

Table 1. List of Values for Parameters

ME 308

MACHINE ELEMENTS II 2021-2022 FIRST PROJECT TORSIONAL SPRING (DT)

NO	SURNAME, NAME	SPRING MATERIALS	UNLOADED ANGLE	LOAD	END CONDITIONS	RELIABILITY	DISTANCE FROM CENTER OF COIL (h)	FACTOR OF SAFETY	EXPECTED LIFE
1	AHMET ABRA	Music wire	30°	0-6 kg	Hot Rolled	90%	5 cm	2.00	3x10 ⁵
2	EMİNCAN AÇIKEL	HD wire	20°	0-4 kg	Hot Rolled	95%	7 cm	1.50	6x10 ⁵
3	ABDULKADER AKOUSH	Oil tempered	25°	0-4 kg	Hot Rolled	99%	5 cm	1.50	9x10 ⁵
4	OMAR KHALID MOSLEH AL THIBANY	Oil tempered	25°	0-2 kg	Ground	90%	5 cm	2.50	Infinite
5	MELİH BURAK ALBAYRAM	HD wire	25°	0-4 kg	Hot Rolled	99%	7 cm	3.00	6x10 ⁵
6	MUHAMMED İKBAL ARIKAN	Music wire	30°	0-2 kg	Polished	90%	5 cm	2.50	3x10 ⁵
7	ALPTUĞ ARSLAN	HD wire	20°	0-2 kg	Ground	90%	6 cm	2.50	9x10 ⁵
8	ABDULAZİZ ASLAN	Music wire	20°	0-4 kg	Hot Rolled	90%	6 cm	2.00	Infinite
9	ERDİNÇ ASLAN	HD wire	30°	0-2 kg	Hot Rolled	95%	5 cm	3.00	6x10 ⁵
10	ABDULSAMET ATILAN	HD wire	25°	0-6 kg	Ground	90%	5 cm	3.00	6x10 ⁵
11	KHANT PHYO AUNG	HD wire	25°	0-6 kg	Polished	99%	5 cm	2.50	9x10 ⁵
12	SERKAN AYHAN	Music wire	25°	0-2 kg	Hot Rolled	99%	7 cm	2.00	Infinite
13	MUHAMMET ALİ BAĞCI	Oil tempered	30°	0-4 kg	Hot Rolled	99%	6 cm	3.00	3x10 ⁵
14	SÜLEYMAN EMRE BALCI	Music wire	25°	0-2 kg	Polished	99%	6 cm	2.50	6x10 ⁵
15	MEHMET ŞÜKRÜ BALOĞLU	Oil tempered	25°	0-6 kg	Polished	90%	5 cm	2.50	9x10 ⁵
16	ENES EMRE BOLAT	HD wire	25°	0-4 kg	Hot Rolled	90%	6 cm	2.50	Infinite
17	CAFER BUĞDAYCI	Music wire	25°	0-2 kg	Ground	95%	7 cm	2.00	3x10 ⁵
18	MEHMET BULUŞ	Oil tempered	25°	0-6 kg	Hot Rolled	90%	5 cm	3.00	6x10 ⁵
19	CENGİZ EMRE BÜYÜKERDEM	HD wire	25°	0-4 kg	Ground	95%	6 cm	2.50	9x10 ⁵
20	YAVUZ CAN	Oil tempered	25°	0-2 kg	Hot Rolled	99%	6 cm	3.00	3x10 ⁵
21	YUNUS EMRE CESUR	Oil tempered	30°	0-4 kg	Ground	95%	7 cm	1.50	6x10 ⁵
22	ADEM MERT ÇAKICI	Music wire	25°	0-6 kg	Polished	90%	6 cm	2.00	9x10 ⁵
23	GÖRKEM ÇELİK	HD wire	25°	0-6 kg	Polished	95%	6 cm	2.00	Infinite
24	AHMET ÇELİKÇİ	HD wire	20°	0-6 kg	Hot Rolled	90%	7 cm	2.00	6x10 ⁵
25	YUNUS EMRE ÇİMEN	Music wire	30°	0-4 kg	Polished	95%	5 cm	3.00	3x10 ⁵
26	BURAK ÇORAK	HD wire	25°	0-4 kg	Hot Rolled	90%	7 cm	2.00	9x10 ⁵
27	EBRU DAĞDEVİREN	Oil tempered	20°	0-2 kg	Hot Rolled	99%	6 cm	3.00	Infinite
28	VAEL DEBSİ	Oil tempered	25°	0-4 kg	Ground	90%	7 cm	2.00	6x10 ⁵

29	CAHİT YUNUS EMRE DEMİREL	HD wire	25°	0-6 kg	Hot Rolled	99%	5 cm	2.00	6x10 ⁵
