

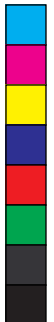
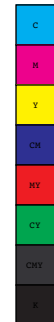


TOSYALI Demir Çelik

Tosyalı
Demir Çelik

www.tosyalidemircelik.com.tr

ENG





TOSYALI FOR A SUSTAINABLE LIFE

Tosyalı not only strengthens its position in the steel industry through product quality but also through sustainability-focused efforts. By declaring "Tosyalı for a Sustainable Life" we commit to green steel and decarbonization initiatives, demonstrating our dedication to environmental responsibilities.

Our responsible production and consumption approach includes the use of eco-friendly technologies, and the generation of energy from renewable sources ensures that our production maintains a low carbon footprint. At the same time, our production with a high scrap ratio contributes to the circular economy.

With the commencement of the Solar Power Plant (SPP) project across our facilities, we take pride in having the world's largest rooftop Solar Power Plant. This project not only reduces our energy costs but also contributes to making our steel production one of the cleanest and greenest facilities globally.

At our R&D Center, we focus on sustainability-driven projects, constantly reducing our carbon footprint through process improvements. Through innovation and technological advancements, we pave the way for environmentally friendly methods in steel production.

With a high rate of waste recycling and a commitment to the principles of the circular economy, we strive to leave a sustainable world for future generations. At Tosyalı, we take maximum effort to ensure a livable world for tomorrow. By taking steps today for a sustainable future, we play a pioneering role in the steel industry and maintain our determination to minimize environmental impacts.

GREEN STEEL

TOSYALI

FOR A SUSTAINABLE LIFE

Steel is in life today, at the forefront
of change and transformation
tomorrow, and at the center of life
in the future.

Leader in Green Steel for Today and Tomorrow

- 🚩 Türkiye's steel producer with the lowest carbon footprint
- 🚩 Partnership with world giants in circular economy
- 🚩 Sustainability-oriented R&D projects and investments
- 🚩 Leading the steel industry in the use of renewable energy sources





TOSYALI Demir Çelik

Corporate Values

About Us

The rolling mill facility within Tosyali Demir Çelik started production in 1994, and angle iron was added to the production matrices in 1995. With the investment made in 2001, the 2nd Rolling Mill facility was established, doubling the current capacity and IPN-UPN-IPE profile has also been added to the product range.

İskenderun Tosyali Demir Çelik rolling mill facilities were established on a total area of 17,667 m², of which 13,000 m² is closed area. Our Tosyali Demir Çelik facility has an annual production capacity of 550,000 tons.

The following standard and special sizes are produced in the following groups in Tosyali Demir Çelik facilities:

From 30 mm to 120 mm / 2.8 mm to 13 mm wall thickness in the angle iron group,
From 50 mm to 160 mm in the UPN profile group,
From 80 mm to 160 mm in the IPN profile group,
From 80 mm to 160 mm in the IPE profile group.

These materials are used especially in energy transmission line, as well as all steel constructions, machinery manufacturing industries, and various structures.

In addition, there is a wire rod facility with a capacity of 600,000 tons/year in İskenderun facilities, which started operating in 2023 and has a crude steel capacity of 4 million tons/year, within Tosyali Demir Çelik. Thanks to this additional facility, our long product range of Tosyali Demir Çelik has further expanded and the consolidated wire rod capacity of Tosyali's companies operating in Türkiye has reached 1.3 million tons.

Our Vision

To be the architect of a better future through green steel production.

Our Mission

To represent the best reference to the world as one of the most important and strategic iron and steel companies in Europe and Africa.



Environmentalism



World Company



Sustainability



Innovator



Experienced Staff



Efficiency Oriented



Industry Leading

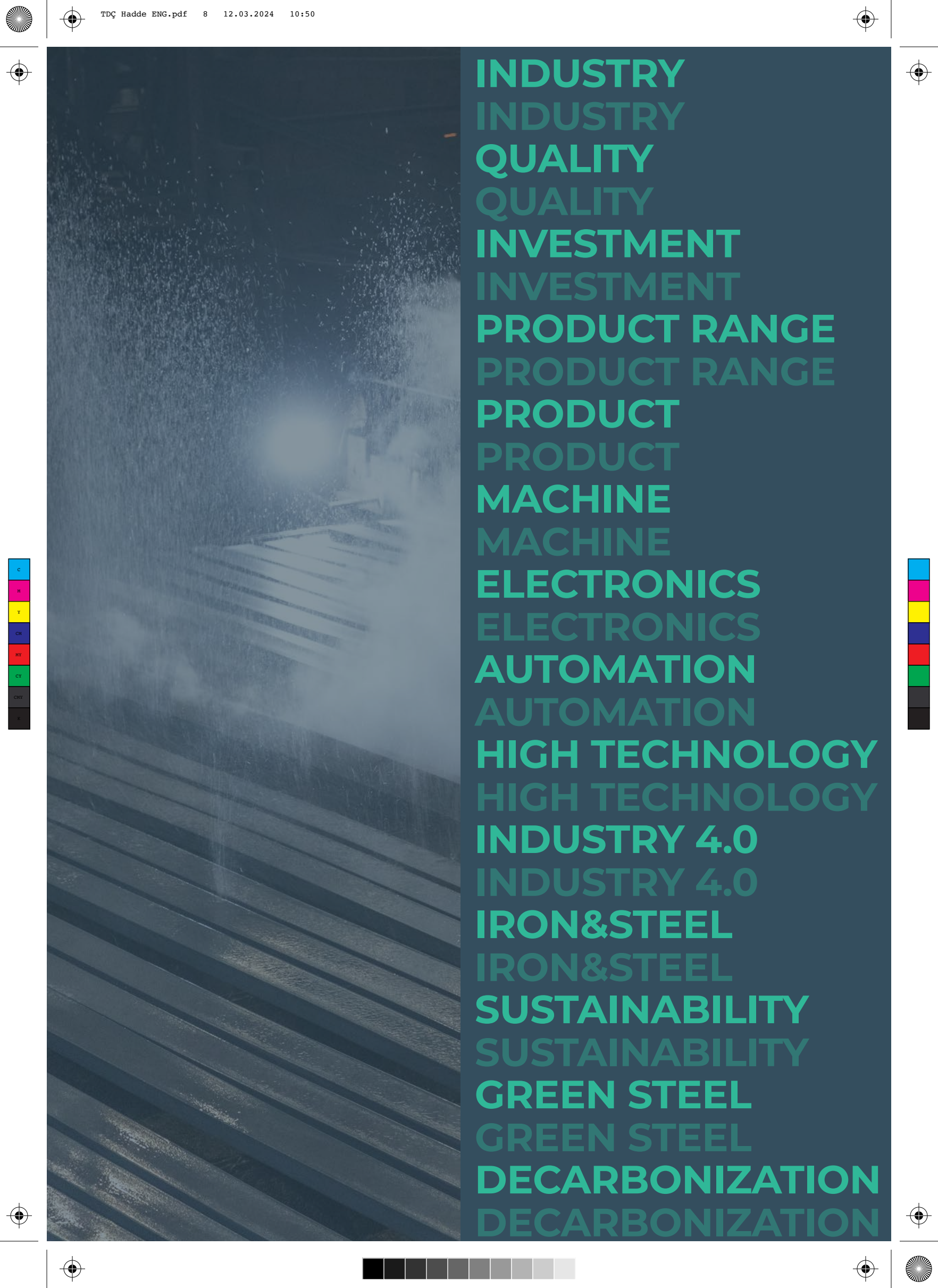


Tosyalı Demir Çelik

**TOSYALI**

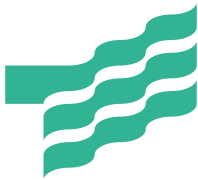
Demir Çelik

1994Merchant Bars
production
started**2024**Wire Rod production
started**RENEWABLE
ENERGY**Eco-friendly production with
Solar Power Plant**600.000**Annual Wire Rod
Production
Capacity is
600.000 tons**550.000**Annual Merchant
Bars Production
Capacity is 550.000
tons



INDUSTRY
INDUSTRY
QUALITY
QUALITY
INVESTMENT
INVESTMENT
PRODUCT RANGE
PRODUCT RANGE
PRODUCT
PRODUCT
MACHINE
MACHINE
ELECTRONICS
ELECTRONICS
AUTOMATION
AUTOMATION
HIGH TECHNOLOGY
HIGH TECHNOLOGY
INDUSTRY 4.0
INDUSTRY 4.0
IRON&STEEL
IRON&STEEL
SUSTAINABILITY
SUSTAINABILITY
GREEN STEEL
GREEN STEEL
DECARBONIZATION
DECARBONIZATION



