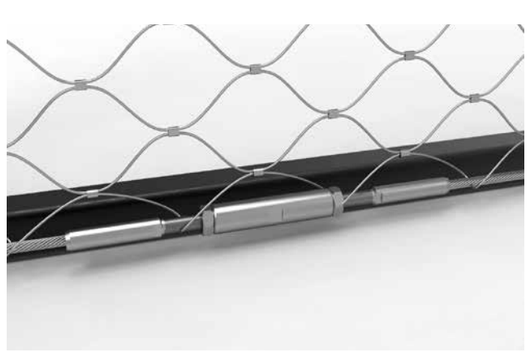
6. *Border cable guidance with rope older*

7. *Corner solution, with fork head rope guiding*

8. *Corner solution with eye bolt*

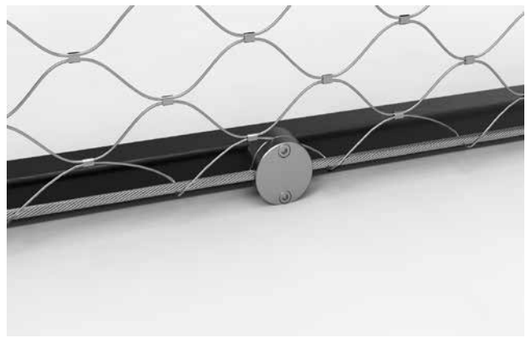


9. *Corner solution with D-Form Shackle*



10. *Turnbuckle with both side external thread fitting*

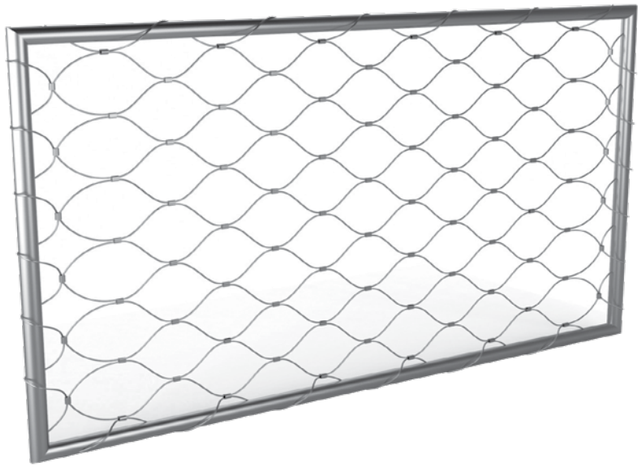
11. *Border cable guidance with connection bracket*

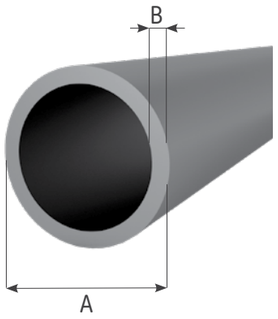


12. *Border cable guidance with screw on cross clamp*

I-NET FRAME SYSTEMS

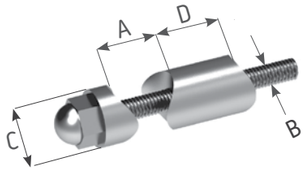
Round Frame Components





ROUND FRAME

Part Number	Dimensions in mm	
	A	B
IN-F-010-0021-020	21,3	2
IN-F-010-0026-020	26,9	2
IN-F-010-0033-026	33,7	2,6
IN-F-010-0042-026	42,4	2,6



ROUND FRAME HOLDER

Part Number	Dimensions in mm			
	A	B	C	D
IN-F-015-021	21,3	M6	16	25
IN-F-015-026	26,9	M6	16	25
IN-F-015-033	33,7	M8	20	25
IN-F-015-042	42,4	M8	20	25

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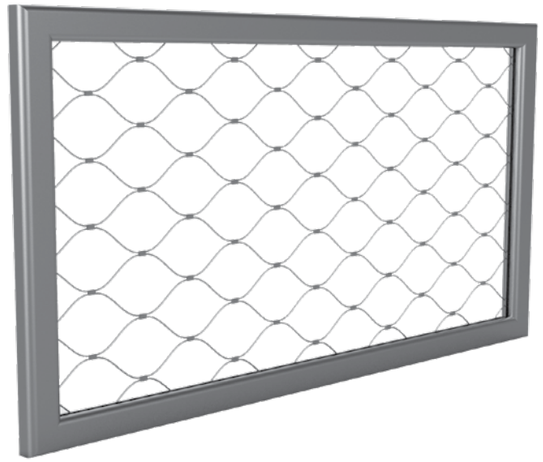
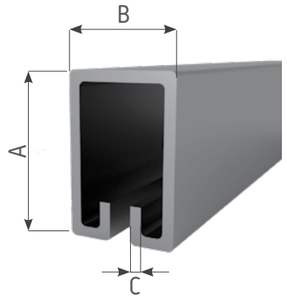
I-NET FRAME SYSTEMS

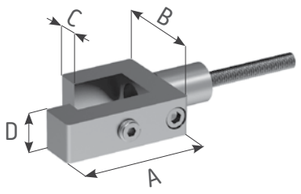
Inviss Frame Components

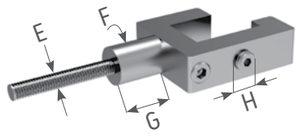


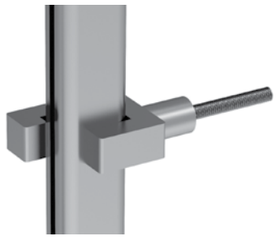


INVISS FRAME

Part Number	Dimensions in mm		
	A	B	C
IN-IF-010-3020-015	30	20	1,5

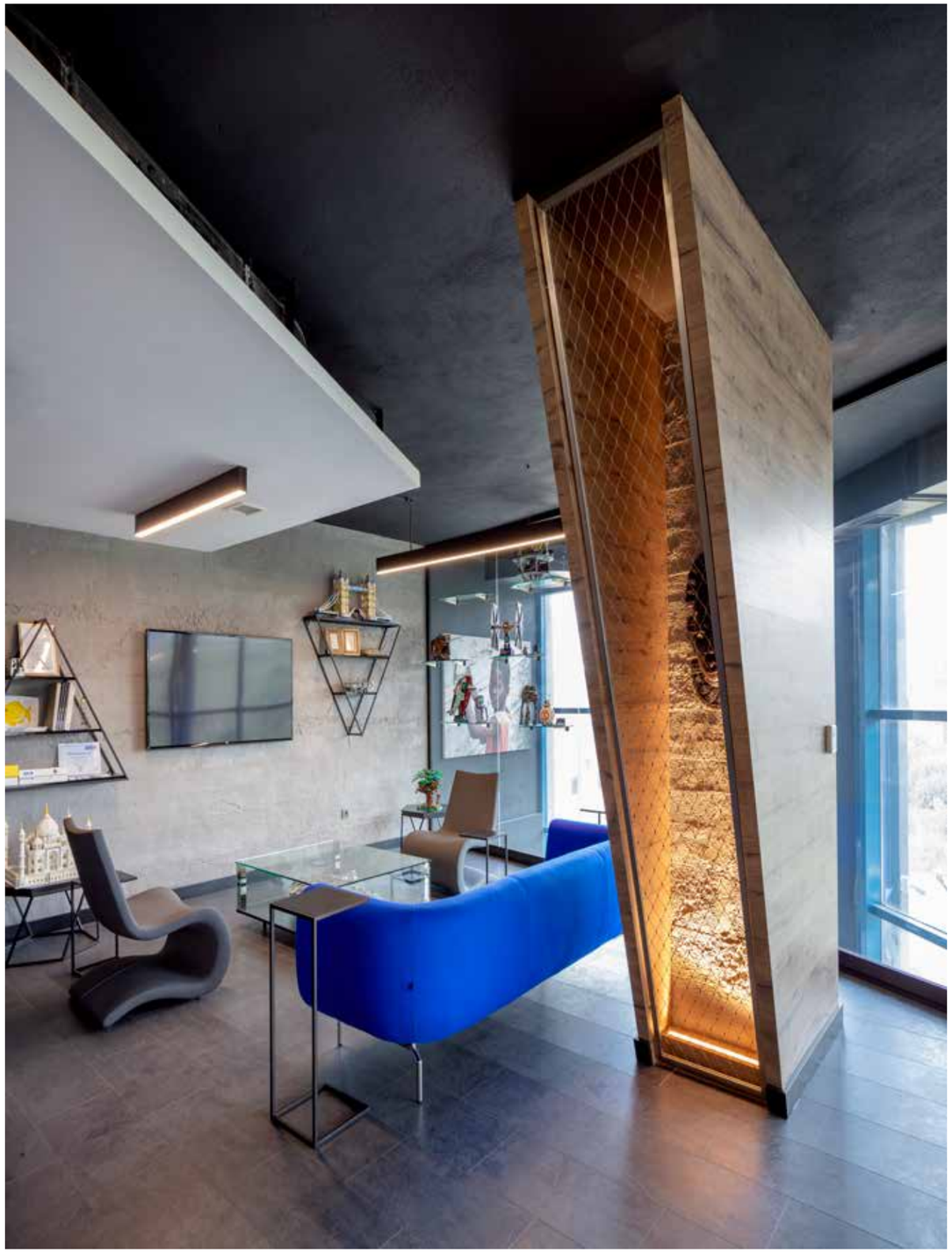






INVISS FRAME HOLDER

Part Number	Dimensions in mm							
	A	B	C	D	E	F	G	H
IN-IF-015-001	55	40	10	15	M6	14	20	M6



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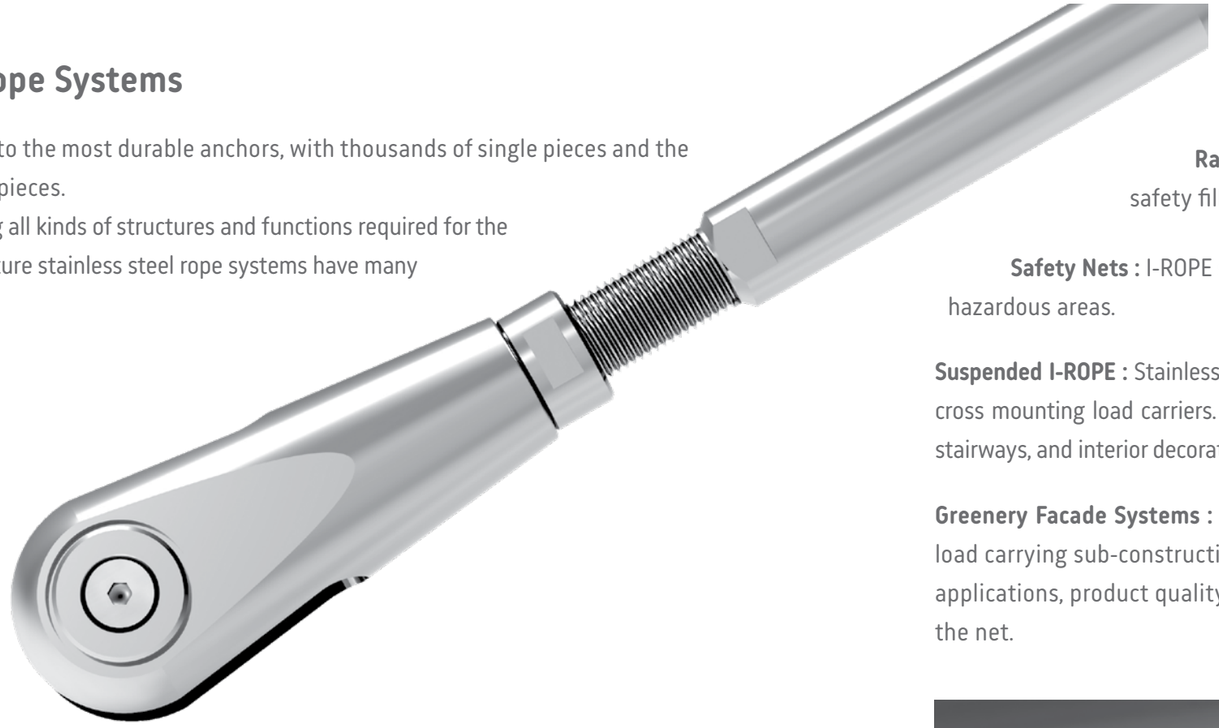
I-ROPE Stainless Steel Rope Systems

From the most delicate railing fillings to the most durable anchors, with thousands of single pieces and the many different combination of these pieces.
Stainless steel rope systems easily bring all kinds of structures and functions required for the construction industry to life. In architecture stainless steel rope systems have many advantages



These are:

- **FUNCTIONALITY,**
- **DECORATION,**
- **FLEXIBILITY,**
- **DURABILITY,**
- **LONG LIFE.**

I-ROPE combines all these features and provides customized solutions for architectural projects.
I-ROPE stainless steel ropes are available in diameters up to 4 mm to 40 mm. All of our products in our I-ROPE program are made from acid and corrosion resistant stainless steel. The ropes are made of 1.4401 class stainless steel material. Other components and accessories that make up the system use stainless steel grades 1.4401, 1.4404 and 1.4462.

Application areas for I-ROPE:

Railing : INOX-ROPE offers excellent solutions for railings. They can be used as safety fillings with their strong, long life features and aesthetic look.

Safety Nets : I-ROPE systems are used as boundary ropes and carrier systems of safety nets used in hazardous areas.

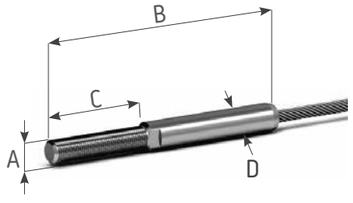
Suspended I-ROPE : Stainless Steel I-ROPE systems can be applied in various ways such as hanging vertical or cross mounting load carriers. Load carrying I-ROPE systems are used in facades, bridges, canopies, luminaries, stairways, and interior decorations.

Greenery Facade Systems : Plants can grow on the I-ROPE Stainless Steel ropes which has the role as a load carrying sub-construction of I-NET or can also be specially designed as a net. In the green facade applications, product quality and engineering calculations are important to ensure the plants grow above the net.

İstanbul 3. rd Airport / İSTANBUL

I-ROPE TECHNICAL DETAILS

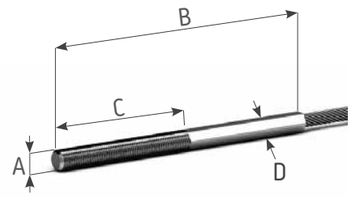
External Thread fittings



EXTERNAL THREAD ROLL SWAGED FITTING

Part Number Right threaded	Part Number Left threaded	Set Number	Rope Ø mm	Dimensions in mm A	B	C	D
IR-150-004-00	IR-150-004-01	IRS-120-004-00	4	M6	75	35	7,5
IR-150-006-00	IR-150-006-01	IRS-120-006-00	6	M10	109	45	12,5
IR-150-008-00	IR-150-008-01	IRS-120-008-00	8	M12	144	60	16
IR-150-010-00	IR-150-010-01	IRS-120-010-00	10	M14	180	76	17,8
IR-150-012-00	IR-150-012-01	IRS-120-012-00	12	M16	215	90	21,4
IR-150-014-00	IR-150-014-01	IRS-120-014-00	14	M20	278	115	25
IR-150-016-00	IR-150-016-01	IRS-120-016-00	16	M24	313	130	28
IR-150-018-00	IR-150-018-01	IRS-120-018-00	18	M27	332	146	34,5
IR-150-020-00	IR-150-020-01	IRS-120-020-00	20	M30	397	162	40
IR-150-022-00	IR-150-022-01	IRS-120-022-00	22	M30	410	170	40
IR-150-024-00	IR-150-024-01	IRS-120-024-00	24	M36	425	175	46
IR-150-026-00	IR-150-026-01	IRS-120-026-00	26	M36	435	175	46

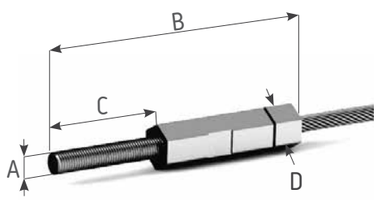
Material AISI 316 L



EXTERNAL THREAD SWAGED FITTING

Part Number Right threaded	Part Number Left threaded	Set Number	Rope Ø mm	Dimensions in mm A	B	C	D
IR-160-004-00	IR-160-004-01	IRS-130-004-00	4	M6	90	30	7
IR-160-006-00	IR-160-006-01	IRS-130-006-00	6	M10	125	50	10
IR-160-008-00	IR-160-008-01	IRS-130-008-00	8	M12	155	65	13
IR-160-010-00	IR-160-010-01	IRS-130-010-00	10	M16	190	80	18
IR-160-012-00	IR-160-012-01	IRS-130-012-00	12	M20	225	100	20
IR-160-014-00	IR-160-014-01	IRS-130-014-00	14	M22	280	115	25
IR-160-016-00	IR-160-016-01	IRS-130-016-00	16	M24	315	130	27

Material AISI 316 L

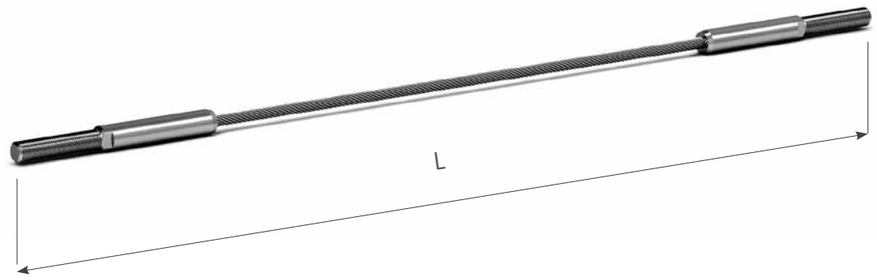


EXTERNAL THREAD SWAGELESS CONNECTION

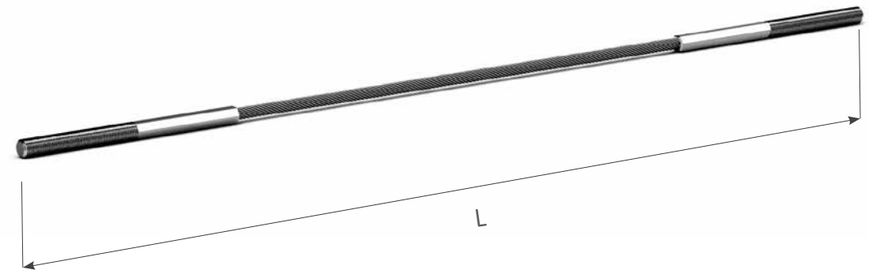
Part Number Right threaded	Part Number Left threaded	Set Number	Rope Ø mm	Dimensions in mm A	B	C	D
IR-170-004-00	IR-170-004-01	IRS-140-004-00	4	M6	110	60	13
IR-170-006-00	IR-170-006-01	IRS-140-006-00	6	M8	115	60	15
IR-170-008-00	IR-170-008-01	IRS-140-008-00	8	M10	160	80	19
IR-170-010-00	IR-170-010-01	IRS-140-010-00	10	M14	210	100	27

Material AISI 316 L

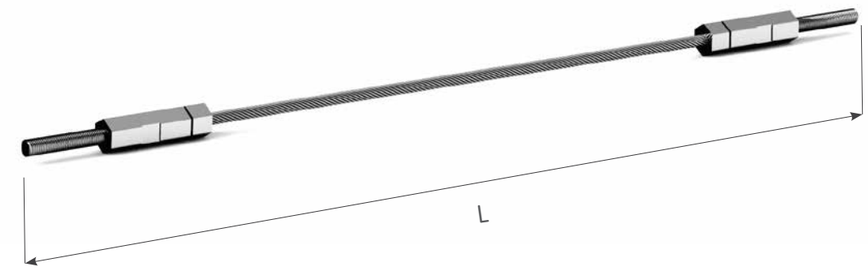
Both sides external thread roll swaged.



