



ISO-9001 CE UL SF

07'~09'



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ENDÜSTRİYEL



PROFESYONEL



GEMİ BAKIM



ARAÇ BAKIM



ÜRETİM HATTI



HOBİ(TAIWAN)



HOBİ(CHINA)



YAPI İNŞAATI

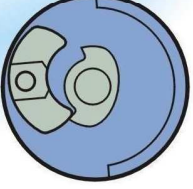


MARANGOZ ATÖLYE



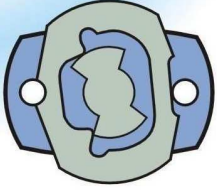
DÖŞEMECİLİK

ROCKING DOG HAMMER SYSTEM



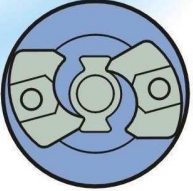
- Bu tip mekanizmalı ürünlerde ağırlık-tork değeri optimumdur.
- Bakımı basittir.
- Tetikle doğru orantılı hızlanma.

TWIN HAMMER SYSTEM



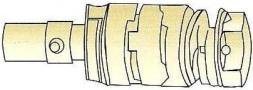
- Bu tip mekanizmalar dengeli tork dağılımı sağlar.
- Pimli sistemden çok daha güçlüdür.
- Kolay kullanım, yüksek performans.
- Basınç ayarına diğer aletlerden daha duyarlıdır.

TWO HAMMER SYSTEM



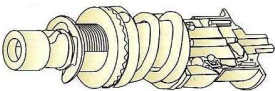
- Bu tip mekanizmalı tornavidalar dengeli ve hızlı çalışmakla beraber operatöre kullanım kolaylığı sağlar.
- Tork aralığının esnekliği sayesinde geniş kullanım alanına sahiptir.
- Genel endüstriyel alanlar için idealdir.

CUSHION CLUTCH SYSTEM



- Çabuk sökme-takma için güçlü, hızlı, dengeli ve düşük titreşimli mekanizma.
- Kısa süreli tork tepkimesi ve hafifliği operatöre kolaylık sağlar.
- Tork aralığının esnekliği sayesinde geniş kullanım alanına sahiptir.

AIR SHUT-OFF SYSTEM



- Çabuk sökme-takma için güçlü, hızlı, dengeli ve düşük titreşimli mekanizma.
- Kısa süreli tork tepkimesi ve hafifliği operatöre kolaylık sağlar.
- Endüstriyel uygulamalar ve yüksek hızlı üretim hatları için dizayn edilmiştir.
- Set edilen torkta havayı keserek vida ve malzeme üzerine kuvvet uygulamaz.

DARBELİ TİP TORNAVİDA MOTORLARI



AT-4071
Air impact screwdriver
(jumbo hammer)



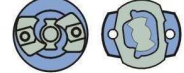
AT-4171
Air impact screwdriver
(two hammer)



AT-4069
Air impact screwdriver
(two hammer)



AT-4077
Air impact screwdriver (two hammer)
AT-4078
Air impact screwdriver (twin hammer)



AT-4068
Air impact screwdriver
(two hammer)



AT-4161
Air impact screwdriver
(rocking dog)



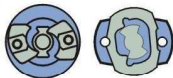
AT-4170
Air impact screwdriver
(two hammer)



AT-4070A
Air impact screwdriver
(two hammer)



AT-4165/AT-4166
Air impact screwdriver (two hammer)
AT-4167
Air impact screwdriver (twin hammer)



AT-4060
Air impact screwdriver (two hammer)
AT-4060A
Air impact screwdriver (two hammer)



AT-4067
Angle impact screwdriver
(two hammer)



AT-4262
Angle impact screwdriver
(two hammer)