30	İREM DİRDİYOK	Oil tempered	25°	0-4 kg	Polished	99%	5 cm	1.50	9x10 ⁵
31	BARAN DENİZ DOĞAN	HD wire	25°	0-6 kg	Polished	95%	6 cm	2.50	Infinite
32	OĞUZ DOĞAN	HD wire	30°	0-6 kg	Ground	90%	6 cm	3.00	3x10 ⁵
33	SERHAT DOLUNAY	Oil tempered	20°	0-6 kg	Ground	90%	5 cm	1.50	6x10 ⁵
34	FERHAT DURAK	Oil tempered	30°	0-6 kg	Hot Rolled	99%	6 cm	2.50	9x10 ⁵
35	NEVZAT DURMUŞ	HD wire	20°	0-4 kg	Polished	95%	7 cm	2.50	Infinite
36	MUHAMMET OĞUZ ELMA	Oil tempered	25°	0-6 kg	Ground	90%	5 cm	3.00	3x10 ⁵
37	YUSUF ERBAĞCI	Oil tempered	30°	0-4 kg	Polished	95%	7 cm	1.50	6x10 ⁵
38	HAKAN EREN	Music wire	25°	0-4 kg	Ground	95%	6 cm	2.50	9x10 ⁵
39	HÜSEYİN YAĞIZ ERGİN	Oil tempered	30°	0-4 kg	Polished	99%	6 cm	1.50	3x10 ⁵
40	ERAY ERYILMAZ	HD wire	25°	0-2 kg	Polished	99%	6 cm	2.00	6x10 ⁵
41	MUSTAFA ESKİ	Music wire	25°	0-4 kg	Hot Rolled	90%	6 cm	2.50	9x10 ⁵
42	MÜCAHİD ESKİCİOĞLU	Music wire	20°	0-2 kg	Ground	90%	7 cm	1.50	Infinite
43	ALTAN BERDAN EVSEN	Music wire	30°	0-4 kg	Hot Rolled	95%	6 cm	3.00	6x10 ⁵
44	HASAN ASRINSU FIÇICI	HD wire	30°	0-4 kg	Polished	90%	6 cm	2.00	3x10 ⁵
45	AHMET FIRTINA	HD wire	30°	0-6 kg	Hot Rolled	90%	7 cm	3.00	9x10 ⁵
46	BERKAN GELİNCİK	HD wire	20°	0-6 kg	Hot Rolled	99%	5 cm	2.50	Infinite
47	EMİR TALAT GÖKTEPE	Music wire	25°	0-2 kg	Ground	90%	7 cm	2.50	6x10 ⁵
48	ALİ GÜNEŞ	Oil tempered	25°	0-2 kg	Hot Rolled	99%	7 cm	1.50	6x10 ⁵
49	MEHMET İSLAM GÜRBÜZ	Oil tempered	25°	0-6 kg	Hot Rolled	99%	6 cm	1.50	9x10 ⁵
50	MUSA GÜVEN	Oil tempered	30°	0-4 kg	Ground	99%	7 cm	1.50	Infinite
51	NASIR HACIBOZAN	HD wire	30°	0-4 kg	Hot Rolled	90%	6 cm	1.50	3x10 ⁵
52	HASSAN MAHAD HASSAN	Oil tempered	20°	0-4 kg	Ground	99%	6 cm	3.00	6x10 ⁵
53	MOHAMMAD QUTAIBA HEREH	HD wire	25°	0-2 kg	Hot Rolled	90%	5 cm	2.50	9x10 ⁵
54	ILKIN HUSEYNZADE	HD wire	30°	0-6 kg	Ground	90%	5 cm	2.50	Infinite
55	FEYYAZ İNANÇ	Oil tempered	30°	0-4 kg	Polished	99%	5 cm	3.00	3x10 ⁵
56	EMİR İŞLEM	Oil tempered	30°	0-6 kg	Ground	95%	6 cm	2.50	6x10 ⁵
57	FURKAN KABALAR	Oil tempered	25°	0-4 kg	Ground	99%	5 cm	3.00	9x10 ⁵
58	FURKAN KALLE	Music wire	30°	0-4 kg	Ground	99%	5 cm	2.50	3x10 ⁵
59	ÖMER FARUK KARA	Oil tempered	25°	0-6 kg	Hot Rolled	95%	5 cm	2.00	6x10 ⁵
60	KEREM KARABULUT	Oil tempered	30°	0-4 kg	Ground	99%	6 cm	1.50	9x10 ⁵
61	FATİH KARADAMAR	HD wire	25°	0-4 kg	Hot Rolled	95%	5 cm	2.50	Infinite