Both sides external thread swaged.



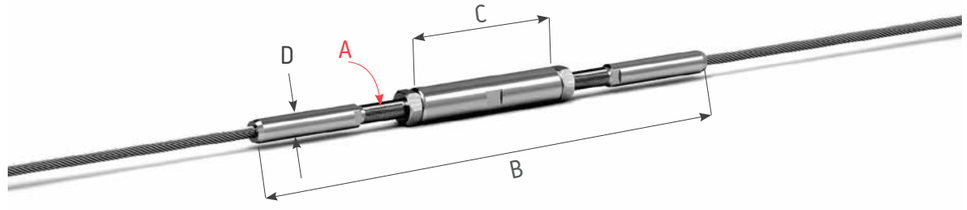
Both sides external thread swageless connection.



TURNBUCKLE THREADS, ROLL SWAGED

Part Number	Rope	Dimensions in mm					
	Ø mm	A	B	B_{max}	B_{min}	C	D
IR-180-004-00	4	M6	194	206,5	162	65	7,5
IR-180-006-00	6	M10	271	284	230	80	12,5
IR-180-008-00	8	M12	361	376	298	104	16
IR-180-010-00	10	M14	456	476	378	136	17,8
IR-180-012-00	12	M16	548	568	444	158	21,4
IR-180-014-00	14	M20	686	716	560	190	25
IR-180-016-00	16	M24	796	822	648	230	28
IR-180-018-00	18	M27	833	873	683	245	34,5
IR-180-020-00	20	M30	983	1023	806	271	40
IR-180-022-00	22	M30	1011	1051	822	271	40
IR-180-024-00	24	M36	1040	1090	866	290	46
IR-180-026-00	26	M36	1060	1110	886	290	46

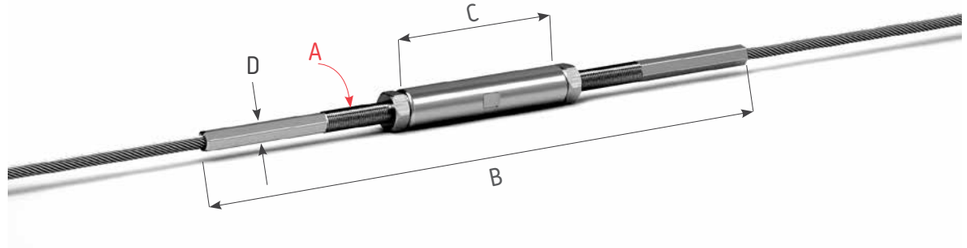
Material AISI 316 L



TURNBUCKLE THREADS, SWAGED

Part Number	Rope	Dimensions in mm					
	Ø mm	A	B	B_{max}	B_{min}	C	D
IR-185-004-00	4	M6	227	233	200	65	7
IR-185-006-00	6	M10	300	310	255	80	10
IR-185-008-00	8	M12	376	390	314	104	13
IR-185-010-00	10	M16	490	506	414	158	18
IR-185-012-00	12	M20	580	600	485	190	20
IR-185-016-00	16	M24	793	811	655	230	27

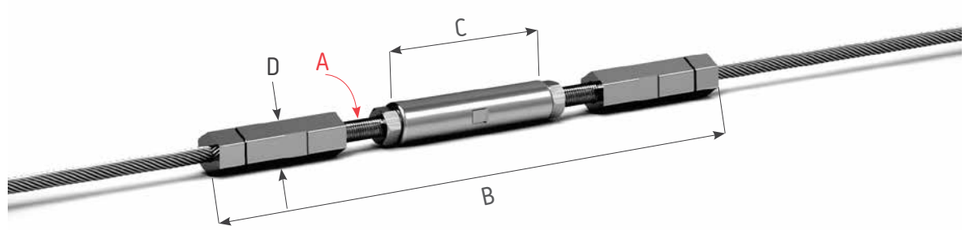
Material AISI 316 L



TURNBUCKLE THREADS, SWAGELESS

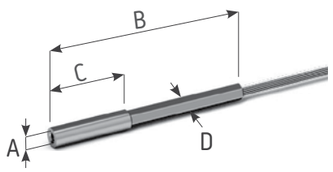
Part Number	Rope	Dimensions in mm					
	Ø mm	A	B	B_{max}	B_{min}	C	D
IR-190-004-00	4	M6	267	273	220	65	13
IR-190-006-00	6	M8	276	284	230	70	15
IR-190-008-00	8	M10	370	380	320	80	19
IR-190-010-00	10	M14	514	532	420	136	27

Material AISI 316 L



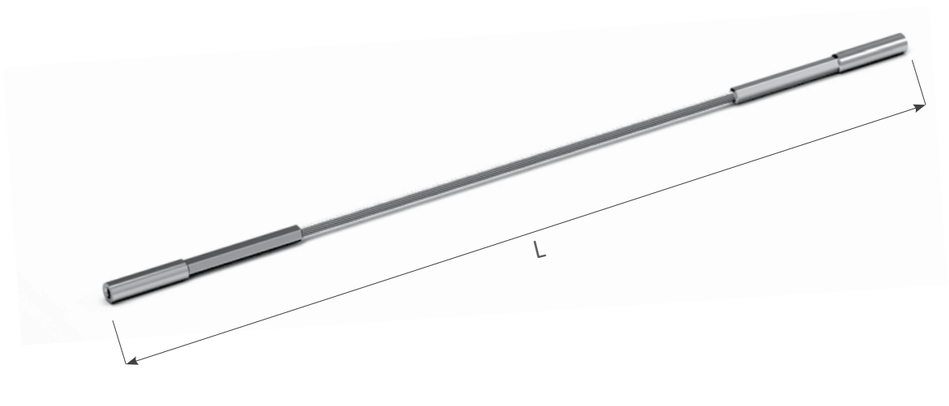
Internal Thread fittings

INTERNAL THREAD SWAGED FITTING

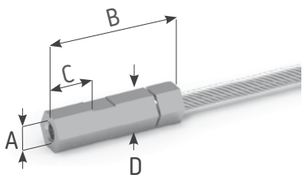


Part Number Right Threaded	Part Number Left Threaded	Set Number	Rope Ø mm	Dimensions in mm A	B	C	D
IR-201-004-00	IR-201-004-01	IRS-210-004-00	4	M6	80	30	7
IR-201-006-00	IR-201-006-01	IRS-210-006-00	6	M8	120	50	10
IR-201-008-00	IR-201-008-01	IRS-210-008-00	8	M10	180	60	13
IR-201-010-00	IR-201-010-01	IRS-210-010-00	10	M12	190	80	18
IR-201-012-00	IR-201-012-01	IRS-210-012-00	12	M16	220	100	25
IR-201-014-00	IR-201-014-01	IRS-210-014-00	14	M18	260	110	28
IR-201-016-00	IR-201-016-01	IRS-210-016-00	16	M20	280	120	30

Material AISI 316 L

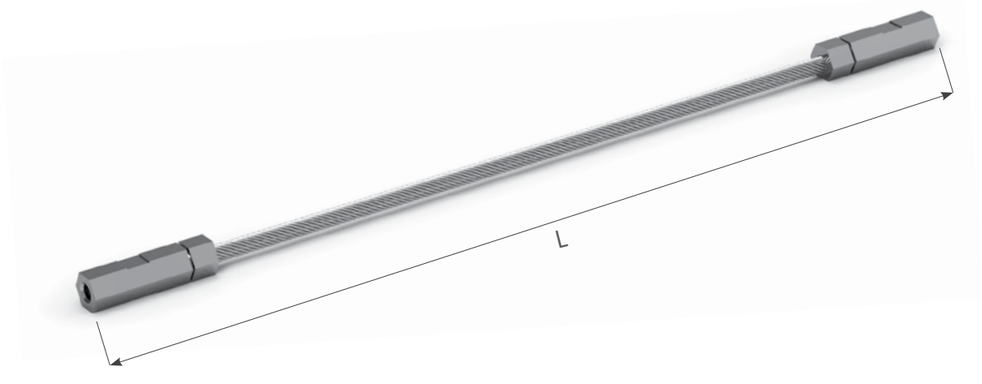


INTERNAL THREAD SWAGELESS CONNECTION



Part Number Right Threaded	Part Number Left Threaded	Set Number	Rope Ø mm	Dimensions in mm A	B	C	D
IR-202-004-00	IR-202-004-01	IRS-220-004-00	4	M6	50	18	13
IR-202-006-00	IR-202-006-01	IRS-220-006-00	6	M8	55	20	15
IR-202-008-00	IR-202-008-01	IRS-220-008-00	8	M10	90	30	19
IR-202-010-00	IR-202-010-01	IRS-220-010-00	10	M14	110	45	27

Material AISI 316 L

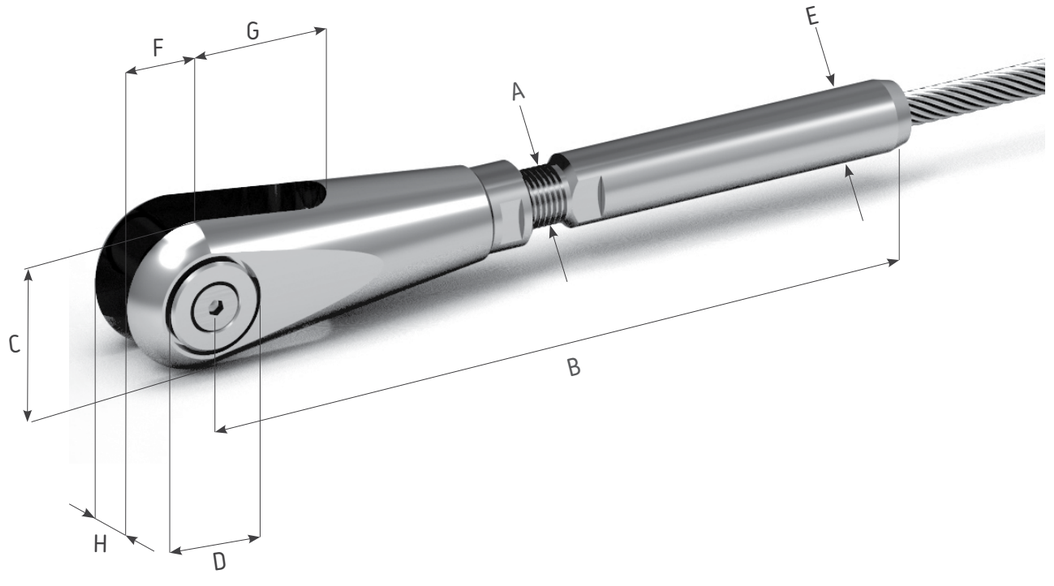


FORKS

FORK WITH SWAGED FITTING

Part Number Right threaded	Rope Ø mm	Dimensions in mm A	B	C	D	E	F	G	H
IR-315-004-00	4	M6	82,2	15,5	6	7,5	8	11,5	6,6
IR-315-006-00	6	M10	132	25,7	10	12,5	12,9	19,7	11
IR-315-008-00	8	M12	164	29,7	12	16	14,8	22	12
IR-315-010-00	10	M14	195	34,6	15	17,8	17,3	25,7	14
IR-315-012-00	12	M16	225	39,6	18	21,4	19,8	29,3	16
IR-315-014-00	14	M20	293	52,6	20	25	26,3	38,7	16
IR-315-016-00	16	M24	328	60,1	26	28	30	45	22
IR-315-018-00	18	M27	353	66,5	28	34,5	34,1	48,2	22
IR-315-020-00	20	M30	415	75,9	30	40	37,9	55	22
IR-315-022-00	22	M30	435	75,9	30	40	37,9	55	22
IR-315-024-00	24	M36	480	90,6	36	46	45,5	64,2	27
IR-315-026-00	26	M36	485	90,6	36	46	45,5	64,2	27

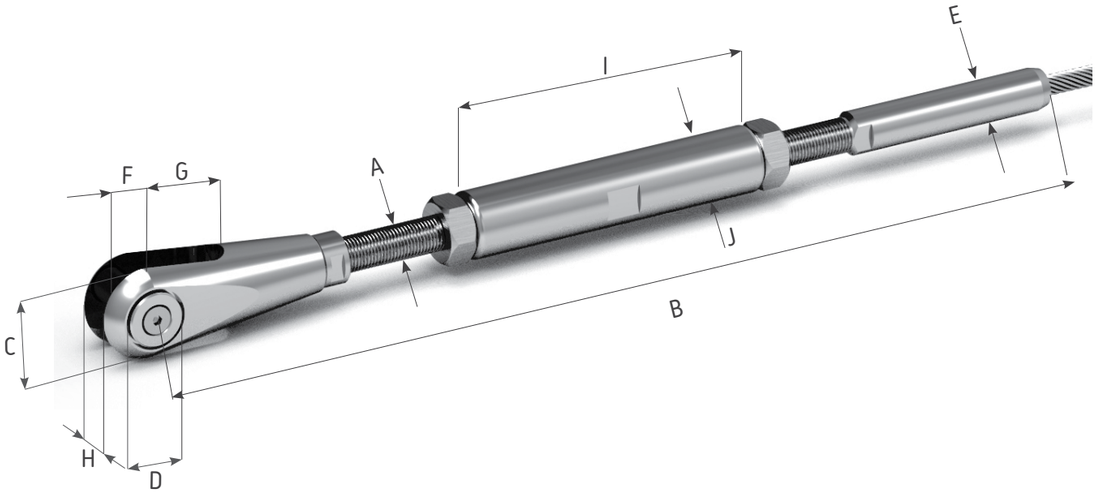
Material AISI 316 L



FORK WITH TURNBUCKLE AND SWAGED FITTING

Part Number	Rope	Dimensions in mm											
Right threaded	Ø mm	A	B	B_{max}	B_{min}	C	D	E	F	G	H	I	J
IR-325-004-00	4	M6	184.7	194,4	152,6	15.5	6	7.5	8	11.5	6.6	65	10
IR-325-006-00	6	M10	274	287	223	25.7	10	12.5	12.9	19.7	11	80	19
IR-325-008-00	8	M12	342	358	281	29.7	12	16	14.8	22	12	104	20
IR-325-010-00	10	M14	417	437	347	34.6	15	17.8	17.3	25.7	14	136	25
IR-325-012-00	12	M16	488	518	409	39.6	18	21.4	19.8	29.3	16	158	28
IR-325-014-00	14	M20	608	638	517	52.6	20	25	26.3	38.7	16	190	38
IR-325-016-00	16	M24	730	761	599	60.1	26	28	30	45	22	230	40
IR-325-018-00	18	M27	768	799	642	66.5	28	34.5	34.1	48.2	22	245	45
IR-325-020-00	20	M30	870	910	733	75.9	30	40	37.9	55	22	271	50
IR-325-022-00	22	M30	885	925	739	75.9	30	40	37.9	55	22	271	50
IR-325-024-00	24	M36	965	1015	812	90.6	36	46	45.5	64.2	27	290	55
IR-325-026-00	26	M36	975	1025	822	90.6	36	46	45.5	64.2	27	290	55

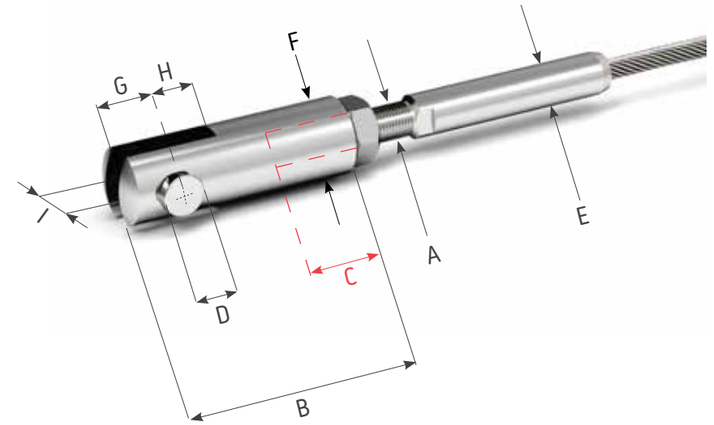
Material AISI 316 L

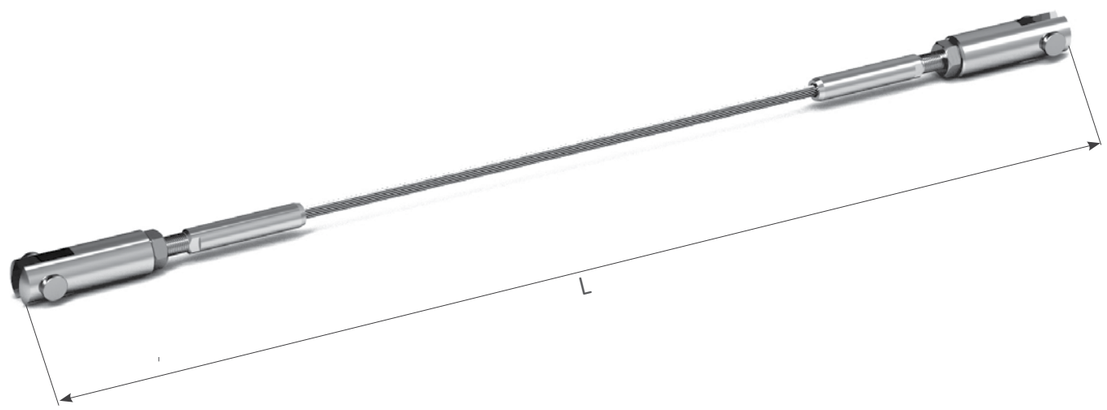


CYLINDRICAL FORK WITH SWAGED FITTING

Part Number	Part Number	Set Number	Rope	Dimensions in mm								
Right threaded	Left threaded		Ø mm	A	B	C	D	E	F	G	H	I
IR-335-006-00	IR-335-006-01	IRS-336-006-00	4	M6	45	20	6	7,5	14	8	9	6
IR-335-008-00	IR-335-008-01	IRS-336-008-00	6	M8	55	25	8	12,5	18	12	13	7
IR-335-010-00	IR-335-010-01	IRS-336-010-00	6	M10	70	30	10	12,5	22	15	15	8
IR-335-012-00	IR-335-012-01	IRS-336-012-00	8	M12	80	35	12	16	26	17	18	10
IR-335-014-00	IR-335-014-01	IRS-336-014-00	10	M14	90	35	14	17,8	30	19	20	11
IR-335-016-00	IR-335-016-01	IRS-336-016-00	12	M16	100	40	16	21,4	34	22	22	12
IR-335-020-00	IR-335-020-01	IRS-336-020-00	14	M20	120	40	20	25	42	27	27	15
IR-335-024-00	IR-335-024-01	IRS-336-024-00	16	M24	150	40	22	28	52	34	34	18