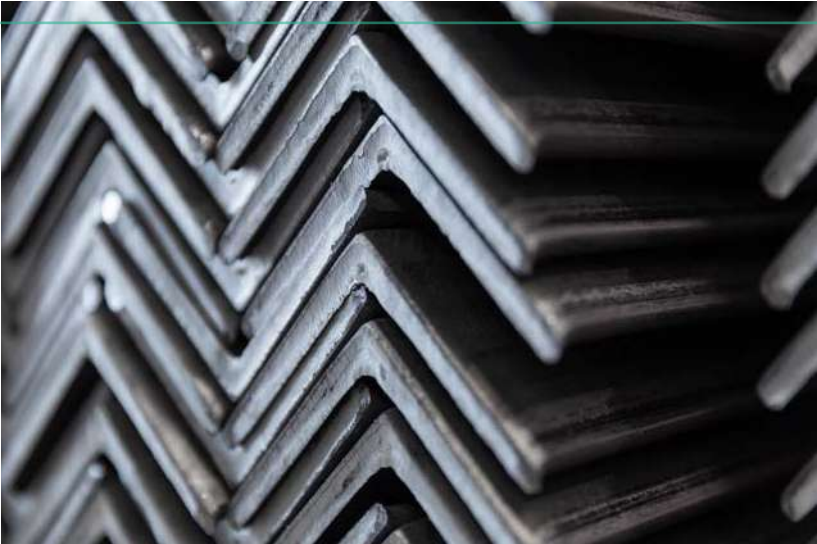


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Equal Angles

Equal Angles



Production Standards

TS 908
DIN 1028
EN 10056
ASTM A6

Steel Grade

St 37-2 / St 44-2 / St 52-3
S 235 JR / S 235 J0 / S 235 J2
S 275 JR / S 275 J0 / S 275 J2
S 355 JR / S 355 J0 / S 255 J2
ASTM A36 / ASTM A529 GR 50
ASTM A529 GR 55 / ASTM A572 GR 42
ASTM A572 GR 50 / ASTM A572 GR 55

Size	Unit	Dimensions				Position of Axes					Surface		Section Properties							
	Weight												Axis y-y / Axis z-z		Axis u-u		Axis v-v			
	G (kg/m)	h=b	t (mm)	r1 (mm)	r2 (mm)	A (mm²) x10²	zy=ys (mm) x10	v (mm) x10	u1 (mm) x10	u2 (mm) x10	AL m² / m	AG m² / t	ly=Iz mm⁴ x104	Wely=Welz mm³ x10³	iy=iz mm x10	Iu mm⁴ x104	Iu mm x10	Iv mm⁴ x104	iv mm x10	Iyz mm⁴ x104
L 30 x 30 x 3	1,36	30	3	5	2,5	1,74	0,84	2,12	1,18	1,05	0,116	84,87	1,40	0,65	0,90	2,23	1,13	0,58	0,58	-0,83
L 30 x 30 x 4	1,78	30	4	5	2,5	2,27	0,88	2,12	1,24	1,06	0,116	65,02	1,80	0,85	0,89	2,86	1,12	0,75	0,58	-1,05
L 35 x 35 x 4	2,09	35	4	5	2,5	2,67	1,00	2,47	1,42	1,24	0,136	64,82	2,95	1,18	1,05	4,69	1,33	1,22	0,68	-1,73
L 40 x 40 x 4	2,42	40	4	6	3,0	3,08	1,12	2,83	1,58	1,40	0,155	64,07	4,47	1,55	1,21	7,10	1,52	1,84	0,77	-2,63
L 40 x 40 x 5	2,97	40	5	6	3,0	3,08	1,16	2,83	1,64	1,41	0,155	52,07	5,43	1,91	1,20	8,61	1,51	2,25	0,77	-3,18
L 45 x 45 x 4,5	3,06	45	4,5	7	3,5	3,90	1,26	3,18	1,78	1,58	0,174	56,83	7,15	2,20	1,35	11,35	1,71	2,95	0,87	-4,20
L 45 x 45 x 5	3,38	45	5	7	3,5	4,30	1,28	3,18	1,81	1,58	0,174	51,51	7,84	2,43	1,35	12,45	1,70	3,24	0,87	-4,60
L 50 x 50 x 4	3,06	50	4	7	3,5	3,89	1,36	3,54	1,92	1,75	0,194	63,49	8,97	2,46	1,52	14,25	1,91	3,70	0,97	-5,28
L 50 x 50 x 5	3,77	50	5	7	3,5	4,80	1,40	3,54	1,99	1,76	0,194	51,46	10,96	3,05	1,51	17,41	1,90	4,52	0,97	-6,45
L 50 x 50 x 6	4,47	50	6	7	3,5	5,69	1,45	3,54	2,04	1,77	0,194	43,41	12,84	3,61	1,50	20,37	1,89	5,31	0,97	-7,53
L 55 x 55 x 5	4,18	55	5	8	4,0	5,32	1,52	3,89	2,15	1,93	0,213	51,05	14,71	3,70	1,66	23,37	2,10	6,06	1,07	-8,66
L 55 x 55 x 6	4,95	55	6	8	4,0	6,31	1,56	3,89	2,21	1,94	0,213	43,04	17,29	4,39	1,66	27,44	2,09	7,13	1,06	-10,16
L 60 x 60 x 4	3,70	55	4	8	4,0	4,71	1,60	4,24	2,26	2,10	0,233	63,07	15,78	3,58	1,83	25,04	2,31	6,51	1,18	-9,26
L 60 x 60 x 5	4,57	60	5	8	4,0	5,82	1,64	4,24	2,32	2,11	0,233	51,04	19,37	4,45	1,82	30,77	2,30	2,97	1,17	-11,40
L 60 x 60 x 6	5,42	60	6	8	4,0	6,91	1,69	4,24	2,39	2,11	0,233	42,99	22,79	5,29	1,82	36,20	2,29	9,38	1,17	-13,41
L 60 x 60 x 8	7,09	60	8	8	4,0	9,03	1,77	4,24	2,50	2,14	0,233	32,89	29,15	6,89	1,80	46,19	2,26	12,11	1,16	-17,04
L 65 x 65 x 6	5,91	65	6	9	4,5	7,53	1,80	4,60	2,55	2,28	0,252	42,70	29,19	6,21	1,97	46,36	2,48	12,01	1,26	-17,17
L 65 x 65 x 7	6,83	65	7	9	4,5	8,70	1,85	4,60	2,61	2,29	0,252	36,95	33,43	7,18	1,96	53,08	2,47	13,78	1,26	-19,65
L 70 x 70 x 6	6,38	70	6	9	4,5	8,13	1,93	4,95	2,73	2,46	0,272	42,68	36,88	7,27	2,13	58,60	2,69	15,16	1,37	-21,72
L 70 x 70 x 7	7,38	70	7	9	4,5	9,40	1,97	4,95	2,79	2,47	0,272	36,91	42,30	8,41	2,12	67,19	2,67	17,1	1,36	-24,89
L 75 x 75 x 6	6,85	75	6	9	4,5	8,73	2,05	5,30	2,90	2,64	0,292	42,66	45,83	8,41	2,29	72,84	2,89	18,82	1,47	-27,01
L 75 x 75 x 7	7,93	75	7	9	4,5	10,10	2,10	5,30	2,96	2,65	0,292	36,88	52,61	9,74	2,28	83,60	2,88	21,62	1,46	30,99
L 80 x 80 x 6	7,34	80	6	10	5,0	9,35	2,17	5,66	3,07	2,81	0,311	42,44	55,82	9,57	2,44	88,69	3,08	22,96	1,57	-32,87
L 80 x 80 x 7	8,49	80	7	10	5,0	10,80	2,21	5,66	3,13	2,82	0,311	64,19	64,19	11,09	2,44	102,00	3,07	26,38	1,56	-37,81
L 80 x 80 x 8	9,63	80	8	10	5,0	12,30	2,26	5,66	3,19	2,83	0,311	72,25	72,25	12,58	2,43	114,80	3,06	29,72	1,56	-42,52
L 80 x 80 x 10	11,9	80	10	10	5,0	15,10	2,34	5,66	3,10	2,85	0,311	87,50	87,50	15,45	2,41	138,80	3,03	36,24	1,55	-51,27
L 90 x 90 x 7	9,61	90	7	11	5,5	12,20	2,45	6,36	3,47	3,16	0,351	92,55	92,55	14,13	2,75	147,10	3,47	38,03	1,76	-54,52
L 90 x 90 x 8	10,9	90	8	11	5,5	13,90	2,50	6,36	3,53	3,17	0,351	104,40	104,40	16,05	2,74	165,90	3,46	42,89	1,76	-61,50
L 90 x 90 x 9	12,2	90	9	11	5,5	15,50	2,54	6,36	3,59	3,18	0,351	115,80	115,80	17,93	2,73	184,00	3,44	47,65	1,75	-68,19
L 90 x 90 x 10	13,4	90	10	11	5,5	17,10	2,58	6,36	3,65	3,19	0,351	126,90	126,90	19,77	2,72	201,50	3,43	52,33	1,75	-74,79
L 100 x 100 x 8	12,2	100	8	12	6,0	15,50	2,74	7,07	3,87	3,52	0,390	144,80	144,80	19,94	3,06	230,30	3,85	59,49	1,96	-85,35
L 100 x 100 x 10	15,0	100	10	12	6,0	19,20	2,82	7,07	3,99	3,54	0,390	176,70	176,70	24,62	3,04	280,70	3,83	72,66	1,95	-104,00
L 100 x 100 x 12	17,8	100	12	12	6,0	22,70	2,90	7,07	4,11	3,57	0,390	206,70	206,70	29,12	3,02	327,90	3,80	85,44	1,94	-121,30
L 110 x 110 x 10	16,6	110	10	13	6,5	21,20	3,06	7,78	4,33	3,88	0,429	238,00	238,00	29,99	3,35	378,20	4,23	97,74	2,15	-140,20
L 110 x 110 x 12	19,7	110	12	13	6,5	25,10	3,15	7,78	4,45	3,91	0,429	279,10	279,10	35,54	3,33	443,20	4,20	115,00	2,14	-164,10
L 120 x 120 x 10	18,2	120	10	13	6,5	23,20	3,31	8,49	4,69	4,24	0,469	312,90	312,90	36,03	3,67	497,60	4,63	128,30	2,35	-184,60
L 120 x 120 x 11	19,9	120	11	13	6,5	25,40	3,36	8,49	4,75	4,25	0,469	340,60	340,60	39,41	3,66	541,50	4,62	139,80	2,35	-200,90
L 120 x 120 x 12	21,6	120	12	13	6,5	27,50	3,40	8,49	4,80	4,26	0,469	367,70	367,70	42,73	3,65	584,30	4,61	151,10	2,34	-216,60
L 120 x 120 x 13	23,3	120	13	13	6,5	29,70	3,44	8,49	4,86	4,28	0,469	394,00	394,00	46,01	3,64	625,80	4,59	162,20	2,34	-231,80

