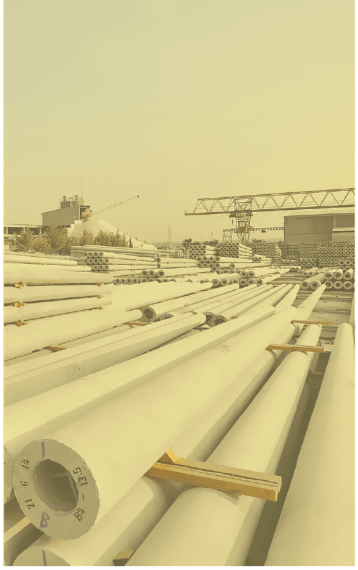


KAMBETON

ENERGY TRANSMISSION ELEMENTS

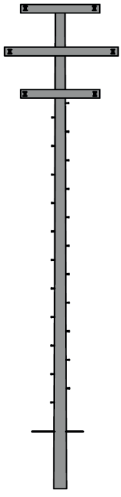
ENERGY TRANSMISSION ELEMENTS

- Utility Poles
- Cross Arm
- Catenary Poles
- Transformer Poles
- Lighting and Camera Poles
- Cable Ducts
- TEDAŞ Chambers
- Distribution Board Pedestals

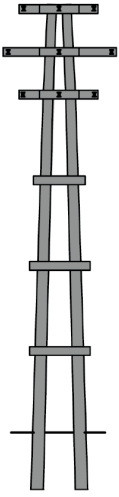
UTILITY POLES

They are reinforced concrete poles used in the low and medium voltage lines in the utility electricity transmission lines in the cities. The poles, which are produced using the centrifugal technique, may have a height up to 25 m.

Peak Strength (kg)	STANDARD TORSION AG-OG BASIC DIMENSIONS (cm)																	
	POLE DIMENSION (meters)																	
	9.30	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
150	60	60	60		-	-	-	-	-	-	-	-	-	-	-	-	-	
200	60	60	60	70	-	-	-	-	-	-	-	-	-	-	-	-	-	
250	60	60	60	70	-	-	-	-	-	-	-	-	-	-	-	-	-	
300	70	80	70	70	80	80	80	-	-	-	-	-	-	-	-	-	-	
350	80	80	70	70	80	80	80	-	-	-	-	-	-	-	-	-	-	
400	90	90	80	80	80	80	80	-	-	-	-	-	-	-	-	-	-	
500	100	90	80	80	80	80	80	80	80	80	90	90	-	-	-	-	-	
600	110	120	100	80	80	80	80	80	90	100	100	100	110	110	-	-	-	
700	120	130	110	80	90	90	90	100	110	110	110	110	120	120	130	-	-	
800	130	140	120	90	100	100	100	100	110	120	120	120	130	130	140	140	140	
900	140	150	130	100	110	110	110	110	120	130	130	130	140	140	150	150	150	
1000	150	160	140	100	110	110	120	120	130	130	140	140	150	150	150	160	160	
1100	160	170	140	110	110	120	130	130	140	140	150	150	150	160	160	170	170	
1200	170	170	150	110	120	130	130	140	140	150	150	160	160	170	170	170	170	
1300	170	180	160	120	130	130	140	140	150	160	160	160	170	170	180	180	180	
1400	180	190	160	130	130	140	150	150	160	160	170	170	180	180	190	190	190	
1500	190	190	170	130	140	150	150	160	170	170	170	180	180	190	190	200	200	
1600	190	200	180	140	140	150	160	160	170	170	180	180	190	190	200	200	210	
1700	200	200	180	140	150	160	160	170	180	180	190	190	190	200	200	210	210	
1800	200	210	190	150	150	160	170	170	190	190	190	200	200	210	210	210	220	
1900	210	210	190	160	160	170	170	180	190	190	200	200	210	210	220	220	230	
2000	210	220	200	160	160	170	180	180	190	190	200	210	210	220	220	230	230	
2100	220	230	200	160	170	170	180	190	200	200	210	210	220	220	230	230	240	
2200	220	230	210	170	170	180	190	190	210	210	210	220	220	230	230	240	240	
2300	230	230	210	170	180	180	190	200	210	210	220	230	230	230	240	240	250	
2400	230	240	210	180	180	190	190	200	210	210	230	230	230	240	240	250	250	
2500	240	240	220	180	180	190	200	210	220	220	230	230	240	240	250	250	250	
2600	240	250	220	180	190	190	200	210	220	220	230	240	240	240	250	250	250	
2700	240	250	230	190	190	200	210	210	230	230	240	240	240	250	250	260	260	
2800	250	260	230	190	190	200	210	220	230	230	240	250	250	260	260	260	270	
2900	250	260	230	190	200	210	210	220	230	230	240	250	250	260	260	270	270	
3000	250	260	240	200	200	210	220	220	240	240	240	250	250	260	270	270	-	
3100	260	270	240	200	210	210	220	230	240	240	250	-	-	-	-	-	-	
3200	260	270	240	200	210	220	220	230	240	240	250	-	-	-	-	-	-	
3300	270	270	250	200	210	220	230	230	250	250	250	-	-	-	-	-	-	
3400	270	280	260	210	210	220	230	240	250	250	260	-	-	-	-	-	-	
3500	270	280	290	210	220	230	230	240	250	250	260	-	-	-	-	-	-	
Foundation Depth (cm)	120	120	150	200	200	200	200	200	200	200	200	200	200	200	200	200	200	