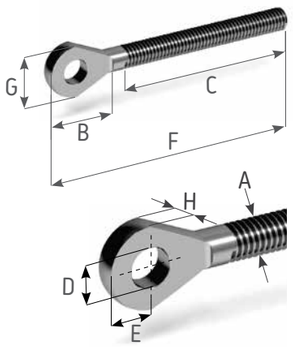
Material AISI 316 L





EYES

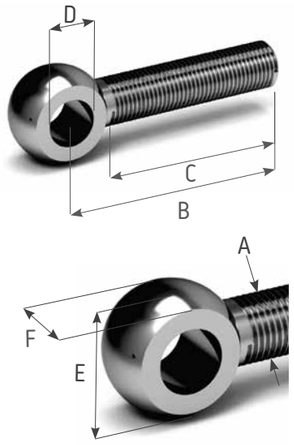
EYE WITH EXTERNAL THREAD



Part Number Right threaded	Part Number Left threaded	A	Dimensions in mm B	C	D	E	F	G	H
IR-404-005-00	IR-404-005-01	M5	14	51	5,5	6	63	12	3
IR-404-006-00	IR-404-006-01	M6	16	47	6,5	7	61	14	4
IR-404-008-00	IR-404-008-01	M8	21	57	8,5	8,5	78	17	5
IR-404-010-00	IR-404-010-01	M10	29	63	10,5	12	90	22	6
IR-404-012-00	IR-404-012-01	M12	31	80	13	14	110	25	8
IR-404-014-00	IR-404-014-01	M14	34	90	13	14	124	28	9
IR-404-016-00	IR-404-016-01	M16	37	100	14,5	15,5	133	31	10
IR-404-020-00	IR-404-020-01	M20	49	120	19,5	21	164	40	15

Material AISI 316 L

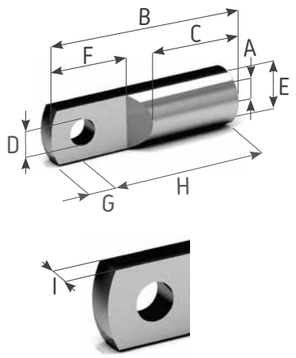
EYE BOLT



Part Number Right threaded	Part Number Left threaded	A	Dimensions in mm B	C	D	E	F
IR-405-006-00	IR-405-006-01	M6	40	30	6,1	14	7
IR-405-008-00	IR-405-008-01	M8	40	30	8,1	18	9
IR-405-010-00	IR-405-010-01	M10	50	40	10	20	12
IR-405-012-00	IR-405-012-01	M12	50	35	12,1	25	14
IR-405-016-00	IR-405-016-01	M16	60	40	16,1	32	17
IR-405-020-00	IR-405-020-01	M20	80	55	18,1	40	22

Material AISI 316 L

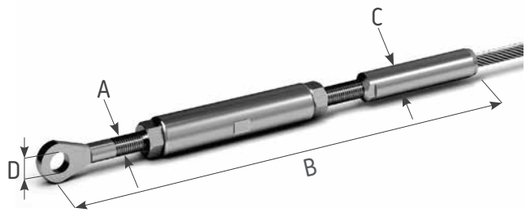
EYE INTERNAL THREAD



Part Number Right threaded	Part Number Left threaded	Rope Ømm	Dimensions in mm A	B	C	D	E	F	G	H	I
IR-406-006-00	IR-406-006-01	4	M6	47	18,5	6	14	17	8	39	5,8
IR-406-008-00	IR-406-008-01	6	M8	62	24,5	8	18	25	10,5	51,5	6,8
IR-406-010-00	IR-406-010-01	6	M10	75	30	10	22	30	13	62	7,8
IR-406-012-00	IR-406-012-01	8	M12	89	35	12	26	35	15	74	9,8
IR-406-014-00	IR-406-014-01	10	M14	100	40	14	30	37	17	83	10,8
IR-406-016-00	IR-406-016-01	12	M16	113	44	16	34	40	19	94	11,8
IR-406-020-00	IR-406-020-01	14	M20	140	55	20	42	40	24	116	14,8
IR-406-024-00	IR-406-024-01	16	M24	170	68	22	52	40	30	140	17,8

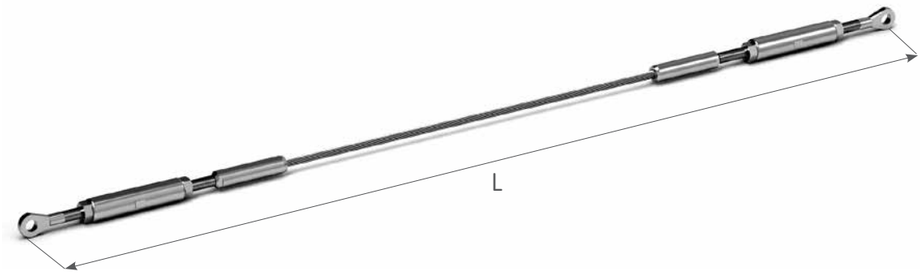
Material AISI 316 L

TURNBUCKLE WITH EXTERNAL THREAD EYE AND ROLL SWAGED FITTING

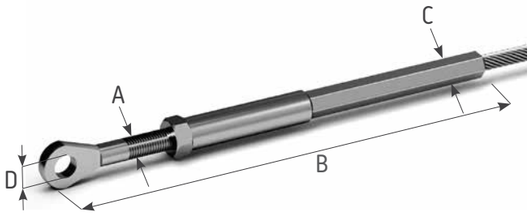


Part Number Right Threaded	Set Number	A	Dimensions in mm B	Bmax	Bmin	C	D
IR-414-006-00	IRS-410-006-00	M6	187	196	151	7.5	6.5
IR-414-008-00	IRS-410-008-00	M8	219	230,5	178	12.5	8.5
IR-414-010-00	IRS-410-010-00	M10	259	273	207	12.5	10.5
IR-414-012-00	IRS-410-012-00	M12	323	340,4	260	16	13
IR-414-016-00	IRS-410-016-00	M16	452	472	354	28	14.5
IR-414-020-00	IRS-410-020-00	M20	572	602	448	38	19.5

Material AISI 316 L

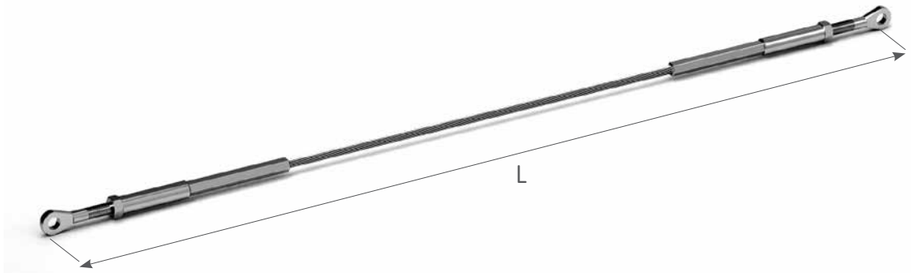


EYE WITH INTERNAL THREAD SWAGED

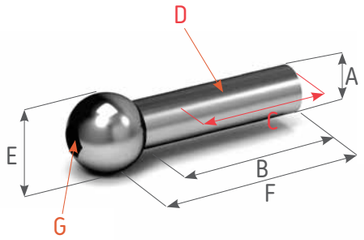


Part Number Right threaded	Set Number	A	Dimensions in mm B	Bmax	Bmin	C	D
IR-424-006-00	IRS-420-006-00	M6	129	133,5	111	7	6.5
IR-424-008-00	IRS-420-008-00	M8	191	195,5	157,5	10	8.5
IR-424-010-00	IRS-420-010-00	M10	255	262	220	13	10.5
IR-424-012-00	IRS-420-012-00	M12	292.5	301,2	245	18	13
IR-424-016-00	IRS-420-016-00	M16	343	353	281	28	14.5
IR-424-020-00	IRS-420-020-00	M20	424	439	355	30	19.5

Material AISI 316 L

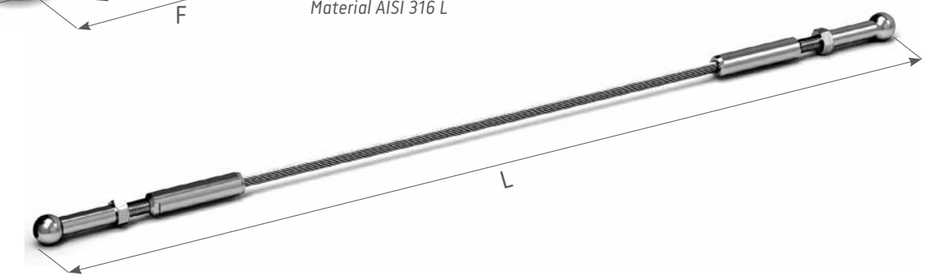


BALL HEAD WITH INTERNAL THREAD

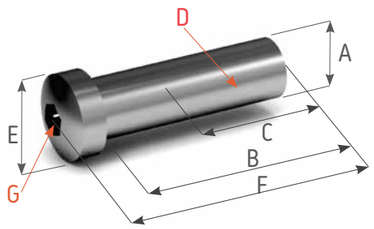


Part Number	Set Number	Rope	Dimensions in mm						
		Ø mm	A	B	C	D	E	F	G
IR-581-004-00	IRS-501-004	4	M6	30	20	8	14	35,7	4
IR-581-006-00	IRS-501-006	6	M8	36	25	10	16	42,24	5

Material AISI 316 L

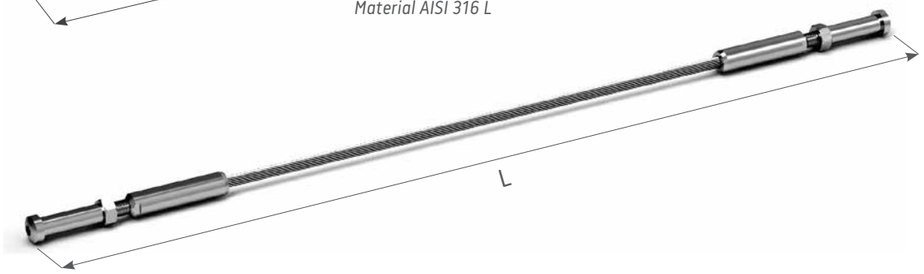


RADIUS HEAD END STOP WITH INTERNAL THREAD

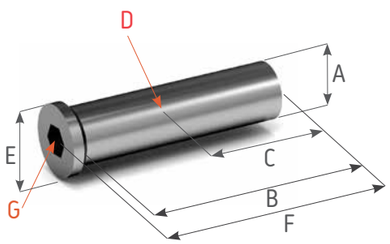


Part Number	Set Number	Rope	Dimensions in mm						
		Ø mm	A	B	C	D	E	F	G
IR-582-004-00	IRS-502-004	4	M6	30	20	8	14	35	4
IR-582-006-00	IRS-502-006	6	M8	34	25	10	14	40	5

Material AISI 316 L

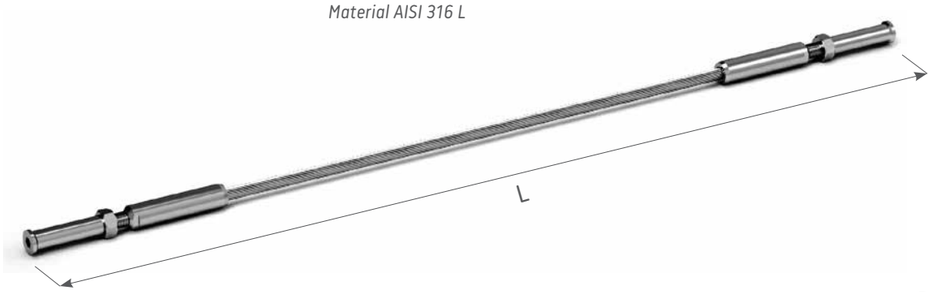


COUNTERSUNK END STOP WITH INTERNAL THREAD

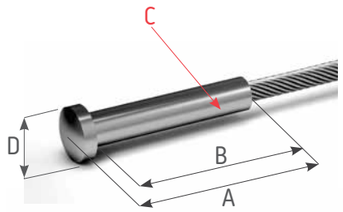


Part Number	Set Number	Rope	Dimensions in mm						
		Ø mm	A	B	C	D	E	F	G
IR-583-004-00	IRS-503-004	4	M6	30	20	8	12,4	34	4
IR-583-006-00	IRS-503-006	6	M8	36	25	10	12,4	40	5

Material AISI 316 L

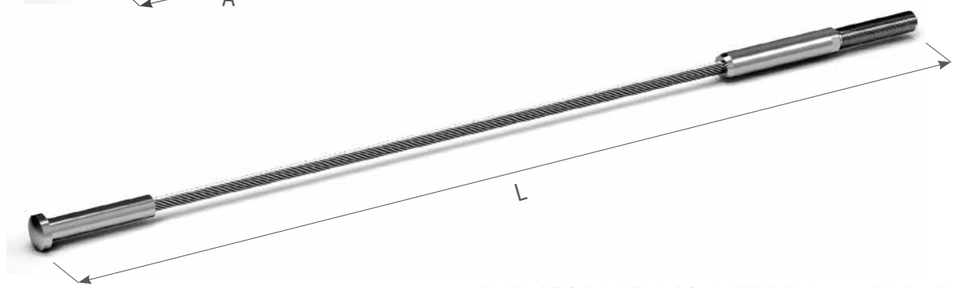


END STOP WITH RADIUS HEAD, SWAGED

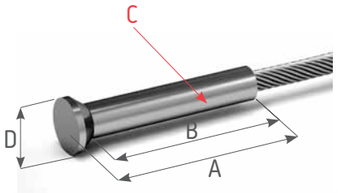


Part Number	Set Number	Rope	Dimensions in mm			
		Ø mm	A	B	C	D
IR-584-004-00	IRS-504-004	4	40	36	7	12
IR-584-006-00	IRS-504-006	6	58	52	10	16

Material AISI 316 L

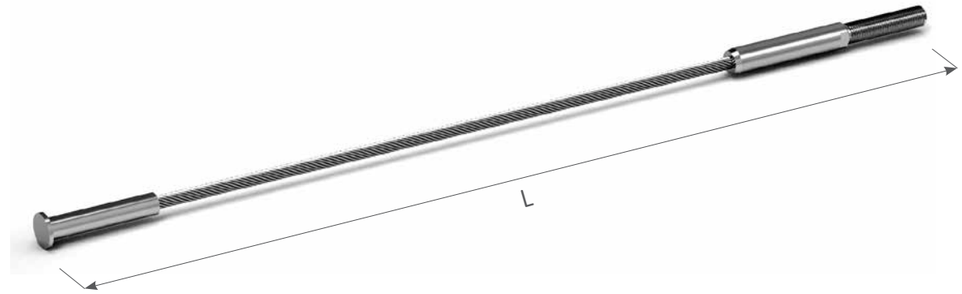


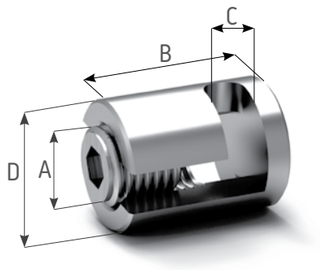
END STOP WITH COUNTERSUNK HEAD, SWAGED



Part Number	Set Number	Rope	Dimensions in mm			
		Ø mm	A	B	C	D
IR-585-004-00	IRS-505-004	4	40	36	7	12
IR-585-006-00	IRS-505-006	6	55	52	10	16

Material AISI 316 L

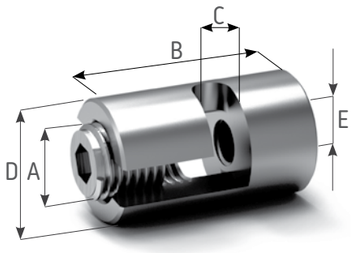




CROSS CLAMP ADJUSTABLE

Part Number	Rope Ø mm	Dimensions in mm			
		A	B	C	D
IG-808-004-00	4	M12	22	4,5	20
IG-808-006-00	6	M12	26	6,5	20
IG-808-008-00	8	M12	32	8,5	20

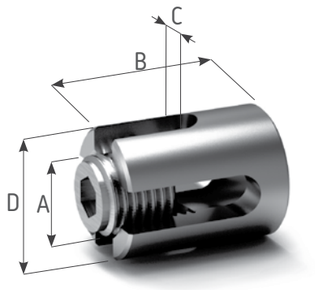
Material AISI 316 L



CROSS CLAMP WITH INTERNAL THREAD ADJUSTABLE

Part Number	Rope Ø mm	Dimensions in mm				
		A	B	C	D	E
IG-809-004-00	4	M12	30	4,5	20	M8
IG-809-006-00	6	M12	34	6,5	20	M8
IG-809-008-00	8	M12	40	8,5	20	M8

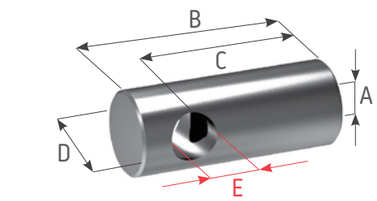
Material AISI 316 L



CROSS CLAMP 90°

Part Number	Rope Ø mm	Dimensions in mm			
		A	B	C	D
IG-810-004-00	4	M12	22	4,5	20
IG-810-006-00	6	M12	26	6,5	20
IG-810-008-00	8	M16	27	8,5	30

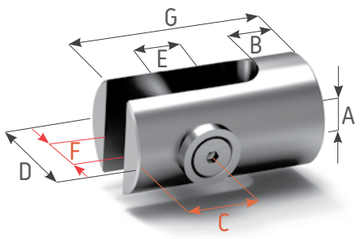
Material AISI 316 L



ROPE HOLDER

Part Number	Rope Ø mm	Dimensions in mm				
		A	B	C	D	E
IR-544-008-00	6-8	M8	40	30	16	9
IR-544-010-00	10-12	M10	43	30	22	13
IR-544-012-00	14-16	M12	45	30	30	17

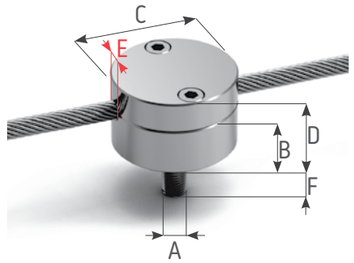
Material AISI 316 L



FORK HEAD ROPE GUIDING

Part Number	Rope Ø mm	Dimensions in mm						
		A	B	C	D	E	F	G
IR-543-010-00	8-10	M10	13	18	28	11	12	50
IR-543-012-00	12	M12	13	18	28	11	13,5	50

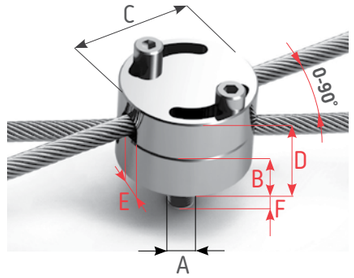
Material AISI 316 L



SCREW ON CROSS CLAMP

Part Number	Rope Ø mm	Dimensions in mm					
		A	B	C	D	E	F
IR-531-006-00	6	M8	15	40	25	6	20
IR-531-008-00	8	M8	15	40	25	8	20
IR-531-010-00	10	M8	15	40	25	10	20
IR-531-012-00	12	M8	15	40	25	12	20
IR-531-016-00	16	M10	19,5	50	32	16	16

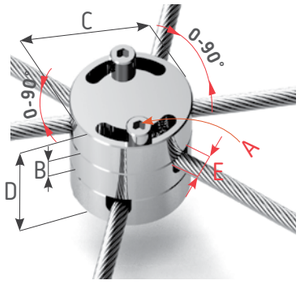
Material AISI 316



ADJUSTABLE SCREW ON CROSS CLAMP

Part Number	Rope Ø mm	Dimensions in mm					
		A	B	C	D	E	F
IR-532-008-00	8	M8	13	40	27	8,5	20
IR-532-010-00	10	M8	13	40	27	10,5	20