American Sizes & Units Weights of Equal Angles

Size		Thickness							
inch	mm	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"
inch	mm	3,17 mm	4,76 mm	6,35 mm	7,93 mm	9,52 mm	11,10 mm	12,70 mm	15,87 mm
3/4* 3/4*	19,05	0,9 kg/mt							
1* 1*	25,04	1,2 kg/mt	1,8 kg/mt	2,2 kg/mt					
1 1/4* 1 1/4*	31,75	1,5 kg/mt	2,2 kg/mt	2,8 kg/mt					
1 1/2* 1 1/2*	38,1	1,8 kg/mt	2,7 kg/mt	3,4 kg/mt					
1 3/4* 1 3/4*	44,45	2,1 kg/mt	3,1 kg/mt	4,1 kg/mt					
2* 2* 1/8"	50,8	2,4 kg/mt	3,6 kg/mt	4,7 kg/mt	5,8 kg/mt	7,0 kg/mt			
2 1/2* 2 1/2*	63,5		4,6 kg/mt	6,1 kg/mt	7,4 kg/mt	8,7 kg/mt		11,4 kg/mt	
3* 3*	76,2		5,5 kg/mt	7,3 kg/mt	9,1 kg/mt	10,7 kg/mt	12,4 kg/mt	14,0 kg/mt	
3 1/2* 3 1/2*	88,9			8,6 kg/mt	10,7 kg/mt	12,6 kg/mt	14,6 kg/mt	16,5 kg/mt	
4* 4*	101,6			9,8 kg/mt	1,2 kg/mt	14,6 kg/mt	16,8 kg/mt	19,0 kg/mt	23,4 kg/mt

*As per our customer's request-tailor made.

European Standard Channels (UPN)



Production Standards

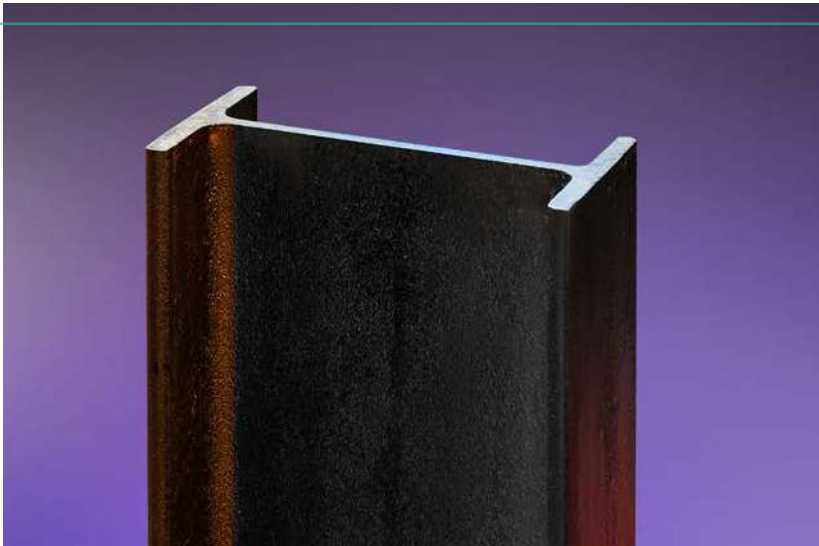
TS 912
DIN 1026
EN 10279

Steel Grade

St 37-2 / St 44-2 / St 52-3
S 235 JR / S 235 JO / S 235 J2
S 275 JR / S 275 JO / S 275 J2
S 355 JR / S 355 JO / S 255 J2
ASTM A36 / ASTM A529 GR 50
ASTM A529 GR 55 / ASTM A572 GR 42
ASTM A572 GR 50 / ASTM A572 GR 55

Size	Unit Weight	Dimensions							Surface			Strong Axis y-y					Weal Axis z-z				Other				
	G (kg/m)	h (mm)	b (mm)	tw (mm)	tf (mm)	r1 (mm)	r2 (mm)	d (mm)	A mm ² x102	AL (m ² /m)	AG m ² / t	Iy mm ⁴ x104	Wely mm ³ x103	Wely mm ³ x103	Iy mm x10	Avz mm ² x102	Iz mm ⁴ x104	Welz mm ³ x103	Wplz mm ³ x103	Iz mm x10	Ss mm	It mm ⁴ x104	Iw mm ⁵ x109	ys mm x10	ym mm x10
UPN 50X25	3,86	50	25	5,0	6,0	6,0	3,0	25,7	4,9	0,181	48,22	16,8	6,73	8,52	1,85	2,52	2,49	1,48	2,84	0,71	14,6	0,59	0,01	0,81	1,34
UPN 65	7,09	65	42	5,5	7,5	7,5	4,0	34	9,03	0,273	39,57	57,5	17,7	21,7	2,52	3,68	14,1	5,07	9,38	1,25	18,0	1,61	0,08	1,42	2,60
UPN 80	8,64	80	45	6,0	8,0	8,0	4,0	47	11,0	0,312	37,10	106	26,5	32,3	3,10	4,90	19,4	6,36	11,9	1,33	19,4	2,20	0,18	1,45	2,67
UPN 100	10,6	100	50	6,0	8,5	8,5	4,5	64	13,5	0,372	35,10	206	41,2	49,0	3,91	6,46	29,3	8,49	16,2	1,47	20,3	2,81	0,41	1,55	2,93
UPN 120	13,4	120	55	7,0	9,0	9,0	4,5	82	17,0	0,434	32,52	364	60,7	72,6	4,62	8,80	43,2	11,1	21,2	1,59	22,2	4,15	0,90	1,60	3,03
UPN 140	16,0	140	60	7,0	10,0	10,0	5,0	98	20,4	0,489	30,54	605	86,4	103	5,45	10,40	62,7	14,8	28,3	1,75	23,9	5,68	1,80	1,75	3,37
UPN 160	18,8	160	65	7,5	10,5	10,5	5,5	115	24,0	0,546	28,98	925	116	138	6,21	12,60	85,3	18,3	35,2	1,89	25,3	7,39	3,26	1,84	3,56