62	MEHMET ZİYA KARAGÖZ	Oil tempered	20°	0-2 kg	Ground	90%	7 cm	2.50	6x10 ⁵
63	ÖMER FARUK KARPUZCU	HD wire	30°	0-4 kg	Polished	90%	5 cm	2.50	3x10 ⁵
64	YUSUF KASAKOLU	HD wire	20°	0-4 kg	Ground	99%	7 cm	2.50	9x10 ⁵

65	BAHRİ SERDAR KAŞ	Music wire	25°	0-4 kg	Ground	95%	6 cm	1.50	Infinite
66	MEHMET FATİH KAYA	HD wire	30°	0-4 kg	Hot Rolled	90%	5 cm	3.00	6x10 ⁵
67	AYKUT KAYIHAN	Oil tempered	30°	0-2 kg	Ground	90%	5 cm	2.00	6x10 ⁵
68	MELİH CAN KAYIKÇI	Music wire	30°	0-2 kg	Polished	95%	5 cm	3.00	9x10 ⁵
69	MEHMET KAAN KESKİNTİMUR	Music wire	25°	0-6 kg	Ground	99%	7 cm	2.00	Infinite
70	VOLKAN KESKİNTİMUR	Oil tempered	20°	0-6 kg	Ground	90%	6 cm	2.00	3x10 ⁵
71	BERDAR KILIÇ	Music wire	25°	0-4 kg	Polished	90%	6 cm	2.00	6x10 ⁵
72	UĞUR KILIÇ	HD wire	25°	0-4 kg	Polished	90%	7 cm	3.00	9x10 ⁵
73	MUSTAFA BURAK KOCA	Oil tempered	25°	0-6 kg	Hot Rolled	90%	5 cm	2.00	Infinite
74	EDA NUR KOÇ	Oil tempered	25°	0-6 kg	Ground	95%	6 cm	3.00	3x10 ⁵
75	TURAN KOÇER	Oil tempered	20°	0-6 kg	Hot Rolled	99%	7 cm	1.50	6x10 ⁵
76	AHMET KÖKLÜ	Oil tempered	30°	0-4 kg	Hot Rolled	99%	6 cm	1.50	9x10 ⁵
77	MEHMET KURT	HD wire	25°	0-4 kg	Ground	99%	6 cm	3.00	6x10 ⁵
78	AHMET SELİM KUTUKIZ	Music wire	30°	0-2 kg	Polished	99%	7 cm	2.00	Infinite
79	OĞUZHAN KÜÇÜKDURAN	Oil tempered	25°	0-6 kg	Ground	90%	7 cm	3.00	3x10 ⁵
80	MUHAMMED ALİ MANSUR	Music wire	30°	0-6 kg	Polished	95%	7 cm	2.00	6x10 ⁵
81	TANER MULLAHAMUT	Oil tempered	25°	0-2 kg	Ground	90%	5 cm	1.50	9x10 ⁵
82	EKİN OĞUZ	HD wire	30°	0-2 kg	Polished	95%	5 cm	2.50	Infinite
83	ALİ OTHMAN	Oil tempered	25°	0-4 kg	Hot Rolled	90%	6 cm	2.00	3x10 ⁵
84	HAKAN ÖZ	HD wire	20°	0-2 kg	Polished	99%	5 cm	3.00	6x10 ⁵
85	ENES ERKAN ÖZCAN	Music wire	20°	0-6 kg	Hot Rolled	95%	7 cm	1.50	9x10 ⁵
86	ALİ ÖZDEMİR	Oil tempered	30°	0-2 kg	Hot Rolled	99%	6 cm	2.00	3x10 ⁵
87	HALİL İBRAHİM ÖZDEMİR	HD wire	30°	0-2 kg	Ground	95%	5 cm	2.50	6x10 ⁵
88	SELAMİ ÖZDEMİR	Oil tempered	25°	0-4 kg	Polished	99%	6 cm	3.00	9x10 ⁵
89	GÜLÇEHRE ÖZER	Music wire	25°	0-2 kg	Polished	95%	7 cm	2.50	Infinite
90	ZÜLKÜF ÖZER	HD wire	20°	0-6 kg	Ground	90%	5 cm	2.50	6x10 ⁵
91	OZAN ÖZGEN	HD wire	20°	0-6 kg	Polished	99%	6 cm	2.00	3x10 ⁵
92	ENES ÖZHAN	Oil tempered	20°	0-6 kg	Ground	99%	5 cm	3.00	9x10 ⁵
93	YUSUF ARDA ÖZMADEN	Oil tempered	25°	0-6 kg	Ground	90%	6 cm	2.50	Infinite
94	ABDULSAMET ÖZÖRNEK	Oil tempered	30°	0-6 kg	Polished	95%	6 cm	2.00	6x10 ⁵
