

UNO ENGINEERING

THE ENGINEERS ENTERPRISES

HYDRAULIC JOINT COMPRESSOR MACHINE SUITABLE FOR ALL TYPES OF CONDUCTORS- ACSR/AAAC/HTLS ETC.

1. GENERAL INTRODUCTION & APPLICATION:

Hydraulic Compressor (Motorized Joint Machine) are usually used to connect two different lengths of conductor together by compressing the mid-span joint into which the ends of the two lengths have been inserted; Or used to connect the conductor to the tension tower by compressing the dead end clamp with the fitted-in conductor. A complete set of hydraulic compressor consists of one press head and one power unit (either gasoline engine or diesel engine or electric one) which are jointed together with two lengths of oil hoses and fast/screw type coupling connectors.

2. SPECIFICATIONS:

2.1. COMPRESSION (PRESS) HEAD:

Model No.	Max. Cap. (T)	W. Press (Mpa)	Max. P. (Mpa)	Max. Applicable Joint Dia. (mm)	Max Stroke (mm)	Mass (kg)
HPH-060	60	63 - 70	80	50	24	24
HPH-100	100	63 - 80	90	64	28	35
HPH-110	110	63 - 80	90	65	30	53
HPH-150	150	63 - 80	94	80	35	82

2.2. POWER UNIT (with dual speed and direct coupling)

Model No.	Engine (gasoline)	Power (HP)	W.P. (Mpa)	Max. P. (Mpa)	Liquid Delivery (L/ min.)		Tank (L)	Mass (kg)
					H.P.	L.P.		
PUG-680	Honda Gx160	5.5	60 - 80	94	1.8	8.0	10	63



Power Unit + Press Head 110 ton cap,



Press Head 100 ton cap.

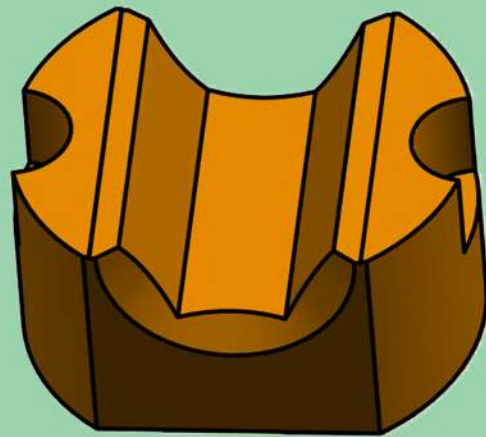
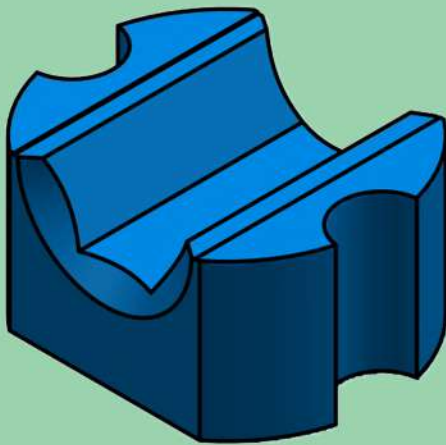
UNO ENGINEERING

THE ENGINEERS ENTERPRISES

Die Sets

(SUITABLE FOR CRIMPING OF ALL TYPES OF ACSR, AAAC, HTLS, ACCC CONDUCTORS)

Item Description	Matching Press Head	Model of Conductor	Die Dimension face to face (mm)	Die Dimension corner to corner	Weight (kg)
Die Set	UCH120T	ACSR Grosbeak dead end Aluminium	41	47.3	7



		MATERIAL:- EN19		QTY:-	
		UNO ENGINEERING			
FIRST ISSUED		TITLE			
DRAWN BY	HARKESH	DIE SET 41 MM			
CHECKED BY					
APPROVED BY		SIZE	DWG NO.	SHEET	
DATE	09.07.25	A4		REV. A	
		SCALE 1:1	SHEET 1 OF 1		

UNO ENGINEERING

THE ENGINEERS ENTERPRISES

PILOT WIRE

ANTI-TWISTED GALVANIZED STEEL WIRE ROPE

APPLICATION: Anti-twisting galvanised steel wire rope (also called Pilot Wire, Pilot Rope, etc.), braided from 8/12/18 steel wire strands of high tensile strength, is specially designed to serve as pulling rope of conductors in the stringing of overhead power transmission lines. With it's half strands left lay and half strands right lay, it achieves stable non-rotating property in stringing operations; high flexibility and homogeneous distribution of pressure between the elementary wires, and between strands increase efficiency during stringing operations. Hexagonal cross section of the rope, especially 18 stranded braided rope, is closer to a circle and can reduce the chance of damage / tear and wear between the groove of bullwheel of puller and the rope when the rope is passing the bullwheel, for the contact area between groove and rope is larger.

SPECIFICATIONS:

A. 12 stranded; hexagonal / square cross section

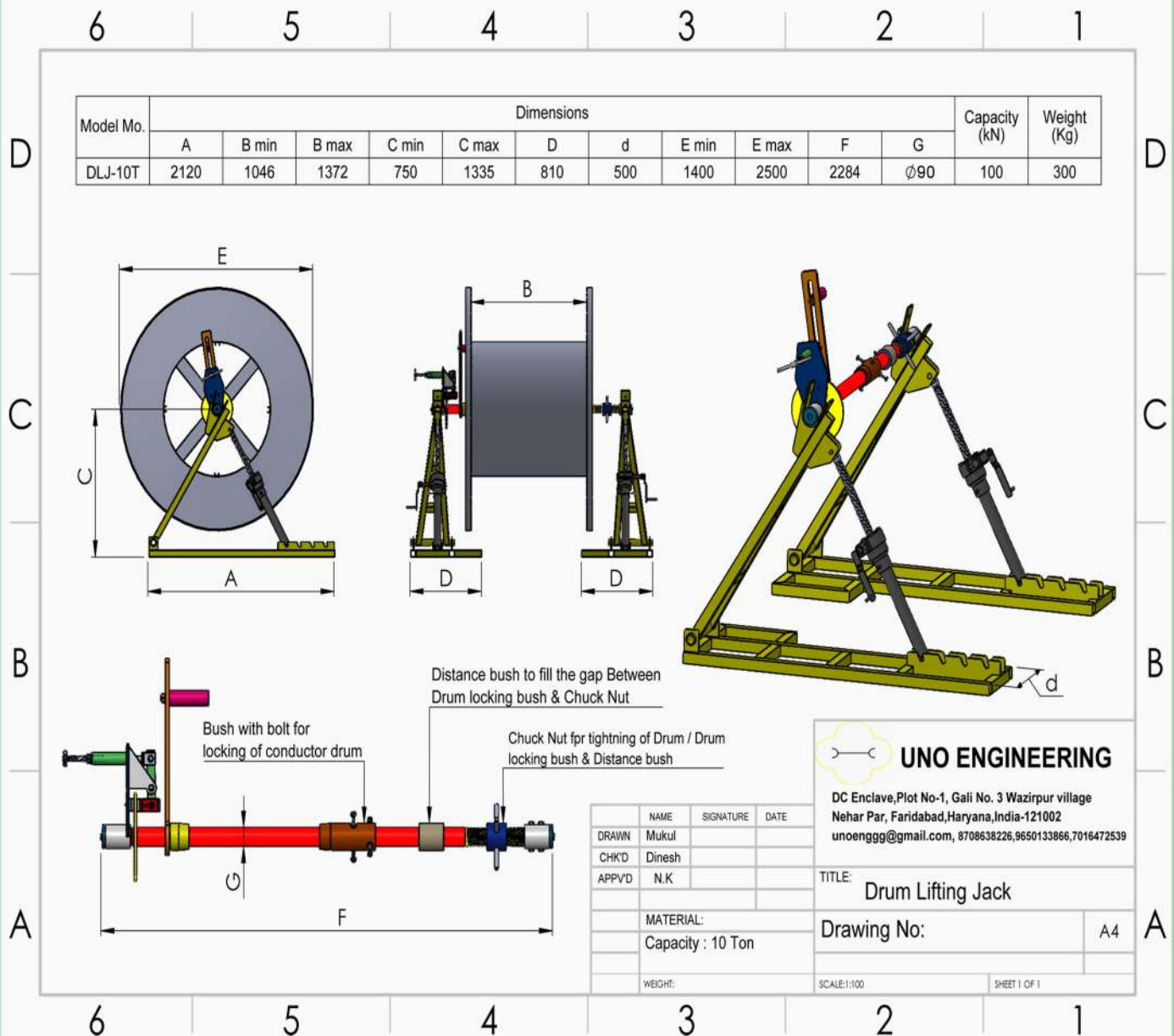
Model No.	Rope Dia. (mm)	B. Load (kN)	Strand Dia. (mm)	Standard Length (m)	Weight (kg /m)	Reel Flange Dia. applicable (mm)
11120905	09	54	2.0	1000 / 2000	0.266	850 / 1100
11121007	10	73	2.3	1000 / 2000	0.345	850 / 1100
11121108	11	86	2.5	1000 / 2000	0.426	1100 / 1250
11121210	12	100	2.7	1000 / 2000	0.471	1100 / 1400
11121312	13	125	3.0	1000 / 2000	0.570	1100 / 1400
11121415	14	145	3.3	1000	0.680	1100
11121517	15	170	3.5	1000	0.788	1250
11121618	16	180	3.6	900 / 1000	0.806	1250
11121821	18	215	4.0	900 / 1000	1.030	1250 / 1400
11121823	18	235	4.0	800 / 1000	1.050	1250 / 1400
11122028	20	280	4.5	800 / 1000	1.320	1400
11122232	22	320	4.8	800 / 900	1.516	1400
11122437	24	375	5.2	700 / 800	1.778	1400
11122642	26	420	5.5	700 / 800	1.991	1400 / 1600
11122846	27	460	5.8	600 / 700	2.206	1400 / 1600



UNO ENGINEERING

THE ENGINEERS ENTERPRISES

CONDUCTOR DRUM LIFTING JACK



UNO ENGINEERING

THE ENGINEERS ENTERPRISES

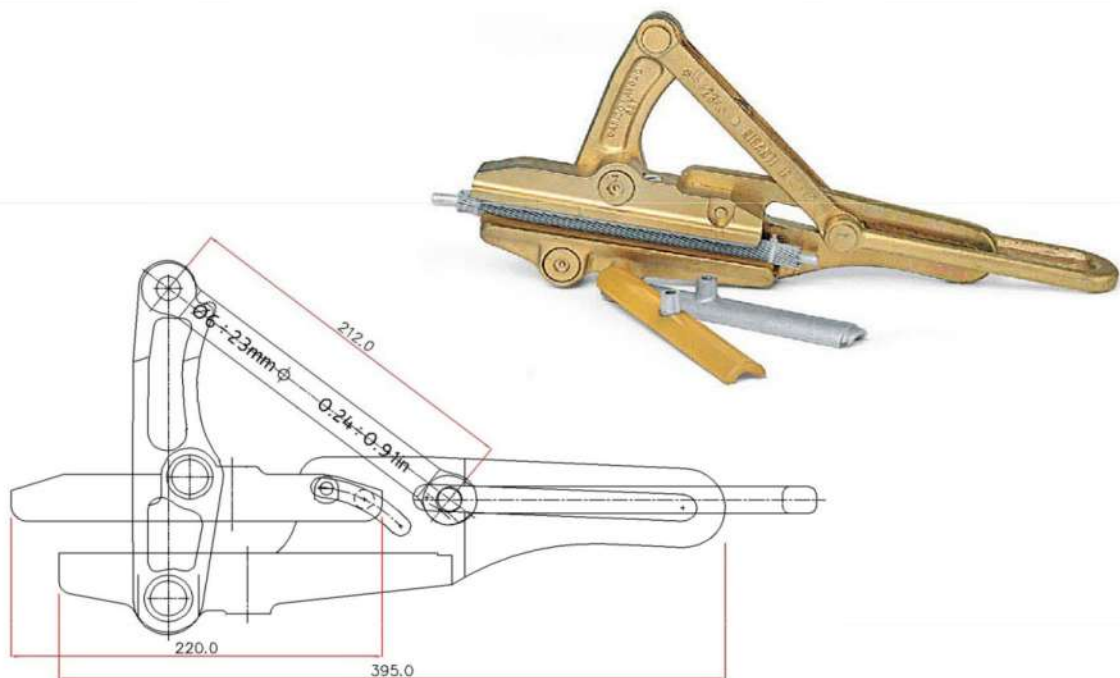
AUTOMATIC CLAMP FOR CONDUCTOR/OPGW/PILOT WIRE/ EARTHWIRE

Make : UNO

Suitable for ACS DRIVER/EARTHWIRE outer Ø 6-23 mm Made of high tensile alloy steel, hot forged, heat-treated, precision machined and zinc-plated with a complete range of interchangeable liners.

Technical specification

Maximum safety load 49 Kn
Minimum breaking load 180 kN
Weight 17 kg



UNO ENGINEERING

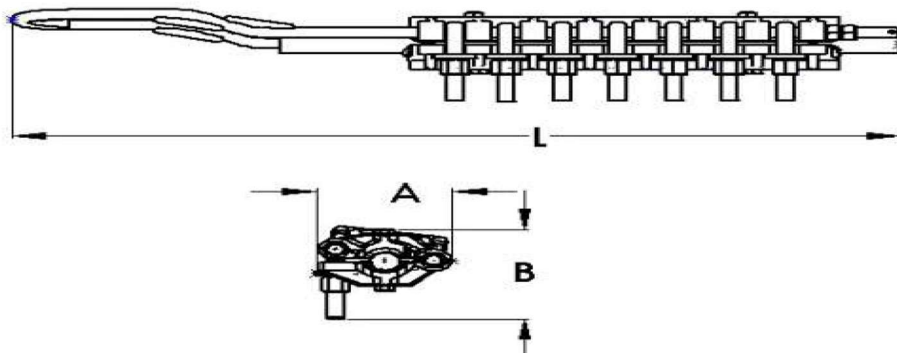
THE ENGINEERS ENTERPRISES

COMEALONG BOLTED CLAMP SUITABLE FOR CONDUCTOR / STEEL

THE BOLTED COME-ALONG CLAMPS ARE FIT FOR PULLING AND ANCHORING OVERHEAD CONDUCTORS, EARTH WIRE AND STEEL WIRE ROPES. THE CLAMPS ARE ASSEMBLED BY VARIOUS CAST AND FORGED ALLOY STEEL PARTS.

THE GROOVES ARE FITTED WITH GRAVITY DIE CASTED ALUMINUM ALLOY LINERS WHICH ARE INTERCHANGEABLE ACCORDING TO THE ACTUAL DIAMETER OF THE CONDUCTOR.

A 2-3 MM SIDE RADIUS ON LINERS IS GIVEN TO ALLOW CONDUCTOR EXPANSION WHILE TIGHTENING TO AVOID SCRATCHES ON CONDUCTORS.



Model No.	Eye Bolts	Dimensions A X B X L (mm)	For Steel Wire Rope Up to Diameter* (mm)	For Conductor Up to Diameter* (mm)	Working Load (kN)	Breaking Load (kN)	Weight (Kg)
UNO.BC.03	03	130X120X508	10-16	-	15	45	8
UNO.BC.04	04	130X120X558	12-20	-	17	50	9
UNO.BC.07	07	130X146X861	-	20-33	27	80	17
UNO.BC.08	08	140X149X910	-	31-36	33	100	20
UNO.BC.09	09	150X150X920	-	35-41	40	120	23

***Note:**

1. Please specify the diameter and the type of conductor/steel rope, while placing an order
2. Other liners apart from those compatible with the diameters of standard conductors And earthwires are also available upon request.