Tepe Kuvveti (kg)		STANDARD TORSION AG-OG POLE TOP & BASE DIAMETERS (mm)																	
		POLE DIMENSION (meters)																	
		9.30	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
150-250	a	130	130	130	130	-	-	-	-	-	-	-	-	-	-	-	-	-	
	b	270	280	295	310	-	-	-	-	-	-	-	-	-	-	-	-	-	
300-400	a	175	175	175	175	220	220	220	220	-	-	-	-	-	-	-	-	-	
	b	315	325	340	355	415	430	445	460	-	-	-	-	-	-	-	-	-	
500-700	a	220	220	220	220	220	220	220	220	220	220	220	265	265	265	265	-	-	
	b	360	370	385	400	415	430	445	460	475	490	505	565	580	595	610	-	-	
800-1200	a	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	
	b	405	415	430	445	460	475	490	505	520	535	550	565	580	595	610	625	640	
1300-2000	a	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	
	b	450	460	475	490	505	520	535	550	565	580	595	610	625	640	655	670	685	
2100-3000	a	355	355	355	355	355	355	355	355	355	355	355	355	355	355	355	355	340	
	b	495	505	520	535	550	565	580	595	610	625	640	655	670	685	700	715	715	
3100-3500	a	355	355	355	355	355	355	355	355	355	355	355	-	-	-	-	-	-	
	b	495	505	520	535	550	565	580	595	610	625	640	-	-	-	-	-	-	



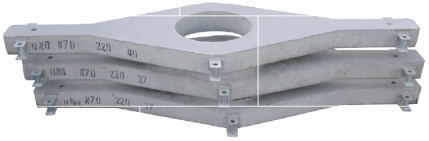
a: Top Diameter
b: Base Diameter

CROSS ARM

They are reinforced concrete elements used to carry conductive wires or cables. They are produced according to voltage levels as low voltage and high voltage types.

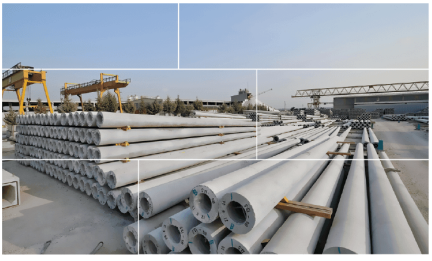
U-CLAMPS (M12)	
NO	POLE DIAMETER (mm)
U-1	130-175
U-2	175-220
U-3	220-265
U-4	265-310
U-5	310-355
U-6	355-400

POLE TOP DIAMETER (mm)	CROSS ARM HUB DIAMETERS (cm)		
	POLE TOP	1.5 m BELOW POLE TOP	3 m BELOW POLE TOP
130	17	20	22
175	22	25	27
220	27	30	32
265	32	35	37
310	37	40	42
355	42	45	47



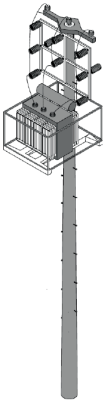
CATENARY POLES

They are reinforced concrete poles used in subways, light rail systems, and trams in the cities as well as the electrification lines of the Turkish State Railways (TCDD).



TRANSFORMER POLES

These poles are used to carry transformers with power ranging between 25 kW and 400 kW.