Taper Flange I Sections (IPN)



Production Standards

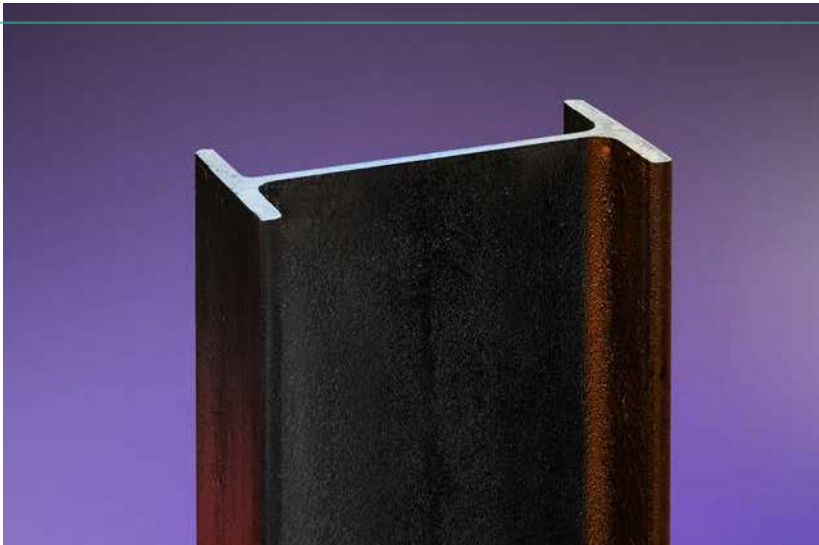
TS 910
DIN 1025
EN 10024

Steel Grade

St 37-2 / St 44-2 / St 52-3
S 235 JR / S 235 JO / S 235 J2
S 275 JR / S 275 JO / S 275 J2
S 355 JR / S 355 JO / S 255 J2
ASTM A36 / ASTM A529 GR 50
ASTM A529 GR 55 / ASTM A572 GR 42
ASTM A572 GR 50 / ASTM A572 GR 55

Size	Unit Weight	Dimensions							Surface			Strong Axis y-y					Weak Axis z-z				Other		
	G (kg/m)	h (mm)	b (mm)	tw (mm)	tf (mm)	r1 (mm)	r2 (mm)	d (mm)	A mm ² x102	AL (m ² /m)	AG m ² / t	Iy mm ⁴ x104	Wely mm ³ x103	Wply mm ³ x103	Iy mm x10	Avz mm ² x102	Iz mm ⁴ x104	Welz mm ³ x103	Wplz mm ³ x103	Iz mm x10	Ss mm	It mm ⁴ x104	Iw mm ⁵ x109
IPN 80	5,94	80	42	3,9	5,9	3,9	2,3	59	7,57	0,304	51,09	77,8	19,5	22,8	3,20	3,41	6,29	3,00	5,00	0,91	21,6	0,87	0,09
IPN 100	8,34	100	50	4,5	6,8	4,5	2,7	75,7	10,6	0,370	44,47	171	34,2	39,8	4,01	4,85	12,2	4,88	8,10	1,07	25,0	1,60	0,27
IPN 120	11,1	120	58	5,1	7,7	5,1	3,1	92,4	14,2	0,439	39,38	328	54,7	63,6	4,81	6,63	21,5	7,41	12,4	1,23	28,4	2,71	0,69
IPN 140	14,3	140	66	5,7	8,6	5,7	3,4	109,1	18,2	0,502	34,94	573	81,9	95,4	5,61	8,65	35,2	10,7	17,9	1,40	31,8	4,32	1,54
IPN 160	17,9	160	74	6,3	9,5	6,3	3,8	125,8	22,8	0,575	32,13	935	117	136	6,40	10,83	54,7	14,8	24,9	1,55	35,2	6,57	3,14

Parallel Flange I Sections (IPE)



Production Standards

TS 910-5
DIN 1025-5
EN 10034

Steel Grade

St 37-2 / St 44-2 / St 52-3
S 235 JR / S 235 J0 / S 235 J2
S 275 JR / S 275 J0 / S 275 J2
S 355 JR / S 355 J0 / S 255 J2
ASTM A36 / ASTM A529 GR 50
ASTM A529 GR 55 / ASTM A572 GR 42
ASTM A572 GR 50 / ASTM A572 GR 55

Size	Unit Weight	Dimensions							Surface			Strong Axis y-y					Weak Axis z-z				Other		
	G (kg/m)	h (mm)	b (mm)	tw (mm)	tf (mm)	r (mm)	hi (mm)	d (mm)	A mm ² x10 ²	AL (m ² /m)	AG m ² / t	Iy mm ⁴ x10 ⁴	Wely mm ³ x10 ³	Wply mm ³ x10 ³	iy mm x10	Avz mm ² x10 ²	Iz mm ⁴ x10 ⁴	Welz mm ³ x10 ³	Wplz mm ³ x10 ³	Iz mm x10	Ss mm	It mm ⁴ x10 ⁴	Iw mm ⁶ x10 ⁹
IPE 80	6,0	80	46	3,8	5,2	5,0	69,6	59,6	7,64	0,328	54,65	80,1	20	23,2	3,24	3,58	8,49	3,69	5,8	1,05	20,1	0,70	0,12
IPE 100	8,4	117	64	3,8	4,8	7,0	107,4	93,4	10,7	0,470	56,26	244	41,7	47,6	4,79	5,36	21,1	6,59	10,4	1,41	21,6	0,95	0,66
IPE AA 120	8,4	117	64	3,8	8,0	8,0	4,0	47	11,0	0,312	37,10	106	26,5	32,3	3,10	4,90	19,4	6,36	11,9	1,33	19,4	2,20	0,18
IPE A 120	8,7	117,6	64	3,8	5,1	7,0	107,4	93,4	11,0	0,472	54,47	257	43,8	49,9	4,83	6,46	22,4	7,00	11,0	1,42	22,2	1,04	0,71
IPE 120	10,4	120	64	4,4	6,3	7,0	107,4	93,4	13,2	0,475	45,82	318	53,0	60,7	4,90	6,31	27,7	8,65	13,6	1,45	25,2	1,74	0,89
IPE AA 140	10,1	136,6	73	3,8	5,2	7,0	126,2	112,2	12,8	0,546	54,26	407	59,7	67,6	5,64	6,14	33,8	9,27	14,5	1,63	22,4	1,19	1,46
IPE A 140	10,5	137,4	73	3,8	5,6	7,0	126,2	112,2	13,4	0,547	52,05	435	63,3	71,6	5,70	6,21	36,4	10,0	15,5	1,65	23,2	1,36	1,58
IPE 140	12,9	140	73	4,7	6,9	7,0	126,2	112,2	16,4	0,551	42,70	541	77,3	88,3	5,74	7,64	44,9	12,3	19,3	1,65	26,7	2,45	1,98
IPE AA 160	12,1	156,4	82	4,0	5,6	7,0	145,2	131,2	15,4	0,621	50,40	646	82,6	93,3	6,47	7,24	51,6	12,6	19,6	1,83	23,4	1,57	2,93
IPE A 160	12,7	157	82	4,0	5,9	9,0	145,2	127,2	16,2	0,619	48,70	689	87,8	99,1	6,53	7,80	54,4	13,3	20,7	1,83	26,3	1,96	3,09
IPE 160	15,8	160	82	5,0	7,4	9,0	145,2	127,2	20,1	0,623	39,47	689	109	124	6,58	9,66	68,3	16,7	26,1	1,84	30,3	3,60	3,96