UNO ENGINEERING

THE ENGINEERS ENTERPRISES

BULL DONG CLAMP

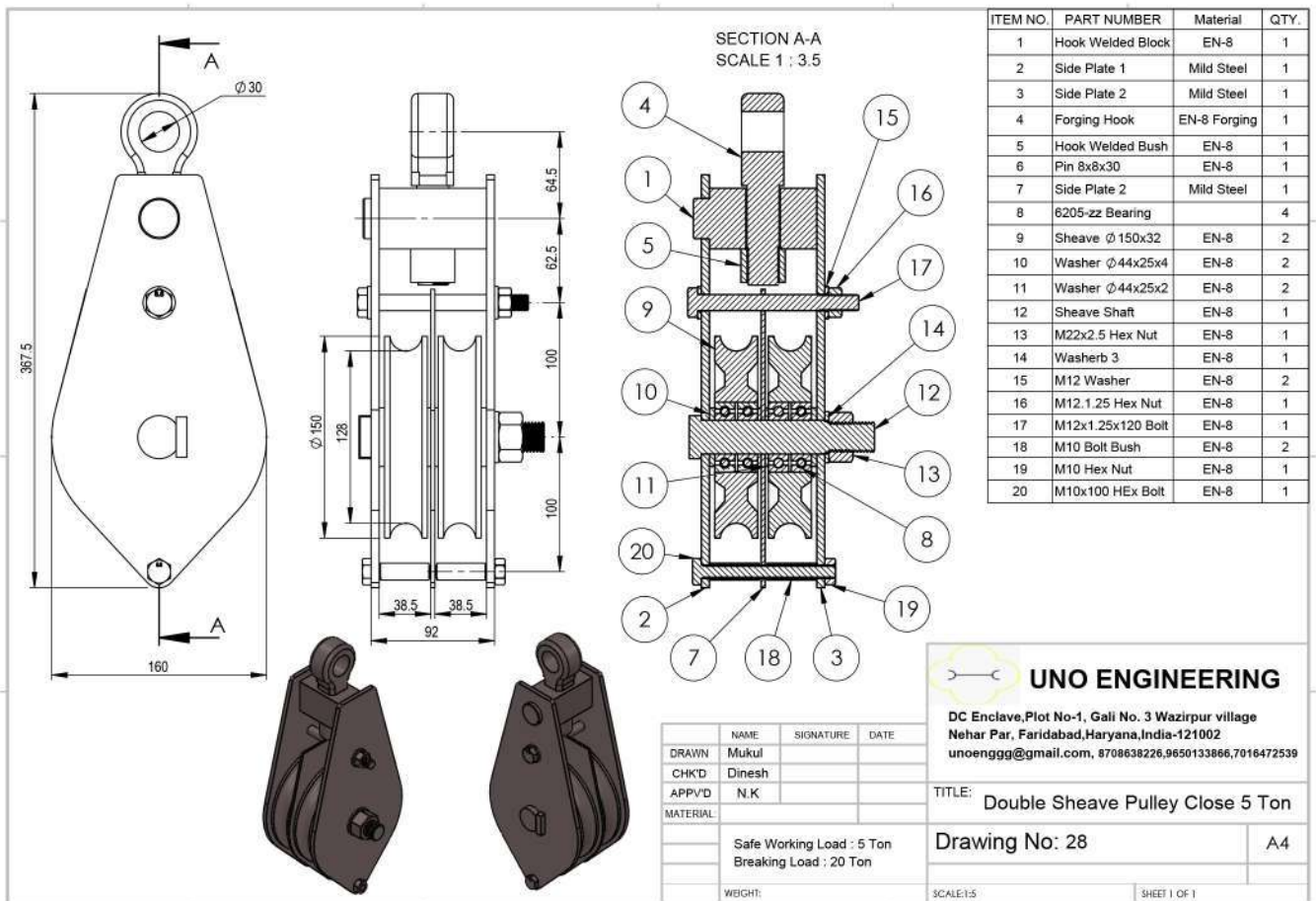


WIRE ROPE CLAMPS THAT ARE USED TO FIX THE LOOSE END OF THE LOOP BACK TO THE WIRE ROPE. IT CONSISTS OF A U-SHAPED BOLT, A FORGED SADDLE AND TWO NUTS. THREE OR MORE CLAMPS ARE USUALLY USED TO TERMINATE A WIRE ROPE. AVAILABLE IN STANDARD SPECIFICATION, THESE CAN ALSO BE CUSTOMIZED AS PER THE REQUIREMENTS OF OUR CLIENTS. THESE FIND APPLICATION IN VARIOUS INDUSTRIES SUCH AS CONSTRUCTION INDUSTRY, CEMENT PLANT, CHEMICAL INDUSTRY AND OIL INDUSTRIES.

UNO ENGINEERING

THE ENGINEERS ENTERPRISES

DOUBLE SHEAVE PULLEY 5T CAPACITY



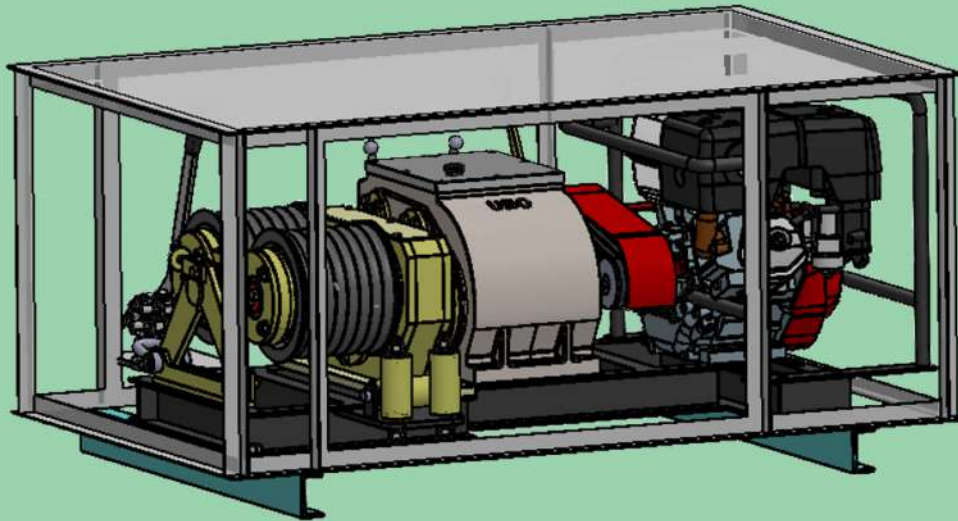
UNO ENGINEERING

THE ENGINEERS ENTERPRISES

POWER WINCH MACHINE 5TON DOUBLE CAPSTAN WITH ANTILOCK BRAKE

Power winch machine 5ton has been designed for tower erection and stringing operation of low / medium & high voltage overhead Power Transmission Line and can be used for any lifting activities as well.

It reduces the chance of damage of steel rope by double capstan design. Required only one person to pull the steel wire rope. Its belt driven, having clutch unit and antilock brake system. It can be dismantled in to three parts so that we can shift easily at hilly areas to perform the execution of transmission line. Hooks are provided for anchoring during operation.



Power Winch Machine, Driven by Petrol Engine - GX390, Double Capstan - 5ton Capacity

Model	PW2C5T		
Operating Gear	1st	2nd	3 rd
Pull cap (SWL)	50kn	25kn	10kn
Tested on (Proof Load)	60kn	35kn	16kn
Speed (m/min)	5.5	15	28
Engine	Honda GX 390 / GX430		
Capstan	Double Capstan with 7nos. Of groove,		
Max. Suitable Rope Dia	18mm		
Weight	330kg		

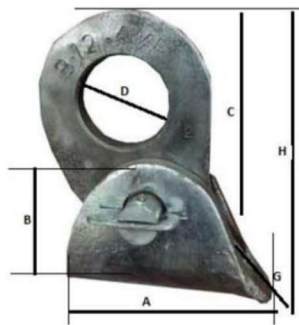
UNO ENGINEERING

THE ENGINEERS ENTERPRISES

KITTO CLAMP

These clamps are used wherever self gripping of the steel wire rope is required.

The clamps are assembled from various alloy steel forged parts. The dimensions of grooves depend upon the diameter of the wire rope that has to be gripped.



ALL DIMENSIONS ARE IN MM

MODEL	A	B	C	D	E	F	G	H	WEIGHT
KIT 8-14	140	89	117	54	16	12	19	180	2.8

ALL DIMENSIONS ARE IN MM

TOLERANCE : $\pm 0.5\%$

UNO ENGINEERING

THE ENGINEERS ENTERPRISES

HYDRAULIC CONDUCTOR CUTTER

Hand operated Hydraulic wire cutters

APPLICATIONS: The hydraulic cutter with blades made from steel alloy of high strength and hardness is used to cut conductors like ACSR, AAAC, etc. And it can be used to cut GSW earth wire, ACS earth wire and OPGW as well. All the cutters are self-contained hand-operated hydraulic cutting tool, Designed with latch type rotatable head, double-speed pumping system, safety valve and plastic case package.

For CPC-40FR release pressure by twisting and closing handle, For CPC-40A, turn pressure release knob (installed on the side of cutter)

Specifications

Model No.	Cutting Capacity (OD in mm)									Length(mm)	Weight (kg)
	GWS			Soft /Cu/Al/Steel Bar			ACSR	Steel Guy Wire	Underground Cable		
	6*7	6*12	6*19	Soft Cu Bar/Strands	Soft Al Bar/Strands	Soft Steel Bar					
CPC-20A	16	20	20	20(Bar)	16	16	21	15	18	420	3.14
CPC-40A	/	/	/	40(Strands)	40	16	38	16	40	580	5.2
CPC-40FR	/	/	/	40(Strands)	40	16	38	16	40	650	6.6



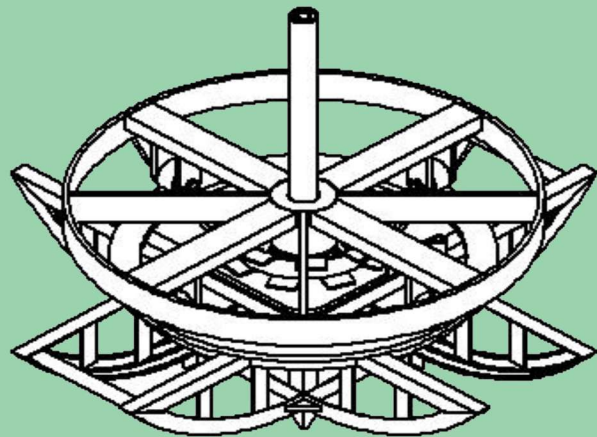
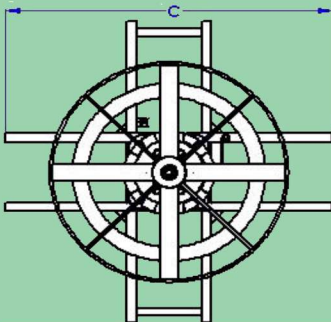
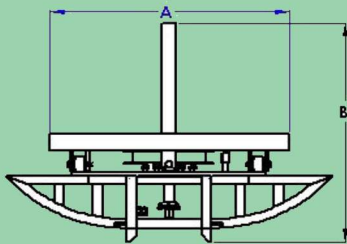
UNO ENGINEERING

THE ENGINEERS ENTERPRISES

TURN TABLE

Turn Tables are made up of welded steel with a protective coating. They are suitable for placing the conductor drum in an upright position for a smooth release of the conductor, while paying out.

Turn Table braking arrangement is provided.

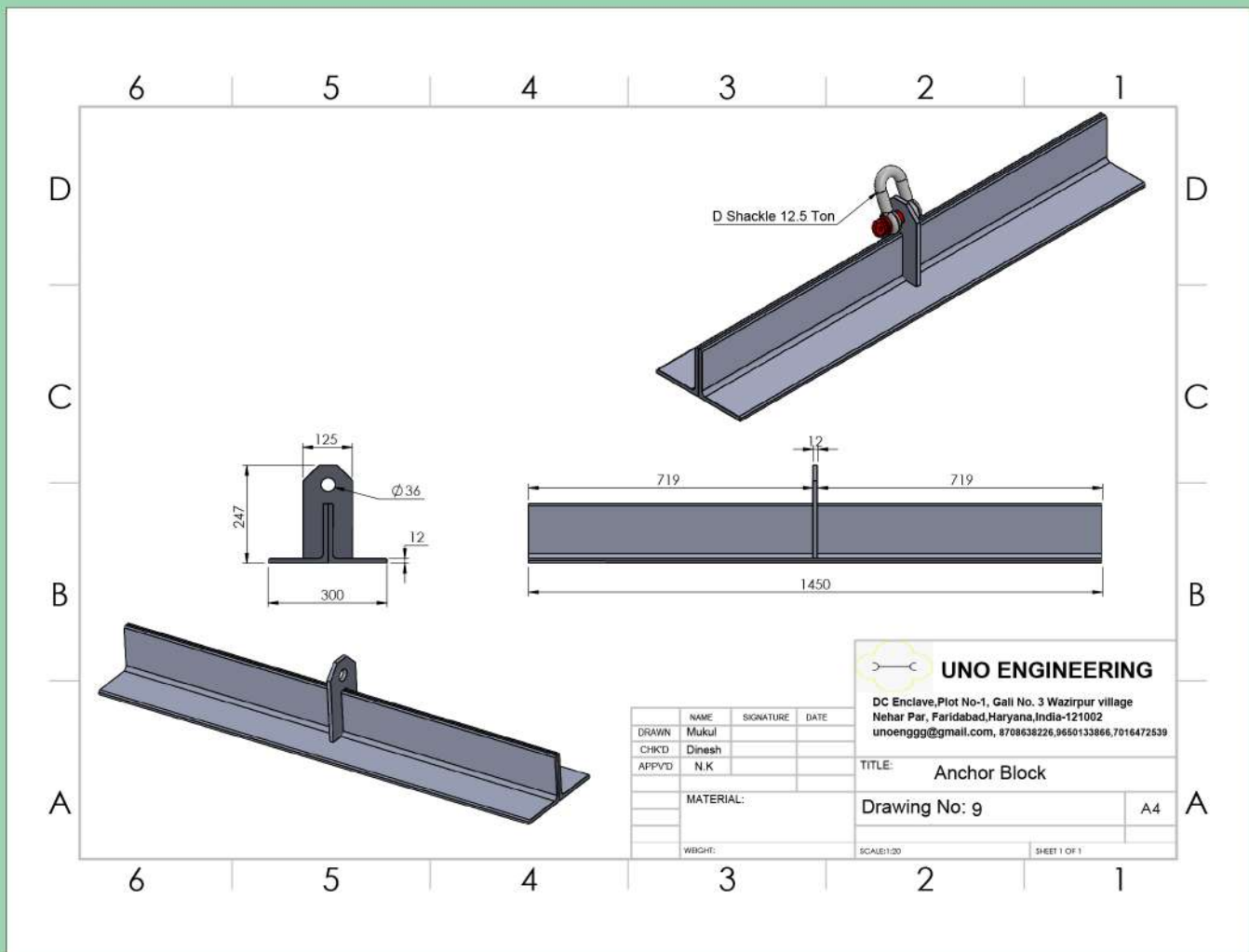


Model No.	Dimensions (mm)			Working Load (kN)	Breaking Load (kN)	Weight (Kg)
	A	B	C			
UNO.TT.05T	990	982	193	49	147	190
UNO.TT.07T	1011	261	193	74	222	260
UNO.TT.10T	1046	261	193	98	294	410

UNO ENGINEERING

THE ENGINEERS ENTERPRISES

ANCHOR BLOCK

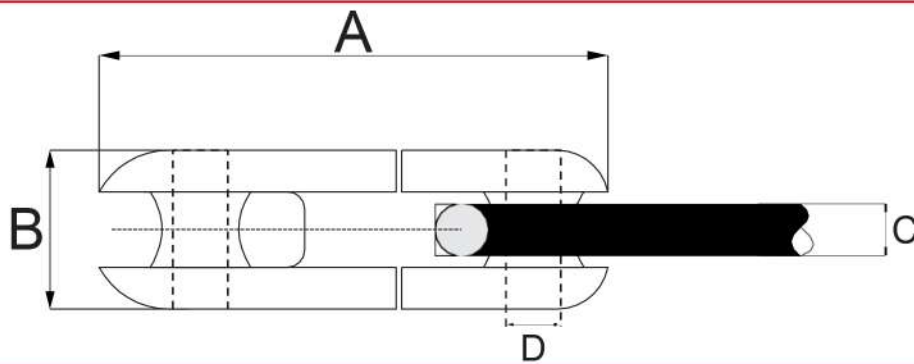


UNO ENGINEERING

THE ENGINEERS ENTERPRISES

SWIVEL JOINT

Made of high tensile steel, suitable to be used as junction element between the pulling rope and the conductor in order to avoid torsional strain accumulation, rotation on balls.