Model No.	Hex. Shank Size		Capacity bolt Size		Free Speed RPM	Working Torque		Overall Length		Air Inlet (PT)	Air Hose (ID)	Avg. Air Consumption		Net Weight		Working Air Pressure		Sug. Air Comp. (HP)
	inch	mm	inch	mm		ft-lb	mm	inch	mm			scfm	l/min	lb	kg	psi	kg/cm ²	
AT-4060	1/4	6.35	3/16	4~5	8000	20	27.1	7.00	178	1/4"	3/8"	5.0	142	1.54	0.70	90	6.3	2
AT-4060A	1/4	6.35	3/16	4~5	8000	20	27.1	7.28	185	1/4"	3/8"	5.0	142	1.59	0.72	90	6.3	2
AT-4067	1/4	6.35	1/4	5~6	6500	30	40.7	10.24	260	1/4"	3/8"	7.3	207	3.20	1.45	90	6.3	2
AT-4068	1/4	6.35	3/16	4~5	10000	20	27.1	6.10	155	1/4"	3/8"	7.0	198	2.00	0.90	90	6.3	2
AT-4069	1/4	6.35	5/16	6~8	7000	50	67.8	7.09	180	1/4"	3/8"	7.0	198	2.64	1.20	90	6.3	2
AT-4070A	1/4	6.35	5/16	6~8	7000	50	67.8	8.86	220	1/4"	3/8"	7.5	212	2.34	1.06	90	6.3	2
AT-4071	1/4	6.35	3/8	6~8	10000	65	88.1	6.10	155	1/4"	3/8"	7.5	212	3.04	1.38	90	6.3	2
AT-4077	1/4	6.35	1/4	6~8	8000	70	94.9	6.10	155	1/4"	3/8"	12.0	340	2.51	1.14	90	6.3	3
AT-4078	1/4	6.35	5/16	8~10	8000	85	115	6.38	162	1/4"	3/8"	12.0	340	2.56	1.16	90	6.3	3
AT-4161	1/4	6.35	3/8	6~8	9500	60	81.3	6.50	165	1/4"	3/8"	8.5	241	2.30	1.05	90	6.3	2
AT-4165	1/4	6.35	3/16	5	9000	25	33.9	7.17	182	1/4"	3/8"	6.0	170	1.65	0.75	90	6.3	2
AT-4166	1/4	6.35	1/4	6~8	8000	55	74.6	7.83	199	1/4"	3/8"	7.0	198	2.09	0.95	90	6.3	2
AT-4167	1/4	6.35	5/16	8~10	8000	65	88.1	7.87	200	1/4"	3/8"	7.0	198	2.18	0.99	90	6.3	2
AT-4170	1/4	6.35	5/16	6~8	8300	50	67.8	8.07	205	1/4"	3/8"	6.5	184	2.20	1.00	90	6.3	2
AT-4171	1/4	6.35	5/16	6~8	8300	50	67.8	7.68	195	1/4"	3/8"	7.0	198	2.89	1.31	90	6.3	2
AT-4262	1/4	6.35	3/16	4~5	7500	20	27.1	9.17	233	1/4"	3/8"	6.0	170	2.69	1.22	90	6.3	2

KAVRAMALI TİP TORNAVİDA MOTORLARI



AT-4050
Cushion clutch air screwdriver
AT-4050A
Cushion clutch air screwdriver
w/quick change chuck



AT-4051A
Cushion clutch air screwdriver
w/quick change chuck



AT-4052
Cushion clutch angle air screwdriver



AT-4055
Cushion clutch air screwdriver
w/quick change chuck



AT-4053
External adjustable clutch
air screwdriver (1800rpm)
AT-4054
External adjustable clutch
air screwdriver (800rpm)



AT-4056
Push to start adjustable
clutch screwdriver



AT-4085
Cushion clutch air screwdriver



AT-4080
Adjustable clutch
air screwdriver (1800rpm)
AT-4080A
Adjustable clutch
air screwdriver (800rpm)



AT-4180
Positive clutch air screwdriver



AT-4083
External adjustable
air screwdriver (1800rpm)



AT-4084
External adjustable clutch
air screwdriver (800rpm)



AT-4086
Adjustable clutch
air screwdriver (1800rpm)
AT-4087
Adjustable clutch
air screwdriver (800rpm)



Model No.	Hex. Shank Size		Capacity bolt Size		Free Speed RPM	Max. Torque		Overall Length		Air Inlet (PT)	Air Hose (ID)	Avg. Air Consumption		Net Weight		Working Air Pressure		Sug. Air Comp. (HP)
	inch	mm	inch	mm		in-lb	kgf-cm	inch	mm			scfm	l/min	lb	kg	psi	kg/cm ²	
AT-4050	1/4	6.35	1/8	3	1500	30	35	9.25	235	1/4"	3/8"	5.5	156	1.34	0.61	90	6.3	1.5
AT-4050A	1/4	6.35	1/8	3	1500	30	35	9.25	235	1/4"	3/8"	5.5	156	1.34	0.61	90	6.3	1.5
AT-4051A	1/4	6.35	5/32	4	1800	45	52	8.66	220	1/4"	3/8"	4.5	127	1.37	0.62	90	6.3	1.5
AT-4052	1/4	6.35	5/32	4	1600	45	52	9.25	230	1/4"	3/8"	5.0	142	1.68	0.76	90	6.3	1.5
AT-4053	1/4	6.35	3/16	5	1800	26-90	30-104	10.43	265	1/4"	3/8"	8.2	232	2.51	1.14	90	6.3	2
AT-4054	1/4	6.35	3/16	5	800	26-125	30-144	11.14	283	1/4"	3/8"	8.2	232	2.69	1.22	90	6.3	2
AT-4055	1/4	6.35	3/32	2.5	1500	5-25	5.7-28.7	9.25	235	1/4"	3/8"	5.5	156	1.45	0.66	90	6.3	1.5
AT-4056	1/4	6.35	1/8	3	1000	7-30	8-35	9.25	235	1/4"	3/8"	4.5	127	1.37	0.62	90	6.3	1.5
AT-4080	1/4	6.35	1/4	6	1800	115	130	8.27	210	1/4"	3/8"	12.0	340	2.51	1.14	90	6.3	3
AT-4080A	1/4	6.35	1/4	6	800	145	167	8.86	225	1/4"	3/8"	12.0	340	2.91	1.32	90	6.3	3
AT-4083	1/4	6.35	3/16	5	1800	26-90	30-104	8.86	225	1/4"	3/8"	9.5	269	2.82	1.28	90	6.3	2
AT-4084	1/4	6.35	3/16	5	800	26-125	30-144	9.61	244	1/4"	3/8"	9.5	269	3.15	1.43	90	6.3	2
AT-4085	1/4	6.35	1/4	6	1800	115	130	10.43	265	1/4"	3/8"	10.0	283	2.56	1.16	90	6.3	2
AT-4086	1/4	6.35	1/4	6	1800	45-115	52-130	8.27	210	1/4"	3/8"	12.0	340	2.56	1.16	90	6.3	3
AT-4087	1/4	6.35	1/4	6	800	45-145	52-167	9.25	230	1/4"	3/8"	12.0	340	2.91	1.32	90	6.3	3
AT-4180	1/4	6.35	1/4	6	1600	115	130	7.01	178	1/4"	3/8"	11.0	311	2.51	1.14	90	6.3	3