U-1 Packaging

TOSYALI DEMİR ÇELİK PACKAGING LIST FOR UNIT ONE													
Size	Unit Weight	6 METERS						12 METERS					
		Width		Height	Pieces per Bundle	Theoric Bundle(kg)	Six Meters Weight (kg)	Width		Height	Pieces per Bundle	Theoric Bundle(kg)	Twelve Meters Weight (kg)
L 30x30x2,8	1,28	9	x	23	383	2.937	7,7	9	x	11	179	2.745	15,3
L 30x30x3	1,36	9	x	22	366	2.993	8,2	9	x	11	179	2.928	16,4
L 30x30x3,5	1,57	9	x	19	315	2.973	9,4	9	x	9	145	2.737	18,9
L 30x30x4	1,78	9	x	17	281	2.999	10,7	9	x	8	128	2.733	21,3
L 30x30x5	2,18	9	x	13	213	2.786	13,1	9	x	7	111	2.904	26,2
L 35x35x3	1,60	8	x	21	308	2.955	9,6	8	x	10	143	2.744	19,2
L 35x35x3,5	1,85	8	x	18	263	2.916	11,1	8	x	9	128	2.839	22,2
L 35x35x4	2,09	8	x	16	233	2.926	12,6	8	x	8	113	2.838	25,1
L 40x40x3	1,84	7	x	21	267	2.954	11,1	7	x	10	124	2.744	22,1
L 40x40x3,5	2,13	7	x	18	228	2.917	12,8	7	x	9	111	2.840	25,6
L 40x40x3,8	2,30	7	x	17	215	2.971	13,8	7	x	8	98	2.708	27,6
L 40x40x4	2,42	7	x	16	202	2.929	14,5	7	x	8	98	2.842	29,0
L 40x40x5	2,97	7	x	13	163	2.909	17,8	7	x	6	72	2.570	35,7
L 44x44x3,2	2,10	7	x	18	228	2.873	12,6	7	x	9	111	2.797	25,2
L 44x44x4,8	3,10	7	x	12	150	2.790	18,6	7	x	6	72	2.678	37,2
L 45x45x3	2,09	6	x	22	237	2.972	12,5	6	x	11	116	2.909	25,1
L 45x45x4	2,74	6	x	17	182	2.994	16,5	6	x	8	83	2.731	32,9
L 45x45x5	3,38	6	x	13	138	2.797	20,3	6	x	7	72	2.919	40,5
L 50x50x4	3,06	6	x	15	160	2.934	18,3	6	x	7	72	2.640	36,7
L 50x50x4,8	3,63	6	x	12	127	2.765	21,8	6	x	6	61	2.656	43,5
L 50x50x5	3,77	6	x	12	127	2.873	22,6	6	x	6	61	2.760	45,2
L 50x50x5,5	4,12	6	x	11	116	2.868	24,7	6	x	5	50	2.473	49,5
L 50x50x6	4,47	6	x	10	105	2.815	26,8	6	x	5	50	2.681	53,6
L 50x50x7	5,15	6	x	9	94	2.906	30,9	6	x	4	39	2.411	61,8
L 51x51x3,2	2,40	6	x	19	204	2.938	14,4	6	x	9	94	2.707	28,8
L 51x51x4,8	3,60	6	x	13	138	2.981	21,6	6	x	6	61	2.635	43,2
L 55x55x4	3,38	5	x	16	140	2.841	20,3	5	x	8	68	2.760	40,6
L 55x55x5	4,18	5	x	13	113	2.831	25,1	5	x	7	59	2.956	50,1
L 60x60x3,8	3,52	5	x	16	140	2.957	21,1	5	x	8	68	2.872	42,2
L 60x60x4	3,70	5	x	15	131	2.905	22,2	5	x	7	59	2.617	44,4
L 60x60x4,5	4,13	5	x	13	113	2.803	24,8	5	x	7	59	2.927	49,6
L 60x60x5	4,57	5	x	12	104	2.850	27,4	5	x	6	50	2.741	54,8
L 60x60x5,8	5,25	5	x	11	95	2.994	31,5	5	x	5	41	2.584	63,0
L 60x60x6	5,42	5	x	10	86	2.798	32,5	5	x	5	41	2.668	65,1
L 60x60x7	6,26	5	x	9	77	2.894	37,6	5	x	4	32	2.405	75,2
L 60x60x8	7,09	5	x	8	68	2.893	42,5	5	x	4	32	2.723	85,1
L 64x64x4,8	4,60	4	x	15	102	2.815	27,6	4	x	8	53	2.926	55,2
L 64x64x6,4	6,10	4	x	12	81	2.965	36,6	4	x	6	39	2.855	73,2
L 65x65x4	4,03	4	x	17	116	2.801	24,2	4	x	9	60	2.898	48,3
L 65x65x5	4,97	4	x	14	95	2.835	29,8	4	x	7	46	2.746	59,7
L 65x65x6	5,91	4	x	12	81	2.872	35,5	4	x	6	39	2.765	70,9
L 65x65x7	6,83	4	x	10	67	2.744	41,0	4	x	5	32	2.622	81,9
L 65x65x8	7,71	4	x	9	60	2.776	46,3	4	x	5	32	2.961	92,5
L 70x70x5	5,37	4	x	13	88	2.834	32,2	4	x	7	46	2.963	64,4
L 70x70x6	6,38	4	x	11	74	2.833	38,3	4	x	6	39	2.986	76,6
L 70x70x7	7,38	4	x	10	67	2.966	44,3	4	x	5	32	2.833	88,5
L 70x70x8	8,36	4	x	8	53	2.658	50,1	4	x	4	25	2.507	100,3
L 75x75x5	5,78	4	x	12	81	2.807	34,7	4	x	6	39	2.703	69,3
L 75x75x6	6,87	4	x	10	67	2.761	41,2	4	x	5	32	2.637	82,4
L 75x75x7	7,94	4	x	9	60	2.859	47,7	4	x	4	25	2.383	95,3
L 75x75x8	9,00	4	x	8	53	2.863	54,0	4	x	4	25	2.701	108,0
L 75x75x10	11,07	4	x	6	39	2.591	66,4	4	x	3	18	2.392	132,9
L 76x76x4,8	5,50	4	x	13	88	2.904	33,0	4	x	6	39	2.574	66,0
L 76x76x6,4	7,30	4	x	10	67	2.935	43,8	4	x	5	32	2.803	87,6
L 76x76x7,9	9,10	4	x	8	53	2.894	54,6	4	x	4	25	2.730	109,2
L 80x80x6	7,34	3	x	14	68	2.994	44,0	3	x	7	33	2.906	88,1
L 80x80x7	8,49	3	x	12	58	2.955	51,0	3	x	6	28	2.853	101,9
L80x80x8	9,63	3	x	10	48	2.773	57,8	3	x	5	23	2.658	115,6
L 80x80x10	11,86	3	x	8	38	2.704	71,2	3	x	4	18	2.562	142,3
UPN 50	3,86	7	x	8	112	2.594	23,2	7	x	4	56	2.594	46,3
UPN 65	7,09	5	x	6	60	2.552	42,5	5	x	3	30	2.552	85,1
UPN 80	8,64	4	x	6	48	2.488	51,8	4	x	3	24	2.488	103,7
IPN 80	5,94	4	x	7	56	1.996	35,6	4	x	5	40	2.851	71,3
IPE 80	6,00	4	x	7	56	2.016	36,0	4	x	5	40	2.880	72,0