Model	Safe load	Break load	A	B	C	D	Weight
UNO-SJ36	4 Ton	12 Ton	160	37	15	13	0.9 K.G
UNO-SJ45	8 Ton	25 Ton	188	46	20	16	1.2 K.G
UNO-SJ60	20 Ton	60 Ton	256	60	25	24	3.4 K.G
UNO-SJ70	25 Ton	70 Ton	260	68	30	24	4.8 K.G

NOTE: All dimension are in mm, subject to change without notice

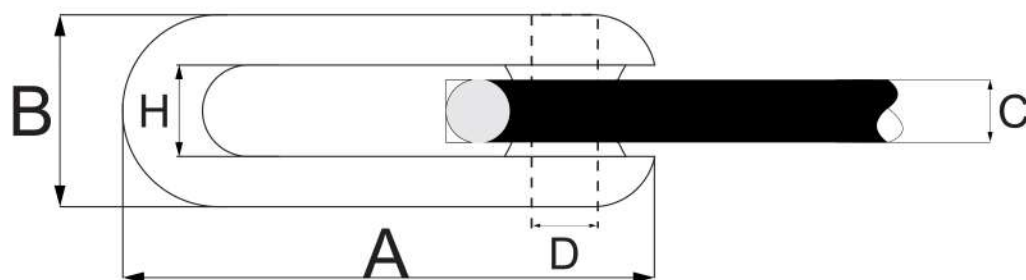


UNO ENGINEERING

THE ENGINEERS ENTERPRISES

PILOT WIRE CONNECTOR

Connect pilot rope for pulling and pass over the bull wheel on the puller.
Minimize the overload on the rope spliced eyes during the passage.



Model	Break load	A	B	C	D	H	Weight
UNO-010	11 Ton	22	41	13	13	14	0.33 K.G
UNO-030	22 Ton	100	56	18	18	20	0.75 K.G
UNO-040	36 Ton	120	60	24	22.5	26	1.100 K.G
UNO-050	60 Ton	175	76	28	32	30	3.200 K.G

NOTE: All dimensions are in mm, subject to change without notice.



7016472539, 8708638226, 9650133866



unoenggg@gmail.com



www.unoengg.com

Pandit Hariya Complex, gali No. - 2, Plot No. - 4, Near Main STP Plant, Palwali Village,
Near Govt. School Badshahpur, Faridabad - 121002, India.



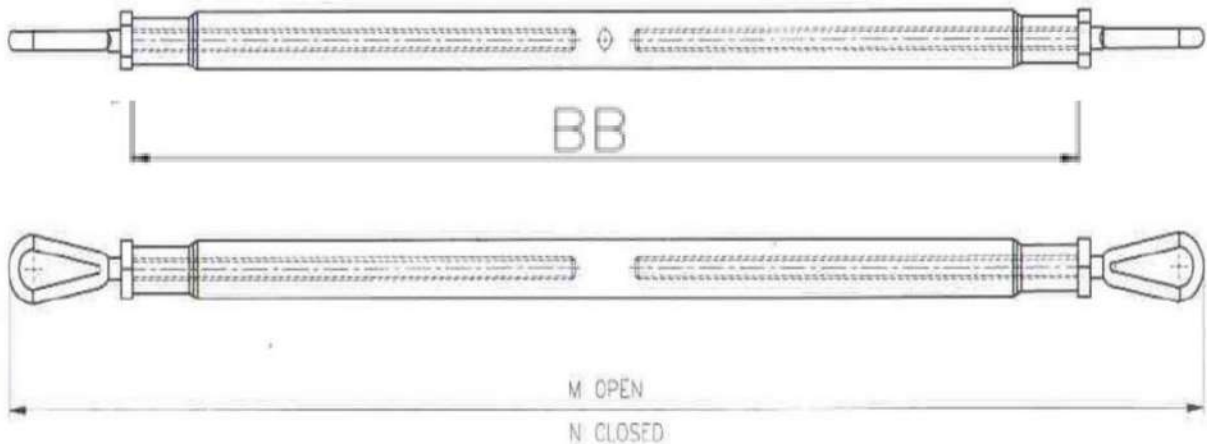
UNO ENGINEERING

THE ENGINEERS ENTERPRISES

TURN BUCKLES

- Seamless Tubes Body
- Modified Square thread on end fittings for improved fatigue properties.
- Turnbuckle eyes are forged elongated, by design, to maximize easy attachment in system and minimize stress in the eye.
- Lock nuts available for all sizes.
- Turnbuckles recommend for straight or IN -Line Pull Only.

Without Any Welding



Model	Capacity	Body BB	Open M	Close N	Break Load Ton	Weight KG
UNO-TB3	5 Ton	860	1733	1077	10	6.5
UNO-TB5	10 Ton	860	1779	1123	20	9.2
UNO-TB10	12 Ton	860	1839	1183	25	16
UNO-TB12	15 Ton	860	1845	1189	35	19

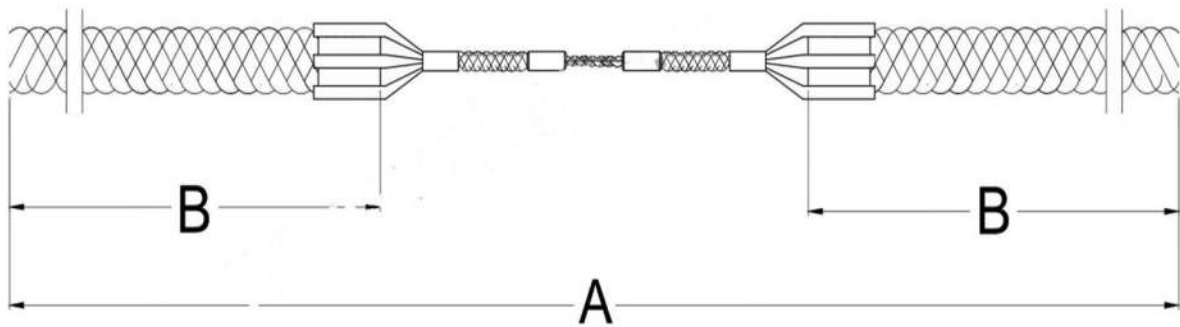
Note – All Dimensions are in mm, subject to Change without Notice.



UNO ENGINEERING

THE ENGINEERS ENTERPRISES

BOTH END OPEN CONDUCTOR SOCKS



MODEL	CONDUCTOR RANGE	OVERALL LENGTH (A)	GRIP LENGTH (B)	B.L (TON)	WEIGHT (KG)
UNO-DES -0817	08-17	2680	2220	07	03
UNO-DES -1729	17-29	3240	2720	11	04
UNO-DES -2938	29-38	3540	2940	12	06
UNO-DES -3850	38-50	4240	3650	13	08

All dimensions are in millimeters and may change without prior notice.

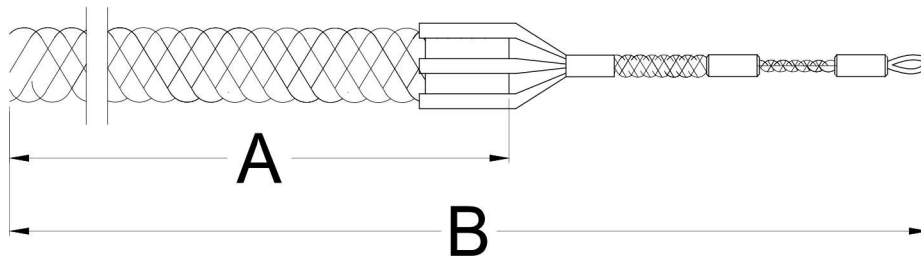


UNO ENGINEERING

THE ENGINEERS ENTERPRISES

SINGLE END - SOCKS

Head type stocking pulling grips(socks) for overhead conductors



Model	Conductors dia	Gripping Leangth	Total length	Break Load	Weight
		A	B	TON	KG
UNO-SE-08-17	08-17	1100	1400	7 TON	1 KG
UNO-SE-17-29	17-29	1360	1700	11 TON	3 KG
UNO-SE-29-38	29-38	1470	1900	12 TON	4 KG
UNO-SE-38-50	38-50	1820	2270	13 TON	5 KG

NOTE: All dimensions are in mm, subject to change without notice.

Disclaimer: The content of this Online Catalogue is provided for information only and without responsibility.

UNO ENGINEERING

THE ENGINEERS ENTERPRISES

DISCHARGE ROD 400 KV SYSTEM

Guaranteed Technical Particulars FRP Earth / Discharge Rod 400 KV System

Make	"National"
Material	Epoxy Resin Highly Insulated
Process	Manual Pressure Moulding
Surface	Smooth and Glossy
Locking	Screw Type
Design	3-Sections Push Type
Glass Content	60%
H.V Test	400 KV at CPRI-Bangalore @2009
Standard	IEC 60060
Section	3 Sections
Length of Each	72 Inch@
Assembled Length	17 Feet @
Bottom Section Dia.	40 MM X 72 Inch ($\pm 5\%$)
Middle Section Dia	40 MM X 72 Inch ($\pm 5\%$)
Top Section Dia	40 MM X 72 Inch ($\pm 5\%$)
Wall Thickness of FRP	3 MM ($\pm 5\%$)
Line Conductor Clamp	Silver Plated CU Clamp Earthing instrument suitable Up to 4" IPS Tube
Grip	Rubber Grip -2 MM thickness ($\pm 5\%$)
Colour of Stick	Off White
Weight of Rod	7.9 Kg ($\pm 5\%$)
Lugs	Copper
Cable	PVC Insulated CU Flexible Multi Stranded, Non Transparent, 16 SQ.mm, 1-Core, 9.0 mtr
Grounding Clamp	Grounding Brass "C" Clamp
M S Parts	Galvanized
Hex Nut & Bolt	Size: 60 mm X 6 mm
Insulation	Class "F" Insulation epoxy
IS	2071 (Part-1) 1993



UNO ENGINEERING

THE ENGINEERS ENTERPRISES

SAG PLATE



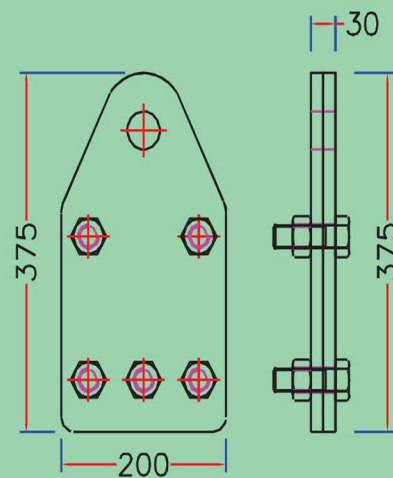
Technical Specification

Body : Mild Steel

Coating : Epoxy primer and thereafter enamel painted.

Safe Working Load : 5 Ton.

Weight : 10.25 Kg. & 9.70 Kg.



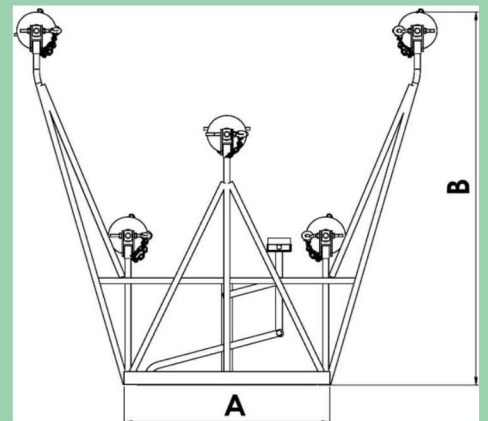
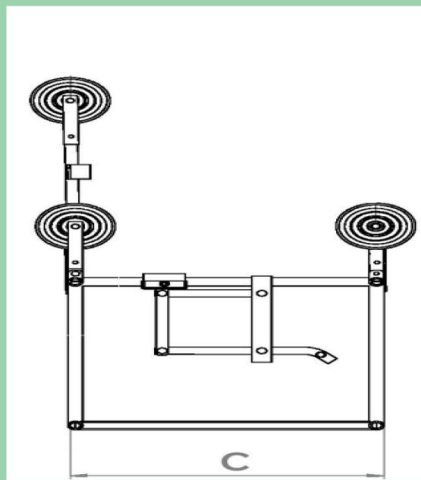
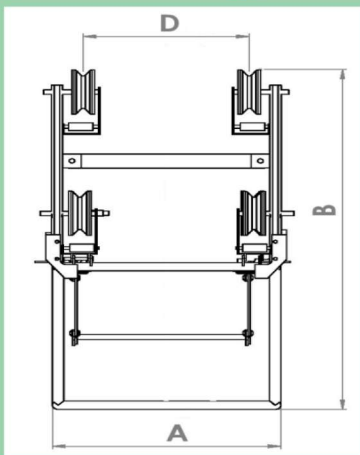
UNO ENGINEERING

THE ENGINEERS ENTERPRISES

SPACER TROLLEY

Inspection line trolley fit for 2-4-6 bundle conductor lines is made of MS structure with Nylon sheaves mounted on ball bearing.

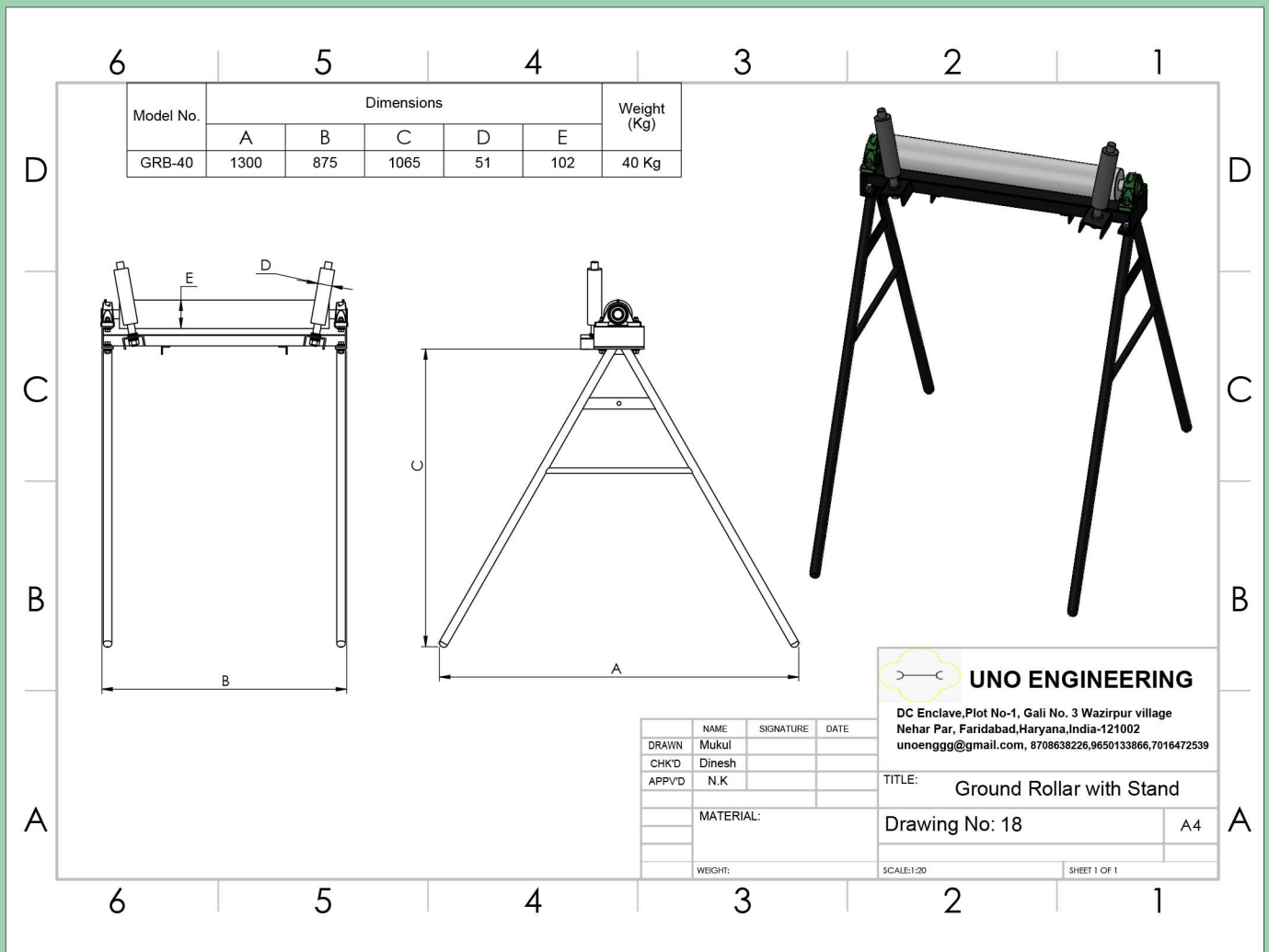
Model No.	Line Type	Length (A)	Height (B)	Width (C)	Weight
UNO.ST.2	TWIN	610	710	630	38 Kg
UNO.ST.4	QUAD	610	1228	630	44 Kg
UNO.ST.6	HEXA	766	1444	1080	100 Kg