95	SELİNAY ÖZPINAR	Music wire	25°	0-2 kg	Hot Rolled	95%	7 cm	2.00	6x10 ⁵
96	HALİL İBRAHİM ÖZTÜRK	HD wire	30°	0-6 kg	Hot Rolled	99%	6 cm	2.50	9x10 ⁵
97	ORKUN ÖZTÜRK	HD wire	30°	0-4 kg	Polished	99%	5 cm	3.00	Infinite
98	GÜVEN PARLAK	HD wire	20°	0-6 kg	Ground	95%	6 cm	2.00	3x10 ⁵

99	HASAN ERCE PARS	HD wire	20°	0-6 kg	Ground	99%	5 cm	2.50	6x10 ⁵
100	ORKUN PEKSEL	Oil tempered	30°	0-6 kg	Ground	99%	5 cm	2.00	9x10 ⁵
101	CENGİZHAN PINAR	Music wire	30°	0-6 kg	Polished	99%	7 cm	2.50	Infinite
102	YILDIRIM ATAKAN POLAT	Oil tempered	20°	0-6 kg	Polished	99%	6 cm	1.50	3x10 ⁵
103	ALİ YILMAZ PORTAKAL	Oil tempered	25°	0-2 kg	Hot Rolled	99%	7 cm	3.00	6x10 ⁵
104	TOJO TSILAVINA RAJAONARY	Music wire	25°	0-6 kg	Polished	90%	5 cm	2.50	9x10 ⁵
105	TUĞÇE SARIOĞLU	Music wire	30°	0-4 kg	Hot Rolled	90%	6 cm	2.00	6x10 ⁵
106	HALİL SERT	Music wire	25°	0-4 kg	Ground	99%	6 cm	3.00	Infinite
107	İBRAHİM TAHA SOLMAZ	HD wire	30°	0-2 kg	Polished	95%	6 cm	2.00	3x10 ⁵
108	SULTAN TUÇE SÖNMEZ	Oil tempered	25°	0-2 kg	Hot Rolled	95%	6 cm	1.50	6x10 ⁵
109	SERHAT SÜMER	Music wire	30°	0-4 kg	Hot Rolled	99%	6 cm	1.50	9x10 ⁵
110	ALİ HÜSEYİN SÜRME	Oil tempered	30°	0-2 kg	Polished	95%	6 cm	2.50	3x10 ⁵
111	EDİP EMRE ŞAHUTOĞLU	Oil tempered	20°	0-2 kg	Polished	99%	6 cm	2.50	6x10 ⁵
112	SAMET ŞEN	HD wire	25°	0-6 kg	Ground	90%	7 cm	1.50	9x10 ⁵
113	MEHMET TANLAK	HD wire	25°	0-4 kg	Hot Rolled	99%	5 cm	3.00	Infinite
114	BURAK TEMUÇİN	Music wire	30°	0-6 kg	Hot Rolled	99%	6 cm	2.00	6x10 ⁵
115	EREN TOPRAKCI	Music wire	20°	0-6 kg	Ground	90%	6 cm	2.50	3x10 ⁵
116	GÖKTUĞ TOSUNOĞLU	HD wire	20°	0-6 kg	Polished	90%	5 cm	2.00	9x10 ⁵
117	YUSUF TÖRÜNER	Music wire	30°	0-6 kg	Hot Rolled	90%	6 cm	3.00	Infinite
118	MEHMET BAHA TUFAN	Oil tempered	30°	0-4 kg	Polished	99%	7 cm	2.00	6x10 ⁵
119	MEMET TUNÇEKİN	Music wire	30°	0-2 kg	Ground	90%	6 cm	2.50	6x10 ⁵
120	TAHA TÜRKAN	Music wire	30°	0-6 kg	Polished	95%	5 cm	2.50	9x10 ⁵
121	İLKER UÇANSU	Oil tempered	30°	0-2 kg	Hot Rolled	90%	6 cm	2.00	Infinite
122	VEYSEL ULUTAŞ	Music wire	20°	0-2 kg	Ground	95%	7 cm	3.00	3x10 ⁵
123	EMRE YALÇIN	HD wire	30°	0-4 kg	Ground	95%	6 cm	2.50	6x10 ⁵
124	MUHAMMED BATUHAN YALÇIN	HD wire	25°	0-4 kg	Ground	99%	7 cm	2.00	9x10 ⁵
125	EYÜP YALUK	Music wire	25°	0-4 kg	Hot Rolled	99%	6 cm	1.50	Infinite
126	İBRAHİM YAMAN	Oil tempered	20°	0-4 kg	Polished	99%	6 cm	3.00	3x10 ⁵

127	MUHAMMET MUSTAFA YAN	HD wire	25°	0-4 kg	Ground	90%	7 cm	2.50	6x10 ⁵