U-2 Packaging

U-2 Packaging

TOSYALI DEMİR ÇELİK PACKAGING LIST FOR UNIT TWO

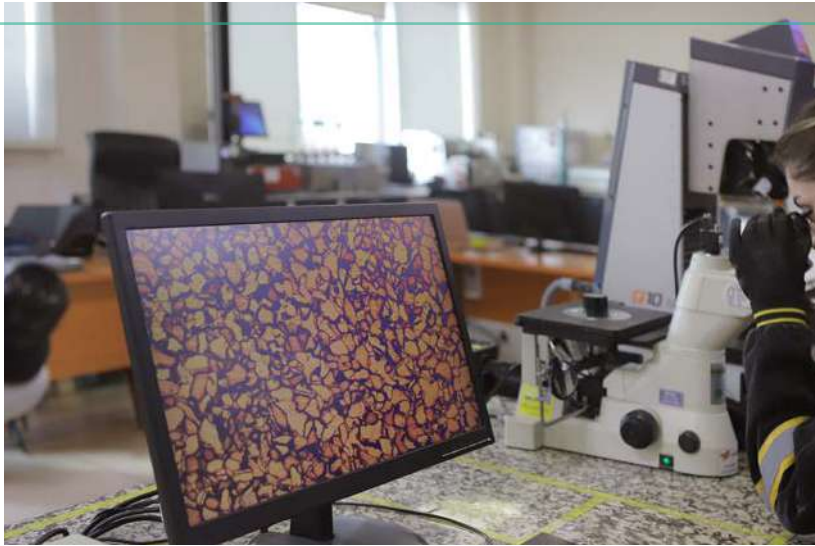
Size	Unit Weight	6 METERS						12 METERS					
		Width		Height	Pieces per Bundle	Theoric Bundle(kg)	Six Meters Weight (kg)	Width		Height	Pieces per Bundle	Theoric Bundle(kg)	Twelve Meters Weight (kg)
L 89x89x7,9	10,70	3	x	9	43	2.761	64,2	3	x	5	23	2.953	128,4
L 89x89x9,5	12,60	3	x	8	38	2.873	75,6	3	x	4	18	2.722	151,2
L 90x90x7	9,61	3	x	10	48	2.767	57,6	3	x	5	23	2.652	115,3
L 90x90x8	10,90	3	x	9	43	2.813	65,4	3	x	4	18	2.355	130,8
L 90x90x9	12,18	3	x	8	38	2.778	73,1	3	x	4	18	2.632	146,2
L 90x90x10	13,45	3	x	7	33	2.663	80,7	3	x	4	18	2.905	161,4
L 100x100x9	13,62	3	x	7	33	2.696	81,7	3	x	4	18	2.941	163,4
L 100x100x10	15,04	3	x	7	33	2.977	90,2	3	x	3	13	2.346	180,4
L 100x100x12	17,83	3	x	6	28	2.996	107,0	3	x	3	13	2.782	214,0
L 102x102x9,5	14,60	3	x	7	33	2.891	87,6	3	x	3	13	2.278	175,2
L 110x110x8	13,44	3	x	7	33	2.660	80,6	2	x	6	17	2.741	161,2
L 110x110x9	15,03	3	x	7	33	2.976	90,2	2	x	5	14	2.525	180,3
L 110x110x10	16,61	3	x	6	28	2.790	99,6	2	x	5	14	2.790	199,3
L 110x110x11	18,17	3	x	5	23	2.507	109,0	2	x	4	11	2.398	218,0
L 110x110x12	19,74	3	x	5	23	2.724	118,4	2	x	4	11	2.605	236,8
L 120x120x10,5	19,06	2	x	9	26	2.973	114,4	2	x	4	11	2.516	228,7
L 120x120x11	19,92	2	x	8	23	2.748	119,5	2	x	4	11	2.629	239,0
L 120x120x12	21,62	2	x	8	23	2.984	129,7	2	x	4	11	2.854	259,4
L 120x120x13	23,31	2	x	7	20	2.797	139,8	2	x	3	8	2.238	279,7
UPN 100	10,60	4	x	5	40	2.544	63,6	4	x	2	16	2.035	127,2
UPN 120	13,40	3	x	6	36	2.894	80,4	3	x	3	18	2.894	160,8
UPN 140	16,00	3	x	5	30	2.880	96,0	2	x	3	12	2.304	192,0
UPN 160	18,80	2	x	5	20	2.256	112,8	2	x	3	12	2.707	225,6
IPN 100	8,34	4	x	7	56	2.802	50,0	4	x	3	24	2.402	100,1
IPN 120	11,10	3	x	6	36	2.398	66,6	3	x	3	18	2.398	133,2
IPN 140	14,30	3	x	5	30	2.574	85,8	2	x	4	16	2.746	171,6
IPN 160	17,90	2	x	5	20	2.148	107,4	2	x	3	12	2.578	214,8
IPE 100	8,10	4	x	7	56	2.722	48,6	4	x	3	24	2.333	97,2
IPE 120	10,40	3	x	6	36	2.246	62,4	3	x	4	24	2.995	124,8
IPE A 120	8,70	3	x	6	36	1.879	52,2	3	x	4	24	2.506	104,4
IPE AA 120	8,40	4	x	7	56	2.822	50,4	3	x	4	24	2.419	100,8
IPE 140	12,90	3	x	5	30	2.322	77,4	3	x	3	18	2.786	154,8
IPE A 140	10,50	3	x	5	30	1.890	63,0	3	x	3	18	2.268	126,0
IPE AA 140	10,10	3	x	5	30	1.818	60,6	3	x	4	24	2.909	121,2
IPE 160	15,80	2	x	5	20	1.896	94,8	2	x	3	12	2.275	189,6
IPE A 160	12,70	2	x	5	20	1.524	76,2	2	x	4	16	2.438	152,4
IPE AA 160	12,10	2	x	5	20	1.452	72,6	2	x	4	16	2.323	145,2

Size	Unit Weight	10 METERS					
		Width		Height	Pieces per Bundle	Theoric Bundle(kg)	Ten Meters Weight (kg)
UPN 100	10,60	4	x	3	24	2.544	106,0
UPN 120	13,40	3	x	3	18	2.412	134,0
IPN 100	8,34	4	x	4	32	2.669	83,4
IPN 120	11,10	3	x	4	24	2.664	111,0





Quality Control and Tests



Quality Control

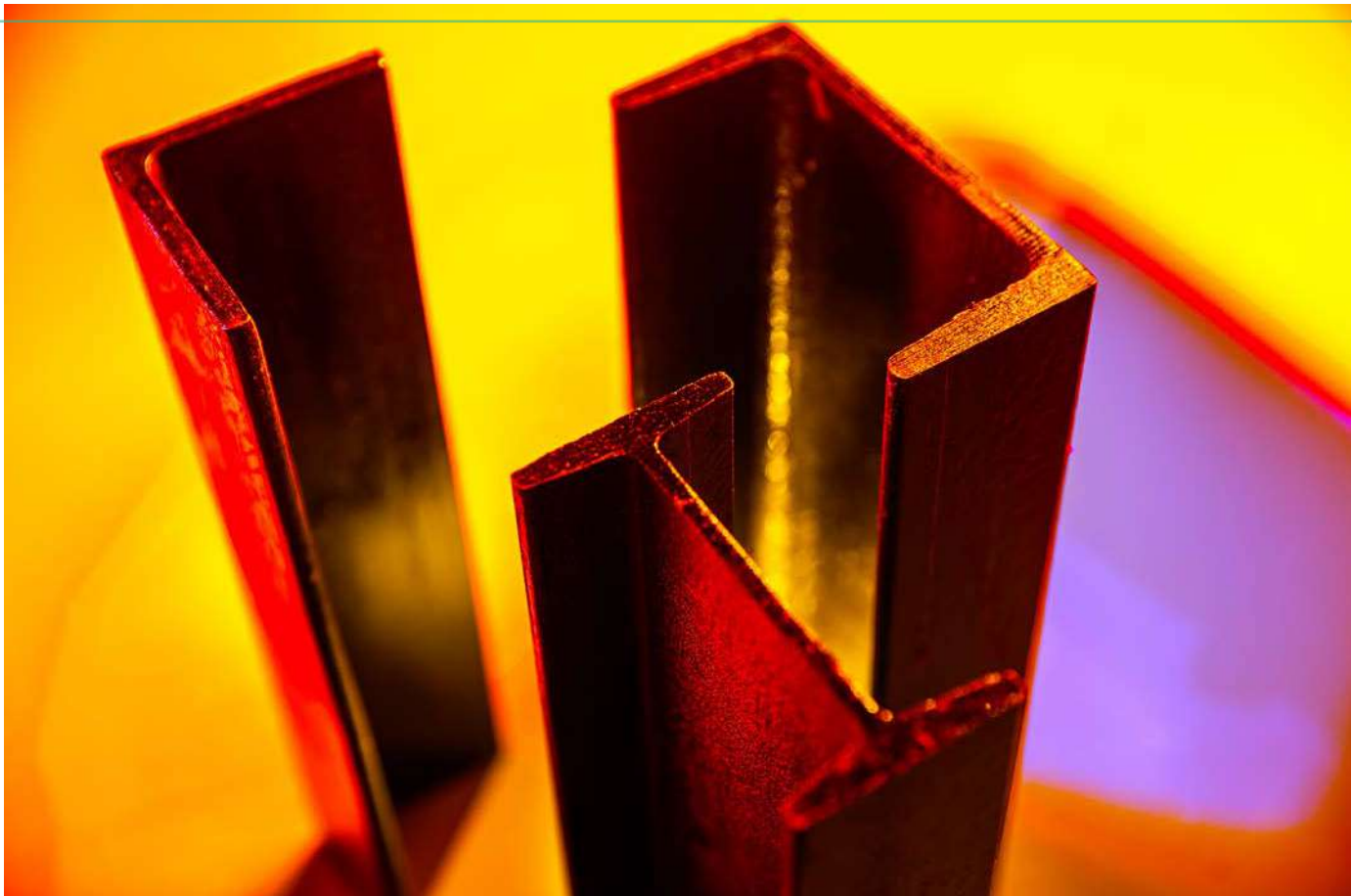
Quality control system in Tosyalı is an ongoing process starts with the purchase of raw material and continues until the final product is delivered to the customer. Our philosophy is to produce an accurate product at first attempt which puts a responsibility for obtaining of desired quality to every employee in our organization.