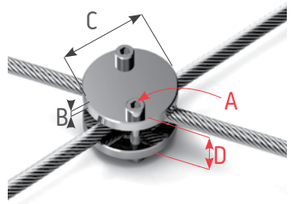
Material AISI 316



ADJUSTABLE TRIPLE CROSS CLAMP

Part Number	Rope Ø mm	Dimensions in mm				
		A	B	C	D	E
IR-533-008-00	8	M6	13	40	41	8,5
IR-533-010-00	10	M6	13	40	41	10,5

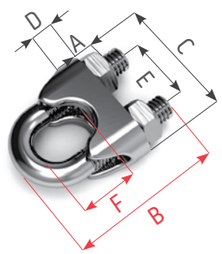
Material AISI 316



CROSS CLAMP

Part Number	Rope Ø mm	Dimensions in mm			
		A	B	C	D
IR-530-004-06	4-6	M4	5	35	18/22
IR-530-008-12	8-12	M6	8	45	32/40

Material AISI 316

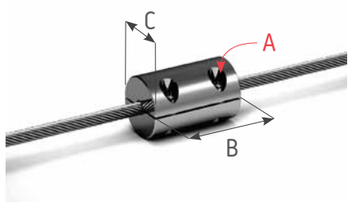


WIRE ROPE GRIP

Part Number	Rope Ø mm	Dimensions in mm					
		A	B	C	D	E	F min.max
IR-526-004-00	4	M4	24	19	17	10	5-12
IR-526-006-00	6	M6	33	28	20	14	4-15
IR-526-008-00	8	M8	40	34	27	19	5-16
IR-526-010-00	10	M10	50	45	29	21	8-23
IR-526-012-00	12	M12	60	51	32	26	8-29

Material AISI 316

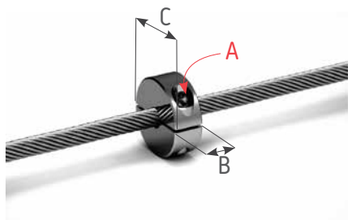
CLAMP RING WITH TWO PART



Part Number	Rope	Dimensions in mm		
	Ø mm	A	B	C
IR-542-004-00	4	M4	30	22
IR-542-006-00	6	M5	45	28
IR-542-008-00	8	M5	45	28

Material AISI 316 L

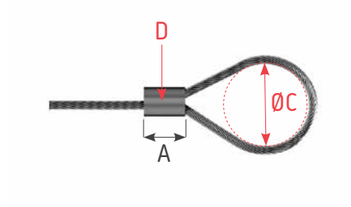
CLAMP RING



Part Number	Rope	Dimensions in mm		
	Ø mm	A	B	C
IR-541-004-00	4	M3	10	16
IR-541-006-00	6	M4	10	25
IR-541-008-00	8	M4	10	25

Material AISI 316 L

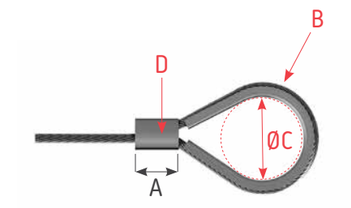
LOOP SWAGED WITHOUT TIMBLE



Part Number	Rope	Dimensions in mm		
	Ø mm	A	ØC	D
IR-522-002-00	2	10	-	4
IR-522-003-00	3	13	-	6
IR-522-004-00	4	16	-	8
IR-522-006-00	6	28	-	13
IR-522-008-00	8	40	-	16
IR-522-010-00	10	50	-	20
IR-522-012-00	12	60	-	24

Material AISI 316
Dimension ØC is variable

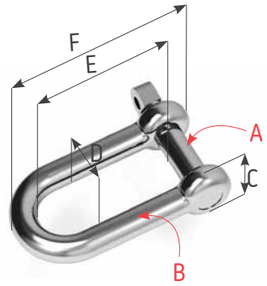
LOOP SWAGED WITH TIMBLE



Part Number	Rope	Dimensions in mm			
	Ø mm	A	B	ØC	D
IR-524-002-00	2	10	4	6,5	7
IR-524-003-00	3	13	5,5	9,5	9
IR-524-004-00	4	16	6,5	10,5	13
IR-524-006-00	6	28	9	15,5	13
IR-524-008-00	8	40	12	17,5	16
IR-524-010-00	10	50	14	23,5	20
IR-524-012-00	12	60	20	25,5	24

Material AISI 316

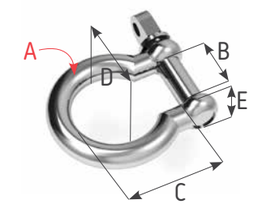
SHACKLE D-FORM



Part Number	Dimensions in mm						
	A	B	C	D	E	F
IR-557-006-00	6	6	12	12	24	38
IR-557-008-00	8	8	16	16	32	52
IR-557-010-00	10	10	20	20	40	66
IR-557-012-00	12	12	25	25	48	76
IR-557-016-00	16	16	32	32	64	101
IR-557-020-00	20	20	36	38	76	120

Material AISI 316

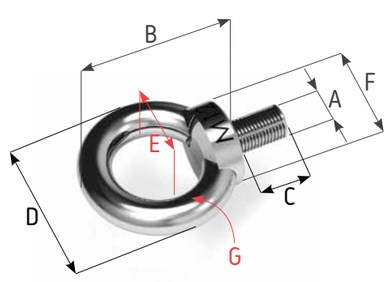
SHACKLE OMEGA



Part Number	Dimensions in mm				
	A	B	C	D	E
IR-559-006-00	6	12	24	18	12
IR-559-008-00	8	16	32	24	16
IR-559-010-00	10	20	40	30	20
IR-559-012-00	12	25	45	36	24

Material AISI 316

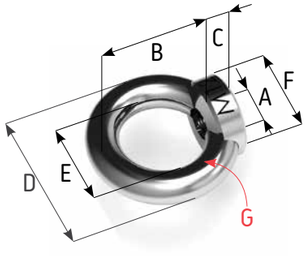
EYE BOLT



Part Number	Dimensions in mm						
	A	B	C	D	E	F	G
IR-551-008-00	M8	36	13	36	20	20	8
IR-551-010-00	M10	45	17	45	25	25	10
IR-551-012-00	M12	53	21	54	30	30	12
IR-551-016-00	M16	62	27	63	35	35	14
IR-551-020-00	M20	71	30	72	40	40	16

Material AISI 316

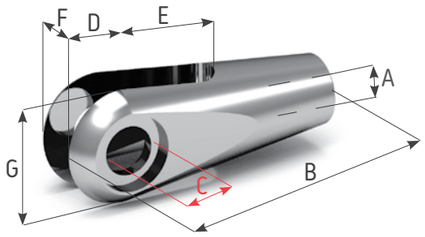
EYE NUT



Part Number	Dimensions in mm						
	A	B	C	D	E	F	G
IR-553-008-00	M8	36	8	36	20	20	8
IR-553-010-00	M10	45	10	45	25	25	10
IR-553-012-00	M12	53	11	54	30	30	12
IR-553-016-00	M16	62	13	63	35	35	14
IR-553-020-00	M20	71	15	72	40	40	16

Material AISI 316

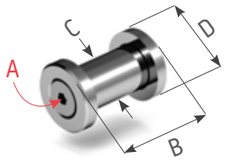
FORK WITH INTERNAL THREAD



Part Number	Rope	Dimensions in mm						
Right threaded	Ø mm	A	B	C	D	E	F	G
IR-305-004-00	4	M6	39	6,5	8	11,5	6,6	15,5
IR-305-006-00	6	M10	65	11	12,9	19,7	11	25,7
IR-305-008-00	8	M12	75	13	14,8	22	12	29,7
IR-305-010-00	10	M14	87,5	16	17,3	25,7	14	34,6
IR-305-012-00	12	M16	100	19	19,8	29,3	16	39,6
IR-305-014-00	14	M20	132	21	26,3	38,7	16	52,6
IR-305-016-00	16	M24	150	27	30	45	22	60,1
IR-305-018-00	18	M27	170	29	34,1	48,2	22	66,5
IR-305-020-00	20	M30	188	31	37,9	55	22	75,9
IR-305-022-00	22	M30	188	31	37,9	55	22	75,9
IR-305-024-00	24	M36	225	37	45,4	64,2	27	90,6
IR-305-026-00	26	M36	225	37	45,5	64,2	27	90,6

Material AISI 316 L

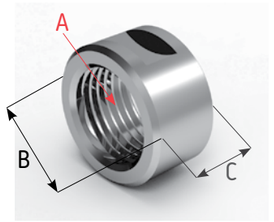
PIM/PIM COVER



Part Number	Rope	Dimensions in mm			
Right threaded	Ø mm	A	B	C	D
IR-303-004-00	4	M3	14	6	9.5
IR-303-006-00	6	M4	22	10	15.5
IR-303-008-00	8	M4	26	12	18.5
IR-303-010-00	10	M4	29	15	22
IR-303-012-00	12	M5	34	18	25
IR-303-014-00	14	M5	42	20	38
IR-303-016-00	16	M6	52	26	38
IR-303-018-00	18	M6	54	28	45
IR-303-020-00	20	M6	60	30	52
IR-303-022-00	22	M6	60	30	52
IR-303-024-00	24	M8	76	36	65
IR-303-026-00	26	M8	76	36	65

Material AISI 316 L

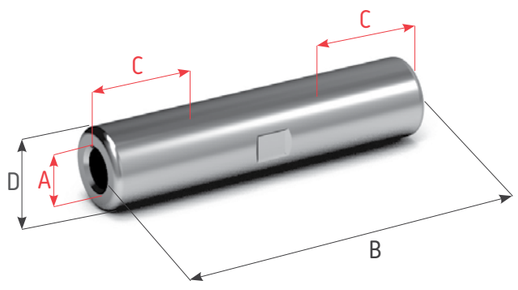
FORK NUT



Part Number	Part Number	Rope	Dimensions in mm		
Right threaded	Left threaded	Ø mm	A	B	C
IR-302-006-00	IR-302-006-01	4	M6	9	6
IR-302-010-00	IR-302-010-01	6	M10	14,5	8
IR-302-012-00	IR-302-012-01	8	M12	17,5	10
IR-302-014-00	IR-302-014-01	10	M14	20,5	10
IR-302-016-00	IR-302-016-01	12	M16	23,5	12
IR-302-020-00	IR-302-020-01	14	M20	28	15
IR-302-024-00	IR-302-024-01	16	M24	35	16
IR-302-027-00	IR-302-027-01	18	M27	36	20
IR-302-030-00	IR-302-030-01	20	M30	40	20
IR-302-030-00	IR-302-030-01	22	M30	40	20
IR-302-036-00	IR-302-036-01	24	M36	50	25
IR-302-036-00	IR-302-036-01	26	M36	50	25

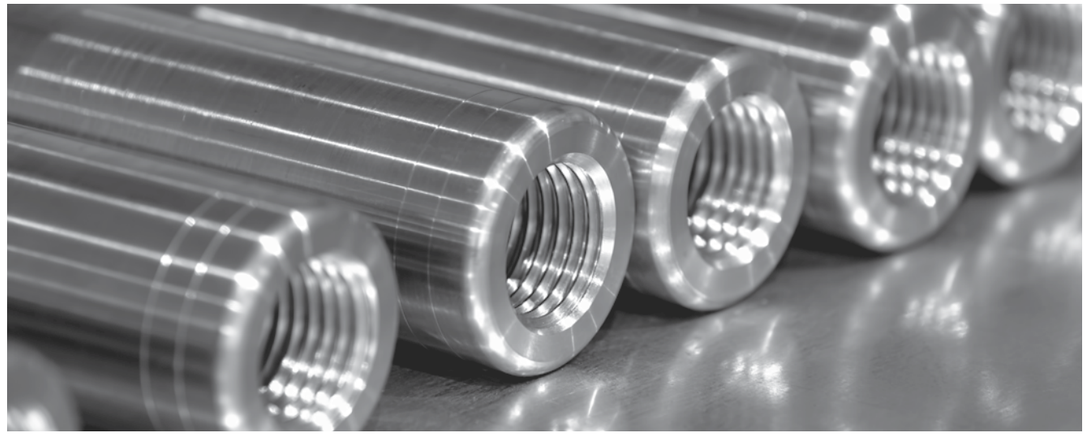
Material AISI 316 L

TURNBUCKLE



Part Number	Rope	Dimensions in mm			
	Ø mm	A	B	C	D
IR-565-006-00	4	M6	65	12	10
IR-565-008-00	6	M8	70	12	16
IR-565-010-00	6	M10	80	13	19
IR-565-012-00	8	M12	104	15	20
IR-565-014-00	10	M14	136	20	25
IR-565-016-00	12	M16	158	25	28

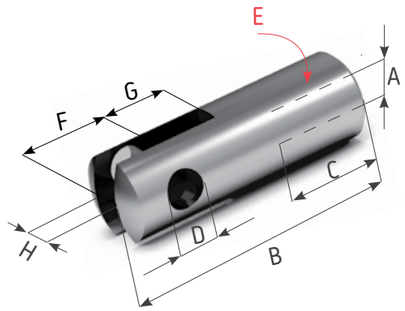
Material AISI 316 L



CYLINDRICAL FORK WITH INTERNAL THREAD

Part Number Right threaded	Part Number Left threaded	Rope Ø mm	Dimensions in mm A	B	C	D	E	F	G	H
IR-335-004-00	IR-336-004-00	4	M6	45	20	6	14	8	9	6
IR-335-006-00	IR-336-006-00	6	M8	55	25	8	18	12	13	7
IR-335-006-01	IR-336-006-01	6	M10	70	30	10	22	15	15	8
IR-335-008-00	IR-336-008-00	8	M12	80	35	12	26	17	18	10
IR-335-010-00	IR-336-010-00	10	M14	90	35	14	30	19	20	11
IR-335-012-00	IR-336-012-00	12	M16	100	40	16	34	22	22	12
IR-335-014-00	IR-336-014-00	14	M20	120	40	20	42	27	27	15
IR-335-016-00	IR-336-016-00	16	M24	150	40	22	52	34	34	18

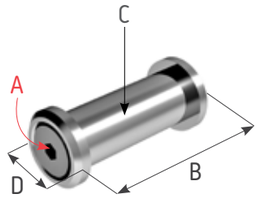
Material AISI 316 L

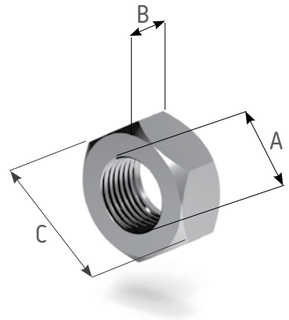


PIM/PIM COVER

Part Number Right threaded	Rope Ø mm	Dimensions in mm A	B	C	D
IR-306-004-00	4	M3	17.5	5.5	9
IR-306-006-00	6	M3	22.1	7.2	12
IR-306-008-00	8	M4	31	11.5	18
IR-306-010-00	10	M5	36.5	13.5	20
IR-306-012-00	12	M5	42.5	15.5	22
IR-306-014-00	14	M6	47.5	19	26
IR-306-016-00	16	M6	58	21	28

Material AISI 316 L





HEXAGON NUT

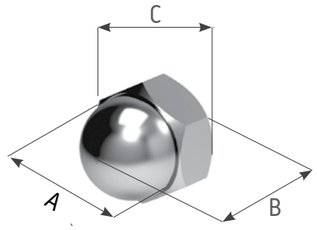
Part Number Right threaded	Part Number Left threaded	Thread A	Dimensions in mm B	C
944-006-00	944-006-01	M6	5	10
944-008-00	944-008-02	M8	6,5	13
944-010-00	944-010-01	M10	8	17
944-012-00	944-012-01	M12	10	19
944-014-00	944-014-01	M14	11	22
944-016-00	944-016-01	M16	13	24
944-020-00	944-020-01	M20	16	30
944-024-00	944-024-01	M24	19	36
944-027-00	944-027-01	M27	24	41
944-030-00	944-030-01	M30	24	46
944-036-00	944-036-01	M36	31	55
944-042-00	944-042-01	M42	34	65
944-048-00	944-048-01	M48	38	75
944-052-00	944-052-01	M52	42	80
944-056-00	944-056-01	M56	45	85

Material AISI 316

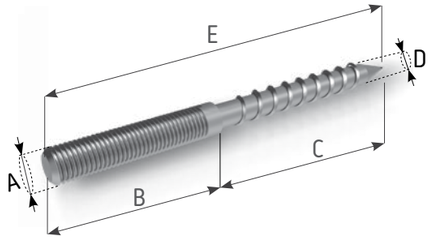
DOME NUT

Part Number Right threaded	Thread A	Dimensions in mm B	C
946-006-00	M6	12	10
946-008-00	M8	15	13
946-010-00	M10	18	17
946-012-00	M12	22	19
946-014-00	M14	25	22
946-016-00	M16	28	24
946-020-00	M20	34	30
946-024-00	M24	42	36

Material AISI 316



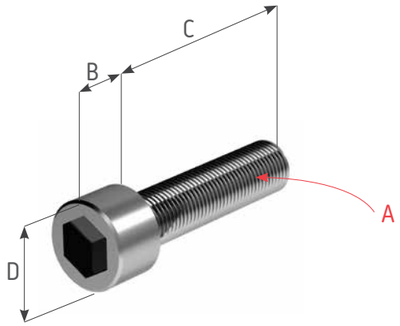
DUAL THREAD SCREW



Part Number Right threaded	Part Number Left threaded	Thread A	Dimensions in mm B	C	D	E
917-005-00	918-005-00	M5	20	30	4,3	50
917-006-00	918-006-00	M6	30	40	5,2	70
917-008-00	918-008-00	M8	40	60	6,9	100
917-010-00	-	M10	30	40	8,9	70
917-014-00	-	M12	30	80	12	110

Material AISI 316

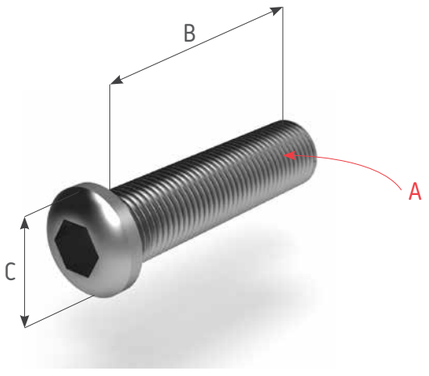
SOCKET HEAD SCREW



Part Number	Thread	Dimensions in mm		
	A	B	C	D
930-004-00	M4	4	25	7
930-005-00	M5	5	25	8,5
930-006-00	M6	6	30	10
930-008-00	M8	8	35	13
930-010-00	M10	10	40	16
930-012-00	M12	12	50	18
930-016-00	M16	16	60	24
930-020-00	M20	20	70	30

Material AISI 316

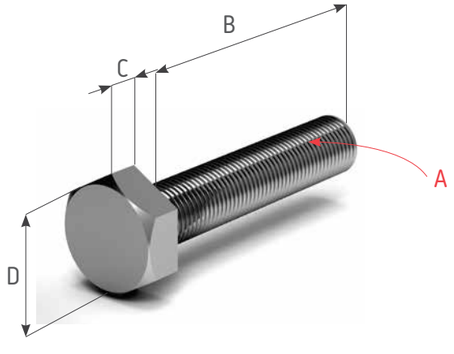
PAN HEAD SCREW



Part Number	Thread	Dimensions in mm	
	A	B	C
932-004-20	M4	20	7.5
932-004-25	M4	25	7.5
932-005-25	M5	25	9.5
932-005-25	M5	30	9.5
932-006-25	M6	25	10.5
932-006-30	M6	30	10.5
932-008-30	M8	30	14
932-008-40	M8	40	14
932-010-30	M10	30	17.5
932-010-40	M10	40	17.5
932-012-30	M12	30	21
932-012-50	M12	50	21