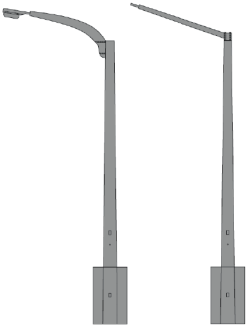


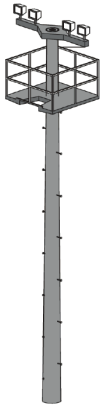
LIGHTING AND CAMERA POLES

These poles are generally used in roadsides, medians, roundabouts, and parking lot lighting applications. Camera poles are designed for MOBESE camera monitoring systems.

SIDE-MOUNTED CANTILEVER LIGHTING POLES 1% TAPER

TYPE NAME (t)	FOUNDATION DEPTH (m)	FOUNDATION WIDTH (m)	TOP DIAMETER (mm)	BASE DIAMETER (mm)	TYPE NAME (t)	FOUNDATION DEPTH (m)	FOUNDATION WIDTH (m)	TOP DIAMETER (mm)	BASE DIAMETER (mm)
AD-5-1	1	0,60	130	180	AD-13-1	2	0,8	160	290
AD-6-1	1	0,60	130	190	AD-13-2	2	0,8	160	290
AD-6-2	1	0,60	130	190	AD-13-3	2	0,8	160	290
AD-7-1	1	0,60	130	200	AD-13-4	2	0,8	170	300
AD-7-2	1	0,60	130	200	AD-14-1	2	0,8	160	300
AD-7-3	1	0,60	130	200	AD-14-2	2	0,9	160	300
AD-8-1	1	0,60	130	210	AD-14-3	2	0,9	160	300
AD-8-2	1	0,60	130	210	AD-14-4	2	0,9	170	310
AD-8-3	1	0,60	160	240	AD-15-1	2	0,9	160	310
AD-9-1	1	0,70	130	220	AD-15-2	2	0,9	160	310
AD-9-2	1	0,70	130	220	AD-15-3	2	0,9	160	310
AD-9-3	1	0,70	160	250	AD-15-4	2	0,9	170	320
AD-9-4	1	0,70	170	260	AD-16-1	2	0,9	160	320
AD-10-1	1,5	0,80	130	230	AD-16-2	2	0,9	160	320
AD-10-2	1,5	0,80	130	230	AD-16-3	2	0,9	160	320
AD-10-3	1,5	0,80	160	260	AD-16-4	2	0,9	170	330
AD-10-4	1,5	0,80	170	270	AD-17-1	2	1	160	330
AD-11-1	1,5	0,80	130	240	AD-17-2	2	1	160	330
AD-11-2	1,5	0,80	130	240	AD-17-3	2	1	160	330
AD-11-3	1,5	0,80	160	270	AD-17-4	2	1	170	340
AD-11-4	1,5	0,80	170	280	AD-18-1	2	1	160	340
AD-12-1	2	0,80	130	250	AD-18-2	2	1	160	340
AD-12-2	2	0,80	130	250	AD-18-3	2	1	160	340
AD-12-3	2	0,80	160	280	AD-18-4	2	1	170	350
AD-12-4	2	0,80	170	290					





TOP-MOUNTED CANTILEVER LIGHTING POLES 1% TAPER

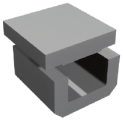
TYPE NAME (t)	FOUNDATION DEPTH (m)	FOUNDATION WIDTH (m)	TOP DIAMETER (mm)	BASE DIAMETER (mm)	TYPE NAME (t)	FOUNDATION DEPTH (m)	FOUNDATION WIDTH (m)	TOP DIAMETER (mm)	BASE DIAMETER (mm)
ADN-5-1	1	0,6	130	180	ADN-13-1	2	0,8	160	290
ADN-6-1	1	0,6	130	190	ADN-13-2	2	0,8	160	290
ADN-6-2	1	0,6	130	190	ADN-13-3	2	0,8	160	290
ADN-7-1	1	0,6	130	200	ADN-13-4	2	0,8	170	300
ADN-7-2	1	0,6	130	200	ADN-14-1	2	0,9	160	300
ADN-7-3	1	0,6	130	200	ADN-14-2	2	0,9	160	300
ADN-8-1	1	0,6	130	210	ADN-14-3	2	0,9	160	300
ADN-8-2	1	0,6	130	210	ADN-14-4	2	0,9	170	310
ADN-8-3	1	0,7	130	210	ADN-15-1	2	0,9	160	310
ADN-9-1	1	0,7	130	220	ADN-15-2	2	0,9	160	310
ADN-9-2	1	0,7	130	220	ADN-15-3	2	0,9	160	310
ADN-9-3	1	0,7	160	250	ADN-15-4	2	1	170	320
ADN-9-4	1	0,8	160	250	ADN-16-1	2	1	160	320
ADN-10-1	1,5	0,8	130	230	ADN-16-2	2	1	160	320
ADN-10-2	1,5	0,8	130	230	ADN-16-3	2	1	160	320
ADN-10-3	1,5	0,8	160	260	ADN-16-4	2	1	170	330
ADN-10-4	1,5	0,8	160	260	ADN-17-1	2	1	160	330
ADN-11-1	1,5	0,8	130	240	ADN-17-2	2	1	160	330
ADN-11-2	1,5	0,8	130	240	ADN-17-3	2	1	160	330
ADN-11-3	1,5	0,8	160	270	ADN-17-4	2	1	170	340
ADN-11-4	1,5	0,8	160	270	ADN-18-1	2	1	160	340
ADN-12-1	2	0,8	160	280	ADN-18-2	2	1	160	340
ADN-12-2	2	0,8	160	280	ADN-18-3	2	1	160	340
ADN-12-3	2	0,8	160	280	ADN-18-4	2	1	170	350
ADN-12-4	2	0,8	160	280					