Mechanical Tests

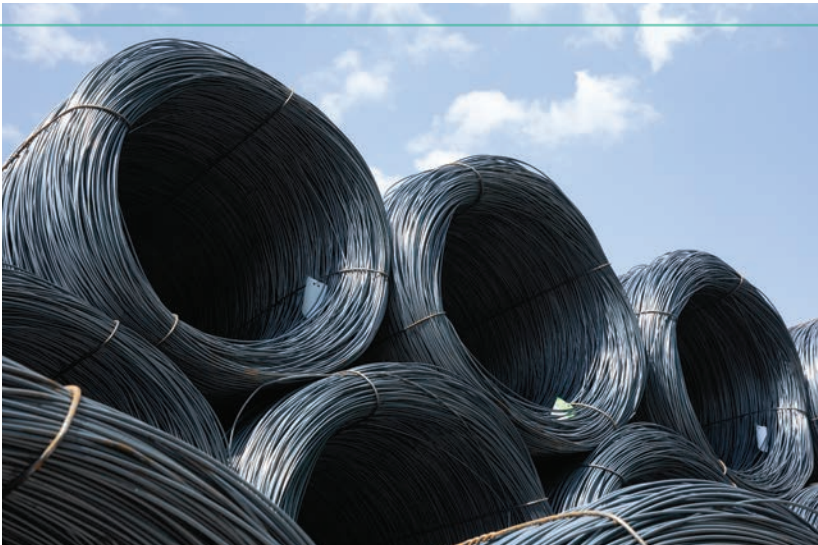
- Tensile Test
- Bending Test
- Charpy Impact Test
- Microstructure Test

Chemical Test

- Chemical analysis by spectrometer



Wire Rod



Wire Rod

- 600,000 tons of production capacity
- 5.5 mm - 25 mm size range of wire rod
- 115 m/sec rolling speed
- Use of 150x150 and 160x160 billet
- Weight min 2000 max 2400 kg
- Outside diameter 1250 mm
- Inside diameter 850 mm
- Height 1400-2300 mm

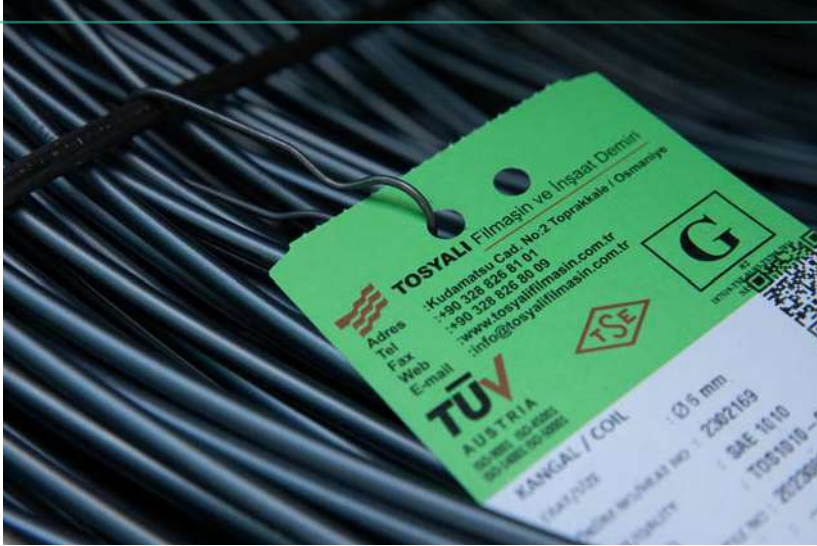
Quality Produced-Steel Grades

- Low Carbon Steel for Commercial Mesh, Annealed and Galvanized Wire
SAE 1006-1008-1010-1012-1015-1018-1022
- Medium Carbon Steel
SAE 1035-1040-1045
- High Carbon Spring Steel
SAE 1065-1070-1080-1082 for box spring, steel rope, pc strand and nail.
- Low Alloyed Steel
- Medium Alloyed Steel
- Welding Wire Steel
S1-S2-S2Si-S2Mo-SG2-SG3
- Free Cutting Steel
11SMnPb30, 11SMnPb37
- Cord Steel
- Cold Heading (forging) Steel for bolt and nut production.
18MnB4, 22MnB4, 23MnB4, 27MnB4, 30MnB4, 20MnCrB5.
- Debar in Coil Steel DIN 486 500S

125 ton/h Walking Beam Type Reheating Furnace

There is a difference of 30 °C between head and tail of the billet.

Annealing the billets produced in the steel mill in the fastest way with the chain system and accelerating the mass production process.



16 Horizontal Vertical One Way Rolling Stands

Consist of 6 stands roughing mill, 6 stands intermediate mill, and 4 stands finishing mill.

Fast Finishing Monoblock 10 Stands

- Monoblock BGV include 10 stands.
- Minimization of downtime with one motor powering both stands

Smart Water Cooling System

- There are 9 water boxes. Cooling elements (cooling water nozzle, water strippers, air dryer, by-pass pipes) supporting beam. Beam locking to the box by dove tail and hand wheel system.
- Superior physical structure is obtained by thermomechanical rolling at 800 – 900 °C entry temperature of sizing block.