Material AISI 316

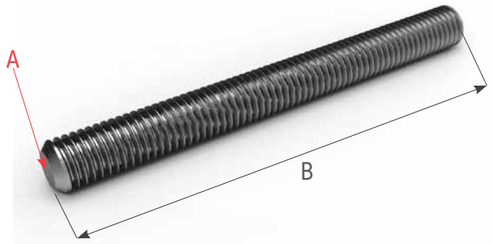
HEXAGON HEAD SCREW



Part Number	Thread	Dimensions in mm		
	A	B	C	D
934-004-00	M4	25	2,8	7
934-005-00	M5	30	3,5	8
934-006-00	M6	30	4	10
934-008-00	M8	40	5,3	13
934-010-00	M10	50	6,4	17
934-012-00	M12	70	7,5	19
934-014-00	M14	70	8,8	22
934-016-00	M16	90	10	24
934-020-00	M20	100	12,5	30

Material AISI 316

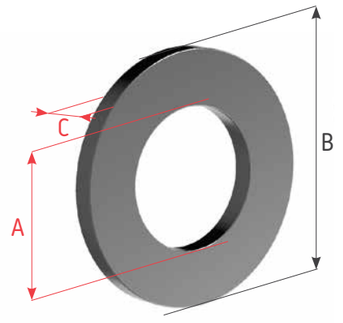
THREADED ROD



Part Number Right threaded	Part Number Left threaded	Thread	Dimensions in mm
		A	B
919-004-01	920-004-01	M4	100
919-004-10	920-004-10	M4	1000
919-006-01	920-006-01	M6	100
919-006-10	920-006-10	M6	1000
919-008-01	920-008-01	M8	100
919-008-10	920-008-10	M8	1000
919-010-01	920-010-01	M10	100
919-010-10	920-010-10	M10	1000
919-012-01	920-012-01	M12	100
919-012-10	920-012-10	M12	1000
919-014-01	920-014-01	M14	100
919-014-10	920-014-10	M14	1000
919-016-01	920-016-01	M16	100
919-016-10	920-016-10	M16	1000

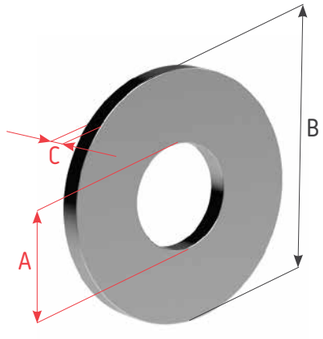
Material AISI 316

WASHER



Part Number	Thread	Dimensions in mm	
	A	B	C
937-004-00	M4	9	0,5
937-006-00	M6	11	1
937-008-00	M8	15	1,6
937-010-00	M10	18	1,6
937-012-00	M12	20	1,6
937-014-00	M14	25	2
937-016-00	M16	28	2,5
937-020-00	M20	34	2,5
937-022-00	M22	39	3
937-024-00	M24	39	3
937-030-00	M30	56	4

Material AISI 316



WASHER FOR WOOD

Part Number	Thread	Dimensions in mm	
	A	B	C
939-004-00	M4	12	1
939-006-00	M6	15	1.2
939-008-00	M8	18	1.6
939-010-00	M10	24	2
939-012-00	M12	30	2.5
939-014-00	M14	37	3
939-016-00	M16	50	3

Material AISI 316

Both side turnbuckle with fork and swaged fitting

IRS 330-004-040

One side turnbuckle with fork and swaged fitting, other side fork with swaged fitting

IRS 340-004-040

Both side fork with swaged fitting

IRS 350-004-040

One side fork with swaged fitting other side swaged fitting

IRS 360-004-040

Both side with swaged fitting

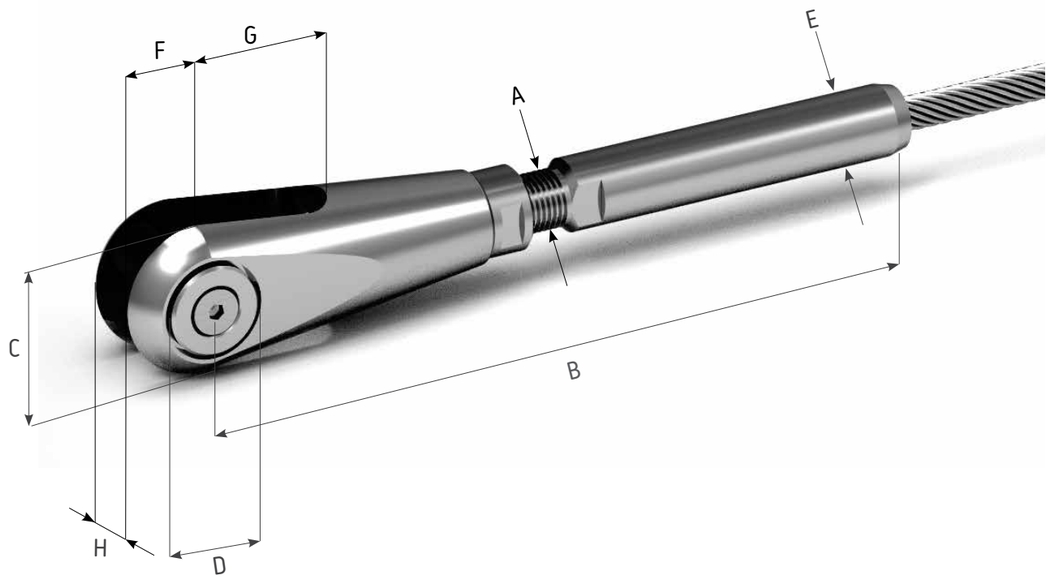
IRS 120-004-040

I-ROPE TENSION SYSTEMS

FORK WITH SWAGED FITTING

Part Number	Rope	Dimensions in mm							
Right threaded	Ø mm	A	B	C	D	E	F	G	H
IR-315-004-00	4	M6	82.2	15.5	6	7.5	8	11.5	6.6
IR-315-006-00	6	M10	132	25.7	10	12.5	12.9	19.7	11
IR-315-008-00	8	M12	164	29.7	12	16	14.8	22	12
IR-315-010-00	10	M14	195	34.6	15	17.8	17.3	25.7	14
IR-315-012-00	12	M16	225	39.6	18	21.4	19.8	29.3	16
IR-315-014-00	14	M20	293	52.6	20	25	26.3	38.7	16
IR-315-016-00	16	M24	328	60.1	26	28	30	45	22
IR-315-018-00	18	M27	353	66.5	28	34.5	34.1	48.2	22
IR-315-020-00	20	M30	415	75.9	30	40	37.9	55	22
IR-315-022-00	22	M30	435	75.9	30	40	37.9	55	22
IR-315-024-00	24	M36	480	90.6	36	46	45.5	64.2	27
IR-315-026-00	26	M36	485	90.6	36	46	45.5	64.2	27
IR-315-028-00	28	M42	533	104.3	40	50	52.1	74.9	35
IR-315-030-00	30	M48	561	107.1	50	58	53.6	78.4	42
IR-315-032-00	32	M48	571	107.1	50	58	53.6	78.4	42
IR-315-034-00	34	M52	595	115	50	65	57.6	84.7	47
IR-315-036-00	36	M52	610	115	50	65	57.6	84.7	47
IR-315-038-00	38	M56	645	129.6	58	72	64.5	93.5	52
IR-315-040-00	40	M56	655	129.6	58	72	64.5	93.5	52

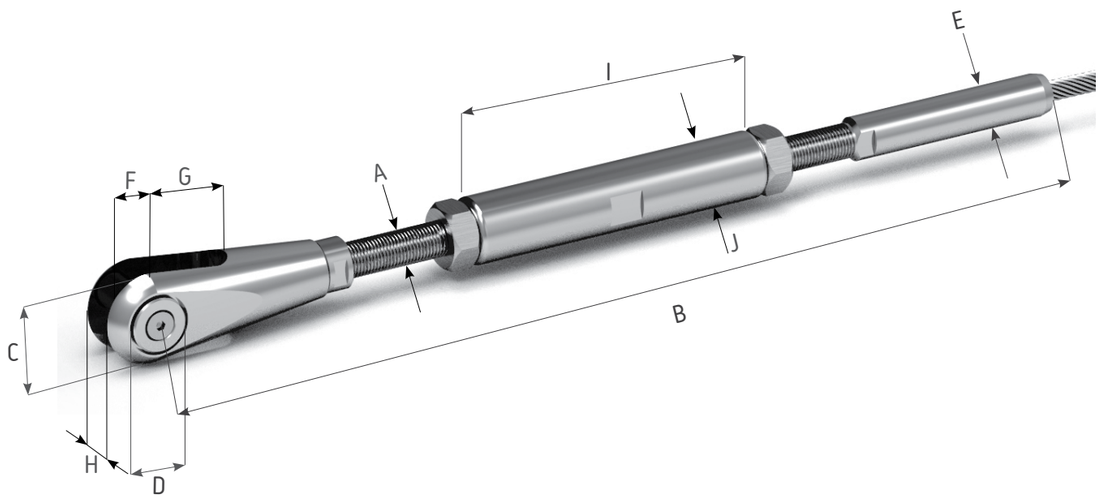
Material AISI 316 / 1.4462 Duplex



FORK WITH TURNBUCKLE AND SWAGED FITTING

Part Number	Rope	Dimensions in mm											
Right threaded	Ø mm	A	B	B_{max}	B_{min}	C	D	E	F	G	H	I	J
IR-325-004-00	4	M6	184.7	194,6	152,6	15.5	6	7.5	8	11.5	6.6	65	10
IR-325-006-00	6	M10	274	287	223	25.7	10	12.5	12.9	19.7	11	80	19
IR-325-008-00	8	M12	342	358	281	29.7	12	16	14.8	22	12	104	20
IR-325-010-00	10	M14	417	437	347	34.6	15	17.8	17.3	25.7	14	136	25
IR-325-012-00	12	M16	488	518	409	39.6	18	21.4	19.8	29.3	16	158	28
IR-325-014-00	14	M20	608	638	517	52.6	20	25	26.3	38.7	16	190	38
IR-325-016-00	16	M24	730	761	599	60.1	26	28	30	45	22	230	40
IR-325-018-00	18	M27	768	799	642	66.5	28	34.5	34.1	48.2	22	245	45
IR-325-020-00	20	M30	870	910	733	75.9	30	40	37.9	55	22	271	50
IR-325-022-00	22	M30	885	925	739	75.9	30	40	37.9	55	22	271	50
IR-325-024-00	24	M36	965	1015	812	90.6	36	46	45.5	64.2	27	290	55
IR-325-026-00	26	M36	975	1025	822	90.6	36	46	45.5	64.2	27	290	55
IR-325-028-00	28	M42	1117	1167	934	104.3	40	50	52.1	74.9	35	340	65
IR-325-030-00	30	M48	1231	1291	1018	107.1	50	58	53.6	78.4	42	400	70
IR-325-032-00	32	M48	1241	1301	1028	107.1	50	58	53.6	78.4	42	400	70
IR-325-034-00	34	M52	1304	1369	1084	115	50	65	57.6	84.7	47	425	75
IR-325-036-00	36	M52	1330	1395	1094	115	50	65	57.6	84.7	47	425	75
IR-325-038-00	38	M56	1375	1455	1150	129.6	58	72	64.5	93.5	52	430	85
IR-325-040-00	40	M56	1415	1495	1160	129.6	58	72	64.5	93.5	52	430	85

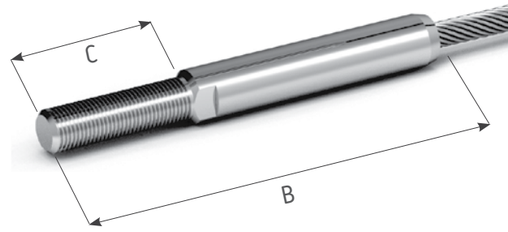
Material AISI 316 / 1.4462 Duplex

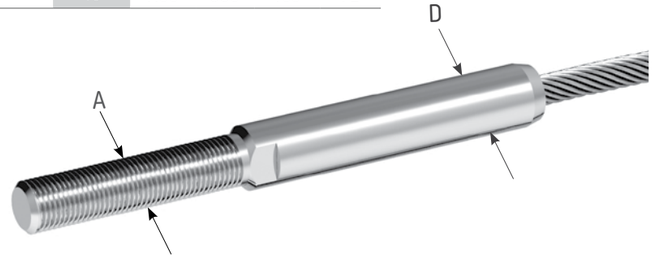


EXTERNAL THREAD ROLL SWAGED FITTING

Part Number	Part Number	Rope	Dimensions in mm			
Right threaded	Left threaded	Ø mm	A	B	C	D
IR-150-004-00	IR-150-004-01	4	M6	75	35	7.5
IR-155-004-00		4	M6	63	20	7.5
IR-150-006-00	IR-150-006-01	6	M10	109	45	12.5
IR-155-006-00		6	M10	99	35	12.5
IR-150-008-00	IR-150-008-01	8	M12	144	60	16
IR-155-008-00		8	M12	129	45	16
IR-150-010-00	IR-150-010-01	10	M14	180	76	17.8
IR-155-010-00		10	M14	155	51	17.8
IR-150-012-00	IR-150-012-01	12	M16	215	90	21.4
IR-155-012-00		12	M16	180	55	21.4
IR-150-014-00	IR-150-014-01	14	M20	278	115	25
IR-155-014-00		14	M20	228	65	25
IR-150-016-00	IR-150-016-01	16	M24	313	130	28
IR-155-016-00		16	M24	258	75	28
IR-150-018-00	IR-150-018-01	18	M27	332	146	34.5
IR-155-018-00		18	M27	277	91	34.5
IR-150-020-00	IR-150-020-01	20	M30	397	162	40
IR-155-020-00		20	M30	334	100	40
IR-150-022-00	IR-150-022-01	22	M30	410	170	40
IR-155-022-00		22	M30	345	105	40
IR-150-024-00	IR-150-024-01	24	M36	425	175	46
IR-155-024-00		24	M36	370	120	46
IR-150-026-00	IR-150-026-01	26	M36	435	175	46
IR-155-026-00		26	M36	380	120	46
IR-150-028-00	IR-150-028-01	28	M42	480	205	50
IR-155-028-00		28	M42	407	132	50
IR-150-030-00	IR-150-030-01	30	M48	525	235	58
IR-155-030-00		30	M48	435	150	58
IR-150-032-00	IR-150-032-01	32	M48	535	240	58
IR-155-032-00		32	M48	445	150	58
IR-150-034-00	IR-150-034-01	34	M52	547	256	65
IR-155-034-00		34	M52	452	161	65
IR-150-036-00	IR-150-036-01	36	M52	562	256	65
IR-155-036-00		36	M52	467	161	65
IR-150-038-00	IR-150-038-01	38	M56	590	265	72
IR-155-038-00		38	M56	490	165	72
IR-150-040-00	IR-150-040-01	40	M56	600	265	72
IR-155-040-00		40	M56	500	165	72

Material AISI 316 / 1.4462 Duplex

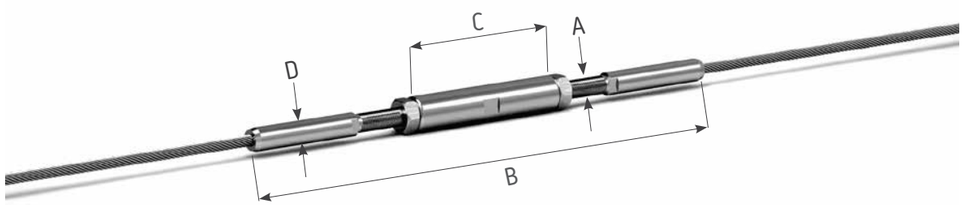




TURNBUCKLE WITH ROLL SWAGED FITTING

Part Number	Rope	Dimensions in mm					
Right threaded	Ø mm	A	B	B_{max}	B_{min}	C	D
IR-180-004-00	4	M6	194	206	162	65	7.5
IR-180-006-00	6	M10	271	284	230	80	12.5
IR-180-008-00	8	M12	361	376	298	104	16
IR-180-010-00	10	M14	456	476	378	136	17.8
IR-180-012-00	12	M16	548	568	444	158	21.4
IR-180-014-00	14	M20	686	716	560	190	25
IR-180-016-00	16	M24	796	822	648	230	28
IR-180-018-00	18	M27	833	873	683	245	34.5
IR-180-020-00	20	M30	983	1023	806	271	40
IR-180-022-00	22	M30	1011	1051	822	271	40
IR-180-024-00	24	M36	1040	1090	866	290	46
IR-180-026-00	26	M36	1060	1110	886	290	46
IR-180-028-00	28	M42	1200	1250	980	340	50
IR-180-030-00	30	M48	1330	1390	1070	400	58
IR-180-032-00	32	M48	1350	1410	1090	400	58
IR-180-034-00	34	M52	1375	1440	1113	425	65
IR-180-036-00	36	M52	1419	1484	1143	425	65
IR-180-038-00	38	M56	1450	1530	1200	430	72
IR-180-040-00	40	M56	1470	1550	1220	430	72

Material AISI 316 / 1.4462 Duplex



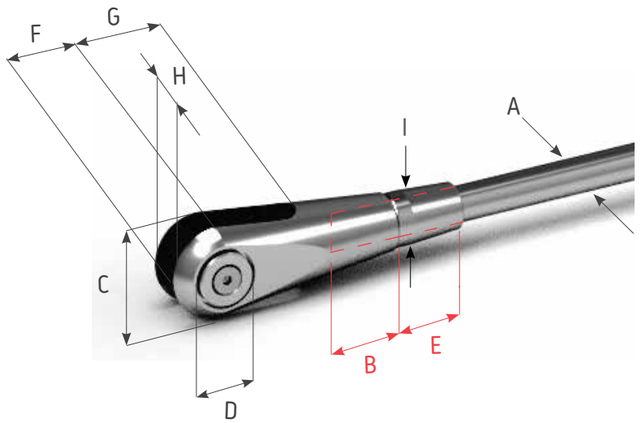
I-ROD TENSION SYSTEMS

Rod systems are used in many fields of applications such as canopies, bracing of glass façades, bridge constructions and pedestrian bridges, as well as bus stations and airport buildings. INOX-NET I-ROD systems are suited for a wide range of applications from M10 up to M30 sizes with individual rod lengths up to 6m. All systems are delivered pre-assembled and ready for installation.