UNO ENGINEERING

THE ENGINEERS ENTERPRISES

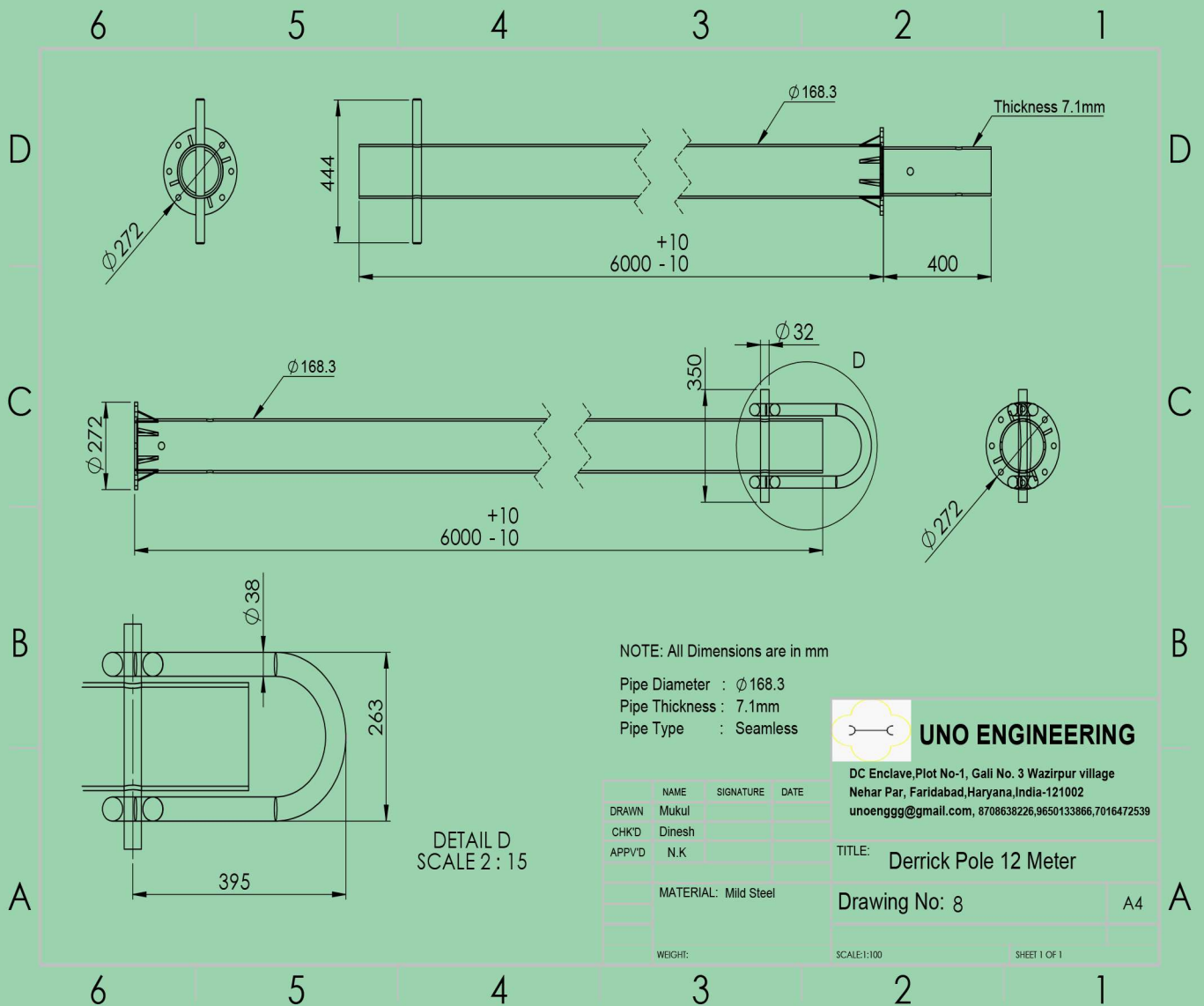
GROUND ROLLER WITH STAND



UNO ENGINEERING

THE ENGINEERS ENTERPRISES

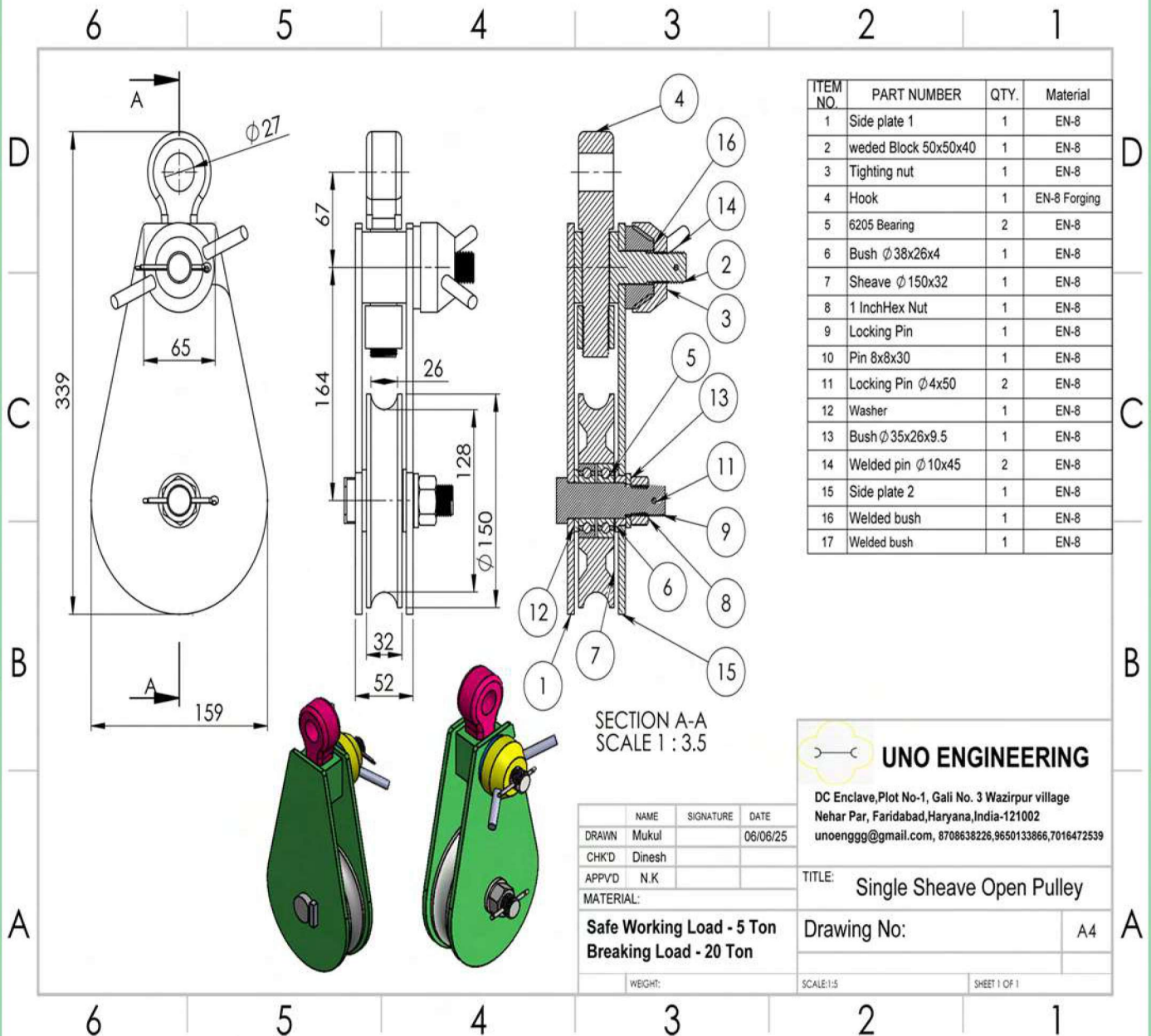
DERRICK POLE-12MTR



UNO ENGINEERING

THE ENGINEERS ENTERPRISES

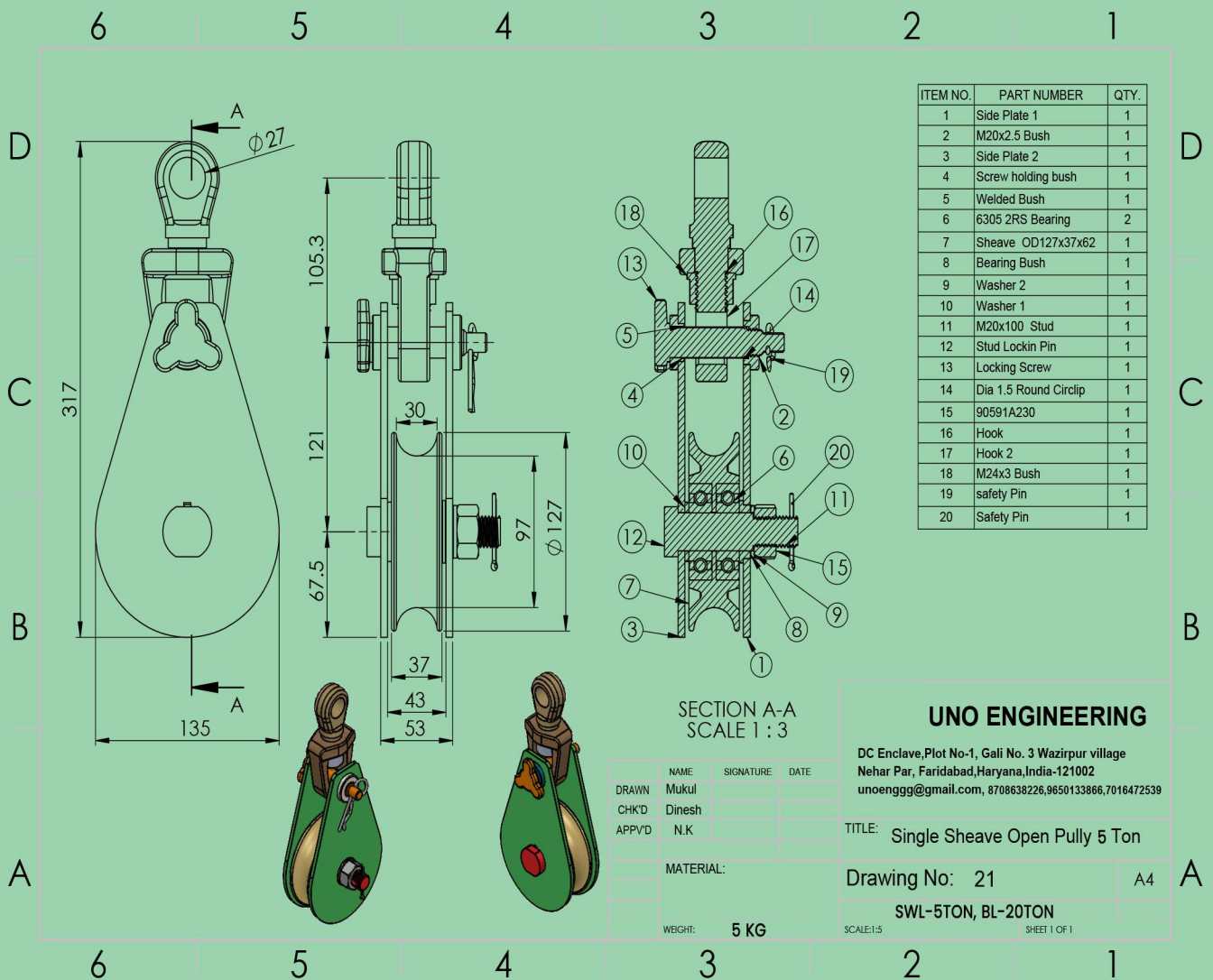
SINGLE SHEAVE OPEN PULLEY MODEL - SSPO-1



UNO ENGINEERING

THE ENGINEERS ENTERPRISES

SINGLE SHEAVE OPEN PULLEY MODEL - SSPO-2



7016472539, 8708638226, 9650133866



unoenggg@gmail.com



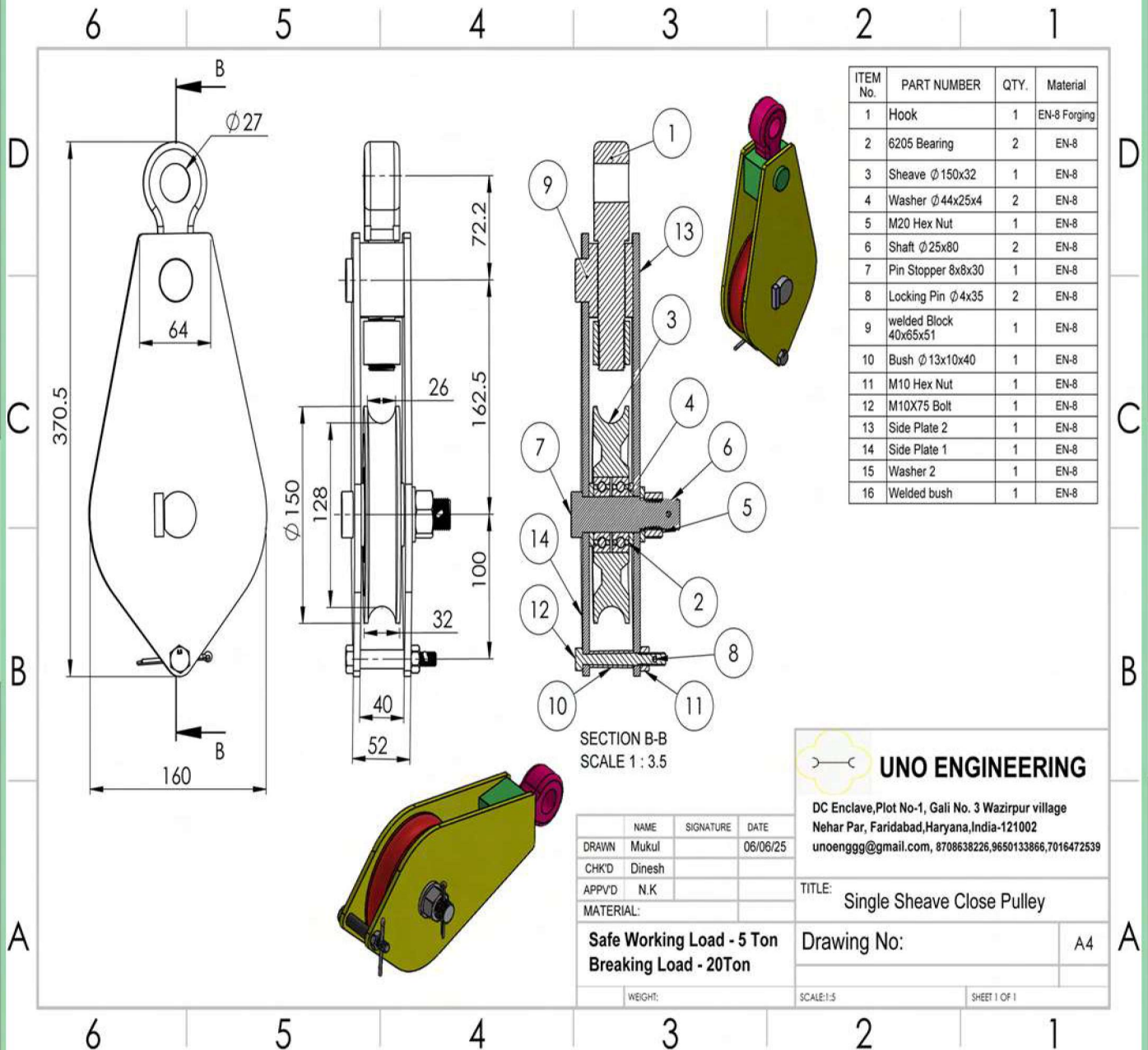
www.unoenggg.com

Pandit Hariya Complex, gali No. - 2, Plot No. - 4, Near Main STP Plant, Palwali Village,
Near Govt. School Badshahpur, Faridabad - 121002, India.