128	İBRAHİM OĞUZHAN YILMAZ	Music wire	30°	0-6 kg	Hot Rolled	95%	5 cm	2.00	9x10 ⁵
129	ZÜLKÜF YİĞİTALP	Oil tempered	25°	0-4 kg	Hot Rolled	95%	7 cm	2.50	6x10 ⁵
130	MUSTAFA HÜSEYİN ZEYTUN	Oil tempered	20°	0-2 kg	Hot Rolled	99%	7 cm	1.50	Infinite

ME 308
MACHINE ELEMENTS II
2021-2022 FIRST PROJECT TORSIONAL SPRING (ET)

NO	SURNAME, NAME	SPRING MATERIALS	UNLOADED ANGLE	LOAD	END CONDITIONS	RELIABILITY	DISTANCE FROM CENTER OF COIL (h)	FACTOR OF SAFETY	EXPECTED LIFE
1	BERKAY ACIR	HD wire	25°	0-4 kg	Ground	95%	6 cm	2.50	9x10 ⁵
2	DEVİRİM AÇIKEL	Oil tempered	25°	0-2 kg	Hot Rolled	99%	6 cm	3.00	3x10 ⁵
3	OĞUZHAN ADIGÜZEL	Oil tempered	30°	0-4 kg	Ground	95%	7 cm	1.50	6x10 ⁵
4	BİLAL AFOURA	Music wire	25°	0-6 kg	Polished	90%	6 cm	2.00	9x10 ⁵
5	ZELİHA AKARSU	HD wire	25°	0-6 kg	Polished	95%	6 cm	2.00	Infinite
6	BERKAY AKAY	HD wire	20°	0-6 kg	Hot Rolled	90%	7 cm	2.00	6x10 ⁵
7	HALİL İBRAHİM AKDEMİR	Music wire	30°	0-4 kg	Polished	95%	5 cm	3.00	3x10 ⁵
8	ÖZNUR AKDIŞ	HD wire	25°	0-4 kg	Hot Rolled	90%	7 cm	2.00	9x10 ⁵
9	MİZGİN AKGÜL	Oil tempered	20°	0-2 kg	Hot Rolled	99%	6 cm	3.00	Infinite
10	COŞKUN CAN AKSOY	Oil tempered	25°	0-4 kg	Ground	90%	7 cm	2.00	6x10 ⁵
11	DENİZ AKYILDIZ	HD wire	25°	0-6 kg	Hot Rolled	99%	5 cm	2.00	6x10 ⁵
12	OMAR AL AZZI	Oil tempered	25°	0-4 kg	Polished	99%	5 cm	1.50	9x10 ⁵
13	AMER ALBOUSHI	HD wire	25°	0-6 kg	Polished	95%	6 cm	2.50	Infinite
14	METEHAN ARAS	HD wire	30°	0-6 kg	Ground	90%	6 cm	3.00	3x10 ⁵
15	MUSTAFA ARAY	Oil tempered	20°	0-6 kg	Ground	90%	5 cm	1.50	6x10 ⁵
16	MUSTAFA ARSLAN	Oil tempered	30°	0-6 kg	Hot Rolled	99%	6 cm	2.50	9x10 ⁵
17	BURAK ASLANER	HD wire	20°	0-4 kg	Polished	95%	7 cm	2.50	Infinite
18	ATAKAN AYDIN	Oil tempered	25°	0-6 kg	Ground	90%	5 cm	3.00	3x10 ⁵
19	AYŞE NUR AYDIN	Oil tempered	30°	0-4 kg	Polished	95%	7 cm	1.50	6x10 ⁵
20	TAHA FURKAN AYDIN	Music wire	25°	0-4 kg	Ground	95%	6 cm	2.50	9x10 ⁵

21	İBRAHİM BAKIR	Oil tempered	30°	0-4 kg	Polished	99%	6 cm	1.50	3x10 ⁵
22	AYŞENUR BAŞIBÖYÜK	HD wire	25°	0-2 kg	Polished	99%	6 cm	2.00	6x10 ⁵
23	RECEP BEKTAŞ	Music wire	25°	0-4 kg	Hot Rolled	90%	6 cm	2.50	9x10 ⁵
24	TOLUNAY BOYAM	Music wire	20°	0-2 kg	Ground	90%	7 cm	1.50	Infinite
25	BESTAMİ BURĞAÇ	Music wire	30°	0-4 kg	Hot Rolled	95%	6 cm	3.00	6x10 ⁵
26	TAHA ANIL BÜYÜKERDEM	HD wire	30°	0-4 kg	Polished	90%	6 cm	2.00	3x10 ⁵