FORK

Part Number	System Thread	Rod Ø mm	Dimensions in mm							
		A	B	C	D	E	F	G	H	I
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

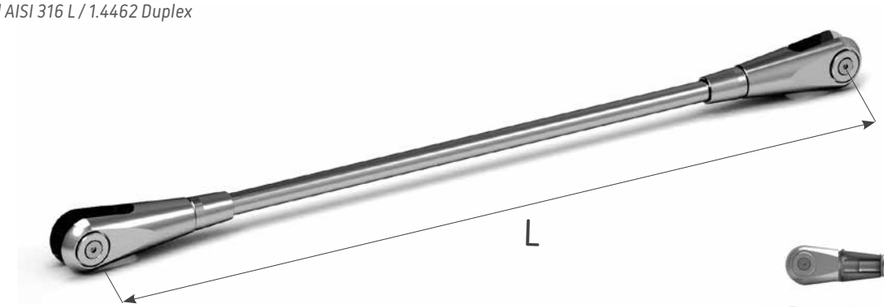
Material AISI 316 L / 1.4462 Duplex



BOTH SIDE FORK SET

Set Number	System Thread	Rod Ø 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

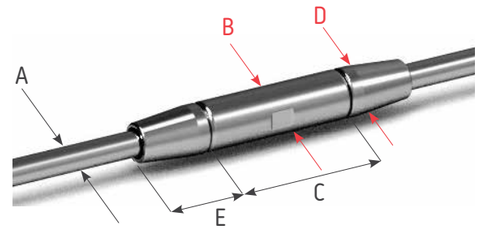
Material AISI 316 L / 1.4462 Duplex



set up thread point is 1,5 x thread diameter for each fork
min. thread depth is 1 x thread diameter
fork adjustment is 0,5 x thread diameter for each fork

TURNBUCKLE

Part Number	System Thread	Rod Ø mm	Dimensions in mm				
		A	B	C	D	E
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

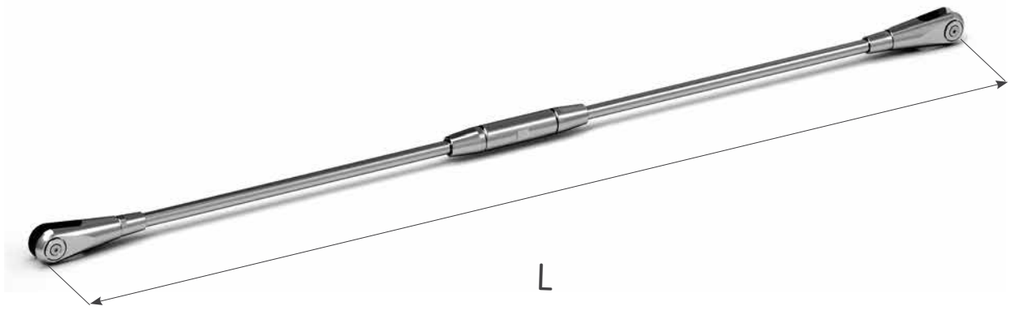


Material AISI 316 L / 1.4462 Duplex

BOTH SIDE FORK WITH TURNBUCKLE SET

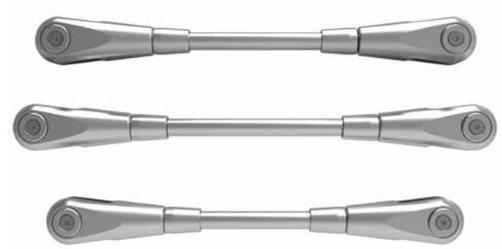
Set Number	System Thread	Rod Ø A(mm)	Max. Rod Length (mm)	Max. Set Length (L) max.(mm)	Min. Set Length (L) min.(mm)	Length Adjustment L +/- (mm)
IRDS-602-010	M10	10	6000	12129	563	30
IRDS-602-012	M12	12	6000	12141	597	32
IRDS-602-016	M16	16	6000	12175	669	36
IRDS-602-020	M20	20	6000	12215	859	40
IRDS-602-024	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



GREENERY SYSTEMS

In recent years vertical greenery systems have become more popular and increased their presence in building design.

Providing better air quality, noise damping, increasing thermal insulation, and visual enhancement of the building profile are some of the benefits which make the green wall systems a great choice.

Stainless steel rope and net systems are the most long-life and low maintenance systems offering flexibility to suit a variety of plant species and wind loads. Stainless Steel Net Systems provide additional options, with closer weaves than horizontal and vertical cabling.

I-NET and I-ROPE greenery systems are very flexibile, cost effective and environmentally friendly systems with easy planning and installation abilities. There are many factors to consider about choosing the correct greenery system such as, plant growth, load, grid structure, distance from wall and height.

Grid Structure: The type and growth size of the plant determines the grid structure.

Heigth: It is important that plant growth height does not exceed the height of the greenery system.

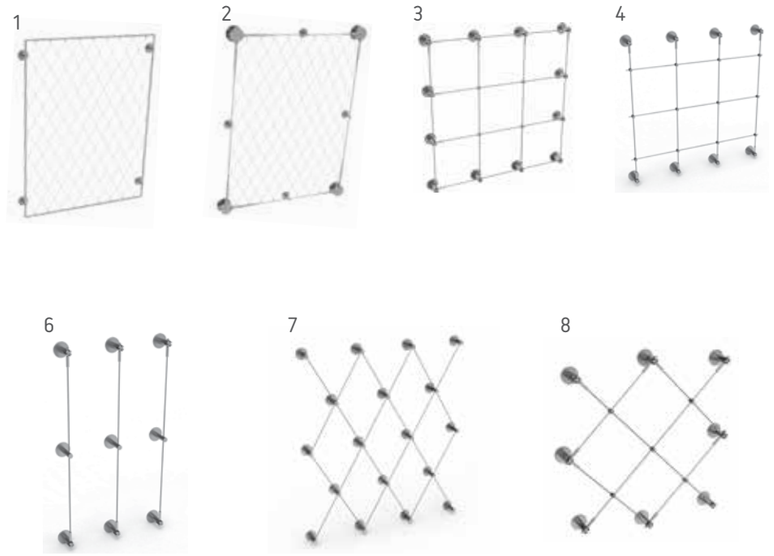
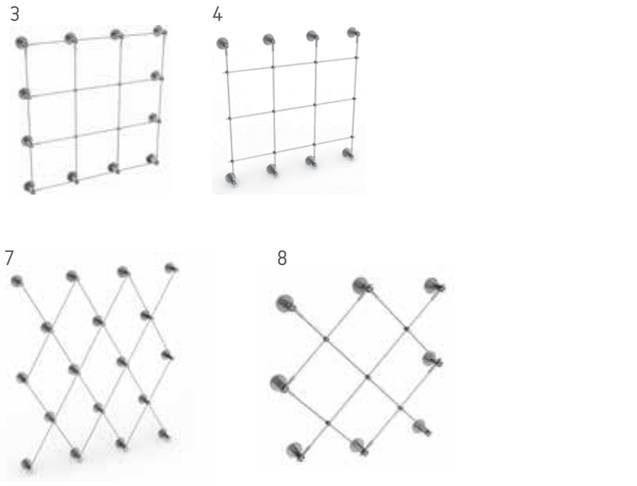
Distance From Wall: The distance from the wall depends on the growth density and root style of the plant.

Load: Depends on the climate factors such as rain, snow, wind loads and the plant factors such as wood and fruit weight.

Plant Growth: The type of plant, plant root style and growth rate are important to choose the right system.

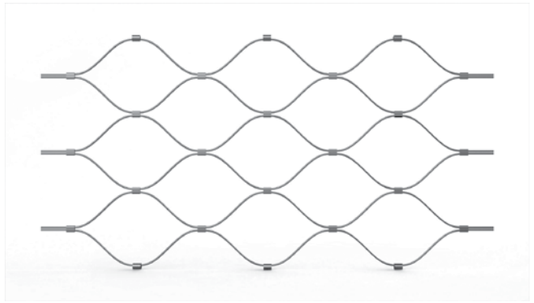
DESIGN AND PLANNING OF THE GREENERY SYSTEMS SHOULD BE DONE BY CONSIDERING THE IMPORTANT FACTORS WITH AN EXPERT.

GREENERY SYSTEM DESIGNING AND PLANING

Plant type	Plant name	Plant picture	Growing height (m)	Systems	Sytems's width & heights (mm)	Distance from wall(mm)
Vines (Twinning plants)	Wisteria		3-10		System 1 Width :max.1500 Heigth: max.2000 System 2 Width: max.1500 Heigth: max.2000 System 3/ 4 / 6 / 7 / 8 Width :min.300 - max800 Heigth : min.300 - max2000	90-150
	Lonicera (honeysuckles)		3-8			
	Actinida (kiwi)		4-9			
	Fallopia		2-12			
	Five leaf akebia		4-12			
Climbers	Ampelopsis		3-8		System 3 / 4 / 7 / 8 Width : min.300 - max800 Heigth : min.300 - max2000	90-150
	Passiflora (Passion flower)		3-10			
	Clematis		3-10			
	Clematis vitalba (Travelers joy)		3-10			
	Grape vine (vitis vinifera)		3-30			
Scrambling Plants	Jasminum		2-8		System 3 / 4 Width: min.300 - max.800 Heigth : min.300 - max2000 System 5 Width: min.300 - max2000	90-150
	Rose		2-4			
	Rubus		2-4			

I-NET GREENERY SYSTEMS

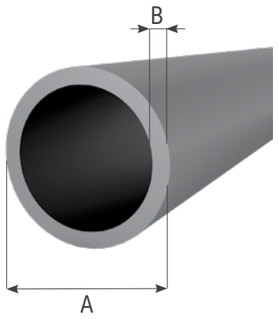
I-NET GREENERY SYSTEM WITH FRAME



I-NET

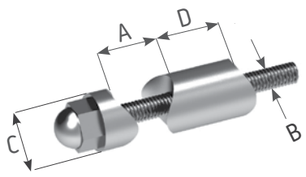
Part Number	Rope	Dimensions in mm	
	Ø mm	NW	NH
IN-110-150-120	1,5	120	208
IN-110-150-180	1,5	180	312

Material AISI 316 L
"NW" net width
"NH" net height



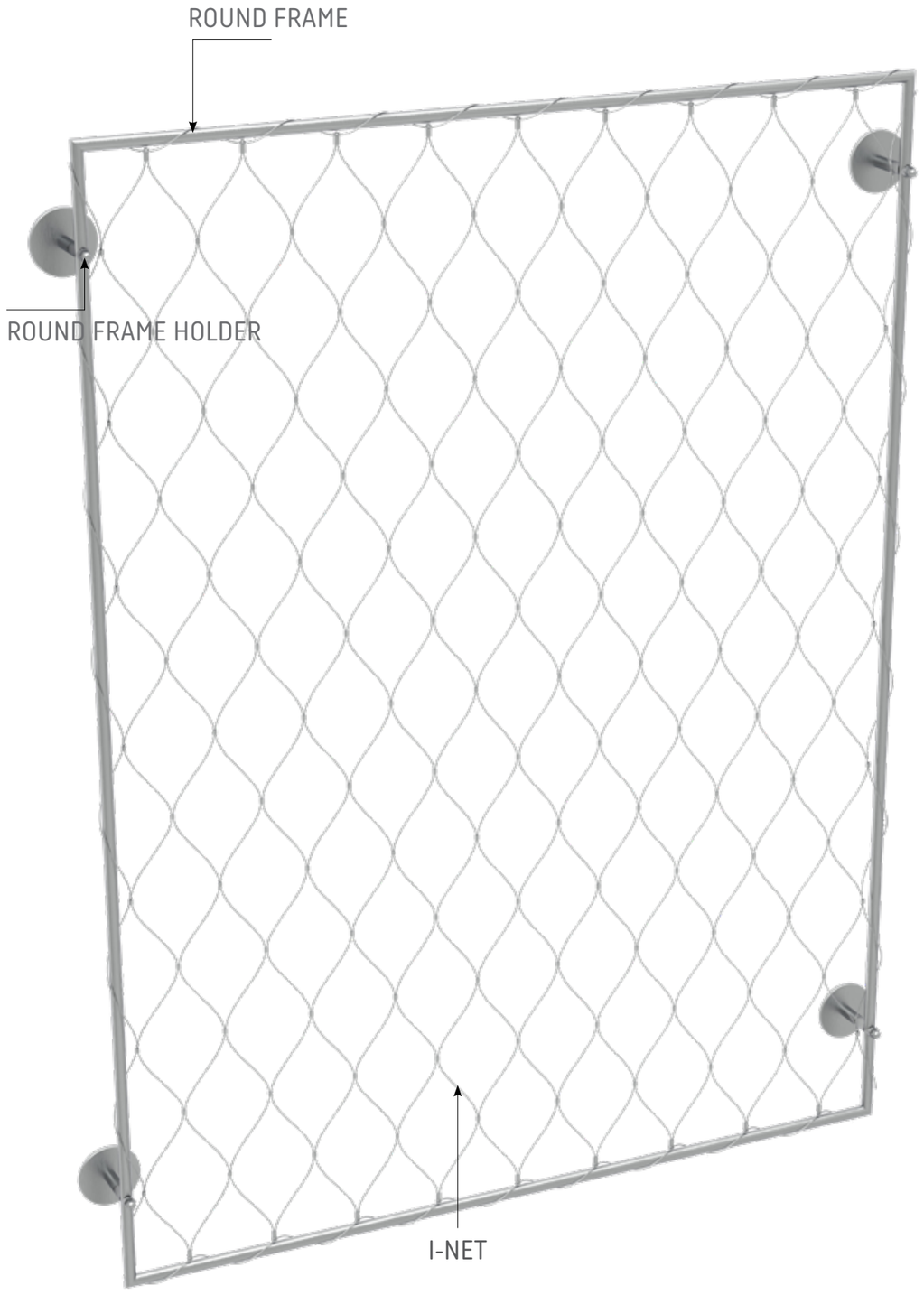
ROUND FRAME

Part Number		Dimensions in mm
	A	B
IN-F-010-0021-020	21,3	2
IN-F-010-0026-020	26,9	2
IN-F-010-0033-026	33,7	2,6
IN-F-010-0042-026	42,4	2,6

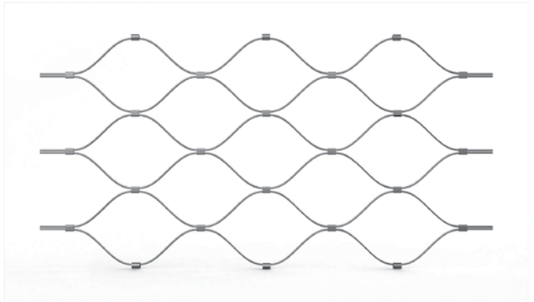


ROUND FRAME HOLDER

Part Number		Dimensions in mm		
	A	B	C	D
IN-F-015-021	21,3	M6	16	25
IN-F-015-026	26,9	M6	16	25
IN-F-015-033	33,7	M8	20	25
IN-F-015-042	42,4	M8	20	25



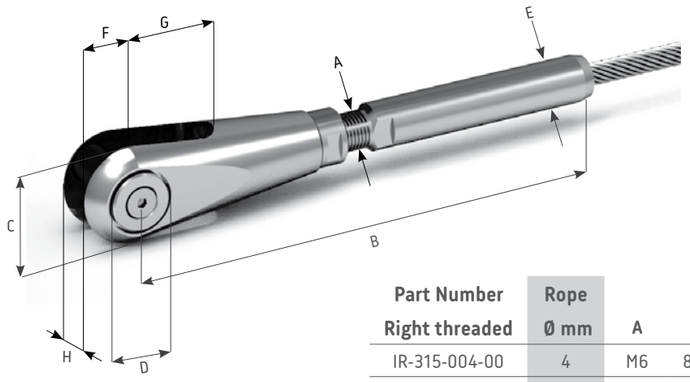
I-NET GREENERY SYSTEM WITH I-ROPE



I-NET

Part Number	Rope	Dimensions in mm	
	Ø mm	NW	NH
IN-110-150-120	1,5	120	208
IN-110-150-180	1,5	180	312

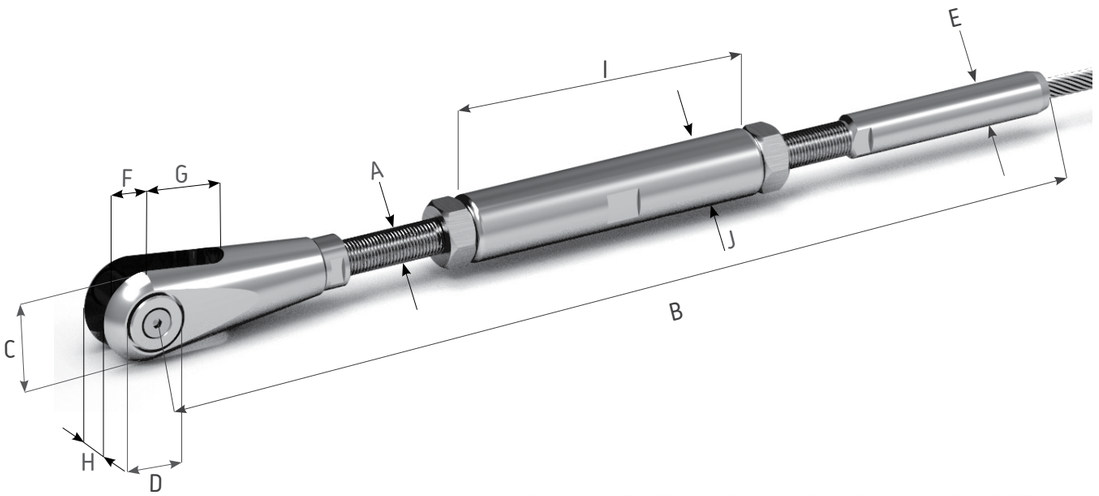
Material AISI 316 L
"NW" net width
"NH" net height



FORK WITH SWAGED FITTING

Part Number	Rope	Dimensions in mm							
Right threaded	Ø mm	A	B	C	D	E	F	G	H
IR-315-004-00	4	M6	89.2	15.5	6	7.5	8	11.5	6.6
IR-315-006-01	6	M8	107	20.6	8	12.5	11.2	14.8	8.8

Material AISI 316 / 1.4462 Duplex

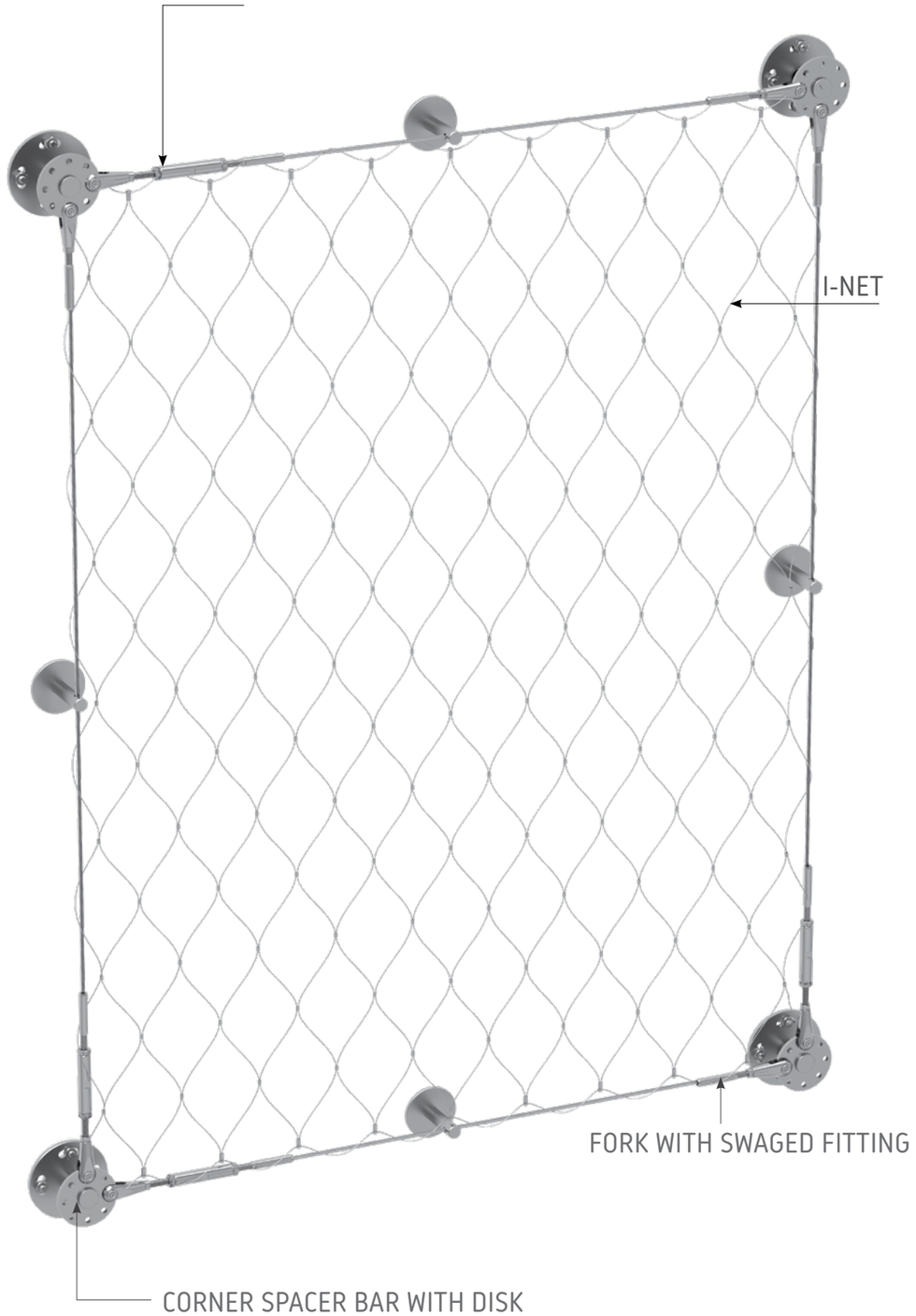


FORK WITH TURNBUCKLE AND SWAGED FITTING

Part Number	Rope	Dimensions in mm											
Right threaded	Ø mm	A	B	B_{max}	B_{min}	C	D	E	F	G	H	I	J
IR-325-004-00	4	M6	185	195	153	15.5	6	7.5	8	11.5	6.6	65	10
IR-325-006-01	6	M8	224	287	186	20.6	8	12.5	11.2	14.8	8.8	70	16