UNO ENGINEERING

THE ENGINEERS ENTERPRISES

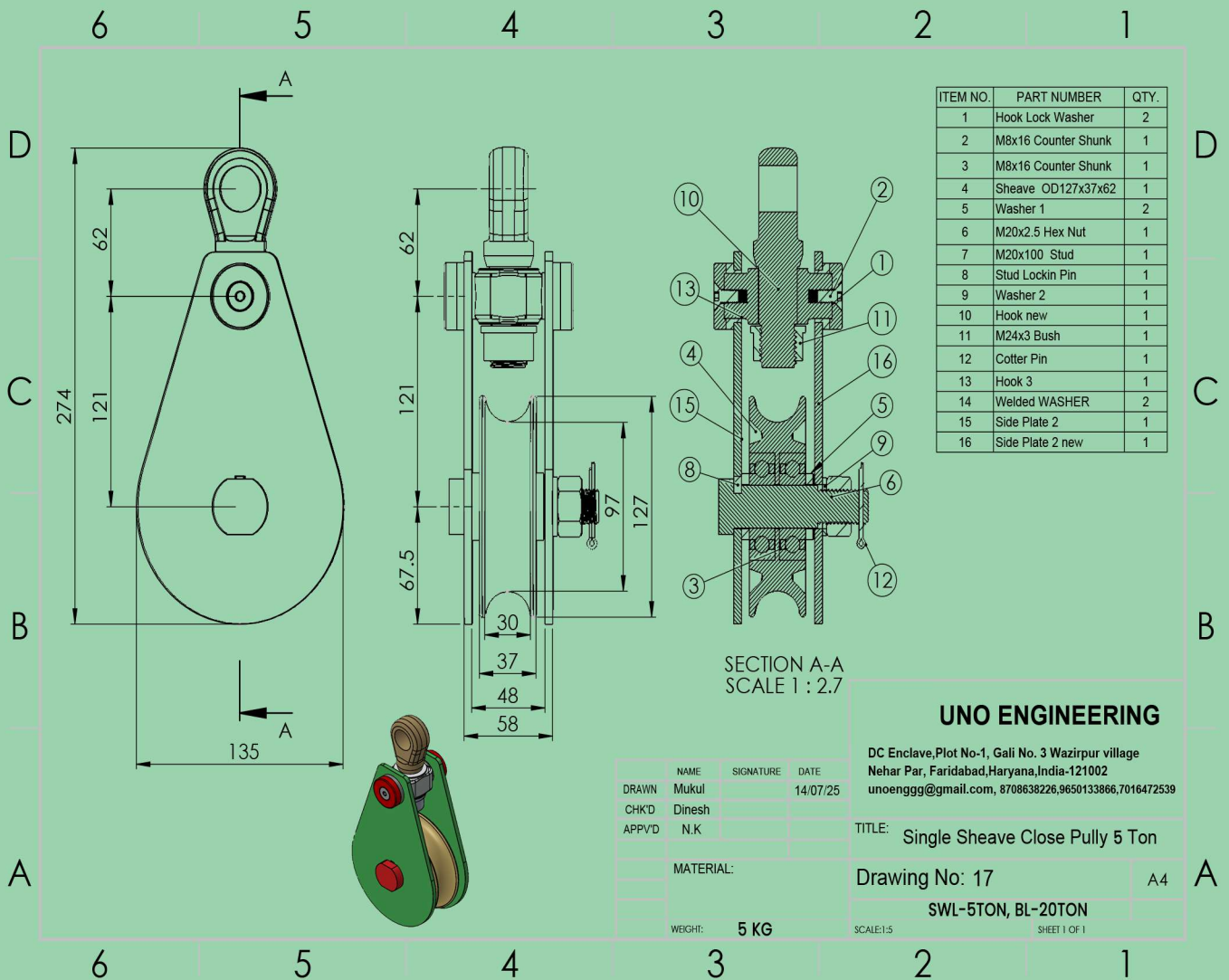
SINGLE SHEAVE CLOSE PULLEY MODEL - SSPC-01



UNO ENGINEERING

THE ENGINEERS ENTERPRISES

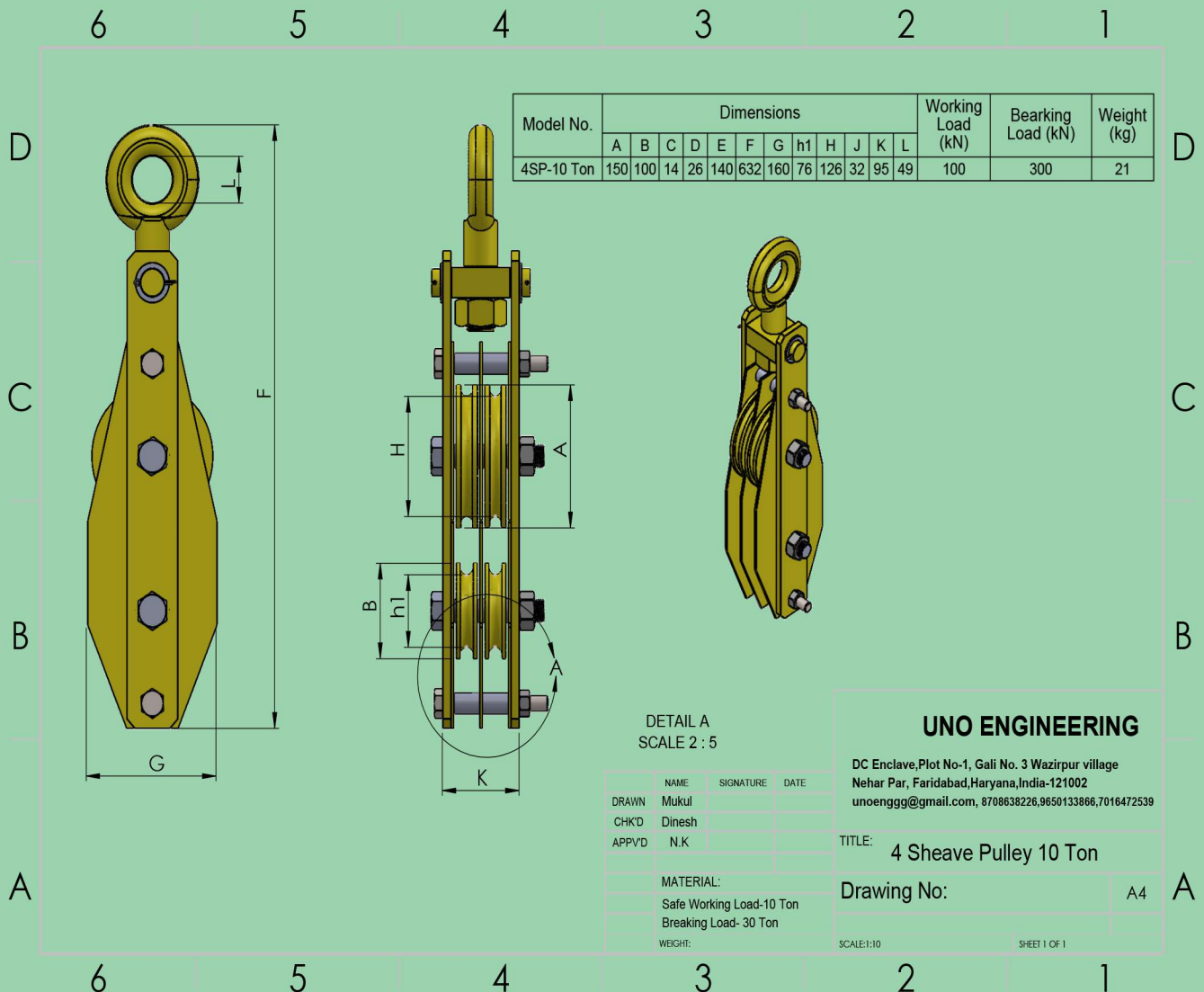
SINGLE SHEAVE CLOSE PULLEY MODEL - SSPC-02



UNO ENGINEERING

THE ENGINEERS ENTERPRISES

FOUR SHEAVE PULLEY



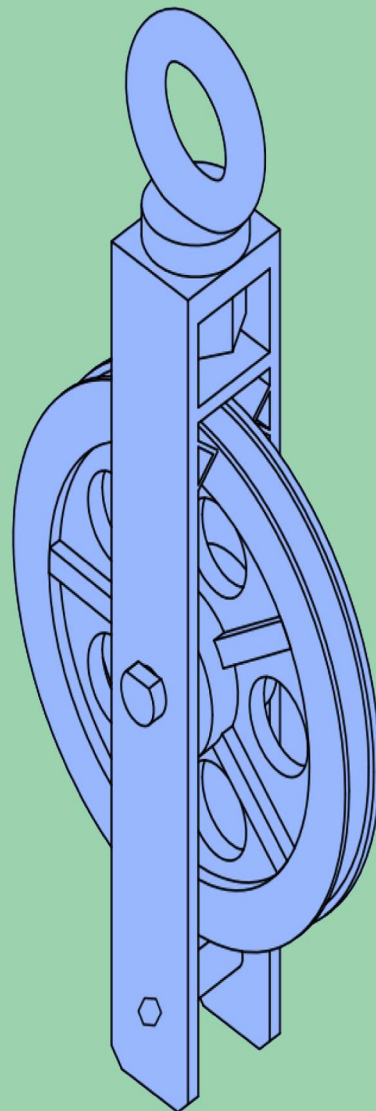
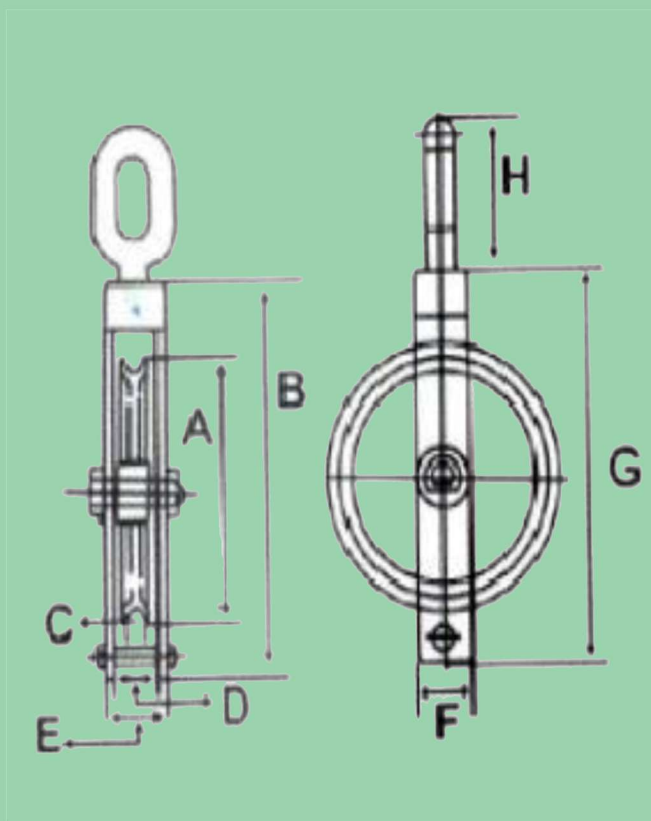
UNO ENGINEERING

THE ENGINEERS ENTERPRISES

EQUILIZER PULLEY

Equilizer Pulleys are suitable for adjusting uniform spacing between the conductors.

It is made up of cast alloy steel with closed eye attachment.

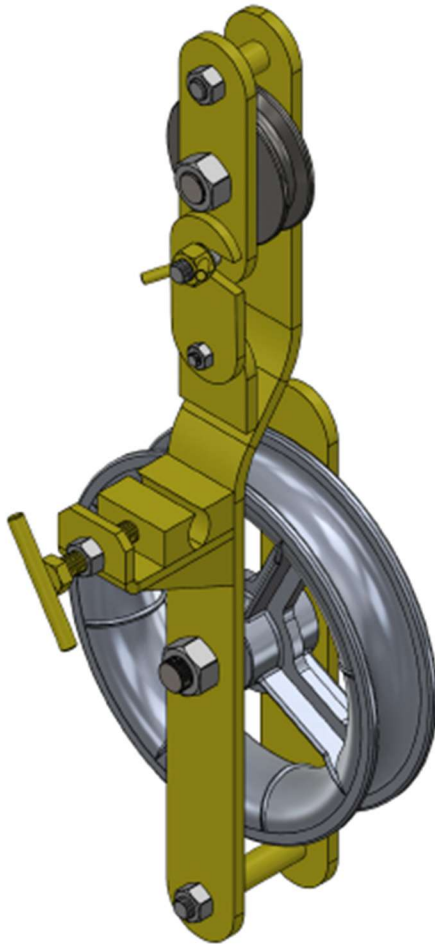


Model No.	Dimensions (mm)								Working Load (kN)	Breaking Load (kN)	Weight (Kg)
	A	B	C	D	E	F	G	H			
UNO.EP.10T	325	675	20	60	90	70	480	150	100	300	22

UNO ENGINEERING

THE ENGINEERS ENTERPRISES

S ROLLER



S -TYPE ROLLERS ARE USED DURING STRINGING OF SINGLE CONDUCTOR. THE ROLLERS ARE MADE UP OF ALUMINUM ALLOY & GROOVES ARE LINED WITH NEOPRENE RUBBER FLAP. THE ROLLER ROLLS ON BALL BEARING. THE FRAMES ARE FABRICATED FROM ALLOY STEEL.CAPACITY UP TO 2.5 TON

UNO ENGINEERING

THE ENGINEERS ENTERPRISES

MARKING ROLLER – 300 / 400 MM



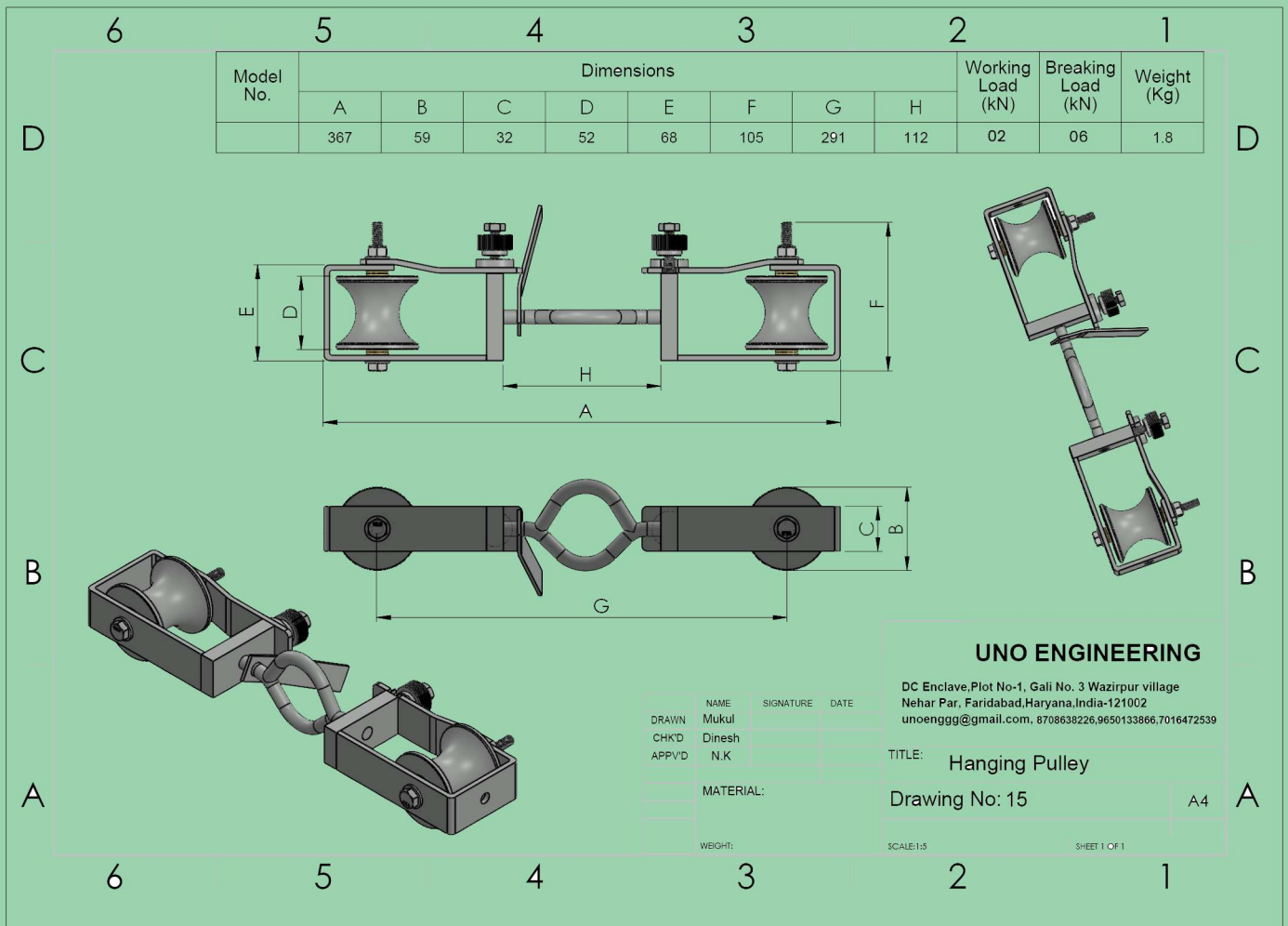
HEAVY-DUTY ROLLER DESIGNED FOR GUIDING AND SUPPORTING CONDUCTORS DURING STRINGING OPERATIONS.