27	SÜLEYMAN MERT CALBAN	HD wire	30°	0-6 kg	Hot Rolled	90%	7 cm	3.00	9x10 ⁵
28	BURAK COŞAN	HD wire	20°	0-6 kg	Hot Rolled	99%	5 cm	2.50	Infinite
29	GÖRKEM ÇALAĞ	Music wire	25°	0-2 kg	Ground	90%	7 cm	2.50	6x10 ⁵
30	ALİ İHSAN DENİZ ÇAVDAR	Oil tempered	25°	0-2 kg	Hot Rolled	99%	7 cm	1.50	6x10 ⁵
31	AKIN ÇELEBİ	Oil tempered	25°	0-6 kg	Hot Rolled	99%	6 cm	1.50	9x10 ⁵
32	BARIŞ ÇELİK	Oil tempered	30°	0-4 kg	Ground	99%	7 cm	1.50	Infinite
33	EGEMEN ÇELİK	HD wire	30°	0-4 kg	Hot Rolled	90%	6 cm	1.50	3x10 ⁵
34	MURAT ÇELİK	Oil tempered	20°	0-4 kg	Ground	99%	6 cm	3.00	6x10 ⁵
35	CAHİT ÇUHADAR	HD wire	25°	0-2 kg	Hot Rolled	90%	5 cm	2.50	9x10 ⁵
36	ATİLLA DAĞ	HD wire	30°	0-6 kg	Ground	90%	5 cm	2.50	Infinite
37	SİNAN DAĞDELEN	Oil tempered	30°	0-4 kg	Polished	99%	5 cm	3.00	3x10 ⁵
38	TAHSİN DEMİRAY	Oil tempered	30°	0-6 kg	Ground	95%	6 cm	2.50	6x10 ⁵
39	MEHMET YASİN DEMİRCAN	Oil tempered	25°	0-4 kg	Ground	99%	5 cm	3.00	9x10 ⁵
40	UMUT DEMİRCİ	Music wire	30°	0-4 kg	Ground	99%	5 cm	2.50	3x10 ⁵
41	MUSTAFA DEMİRELLİ	Oil tempered	25°	0-6 kg	Hot Rolled	95%	5 cm	2.00	6x10 ⁵
42	LEVENT DEMİRTEPE	Oil tempered	30°	0-4 kg	Ground	99%	6 cm	1.50	9x10 ⁵
43	MERVE DERE	Oil tempered	20°	0-6 kg	Ground	99%	5 cm	3.00	9x10 ⁵
44	MEHMET KAAAN DOĞAN	Oil tempered	25°	0-6 kg	Ground	90%	6 cm	2.50	Infinite
45	ENES DORUKER	Oil tempered	30°	0-6 kg	Polished	95%	6 cm	2.00	6x10 ⁵
46	UĞUR ENCAMİ	Music wire	25°	0-2 kg	Hot Rolled	95%	7 cm	2.00	6x10 ⁵
47	ÖZCAN ERDAL	HD wire	30°	0-6 kg	Hot Rolled	99%	6 cm	2.50	9x10 ⁵
48	YAŞAR DOĞUKAN ERDAL	HD wire	30°	0-4 kg	Polished	99%	5 cm	3.00	Infinite

49	ABDULLAH ERDOĞAN	HD wire	20°	0-6 kg	Ground	95%	6 cm	2.00	3x10 ⁵
50	ALİ GENÇ	HD wire	20°	0-6 kg	Ground	99%	5 cm	2.50	6x10 ⁵
51	ÇAĞATAY GEVREK	Oil tempered	30°	0-6 kg	Ground	99%	5 cm	2.00	9x10 ⁵
52	SERCAN GEVREK	Music wire	30°	0-6 kg	Polished	99%	7 cm	2.50	Infinite
53	REMZİ BERKAY GÖÇKEN	Oil tempered	20°	0-6 kg	Polished	99%	6 cm	1.50	3x10 ⁵
54	KAZIM GÖKCEN	Oil tempered	25°	0-2 kg	Hot Rolled	99%	7 cm	3.00	6x10 ⁵
55	KEMAL GÖKTAŞ	Music wire	25°	0-6 kg	Polished	90%	5 cm	2.50	9x10 ⁵
56	ŞİH ALİ GÖREN	Music wire	30°	0-4 kg	Hot Rolled	90%	6 cm	2.00	6x10 ⁵
57	NURTEN GÜNDOĞDU	Music wire	25°	0-4 kg	Ground	99%	6 cm	3.00	Infinite
58	İSA GÜNDÜZ	HD wire	30°	0-2 kg	Polished	95%	6 cm	2.00	3x10 ⁵
59	KADRIYE İREM GÜNEŞ	Oil tempered	25°	0-2 kg	Hot Rolled	95%	6 cm	1.50	6x10 ⁵