Sizing Module Block

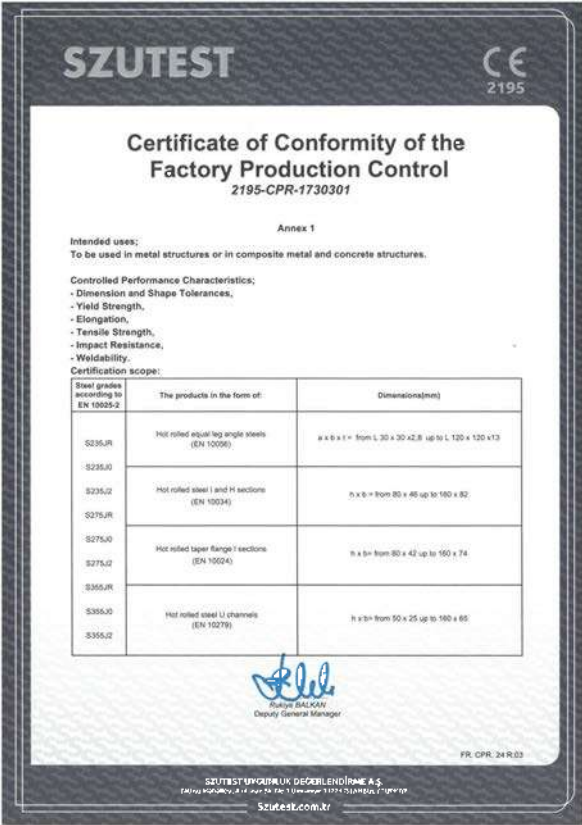
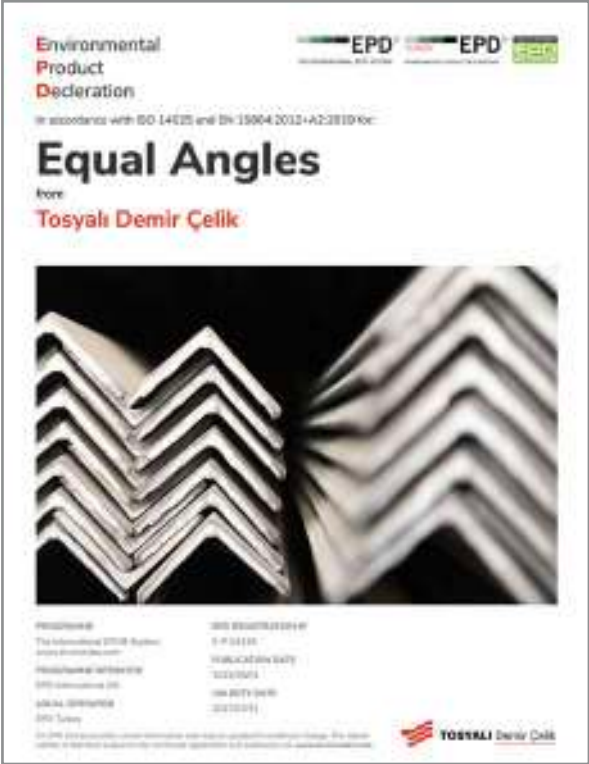
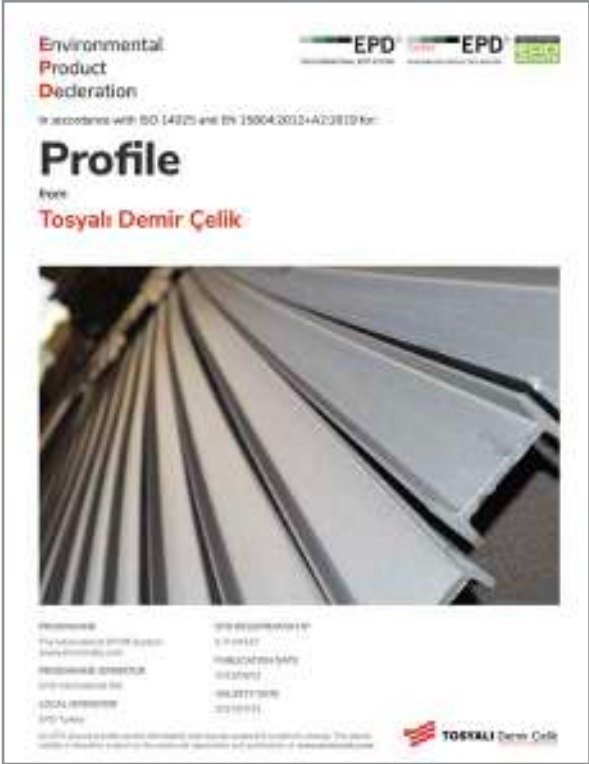
- 115 m/s finishing speed

Coil Packaging System

- 2 set automatic compacting/banding machine:
- Banding cycle: min 40s
- Compacting force: max 300 kN - min 3200 mm (loose coil)
- Coil temperature: ≤ 400 °C
- Banding wire: Ø 6.5 mm wire
- Working pressure of hydraulic system: 13 MPa
- Simultaneous bandings: 4

Certificates

Certificates



Certificates



VISION GREEN

“

*As Tosyali, our vision is to contribute to building a sustainable world via ensuring environmentally production in our facilities, with the help of technology, innovation and renewable energy usage. Within our responsible ecosystem management approach, we produce green steel products in every category of the steel. We produce **less carbon emission, consume less water, focus on renewable energy resources, produce with highest efficiency and recycle all our wastes.***

We believe that a sustainable world is possible with the green transformation of the steel industry.

Fuat Tosyali
Chairman of the Board
of Directors of Tosyali Holding

”

Tosyali proudly presents a new umbrella brand to represent its green steel vision in every touch point of its operations.

Tosyali V-Green

This is not just a brand, it is also the strongest indicator of sustainability actions those have been taking place for many years at Tosyali and will continue by highest determination.

In all our production facilities, we focus on new generation green steel production and under the umbrella of V-Green, we introduce environment friendly products for our suppliers.

How we are making this vision live in Tosyali?

We produce green steel with the help of;

- technology usage,
- innovation,
- renewable energy resources,
- recycling in every touch point production and
- operating with highest efficiency.

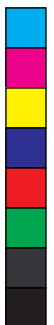
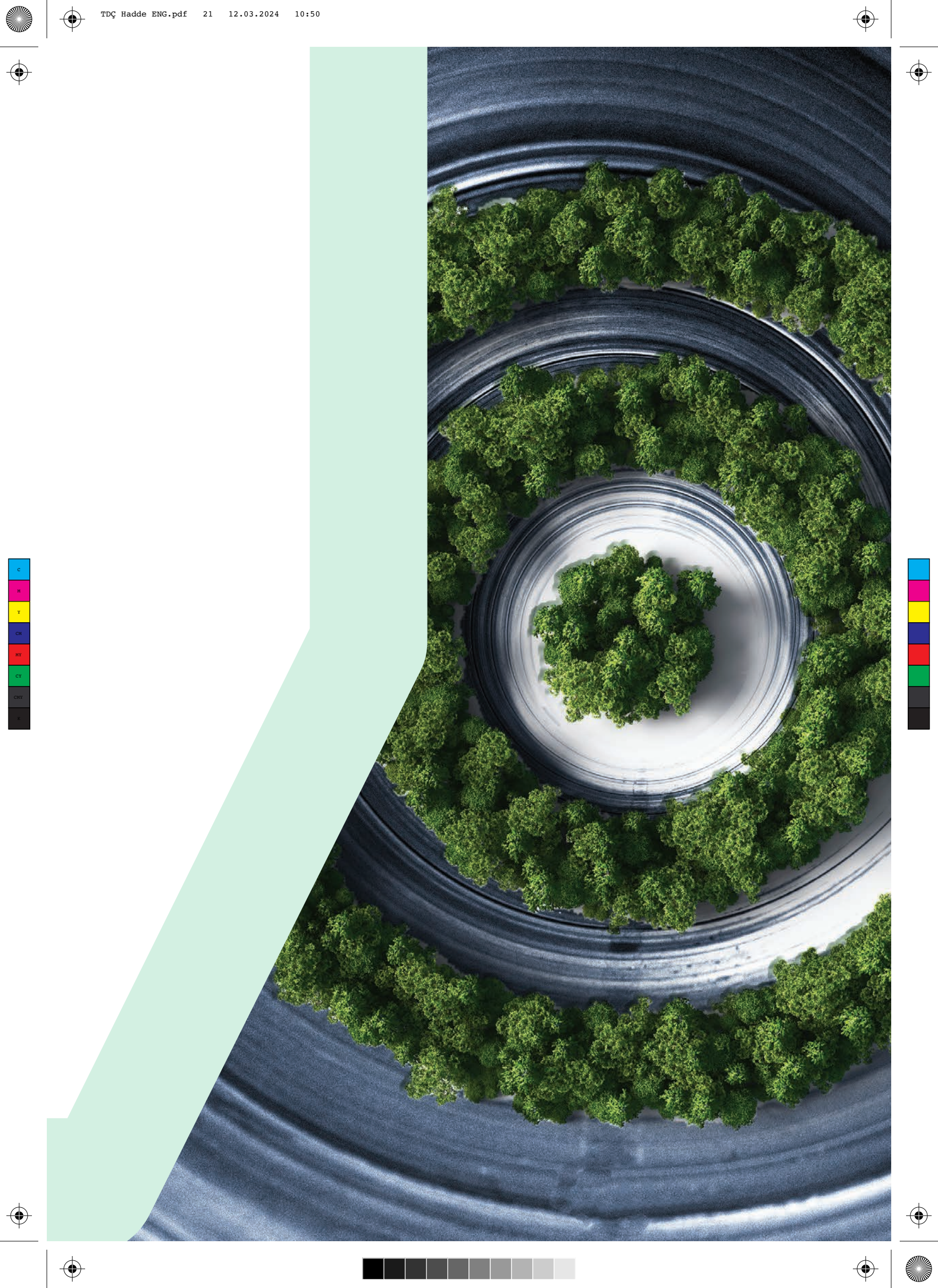
We aim to be the world's leading sustainable green steel producer with the lowest carbon footprint.

“

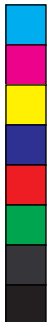
“V” are ready to be “Green”!

V-Green.
Vision Green.











TOSYALI Demir Çelik

İskenderun Factory

Organize Sanayi Bölgesi
İskenderun / Hatay

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