MADE WITH ROBUST STEEL FRAME AND ALLOY/METALLIC PULLEY FOR DURABILITY AND SMOOTH OPERATION.

UNO ENGINEERING

THE ENGINEERS ENTERPRISES

HANGING PULLEY



7016472539, 8708638226, 9650133866



unoenggg@gmail.com



www.unoenggg.com

Pandit Hariya Complex, gali No. - 2, Plot No. - 4, Near Main STP Plant, Palwali Village,
 Near Govt. School Badshahpur, Faridabad - 121002, India.

UNO ENGINEERING

THE ENGINEERS ENTERPRISES

RUNNING EARTH ROLLER



PRODUCTS SPECIFICATIONS

The UNO Running Earth clamp is designed specifically for earthing line conductors during stringing operations. The UNO Running Earth enables the cable to run freely between contact roller faces whilst providing a positive contact to earth.

The earth is anchored to a convenient position using the lanyard locating hole. The maximum size of a conductor that can be accommodated is 42mm. The UNO has a short circuit rating of 18kA/1s and a continuous current rating of 300A.

Breaking Load – 15 kN.

UNO ENGINEERING

THE ENGINEERS ENTERPRISES

AERIAL ROLLER (300MM & 400MM)

The sheave are made of aluminium alloy mounted on ball bearing. The groove is lined by Rubber Ring. The frame are made of Mild Steel.

Technical Specification

Frame : Mild Steel.

Motion : Ball Bearing.

Coating : Epoxy primer and thereafter enamel painted.

Safe working load : 3 Ton.

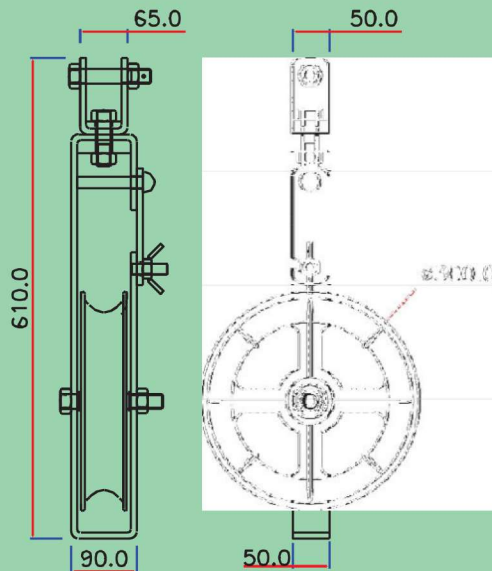
Weight : 15.7 Kg. & 8.8 Kg.



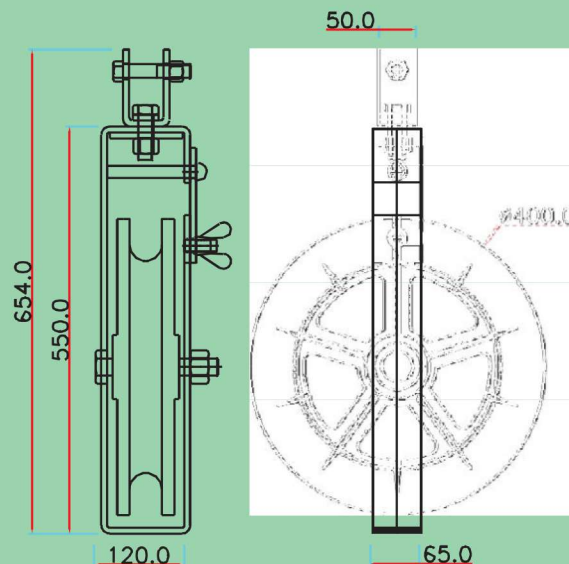
300 mm



400 mm



300 mm



400 mm



7016472539, 8708638226, 9650133866



unoenggg@gmail.com



www.unoengg.com

Pandit Hariya Complex, gali No. - 2, Plot No. - 4, Near Main STP Plant, Palwali Village,
Near Govt. School Badshahpur, Faridabad - 121002, India.

UNO ENGINEERING

THE ENGINEERS ENTERPRISES

FIVE SHEAVE AERIAL ROLLER

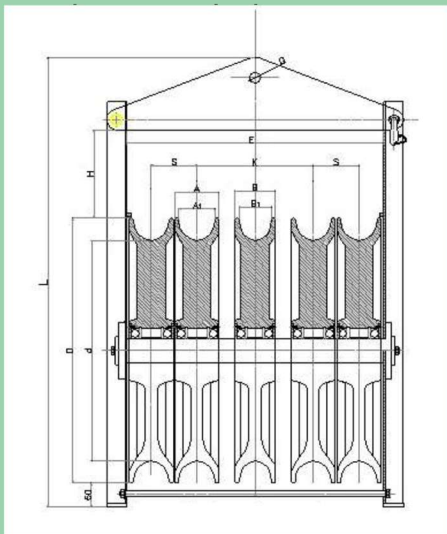
APPLICATION: Five sheave aerial roller (stringing block or running out block) is used for stringing of 4 / 5 bundle overhead power transmission line. The central sheave mounted on thrust bearings can be made either from nylon or from cast steel while other lateral sheaves mounted on ball bearings are of nylon. The frames are made from galvanized steel C-section. The sizes, K and S can be custom-made against client's request instead of regular ones as per the table below; Please mention these sizes which need to be irregular when raising inquiry or placing order.

SPECIFICATIONS:

Model No.	Dimensions (mm)											SWL/ B.L. /P.L. (kN)	Mass (kg)
	A1	A	B1	B	d	D	S	K	H	L	E		
05401000	78	100	78	100	408	508	104	208	200	908	530	50 / 150 / 75	75
05561000 / 2	78	100	78	100	560	660	104	208	215	1110	532	60 / 180 / 90	112/140
05561100 / 2	78	100	88	110	560	660	104	218	215	1110	542	60 / 180 / 90	115/145
05561110 / 2	88	110	88	110	560	660	114	228	215	1110	582	60 / 180 / 90	121/153
05561120 / 2	98	120	88	110	560	660	124	238	215	1110	622	65 / 195 / 97	128/160
05641110 / 2	88	110	88	110	640	750	114	228	230	1220	582	70 / 210 / 105	135/170
05691150 / 2	94	115	92	115	693	800	120	240	250	1290	615	100 / 280 / 150	170/210
05711110 / 2	88	110	88	110	710	822	115	230	250	1312	586	100 / 280 / 150	175/220
05711220	98	120	98	120	710	822	125	250	250	1312	640	110 / 308 / 165	182
05801100 / 2	88	110	88	110	800	916	115	230	260	1426	586	120 / 336 / 180	200/250
05801220 / 2	98	120	98	120	800	916	125	250	260	1426	640	130 / 365 / 195	220/270
05901250 / 2	104	125	104	125	900	1040	130	260	300	1580	669	150 / 420 / 225	270/340
05001440	120	140	120	140	100	1160	146	292	300	1800	748	160 / 450 / 240	356

Note 1: The suffix '0' in the model no. indicates all sheaves are of nylon while '2' stands for that central sheave is of cast steel and all other lateral sheaves are of nylon.

Note 2: Suspension accessory, like shackle and link plates of various shapes and sizes can be supplied along with the aerial rollers upon request.



7016472539, 8708638226, 9650133866



unoenggg@gmail.com



www.unoengg.com

Pandit Hariya Complex, gali No. - 2, Plot No. - 4, Near Main STP Plant, Palwali Village,
Near Govt. School Badshahpur, Faridabad - 121002, India.

UNO ENGINEERING

THE ENGINEERS ENTERPRISES

SINGLE SHEAVE AERIAL ROLLER- NYLON

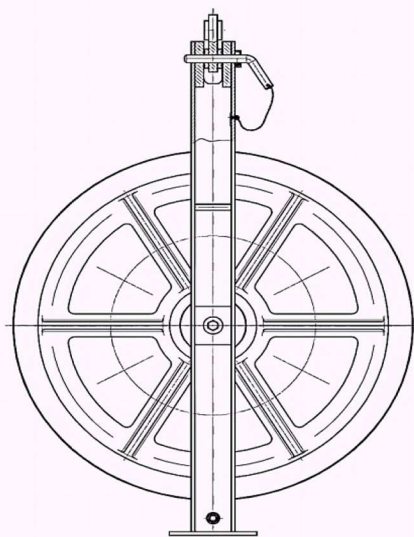
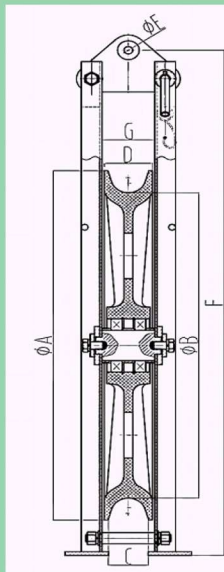
APPLICATION: Mounted on ball bearings, the single nylon (nylatron) sheave aerial roller (also called ROB or stringing block or pulley block) is used for the stringing of overhead single conductor (ACSR, AAAC, ACAR, etc.), OPGW and GSW / ACS earth wire as well.

Small sized ones with wear-proof nylatron sheave are more suitable and recommendable for the stringing of GSW/ACS earth wire.

There are different suspension arrangements available for the pulley block, namely, swivel clevis and fixed clevis with shackle; Extra grounding device can also be supplied at customers' request.

SPECIFICATIONS

Model No.	Max. Applicable Diameter (mm)			Main Dimensions (mm):							SWL/BL/PL (kN)	Mass (kg)
	ACSR etc.	OPGW	GSW / ACS	A	B	C	D	E	F	G		
01200600	25.2	n/a	16.0	270	200	42	60	21	470	70	15 / 45 / 23	6
01240800	26.9	8.5	17.0	320	240	62	80	21	520	90	20 / 60 / 30	10
01310800	28.0	11.5	18.0	400	314	62	80	21	610	90	20 / 60 / 30	13
01350800	29.1	12.5	20.0	440	350	62	80	21	640	90	20 / 60 / 30	14
01401000	30.9	14.0	n/a	508	408	78	100	23	780	112	20 / 60 / 30	22
01450950	n/c	16.0	18.0	560	450	75	95	23	832	107	20 / 60 / 30	23
01561000	32.0	18.0	n/a	660	560	78	100	23	932	112	20 / 60 / 30	33
01561100	32	18	N/A	660	560	88	110	23	932	122	20/60/30	34
01641100	35.6	19.0	n/a	750	640	88	110	23	1022	122	30 / 60 / 45	37
01691150	36.2	20.0	n/c	800	693	92	115	23	1075	130	33 / 99 / 50	43
01711100	38.4	21.0	n/c	822	710	88	110	23	1100	124	40 / 120 / 60	47
01801100	42.0	22.0	n/c	916	800	88	110	25	1200	126	45 / 135 / 68	50
01801200	43.0	22.0	n/c	916	800	98	120	25	1200	136	48 / 144 / 72	55
01901250	48.0	24.0	n/c	1040	900	103	125	25	1350	145	50 / 150 / 75	63
01001240	48.0	26.0	n/c	1160	1000	102	124	25	1380	145	50 / 150 / 75	68



7016472539, 8708638226, 9650133866



unoenggg@gmail.com



www.unoengg.com

Pandit Hariya Complex, gali No. - 2, Plot No. - 4, Near Main STP Plant, Palwali Village,
Near Govt. School Badshahpur, Faridabad - 121002, India.

UNO ENGINEERING

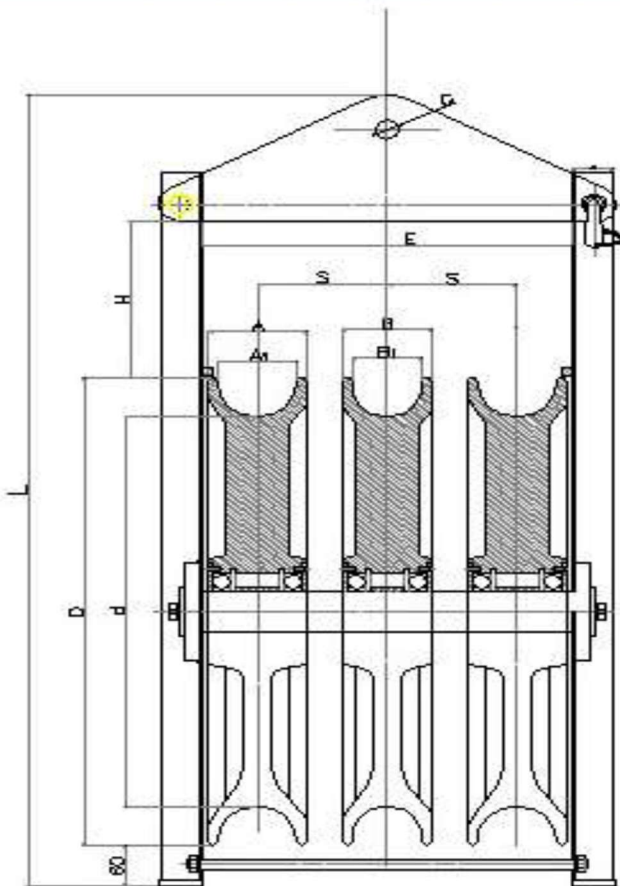
THE ENGINEERS ENTERPRISES

THREE NYLON SHEAVE AERIAL ROLLER

APPLICATION: Three sheave aerial roller (or stringing block or running out block) is used for stringing of twin bundle / triple bundle overhead power transmission line. The central sheave can be made either from MC nylon or even cast steel while the lateral sheaves for conductor are both made from MC nylon (polyamide). Frames are made from galvanized steel C-channel; The sizes, S and E can be custom-made against client's request.