60	MELİH GÜNGÖR	Music wire	30°	0-4 kg	Hot Rolled	99%	6 cm	1.50	9x10 ⁵
61	AHMET YİĞİT HAN	Oil tempered	30°	0-2 kg	Polished	95%	6 cm	2.50	3x10 ⁵
62	BİLAL EMRE HİZMETÇİ	Oil tempered	20°	0-2 kg	Polished	99%	6 cm	2.50	6x10 ⁵
63	CANSEL HURİYETOĞLU	HD wire	25°	0-6 kg	Ground	90%	7 cm	1.50	9x10 ⁵
64	MEHMET ALİ HÜRİYETOĞLU	HD wire	25°	0-4 kg	Hot Rolled	99%	5 cm	3.00	Infinite
65	İLKER MERT İLHAN	Music wire	30°	0-6 kg	Hot Rolled	99%	6 cm	2.00	6x10 ⁵
66	KEMAL İYİSARAÇ	Music wire	20°	0-6 kg	Ground	90%	6 cm	2.50	3x10 ⁵
67	MERT KAHVECİ	HD wire	20°	0-6 kg	Polished	90%	5 cm	2.00	9x10 ⁵
68	ATAKAN FATİH KALE	Music wire	30°	0-6 kg	Hot Rolled	90%	6 cm	3.00	Infinite
69	SEMİH KAPLAN	Oil tempered	30°	0-4 kg	Polished	99%	7 cm	2.00	6x10 ⁵
70	TURGAY KARABULUT	Music wire	30°	0-2 kg	Ground	90%	6 cm	2.50	6x10 ⁵
71	MEHMET EMRE KARACALIOĞLU	Music wire	30°	0-6 kg	Polished	95%	5 cm	2.50	9x10 ⁵
72	YUNUS EKİM KARADENİZ	Oil tempered	30°	0-2 kg	Hot Rolled	90%	6 cm	2.00	Infinite
73	İSMET KAYA	Music wire	20°	0-2 kg	Ground	95%	7 cm	3.00	3x10 ⁵
74	NECMETTİN KAYA	HD wire	30°	0-4 kg	Ground	95%	6 cm	2.50	6x10 ⁵
75	MUSTAFA BERKAY KAYMAZ	HD wire	25°	0-4 kg	Ground	99%	7 cm	2.00	9x10 ⁵
76	ÖMER KENNES	Music wire	25°	0-4 kg	Hot Rolled	99%	6 cm	1.50	Infinite

77	ABDULLAH KERİMOĞLU	Oil tempered	20°	0-4 kg	Polished	99%	6 cm	3.00	3x10 ⁵
78	EKREM KESER	HD wire	25°	0-4 kg	Ground	90%	7 cm	2.50	6x10 ⁵
79	NİYAZİ KIRAÇ	Music wire	30°	0-6 kg	Hot Rolled	95%	5 cm	2.00	9x10 ⁵
80	ALİ NAKİ KOŞDAŞ	Oil tempered	25°	0-4 kg	Hot Rolled	95%	7 cm	2.50	6x10 ⁵
81	HASAN ENES KÖK	Oil tempered	20°	0-2 kg	Hot Rolled	99%	7 cm	1.50	Infinite
82	NECİP AHMET KÖROĞLU	Oil tempered	25°	0-6 kg	Hot Rolled	99%	6 cm	1.50	9x10 ⁵
83	ENES BERKAY KURT	Oil tempered	30°	0-4 kg	Ground	99%	7 cm	1.50	Infinite
84	MUSTAFA MERT METİN	HD wire	30°	0-4 kg	Hot Rolled	90%	6 cm	1.50	3x10 ⁵
85	MERT OĞUZ	Oil tempered	20°	0-4 kg	Ground	99%	6 cm	3.00	6x10 ⁵
86	KAYHAN OKUR	HD wire	25°	0-2 kg	Hot Rolled	90%	5 cm	2.50	9x10 ⁵
87	SERMEST OKUŞLUK	HD wire	30°	0-6 kg	Ground	90%	5 cm	2.50	Infinite
88	HAKAN ÖNDER	Oil tempered	30°	0-4 kg	Polished	99%	5 cm	3.00	3x10 ⁵
89	AHMET CEVDET ÖZBAY	Oil tempered	30°	0-6 kg	Ground	95%	6 cm	2.50	6x10 ⁵
90	HAKAN ÖZCAN	Oil tempered	25°	0-4 kg	Ground	99%	5 cm	3.00	9x10 ⁵
91	İBRAHİM ÖZÇERÇİOĞLU	Music wire	30°	0-4 kg	Ground	99%	5 cm	2.50	3x10 ⁵
92	OZAN ÖZEŞME	Oil tempered	25°	0-6 kg	Hot Rolled	95%	5 cm	2.00	6x10 ⁵