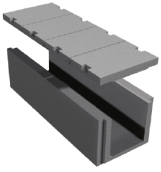
FLOODLIGHT POLES (Cross Arm Used (T50-220))

POLE TYPE	POLE HEIGHT (m)	POLE TOP DIAMETER (mm)	POLE FOUNDATION DEPTH (m)	FOUNDATION WIDTH (m)
PD-12/300	12	175	2	0,7
PD-13/350	13	220	2	0,8
PD-14/350	14	220	2	0,8
PD-15/350	15	220	2	0,8
PD-16/400	16	220	2	0,8
PD-17/500	17	220	2	0,8
PD-18/500	18	220	2	0,8
PD-19/600	19	220	2	1
PD-20/700	20	220	2	1,1
PD-21/800	21	220	2	1,3
PD-22/800	22	220	2	1,3
PD-23/800	23	265	2	1,4
PD-24/800	24	265	2	1,4
PD-25/800	25	265	2	1,4

CABLE DUCTS

They are concrete and reinforced concrete ducts used in signaling and infrastructure applications.

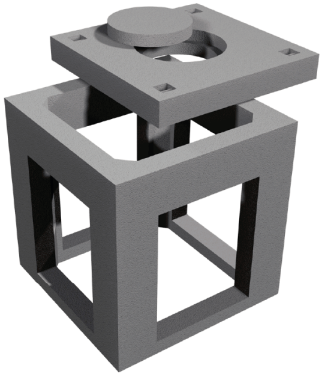




TYPE	WIDTH (cm)	HEIGHT (cm)	LENGTH (cm)	WEIGHT (kg)
Cable Channel	50	50	200	991
Cover	75	9	50	90
TCDD Type Cable Channel	41	23	40	54
TCDD Type Cover	41	8	40	35
Telephone Signaling Foundation Block	30	40	50	153
Signaling Foundation Block	50	50	50	325
Signaling Foundation Block	60	70	100	1063
Barrier Panel Foundation Block	64	44	80	686
Barrier Signaling Foundation Block	60	70	80	853
Barrier Foundation Block	96.5	110	83	1309

TEDAŞ CHAMBERS

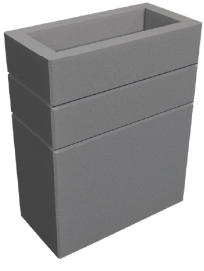
These manholes are used to make the connections of conductor wires or cables laid underground.



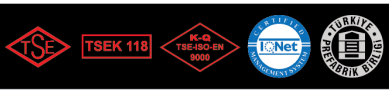
TYPE	WIDTH (cm)	LENGTH (cm)	HEIGHT (cm)	WEIGHT (kg)
TEDAŞ Type Chamber	150	150	150	1950
TEDAŞ Type Square Chamber Cover	150	150	20	985
Chamber Cover Q64*8	-	-	-	106,5

DISTRIBUTION BOARD PEDESTALS

These pedestals are used as a base for the distribution boards to provide an inlet for the conductor wires or cables laid underground to the board above the ground.



TYPE	WIDTH (cm)	LENGTH (cm)	HEIGHT (cm)	WEIGHT (kg)
TYPE 1	43	93	100	423
TYPE 2	43	93	80	341
TYPE 3	43	93	60	256
TYPE 4	35	75	60	191
TYPE 5	35	75	80	251
TYPE 6	40	80	100	341
TYPE 7	40	60	100	276
TYPE 8	35	75	100	309



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