SPECIFICATIONS: ALL NYLON SHEAVES (Model No. ends with '0')

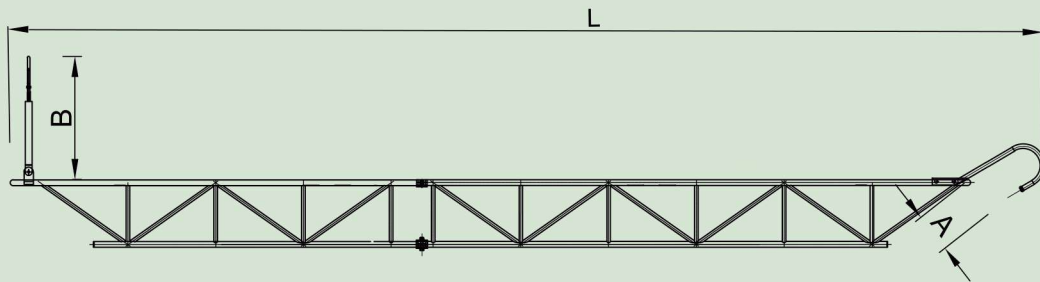
Model No.	Dimensions (mm)											SWL/ B.L./P.L. (kN)	Mass (kg)
	A1	A	B1	B	d	D	S	E	H	L	G		
03401000	78	100	78	100	408	508	104	322	200	888	23	40 / 120 / 60	52
03561000	78	100	78	100	560	660	104	324	210	1090	23	50 / 150 / 75	76
03561100	88	110	88	110	560	660	114	354	210	1090	23	50 / 150 / 75	83
03641100	88	110	88	110	640	750	114	354	250	1225	25	60 / 180 / 90	93
03691150	93	115	93	115	693	800	120	366	250	1280	25	65 / 195 / 98	102
03711100	88	110	88	110	710	822	115	356	250	1302	25	70 / 220 / 105	115
03711200	98	120	98	120	710	822	125	386	260	1336	30	75 / 225 / 113	122
03801100	88	110	88	110	800	916	115	356	270	1446	30	75 / 225 / 113	123
03801200	98	120	98	120	800	916	125	386	270	1440	30	80 / 240 / 120	128
03901250	104	125	104	125	900	1040	130	405	280	1570	34	100 / 300 / 150	200



UNO ENGINEERING

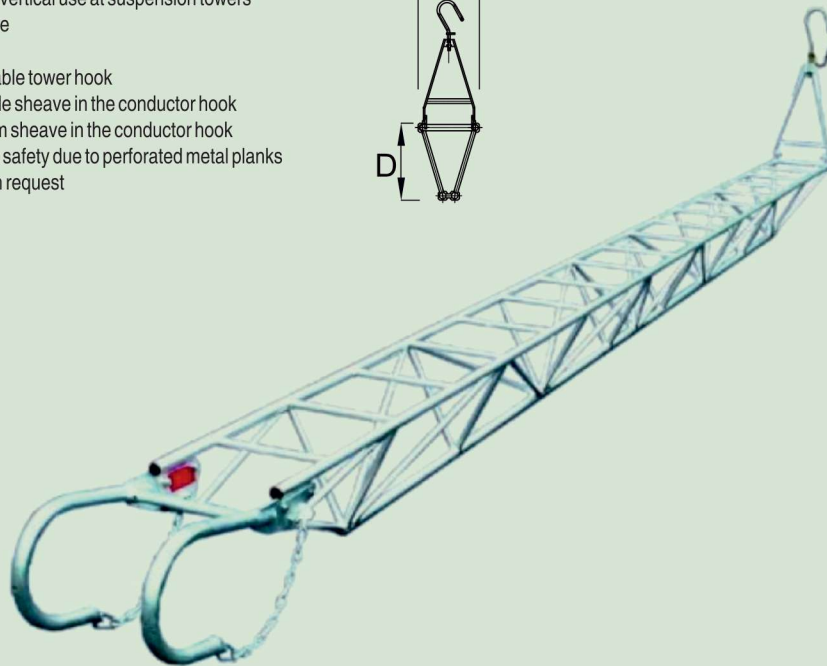
THE ENGINEERS ENTERPRISES

ANCHORING LADDER



TENSIONING PLATFORM (2 kN)

- For horizontal and vertical use at suspension towers
- Triangular structure
- Optional**
 - Foldable and turnable tower hook
 - Turnable polyamide sheave in the conductor hook
 - Turnable aluminum sheave in the conductor hook
 - Additional anti-slip safety due to perforated metal planks
 - Special designs on request



Model No.	Total Length (L in Mtr.)	Central Sections	Working Load (KN)		Dimension (mm)				Mass Kg
			Horizontal	Vertical	A	B	C	D	
UNO-AAL/03	3	1	3	3	245	900	320	350	32
UNO-AAL/05	5	2	3	3	245	900	320	350	38
UNO-AAL/06	6	2	3	3	245	900	320	350	43
UNO-AAL/08	8	2	3	3	245	900	320	350	48



7016472539, 8708638226, 9650133866



unoenggg@gmail.com



www.unoengg.com

Pandit Hariya Complex, gali No. - 2, Plot No. - 4, Near Main STP Plant, Palwali Village,
Near Govt. School Badshahpur, Faridabad - 121002, India.

UNO ENGINEERING

THE ENGINEERS ENTERPRISES

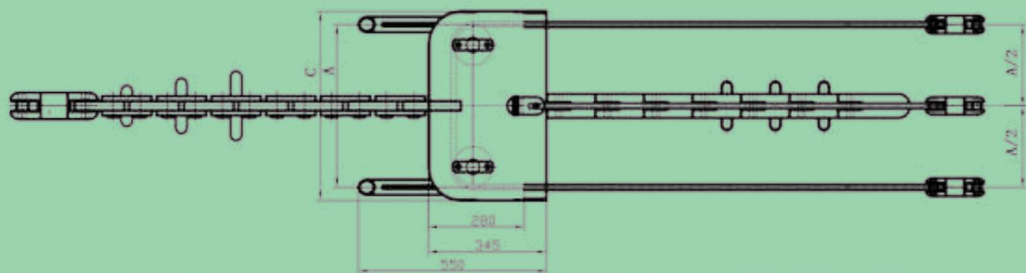
HEAD BOARD FOR TWIN CONDUCTOR

APPLICATION: Head (Running) board is specially designed to connect pulling rope and bundled conductors in stringing of overhead power transmission line. The following ones are intended for the stringing of 2/3 bundled conductors; they can also be classified into 2 types, balancing and fixed.

The spacing of it, A is designed to be compatible with the aerial rollers or can be custom-designed and made as per user's demand.

SPECIFICATIONS: BALANCING TYPE

Model No.	Inclusions	SWL/ B.L. (kN)	Phase Type	Dimensions (mm)			Mass (kg)
				A	C	D	
66280805	1 no.8 ton cap. swivel joint + 2 nos. 5 ton cap. swivel joint + 20m rope (15 mm dia.) length for 2 bundle	80 / 240	2	$\geq$ 208	$\geq$ 263	160	90
66281205	1 no.13 ton cap. swivel joint+ 2 nos. 5 ton cap. Swivel joint + 20m rope (15 mm dia.) length for 2 bundle	120 / 360	2	$\geq$ 208	$\geq$ 275	160	100
66281308	1 no.15 ton cap. swivel joint + 2 nos. 8 ton cap. swivel joint + 20m rope (18 mm dia.) length for 2 bundle	130 / 390	2	$\geq$ 208	$\geq$ 287	170	115
66281608	1 no.18 ton cap. swivel joint + 2 nos. 8 ton cap. swivel joint + 20m rope (20 mm dia.) length for 2 bundle	160 / 480	2	$\geq$ 228	$\geq$ 310	170	135



Balancing Head Board for 2/3 Bundle Conductor



7016472539, 8708638226, 9650133866



unoenggg@gmail.com



www.unoengg.com

Pandit Hariya Complex, gali No. - 2, Plot No. - 4, Near Main STP Plant, Palwali Village,
Near Govt. School Badshahpur, Faridabad - 121002, India.

UNO ENGINEERING

THE ENGINEERS ENTERPRISES

PILOT WIRE MOUNTING STAND

APPLICATIONS: The reel stand made of welded steel tubes, is used to support & lift the steel tubular reel wound with steel rope so as to provide required ground clearance during payout operation or winding operation of steel rope. One side disc brake is provided

SPECIFICATIONS:

Model No.	Dimensions (L x W x H in mm)	Mass (Kg)	Applicable Reel Size (flange dia. in mm)
60085100	1750X600X650	40	850-1000
60110140	2100x800x890	81	1100-1400
60140160	2300X800X100	100	1400-1600

L=length; W= traverse width ; H=height



UNO ENGINEERING

THE ENGINEERS ENTERPRISES

PLATEENA ROPE



THE LONG-DISTANCE RUNNER
ULTIMATE BREAKING FORCE
FLOATS ON WATER
SIMPLY STRONG

Features HMPE Rope:

- Core of the rope is 1/7th of the weight of comparable steel wire ropes & after protective jacketing is still 1/5th of the steel wire rope.
- No corrosion or soiling caused by rope grease.
- No risk of injury, easy and quick handling.
- Rope much more Flexible than the Anti twist steel wire rope.
- Highly abrasion resistant, when provided with a cover.
- The kinetic energy unleashed when damage to the rope occurs is significantly lower than with steel wire ropes.
- It is very handy specially in monsoon as it doesn't damage the field.
- Safer and easier to handle as compared to Anti Twist steel wire rope.



SPECIFICATIONS :

DIAMETER OF THE ROPE	DIAMETER OF THE HMPE CORE	EQUIVALENT ANTI TWIST SWR	KOHINOOR POWER ROPE KG/1000 MTR	EQUIVALENT ANTI TWIST SWR KG/1000 MTR	KOHINOOR POWER ROPE BS-KGF	EQUIVALENT ANTI TWIST SWR BS-KGF
6	4	6	23.9	110	2600	2240
8	6	8	37.3	220	4400	4280
10	8	10	54.04	350	6500	6940
12	10	12	81.6	490	10000	9180
14	12	14	141.8	610	14000	11930
16	14	16	157.7	840	18500	16320
18	16	18	211.3	1060	21500	22950
20	18	20	293.5	1240	29500	26720
22	20	22	319.8	1760	38000	38250
24	22	24	398.7	1980	46000	41720
26	24	26	477.64	2330	54000	48850



7016472539, 8708638226, 9650133866



unoenggg@gmail.com



www.unoengg.com

Pandit Hariya Complex, gali No. - 2, Plot No. - 4, Near Main STP Plant, Palwali Village,
Near Govt. School Badshahpur, Faridabad - 121002, India.

UNO ENGINEERING

THE ENGINEERS ENTERPRISES

PP ROPE



ROPE SPECIFICATIONS

Diameter		Circumference	Weight/220 Mtrs. Coil (Kgs)	Breaking Strength (KGF)	Runnage (Mtrs./Kgs)
(mm)	(Inch)	(Inch)			
4	5/32"	1/2"	1.59	285	138.31
6	1/4"	3/4"	3.58	611	61.34
8	5/16"	1"	6.36	1019	34.60
10	3/8"	1.1/4"	9.94	1529	22.12
12	1/2"	1.1/2"	14.32	2161	15.36
14	9/16"	1.3/4"	19.49	2855	11.28
16	5/8"	2"	25.52	3823	8.62
18	3/4"	2.1/4"	32.12	4588	6.84
20	13/16"	2.1/2"	39.82	5710	5.52
22	7/8"	2.3/4"	48.18	6832	4.56
24	1"	3"	57.20	8157	3.84
26	1.1/12"	3.1/4"	67.32	9177	3.26
28	1.1/8"	3.1/2"	77.88	10808	2.82
30	1.1/4"	3.3/4"	89.54	12032	2.45
32	1.5/16"	4"	101.86	13460	2.15
36	1.7/16"	4.1/2"	128.92	17335	1.70
40	1.5/8"	5"	159.06	20394	1.38
44	1.3/4"	5.1/2"	192.50	25492	1.14
48	2"	6"	228.80	28551	0.96

Users/Sectors



Transport Sector



Power Transmission



Industrial Safety applications



Fishing Industry



Shipping Sector



Among Many More...



HIGH BREAKING STRENGTH



UV STABILIZED



HIGHLY DURABLE



GOOD ABRASION RESISTANCE

IRTECH Specifications

Size	Dia. (mm)	Dia. (inch)	Circm. (inch)	Weight 220 Mtrs. in Kgs	Breaking Strength (Kgf)	Runnage in Mtrs./kg
4		5/32	1/2	1.63	214	135.00
6		1/4	3/4	3.67	602	60.00
8		5/16	1	6.60	1060	33.30
10		3/8	1.1/4	10.00	1560	22.00
12		1/2	1.1/2	14.50	2210	15.20
14		9/16	1.3/4	20.00	3050	11.00
16		5/8	2	25.50	3770	8.60
18		3/4	2.1/4	32.50	4810	6.80
20		13/16	2.1/2	40.00	5800	5.50
22		7/8	2.3/4	48.50	6960	4.50
24		1	3	57.00	8130	3.90
28		1.1/8	3.1/2	78.00	10700	2.80
30		1.1/4	3.3/4	89.00	12220	2.40
32		1.5/16	4	101.00	13500	2.20
36		1.7/16	4.1/2	129.00	16930	1.70
40		1.5/8	5	158.00	20500	1.40
44		1.3/4	5.1/2	194.00	24640	1.13
48		2	6	229.00	28610	0.96



7016472539, 8708638226, 9650133866



unoenggg@gmail.com



www.unoenggg.com

Pandit Hariya Complex, gali No. - 2, Plot No. - 4, Near Main STP Plant, Palwali Village, Near Govt. School Badshahpur, Faridabad - 121002, India.

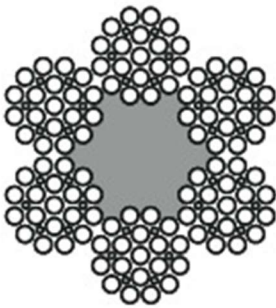
UNO ENGINEERING

THE ENGINEERS ENTERPRISES

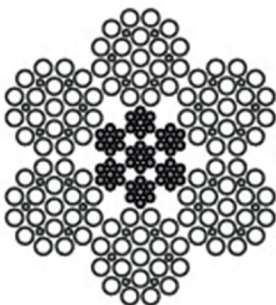
STEEL WIRE ROPE

6x19+Core

Wire Rope Filler



6 (1+6+6p+12)+FC



6 (1+6+6p+12)+IWRC

Application

Drag Hoist Ropes
Shovels, Pile Drivers
General Engineering
Purposes, Oil Drilling Sets

Standard

EN 12385; API SPEC 9A



Nominal rope diameter	Unit weight of the rope	Calculated Breaking load by a nominal tensile strength of the wire		
		1570 N/mm ²	1770 N/mm ²	1960 N/mm ²
mm	kg/m	kN		
6	0.115	16.9	19.1	21.1
7	0.156	23.1	25.9	28.8
8	0.204	30.1	33.9	37.6
9	0.358	38.1	43.0	47.6
10	0.318	47.1	53.0	58.8
11	0.385	56.9	64.2	71.1
12	0.458	67.7	76.4	84.5
13	0.538	79.4	89.6	99.5
14	0.624	92.2	104.2	115.3
15	0.673	106	119	133
16	0.815	120	135	150
17	0.849	136	153	169
18	1.030	153	172	191
20	1.270	188	212	234
22	1.540	228	257	285
24	1.830	271	305	338
26	2.150	318	358	397
28	2.500	368	415	459
30	3.040	423	477	528
32	3.250	482	543	602
34	3.790	543	612	678
36	4.130	609	686	761
38	4.830	679	765	847
40	5.090	752	848	939
42	5.560	829	934	1,034
44	6.160	910	1,027	1,136