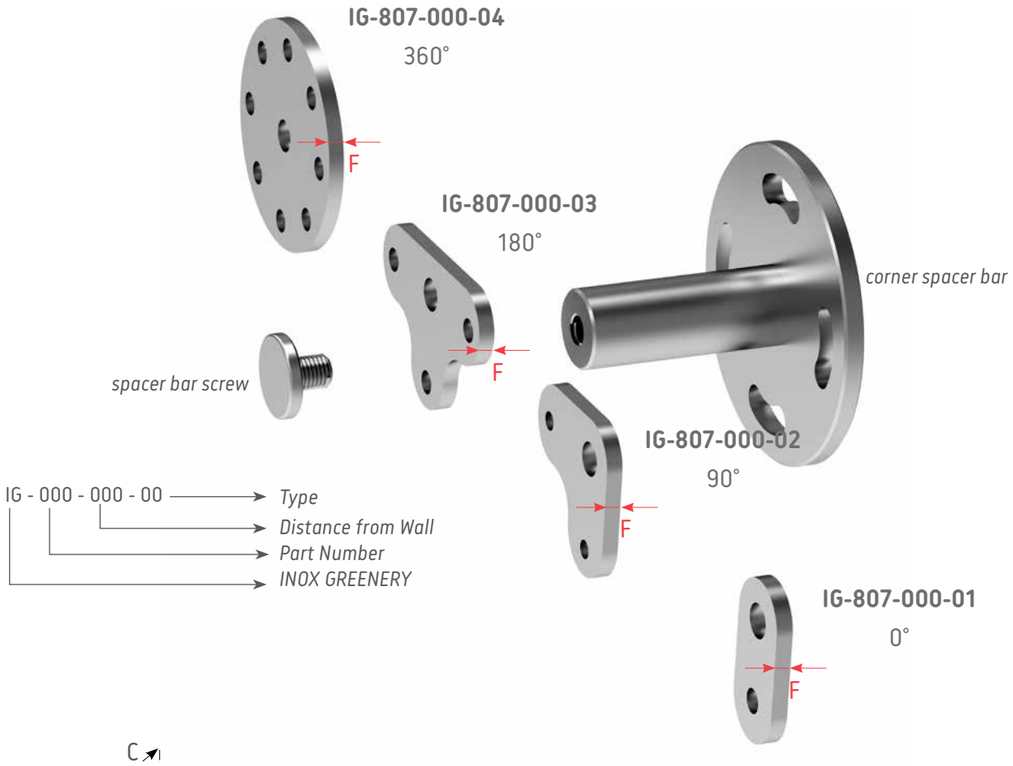
Material AISI 316 / 1.4462 Duplex

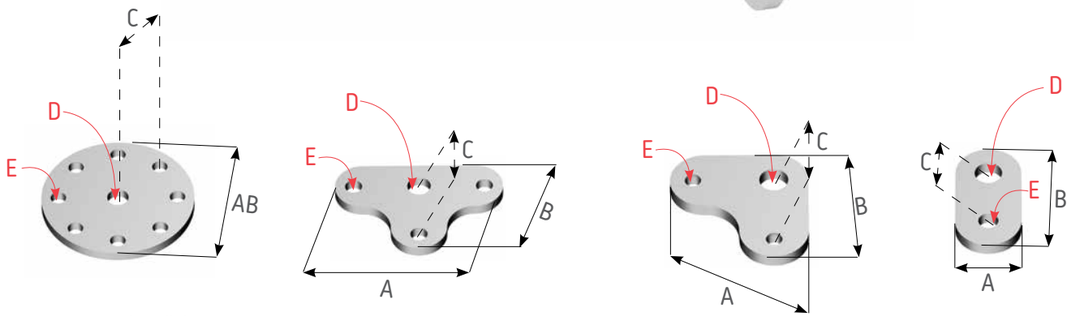
FORK WITH TURNBUCKLE AND SWAGED FITTING



I-NET GREENERY SYSTEM WITH I-ROPE

CORNER CONNECTION DISK TYPES





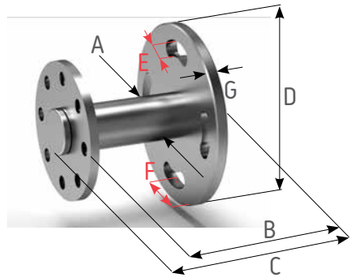
corner connection disks

CORNER CONNECTION DISK

Part Number	Angle	Rope Ø mm	Dimensions in mm					
			A	B	C	D	E	F
IG-807-000-01	0°	*4 - 6	30	60	35	9	7	6
IG-807-000-02	90°	*4 - 6	60	60	35	9	7	6
IG-807-000-03	180°	*4 - 6	90	60	35	9	7	6
IG-807-000-04	360°	*4 - 6	90	90	35	9	7	6

Material AISI 316L

**For only Ø4mm and Ø6mm ropes*

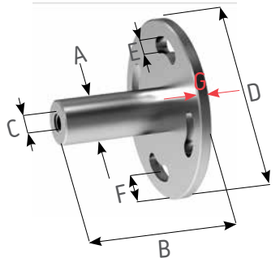


CORNER SPACER BAR WITH DISK

Part Number	Rope Ø mm	Distance from Wall	Dimensions in mm						
			A	B	C	D	E	F	G
IG-807-090-04	*4 - 6	90	30	90	98	120	M10	15	8
IG-807-120-04	*4 - 6	120	30	120	128	120	M10	15	8
IG-807-150-04	*4 - 6	150	30	150	158	120	M10	15	8

Material AISI 316L

**For only Ø4mm and Ø6mm ropes*

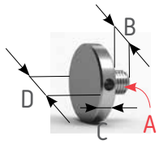


CORNER SPACER BAR

Part Number	Rope Ø mm	Distance from Wall	Dimensions in mm						
			A	B	C	D	E	F	G
IG-807-090-00	*4 - 6	90	30	87	M8	120	M10	15	8
IG-807-120-00	*4 - 6	120	30	117	M8	120	M10	15	8
IG-807-150-00	*4 - 6	150	30	147	M8	120	M10	15	8

Material AISI 316L

**For only Ø4mm and Ø6mm ropes*

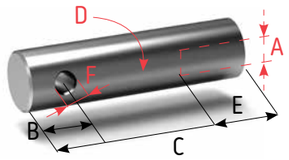


SPACER BAR SCREW

Part Number	A	Dimensions in mm B	C	D
IG-804-020-01	M8	16	5	20
IG-804-025-01	M8	16	5	25
IG-804-030-01	M8	16	5	30
IG-804-030-02	M10	10	5	30
IG-804-020-02	M12	15	5	20
IG-804-025-02	M12	15	5	25
IG-804-030-03	M16	15	5	30

Material AISI 316L

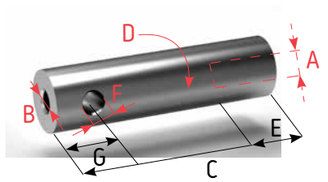
SPACER BAR



Part Number	Rope Ø mm	Distance from Wall	Dimensions in mm A	B	C	D	E	F
IG-817-090-00	*4 - 6	90	M8	15	97	20	20	8.5
IG-817-120-00	*4 - 6	120	M10	15	127	25	30	8.5
IG-817-150-00	*4 - 6	150	M10	15	152	25	30	8.5

Material AISI 316L

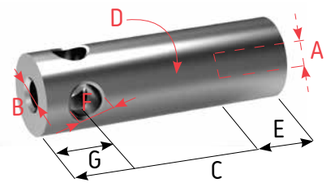
SPACER BAR WITH THREAD



Part Number	Rope Ø mm	Distance from Wall	Dimensions in mm A	B	C	D	E	F	G
IG-801-090-00	*4 - 6	90	M8	M8	97	20	20	8.5	15
IG-801-120-00	*4 - 6	120	M10	M8	127	25	30	8.5	15
IG-801-150-00	*4 - 6	150	M10	M8	152	25	30	8.5	15

Material AISI 316L
**For only Ø4mm and Ø6mm ropes*

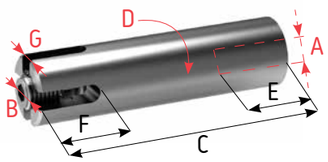
CROSS SPACER BAR



Part Number	Rope Ø mm	Distance from Wall	Dimensions in mm A	B	C	D	E	F	G
IG-802-090-00	*4 - 6	90	M12	M10	97	30	30	12	10
IG-802-120-00	*4 - 6	120	M12	M10	127	30	30	12	10
IG-802-150-00	*4 - 6	150	M12	M10	152	30	30	12	10

Material AISI 316L
**For only Ø4mm and Ø6mm ropes*

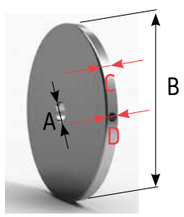
CROSS CLAMP SPACER BAR



Part Number	Rope Ø mm	Distance from Wall	Dimensions in mm A	B	C	D	E	F	G
IG-803-090-01	*4 - 6	90	M8	M12	97	20	20	22	6.5
IG-803-120-01	*4 - 6	120	M10	M12	127	25	30	22	6.5
IG-803-150-01	*4 - 6	150	M10	M12	152	25	30	22	6.5
IG-803-120-02	*4 - 6	120	M12	M16	127	30	30	30	8.5
IG-803-150-02	*4 - 6	150	M12	M16	152	30	30	30	8.5

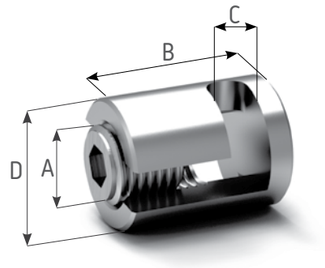
Material AISI 316L
**For only Ø4mm and Ø6mm ropes*

COVER DISK WITH INTERNAL THREAD



Part Number	Thread A	Dimensions in mm B	C	D
IG-805-080-01	M8	80	5	3.5
IG-805-080-02	M10	80	5	3.5
IG-805-080-03	M12	80	5	3.5

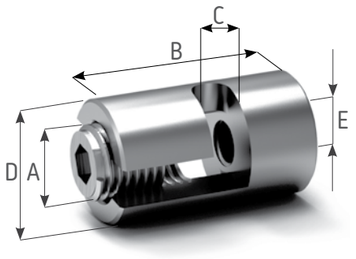
Material AISI 316L
**For only Ø4mm and Ø6mm ropes*



CROSS CLAMP ADJUSTABLE

Part Number	Rope Ø mm	Dimensions in mm			
		A	B	C	D
IG-808-004-00	4	M12	22	4,5	20
IG-808-006-00	6	M12	26	6,5	20
IG-808-008-00	8	M12	32	8,5	20

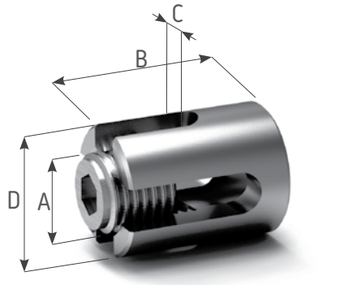
Material AISI 316 L



CROSS CLAMP WITH INTERNAL THREAD ADJUSTABLE

Part Number	Rope Ø mm	Dimensions in mm				
		A	B	C	D	E
IG-809-004-00	4	M12	30	4,5	20	M8
IG-809-006-00	6	M12	34	6,5	20	M8
IG-809-008-00	8	M12	40	8,5	20	M8

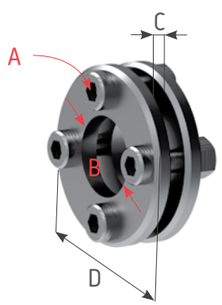
Material AISI 316 L



CROSS CLAMP 90°

Part Number	Rope Ø mm	Dimensions in mm			
		A	B	C	D
IG-810-004-00	4	M12	22	4,5	20
IG-810-006-00	6	M12	26	6,5	20
IG-810-008-00	8	M16	27	8,5	30

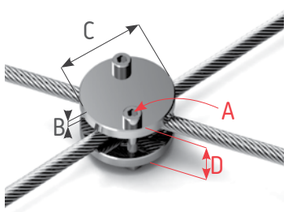
Material AISI 316 L



CROSS CLAMP 0-180°

Part Number	Rope Ø mm	Dimensions in mm			
		A	B	C	D
IG-811-040-00	*4 - 6	M5	18	4	40

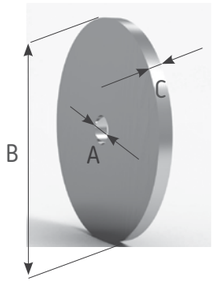
Material AISI 316 L
**For only Ø4mm and Ø6mm ropes*



CROSS CLAMP

Part Number	Rope Ø mm	Dimensions in mm			
		A	B	C	D
IR-530-004-06	4-6	M4	5	35	18/22
IR-530-008-12	8-12	M6	8	45	32/40

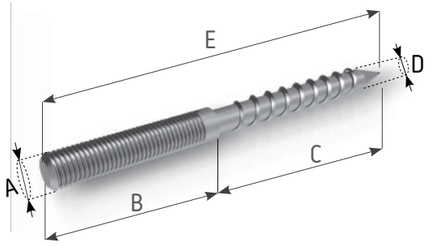
Material AISI 316



COVER DISK

Part Number	Dimensions in mm		
	A	B	C
IG-806-080-01	10.5	80	5
IG-806-080-02	12.5	80	5

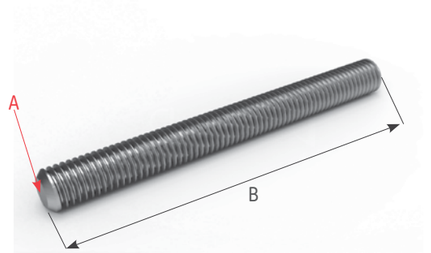
Material AISI 316 L



DUAL THREAD SCREW

Part Number Right threaded	Part Number Left threaded	Thread A	Dimensions in mm B	C	D	E
917-008-00	918-008-00	M8	40	60	6,9	100
917-010-00	-	M10	30	40	8,9	70

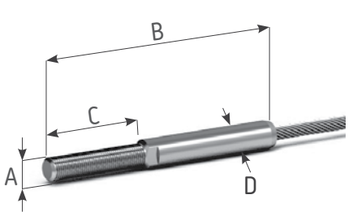
Material AISI 316



THREADED ROD

Part Number Right threaded	Part Number Left threaded	Thread A	Dimensions in mm B
919-008-01	920-008-01	M8	100
919-008-10	920-008-10	M8	200
919-010-01	920-010-01	M10	100
919-010-10	920-010-10	M10	200
919-012-01	920-012-01	M12	100
919-012-10	920-012-10	M12	200

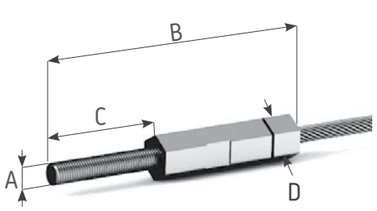
Material AISI 316



EXTERNAL THREAD ROLL SWAGED FITTING

Part Number Right threaded	Part Number Left threaded	Set Number	Rope Ø mm	Dimensions in mm A	B	C	D
IR-150-004-00	IR-150-004-01	IRS-120-004-00	4	M6	75	35	7,5
IR-150-006-00	IR-150-006-01	IRS-120-006-00	6	M10	109	45	12,5
IR-150-008-00	IR-150-008-01	IRS-120-008-00	8	M12	144	60	16

Material AISI 316 L



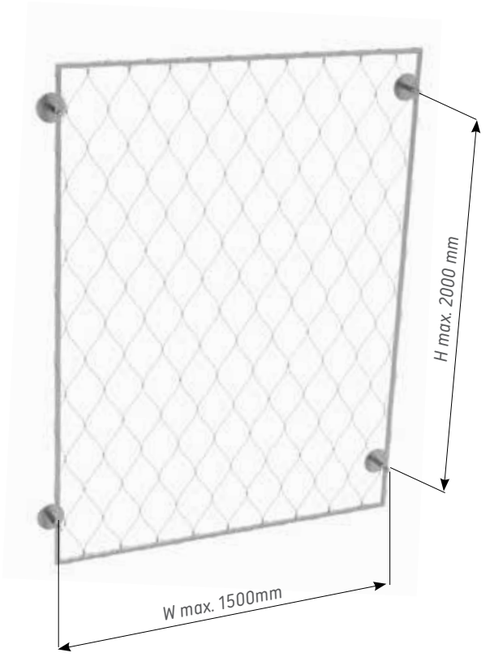
EXTERNAL THREAD SWAGELESS CONNECTION

Part Number Right threaded	Part Number Left threaded	Set Number	Rope Ø mm	Dimensions in mm A	B	C	D
IR-170-004-00	IR-170-004-01	IRS-140-004-00	4	M6	110	60	13
IR-170-006-00	IR-170-006-01	IRS-140-006-00	6	M8	115	60	15
IR-170-008-00	IR-170-008-01	IRS-140-008-00	8	M10	160	80	19