93	HALİL SAMED ÖZYURTSEVEN	Oil tempered	30°	0-4 kg	Ground	99%	6 cm	1.50	9x10 ⁵
94	YÜKSEL PAYASLI	HD wire	25°	0-4 kg	Hot Rolled	95%	5 cm	2.50	Infinite
95	HALİL İBRAHİM POLAT	Oil tempered	20°	0-2 kg	Ground	90%	7 cm	2.50	6x10 ⁵
96	NAİM SAHİLLİOĞLU	HD wire	30°	0-4 kg	Polished	90%	5 cm	2.50	3x10 ⁵
97	YEŞİM SARIKAYA	HD wire	20°	0-4 kg	Ground	99%	7 cm	2.50	9x10 ⁵
98	MERVE GÖRKEM SARIOĞLU	Music wire	25°	0-4 kg	Ground	95%	6 cm	1.50	Infinite
99	YİĞİT SAYIM	HD wire	30°	0-4 kg	Hot Rolled	90%	5 cm	3.00	6x10 ⁵
100	EMİRHAN SERKAYA	Oil tempered	30°	0-2 kg	Ground	90%	5 cm	2.00	6x10 ⁵
101	KÜRŞAT SEZGİN	Music wire	30°	0-2 kg	Polished	95%	5 cm	3.00	9x10 ⁵
102	HAKAN SÖKÜCÜ	Music wire	25°	0-6 kg	Ground	99%	7 cm	2.00	Infinite
103	ÖKKEŞ EMRE SÖNMEZ	Oil tempered	20°	0-6 kg	Ground	90%	6 cm	2.00	3x10 ⁵
104	KUBİLAY SUCU	Music wire	25°	0-4 kg	Polished	90%	6 cm	2.00	6x10 ⁵

105	ALİ TALAY	HD wire	25°	0-4 kg	Polished	90%	7 cm	3.00	9x10 ⁵
106	SADIK TAN	Oil tempered	25°	0-6 kg	Hot Rolled	90%	5 cm	2.00	Infinite
107	MUSTAFA ÖZGÜR TEKİK	Oil tempered	25°	0-6 kg	Ground	95%	6 cm	3.00	3x10 ⁵
108	AHMET FURKAN TOK	Oil tempered	20°	0-6 kg	Hot Rolled	99%	7 cm	1.50	6x10 ⁵
109	BURAK TOPALBEKİROĞLU	Oil tempered	30°	0-4 kg	Hot Rolled	99%	6 cm	1.50	9x10 ⁵
110	İBRAHİM TOPRAK	HD wire	25°	0-4 kg	Ground	99%	6 cm	3.00	6x10 ⁵
111	KENAN YUSUF TURGUT	Music wire	30°	0-2 kg	Polished	99%	7 cm	2.00	Infinite
112	MÜCAHİD ENES TÜMER	Oil tempered	25°	0-6 kg	Ground	90%	5 cm	2.00	3x10 ⁵
113	KÜBRA ULUTAŞ	Music wire	30°	0-6 kg	Polished	95%	7 cm	2.00	6x10 ⁵
114	MÜCAHİT ÜRGEN	Oil tempered	25°	0-2 kg	Ground	90%	5 cm	1.50	9x10 ⁵
115	EMRE ÜSTÜN	HD wire	30°	0-2 kg	Polished	95%	5 cm	2.50	Infinite
116	MUHAMMED YAŞAR	Oil tempered	25°	0-4 kg	Hot Rolled	90%	6 cm	2.00	3x10 ⁵
117	MEHMET ONUR YAVUZ	HD wire	20°	0-2 kg	Polished	99%	5 cm	3.00	6x10 ⁵
118	ERKAN YILDIRIM	Music wire	20°	0-6 kg	Hot Rolled	95%	7 cm	1.50	9x10 ⁵
119	ABDULLAH YILDIZ	Oil tempered	30°	0-2 kg	Hot Rolled	99%	6 cm	2.00	3x10 ⁵
120	İSMAİL HAKKI YILDIZ	HD wire	30°	0-2 kg	Ground	95%	5 cm	2.50	6x10 ⁵
121	ALİ YILMAZ	Oil tempered	25°	0-4 kg	Polished	99%	6 cm	3.00	9x10 ⁵
122	BEKİR YİĞİT	Music wire	25°	0-2 kg	Polished	95%	7 cm	2.50	Infinite
123	MUSTAFA YASİN YİĞİT	HD wire	20°	0-6 kg	Ground	90%	5 cm	2.50	6x10 ⁵
124	ABDULLAH CAN YÜNCÜ	Oil tempered	25°	0-6 kg	Ground	90%	7 cm	3.00	3x10 ⁵