7016472539, 8708638226, 9650133866



unoenggg@gmail.com



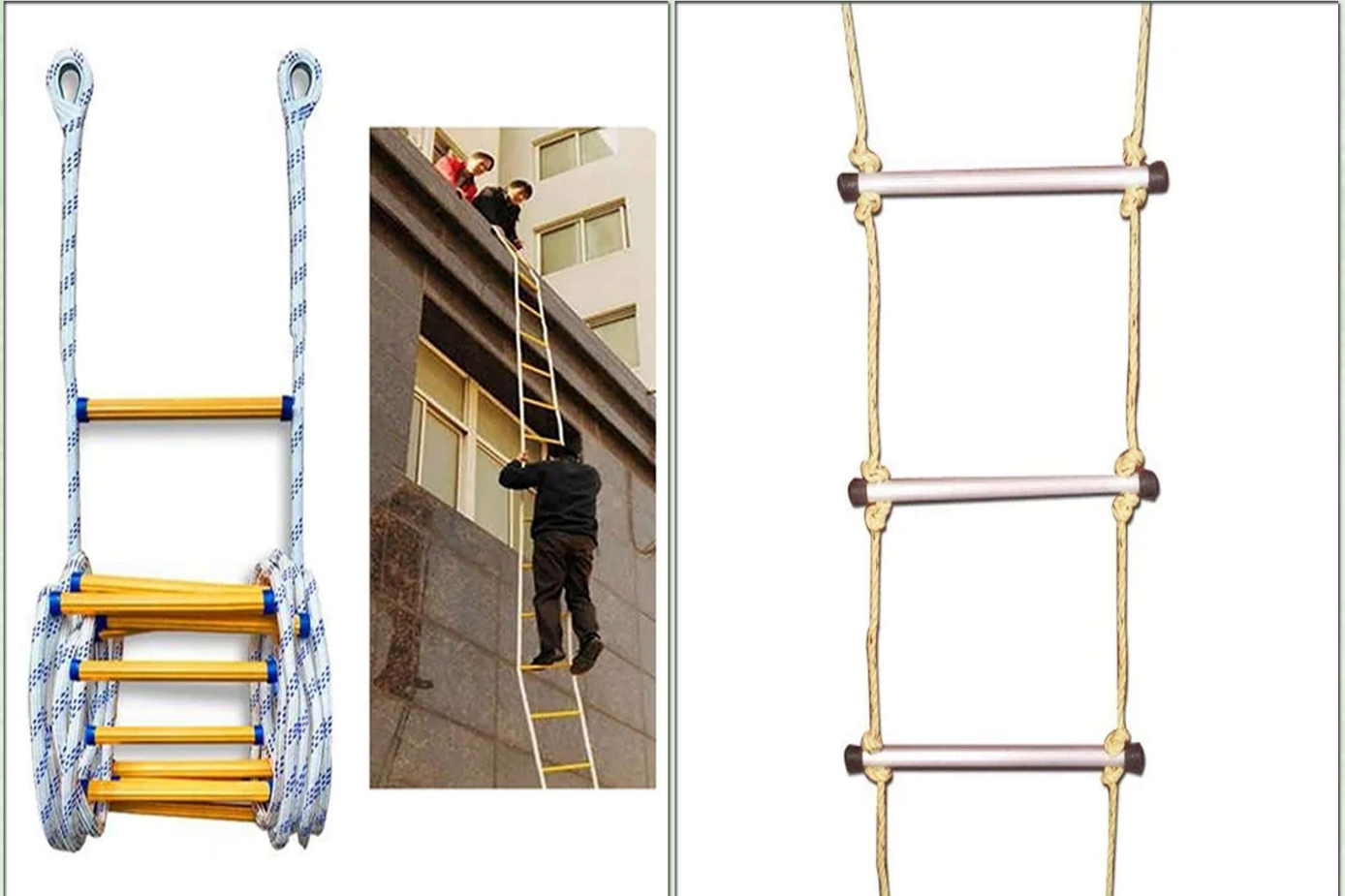
www.unoengg.com

Pandit Hariya Complex, gali No. - 2, Plot No. - 4, Near Main STP Plant, Palwali Village,
Near Govt. School Badshahpur, Faridabad - 121002, India.

UNO ENGINEERING

THE ENGINEERS ENTERPRISES

ROPE LADDER



Technical Specifications:

- Made from Strong Nylon/PP Rope
- Wooden/ Aluminium lugs
- Non-skid insert arrangement
- 1 Feet Distance between the steps
- Two loops with Hooks at the end
- Simple and easy to use while working at heights and doing maintenance work in the reactor or tank

UNO ENGINEERING

THE ENGINEERS ENTERPRISES

STEEL WIRE ROPES SLINGS



6x19+Core
Wire Rope Warrington



6 (1+6+12)+IWRC



6 (1+6+12)+FC

Application
Hoists, Cranes,
Running Riggings
General Engineering Purposes

Standard
EN 12385

UNO ENGINEERING

THE ENGINEERS ENTERPRISES

D' SHACKLES



Size	W.L.L.	A	B	C	D	F	G	Weight
inch	T	mm	mm	mm	mm	mm	mm	kg/pc
3/16	0.35	9.5	5	19	6	15	6	0.020
1/4	0.5	11.9	6.4	22.4	7.9	16	6	0.042
5/16	0.75	13.5	7.9	26.2	9.7	19	8	0.070
3/8	1	16.8	9.7	31.8	11.2	23	10	0.120
7/16	1.5	19.1	11.2	36.6	12.7	27	11	0.170
1/2	2	20.6	12.7	41.4	16	30	13	0.270
5/8	3.25	26.9	16	50.8	19.1	39	16	0.550
3/4	4.75	31.8	19.1	60.5	22.4	47	19	0.900
7/8	6.5	36.6	25.4	71.3	25.4	54	22	1.400
1	8.5	42.9	25.4	81	28.7	60	25	2.100
1-1/8	9.5	46	28.7	90.9	31.8	68	29	3.000
1-1/4	12	51.6	31.8	100	35.1	76	32	3.900
1-3/8	13.5	57.2	35.1	111.2	38.1	84	35	5.280
1-1/2	17	60.5	38.1	122.1	41.4	92	38	7.220
1-3/4	25	73.2	44.5	146	50.8	107	45	12.13
2	35	82.6	50.8	171.4	57.2	122	51	19.19
2-1/2	55	104.9	66.5	203.2	69.9	145	64	32.55
3	85	127	75	230	80	165	76.2	58.00

Crimping dies are manufactured using high-grade steel with high precision and accuracy on CNC machines and are further heat treated to a hardness of 60 HRC. CNC Grinders are used for super finishing.

UNO ENGINEERING

THE ENGINEERS ENTERPRISES

SAG SCOPE



Technical data

Magnification: 3times~9times

Field of View: 4~12m

Exit pupil: 3.6~10.7mm

Eye Relief: 66~92mm

Weight: 1.6kg

Dimension: 300*200*95mm

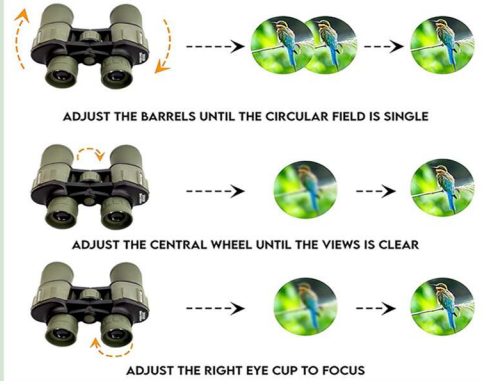
UNO ENGINEERING

THE ENGINEERS ENTERPRISES

PAIRS OF BINOCULARS



SIMPLE SETTING



TECHNICAL SPECIFICATION

Make	Haus Alchemy
Model Name	Binoculars – Military Green
Package Dimensions	22.70 x 21.4 x 9.3 cm; 800 Gram
Long Distance	1000 MTR
Material	ABS, Rubber
Mounting Type	Tripod Mount
Country of Origin	China
Maximum Magnification	20 x
Optical Zoom	20 x
Battery Included	No
Battery Required	No
Special Features	Resistant, Water Resistant, Waterproof

UNO ENGINEERING

THE ENGINEERS ENTERPRISES

WALKIE TALKIE



Range	3KM
License Requirement	License Free
Frequency Range	446Mhz
Number of Channel	16
type	Wired With Earpiece

UNO ENGINEERING

THE ENGINEERS ENTERPRISES

DYNAMOMETER (MODEL - OCS-10-Y)



Specifications

Accuracy	$\leq \pm 0.1\% \text{F.S.}$
Tare Range	100% F.S.
Auto Zero Range	$\pm 20\% \text{F.S.}$
Manual Zero Range	$\pm 2\% \text{F.S.}$
Overload Alarm	110% F.S.
Max. Safety Load	120% F.S.
Ultimate Load	400% F.S.
Battery	3*AA 1.5V battery
Battery Life	> 100 hours
Temp. (Op.)	- 10°C ~ + 40°C
Humidity (Op.)	$\leq 90\%$ at 20°C
Display	43 mm(1.692 inch) screen 22 mm (0.866inch) character

UNO ENGINEERING

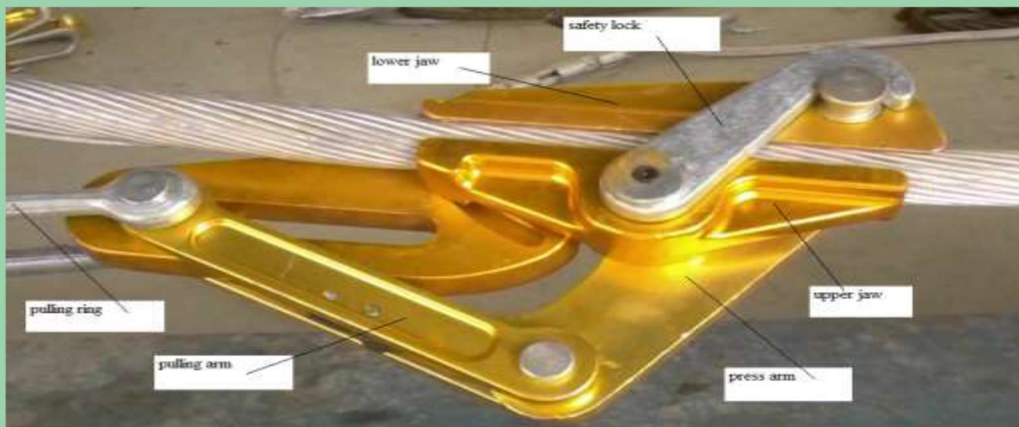
THE ENGINEERS ENTERPRISES

ALUMINIUM ALLOY AUTOMATIC CLAMP

APPLICATION: With body made from aluminum alloy of high tensile strength, this automatic clamp is used to temporarily anchor conductor (ACSR, AAAC, AAC, etc.) during / after stringing process or adjust conductor sagging. The contour of the jaw groove can be custom-made so as to convert / modify general purpose (standard) model into special purpose one.

SPECIFICATIONS (STANDARD):

Model No.	SWL (kN)	Min. B.L. (kN)	Applicable Conductor Diameter (mm)		Jaw Length (mm)	Mass (kg)
			Min.	Max.		
SGCA-25	25	63	16.0	22.4	140	3.2
SGCA-30	30	80	22.0	26.0	160	4.5
SGCA-40	40	100	25.0	28.7	190	5.3
SGCA-50	50	150	28.4 / 30.0	32.0 / 33.6	220	7.2
SGCA-60	60	180	33.0 / 35.0	36.3 / 38.50	270	9.9
SGCA-70	70	210	36.0 / 39.0	39.0 / 42.0	300	16.0



UNO ENGINEERING

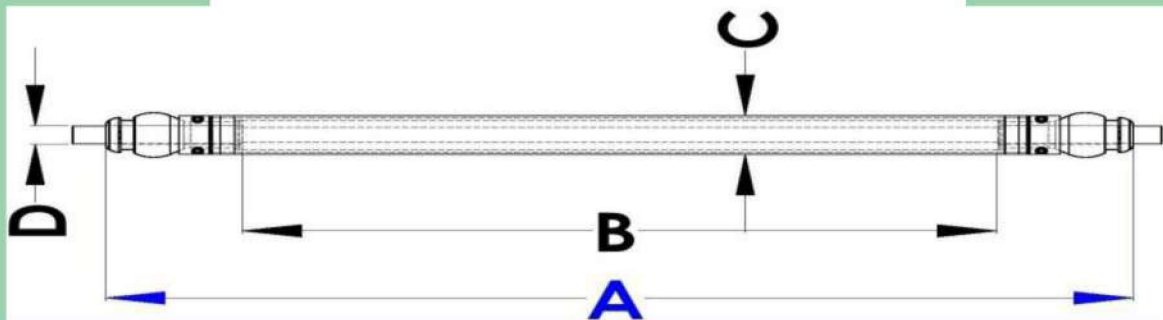
THE ENGINEERS ENTERPRISES

MIDSPAN JOINT PROTECTOR

They are specifically designed to protect the mid span joint made at the "Tensioner Station", during conductor stringing operations.

The cover joints consist of two shells made of special seamless pipe with shaped ends to house rubber hoses, as per the conductor requirement, entire free space as per conductor hexagonal crimp, and mid span joint lengths (after compression).

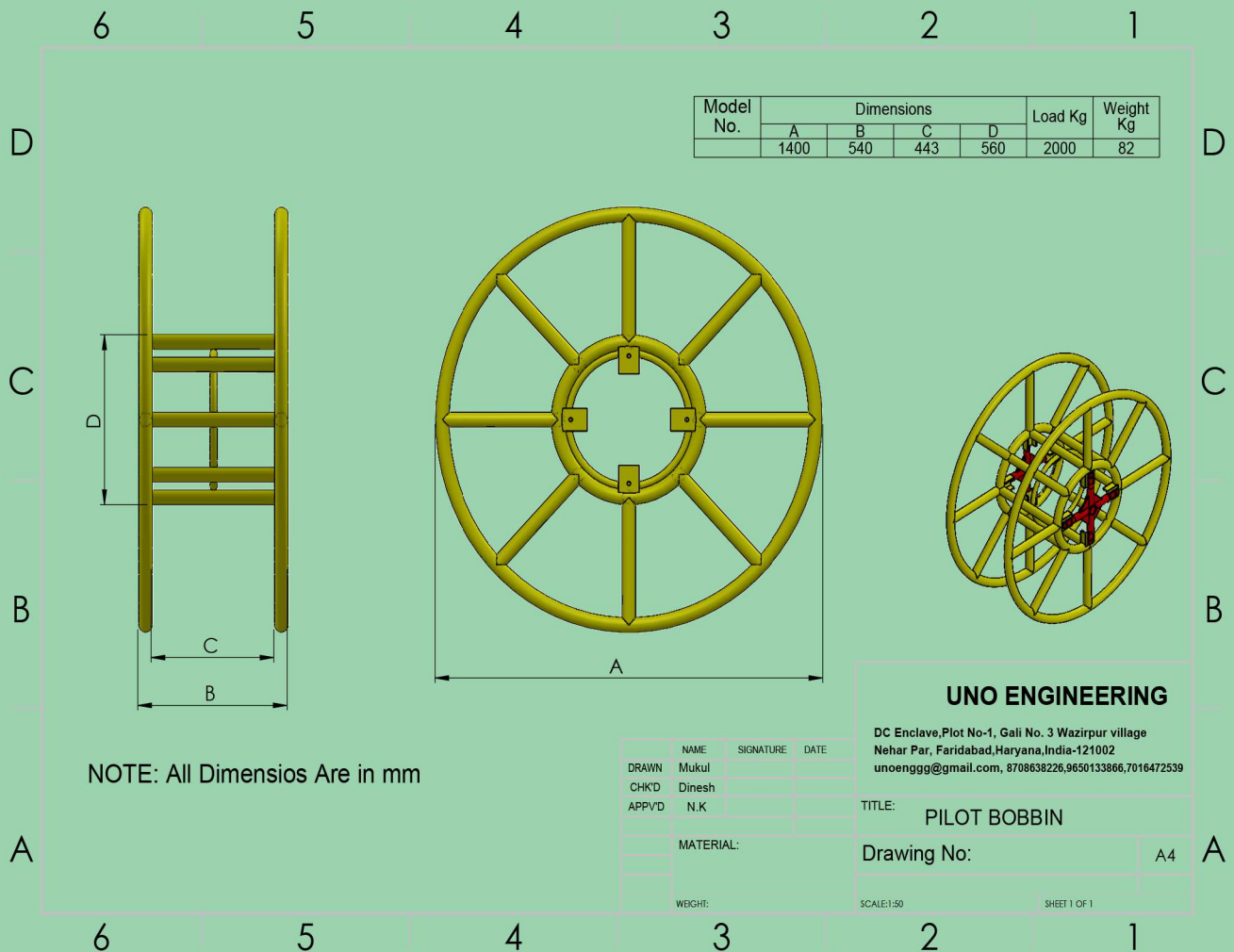
Model No.	A (mm)	B (mm)	C (mm)	D (mm) up to dia.	Working Load (KN)	Breaking Load (KN)	Weight (Kg)
UNO.JP.Z	1095	805	61	28	7	20	10
UNO.JP.M	1204	864	72	32	7	20	12
UNO.JP.B/L	1321	974	84	39	7	20	18



UNO ENGINEERING

THE ENGINEERS ENTERPRISES

PILOT BOBBIN



7016472539, 8708638226, 9650133866



unoenggg@gmail.com



www.unoengg.com

Pandit Hariya Complex, gali No. - 2, Plot No. - 4, Near Main STP Plant, Palwali Village,
Near Govt. School Badshahpur, Faridabad - 121002, India.