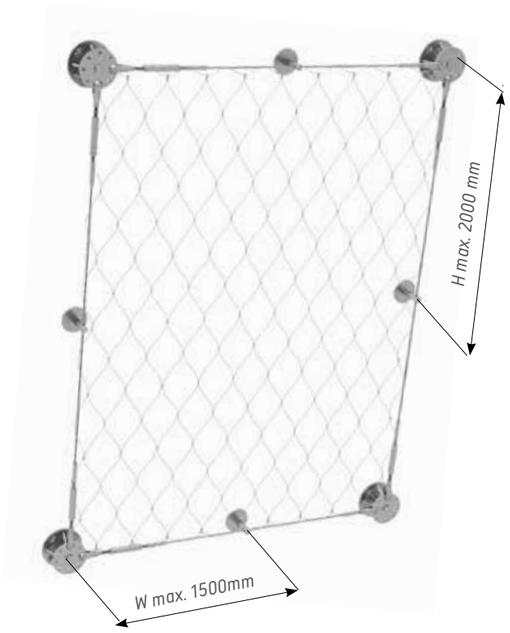
Material AISI 316 L

GREENERY SYSTEM INSTALLATION EXAMPLES

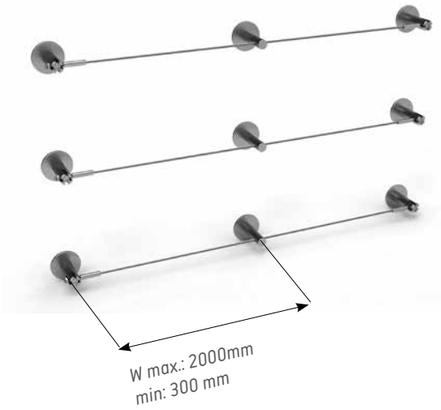
System 1
I-NET Frame System



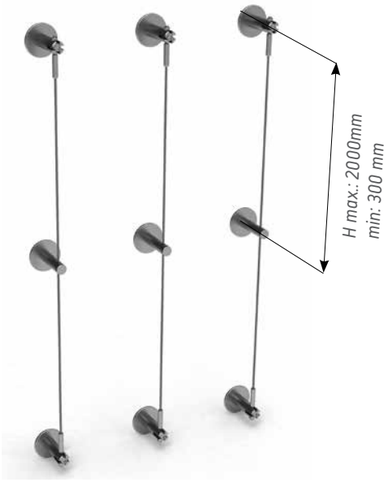
System 2
I-NET Frame System with I-ROPE



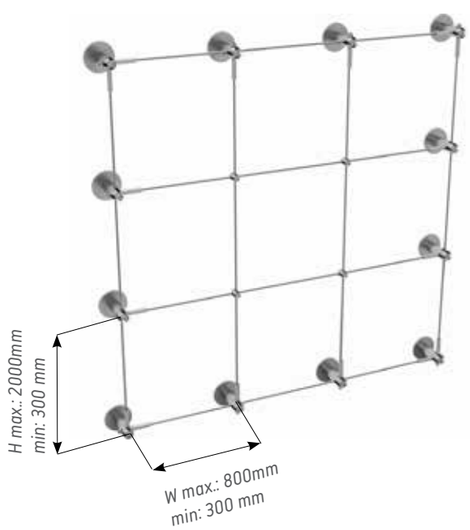
System 5
I-ROPE Horizontal System



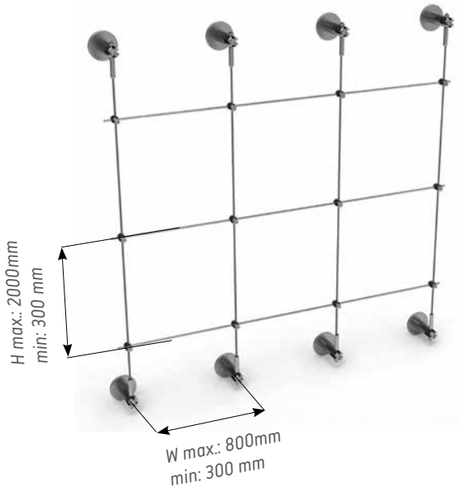
System 6
I-ROPE Vertical System



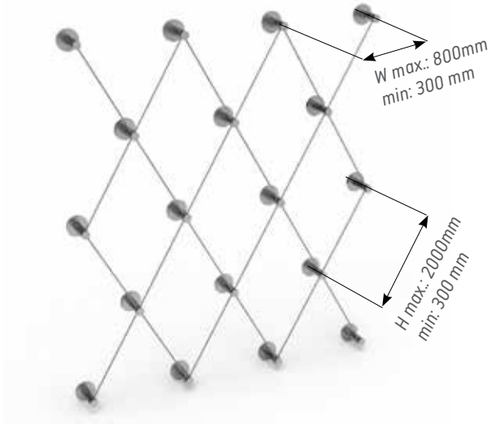
System 3
I-ROPE Grid System 1



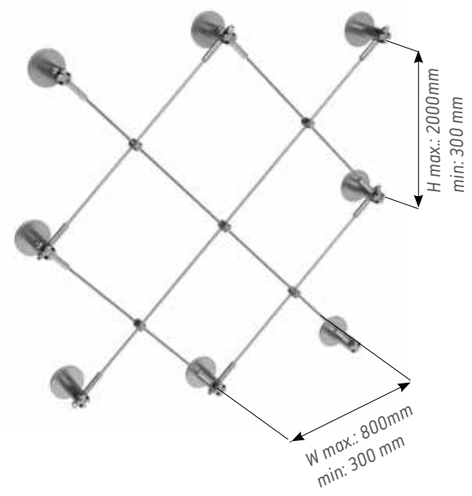
System 4
I-ROPE Grid System 2



System 7
I-ROPE Diagonal System 1



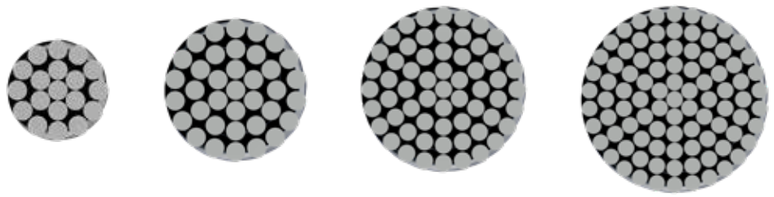
System 8
I-ROPE Diagonal System 2



CHARACTERISTICS OF WIRE ROPES

Explanation and Application of Wire Ropes

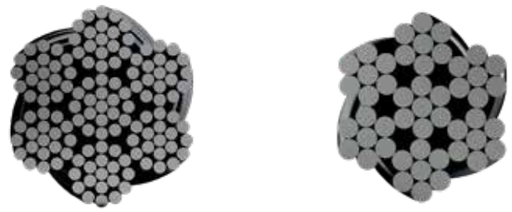
rope sample



1x19 *1x37* *1x61* *1x91*

Type of Wire Rope	Explanation
Spiral Ropes	Consist of several layers of individual round wires. They are manufactured from stainless steel wire. If a open spiral rope forms part of a strand rope, it is called “strand”. The designation of the various types of wire rope constructions depends on the number of wires in the rope cross section.
	Applications
	Carrier cables for lightweight membran structrues, Carrier/tensioning cables in cable nets, Carrier cables for light suspension bridges, Hanger cables for suspension bridges, Balustrade cables for suspension bridges, Bottom flange cables for load-bearing structures.

rope sample



7x19 *7x7*

Type of Wire Rope	Explanation
Strand Ropes	Wire ropes consist of a number of strands twisted together. This construction makes them very flexible. The code for this type of wire depends on the number of strands and the number of wires per strand.
	Applications
	Tensioning cables for lightweight membran structures, Hanger cables for suspension bridges, Balustrade cables for bridges, Bottom flange cables for load-bearing structures, Cross-bracing structures.

Technical Information About Wire Ropes

SPIRAL / STRAND ROPE "DIN EN 12385-10"

Material : Stainless steel wire 1.4401 (AISI 316) to DIN EN 10264-4
Modulus of Elasticity : 130 kN/mm² ± 10 kN/mm²
Tolerance on Diameter : 0% / +3%
Socketing : D= 4-40mm Swaging

Rope Ø mm	Minimum Breaking Force Fmin [kN]	Charact. Breaking Force Fuk (1) [kN]	Tension Strength FRd (2) [kN]	Metallic Cross Section A [mm²]	Stiffness EA [MN]	Weight [kg/m]
4	13	11.8	7.2	10	1.28	0.1
6	27	24.3	14.7	22	2.86	0.2
8	49	44.1	26.7	39	5.07	0.3
10	76	68.4	41.5	60.7	7.9	0.5
12	110	99	60	88	11.4	0.7
14	149	134.1	81.3	120	15.5	1
16	206	185.4	112.4	154	20.1	1.3
18	261	234.9	142.4	197	25.6	1.6
20	322	289.8	175.6	244	31.7	2
22	389	350.1	212.2	293	38.1	2.4
24	463	416.7	252.5	350	45.5	2.9
26	544	489.6	296.7	410	53.3	3.4
28	629	566.1	343.1	474	61.6	3.9
30	724	651.6	394.9	545	70.8	4.5
32	824	741.6	449.5	618	80.4	5.1
34	929	836.1	506.7	701	91.1	5.8
36	1042	937.8	568.4	784	102	6.5
38	1086	977.4	592.4	838	109	6.9
40	1198	1078.2	653.5	929	121	7.7

***F**min: Minimum Breaking Force.*
***F**uk: Breaking Strength of Wire Ropes Inc. End Connectors.*
***F**Rd: Limit Tension Resistance of the Wire Ropes Inc. End Connectors.*
***k**e: Loss Factor .*

***F**uk = **F**min x **k**e.*
***F**Rd = (**F**min x **k**e) / 1,65 .*
***k**e = 0,9 (swaged fitting)*

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. Thus INOX-NET prefers duplex stainless steel for the individual properties requested by special projects.

MATERIAL GROUPS

	EN 10088-3		AISI	Cmax.	Cr	Ni	Div	Type
AISI 316 group	1.4401	X5CrNiMo17-12-2	316	0.07	18	10		Austenitic
	1.4404	X2CrNiMo17-12-2	316L	0.03	17	11	Mo	Austenitic
	1.4408	GXCrNiMo19-11-2		0.07	19	10		Austenitic
	1.4435	X2CrNiMo18-14-3	316L	0.03	18	12		Austenitic
	1.4571	X6CrNiMoTi17-12-2	316Ti	0.1	18	10	Ti	Austenitic
Duplex group	1.4462	X2CrNiMoN22-5-3	2205	0.03	21-23	4,5-6,5	Mo	Austenitic-Ferritic
	1.4410	X2CrNiMoN25-7-4	2507	0.03	24-26	6-8	Mo	Austenitic-Ferritic
Designation	European Standard		USA Standard	Carbon	Chromium	Nickel	Ti = Titanium 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	
Properties	weather-proof	weather-proof
	highly acid-resistant	highly acid and corrosion resistant highly resistant to aqueous environment and seawater higher mechanical properties

Corrosion

Although stainless steel is resistant to corrosion by its self passivation mechanism rust may occur in some situations.
Some reasons of rust;

- Contamination by iron particles in the atmosphere or by iron dust from the nearby operations such as grinding, drilling and cutting.
- Lack of cleaning.
- Defects in design selecting the correct grade, finishing .
- Combination with other materials only stainless steel fasteners should be used on stainelss steel components.

How To Avoid Corrosion?

- Correct and appropriate grade should be selected for the environment during the design phase (AISI 304, AISI 314 are not resistant to the sea water and chloridic water, AISI 316 has a limited resistance to seawater, Duplex is resistant to seawater).
- Stainless steel should be cleaned often enough to maintain a good appearance and preserve corrosion resistance.
- Keep away from hydrochloric acid, chloride or fluoride.

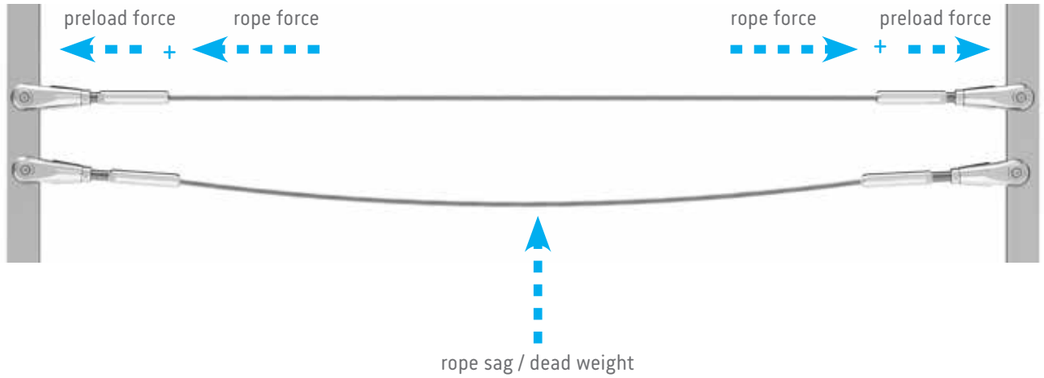
Maintanence and Cleaning

- Rinse with water to remove dirt. High pressure jet cleaners can be used.
- Wash with warm water containing soap or %5 ammonia using a soft brush.
- To remove rust use domestic cleaning creams or polishes which may contain calcium carbonate or citric acid.
- Soft cleaning cloths.

TECHNICAL TIPS

ROPE FORCES AND TENSIONING

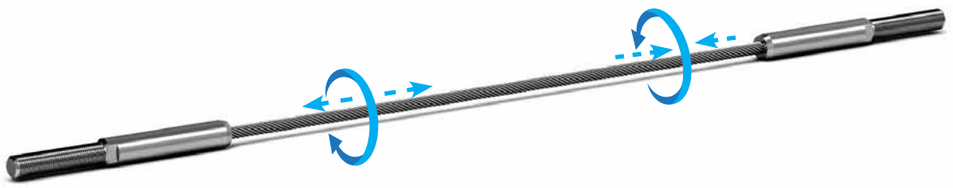
To make up an effective total, rope force and preload force should be applied as a combination. The ropes are held by means of fittings such as end stops and nuts. The length of the rope can be adjusted by the help of this joints.



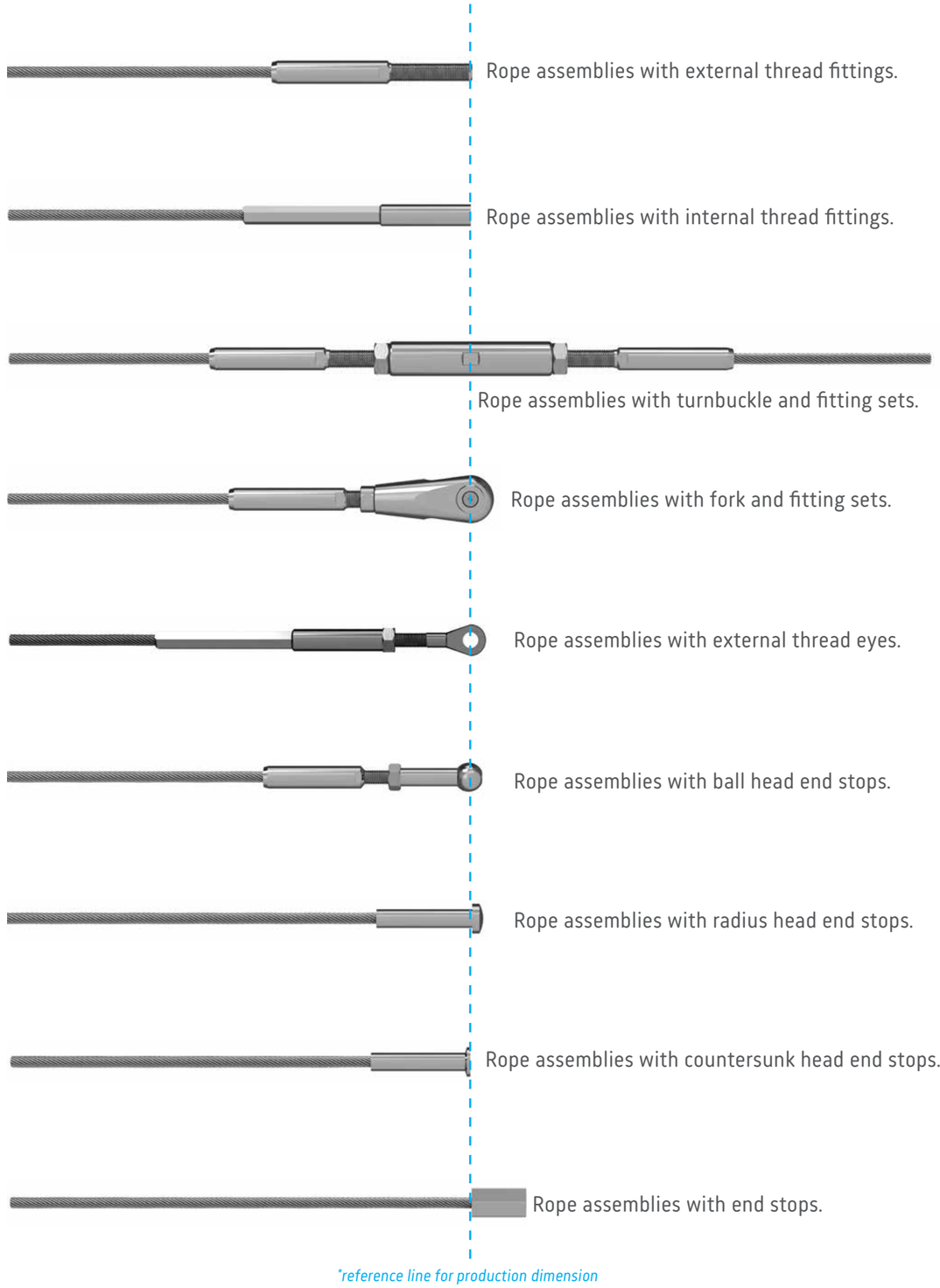
Tightening and Loosening Descripton of Rope System

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.



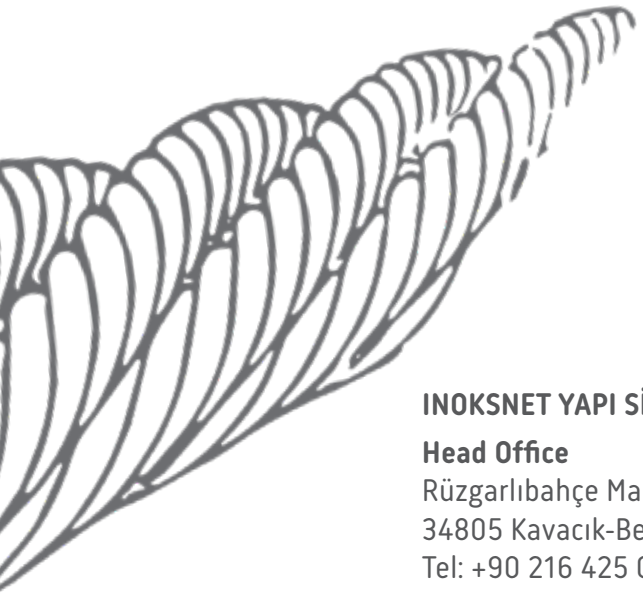
ASSEMBLY LENGTHS



OUR GOALS

As INOX-NET we have recently begun establishing new services in Turkey, however our factory and office goals are:

- Our goals as a company is to introduce our products within Turkey and the world. To provide our best services putting our product quality in the forefront while always ensuring customer satisfaction.
- Being the preferred company due to its professional management, which delivers absolute quality both at home and abroad,
- Being the first choice company by creating a working environment where employees are happily working as a member of the INOX-NET family.
- To demonstrate our quality all over the world, to increase our reputation and to expand our core competencies and competitiveness while competing,
- To continuously improve our research and development activities for a portfolio containing economic, high-quality and innovative products.



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

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