HAVA KESMELİ TİP TORNAVİDA MOTORLARI



AT-4010

Push to start shut-off
air screwdriver



AT-4011

Push to start shut-off
air screwdriver



AT-4012

Push to start shut-off
air screwdriver



AT-4014

Push to start shut-off
air screwdriver

AT-4015

Push to start shut-off
air screwdriver



AT-4014P

Push to start shut-off air screwdriver

AT-4015P

Push to start shut-off air screwdriver



Model No.	Hex. Shank Size		Capacity bolt Size	Free Speed RPM	Max. Torque		Overall Length		Air Inlet (PT)	Air Hose (ID)	Avg. Air Consumption		Net Weight		Working Air Pressure		Packing Pcs/Ctn/G.W/Cuft (kg)	Sug. Air Comp. (HP)
	inch	mm			in-lb	kgf-cm	inch	mm			scfm	l/min	lb	kg	psi	kg/cm ²		
AT-4010	9/64	3.5	2	2000	0.9-3.5	1-4	7.00	178	1/4"	1/4"	4.0	113	1.00	0.45	90	6.3	10/Ctn/7Kg/0.9'	1.5
AT-4011	9/64	3.5	2.5	800	3.5-6.9	4-8	7.00	178	1/4"	1/4"	4.0	113	1.00	0.45	90	6.3	10/Ctn/7Kg/0.9'	1.5
AT-4012	1/4	6.35	3	1000	5.2-12	6-14	10.24	260	1/4"	3/8"	5.0	142	1.60	0.72	90	6.3	20/Ctn/14Kg/1.4'	2
AT-4013	1/4	6.35	3.5	1000	8.7-20	10-23	10.24	260	1/4"	3/8"	5.0	142	1.60	0.72	90	6.3	20/Ctn/14Kg/1.4'	2
AT-4014	1/4	6.35	4	550	14.8-34.7	17-40	11.10	282	1/4"	3/8"	5.5	156	2.16	0.98	90	6.3	10/Ctn/12Kg/1.2'	2
AT-4014P	1/4	6.35	4	550	14.8-34.7	17-40	11.10	282	1/4"	3/8"	5.5	156	2.42	1.10	90	6.3	5/Ctn/8Kg/0.9'	2
AT-4015	1/4	6.35	5	550	39.1-69.4	45-80	11.10	282	1/4"	3/8"	5.5	156	2.16	0.98	90	6.3	10/Ctn/12Kg/1.2'	2
AT-4015P	1/4	6.35	5	550	39.1-69.4	45-80	11.10	282	1/4"	3/8"	5.5	156	2.42	1.10	90	6.3	5/Ctn/8Kg/0.9'	2

Double End Phillips Power Bit



Model No.	Size	Hex. Shank (mm)	Length (mm)
PH145	PH1	6.35	45
PH165	PH1	6.35	65
PH1110	PH1	6.35	110
PH245	PH2	6.35	45
PH265	PH2	6.35	65
PH2110	PH2	6.35	110
PH345	PH3	6.35	45
PH365	PH3	6.35	65
PH3110	Ph3	6.35	110

Slotted Power Bit



Model No.	Width (mm)	Thickness (mm)	Length (mm)
SL405050	4.0	0.5	50
SL456050	4.5	0.6	50
SL558050	5.5	0.8	50
SL5510050	5.5	1.0	50
SL6512050	6.5	1.2	50
SL456075	4.5	0.6	75
SL558075	5.5	0.8	75
SL6010075	6.0	1.0	75
SL4560100	4.5	0.6	100
SL5580100	5.5	0.8	100
SL60100100	6.0	1.0	100
SL4560150	4.5	0.6	150
SL5580150	5.5	0.8	150
SL60100150	6.0	1.0	150

Hexagon Power Bit



Model No.	Size (mm)	Hex. Shank (mm)	Length (mm)
HX3050	3	6.35	50
HX4050	4	6.35	50
HX5050	5	6.35	50
HX6050	6	6.35	50
HX7050	7	6.35	50
HX8050	8	6.35	50
HX3075	3	6.35	75
HX4075	4	6.35	75
HX5075	5	6.35	75
HX6075	6	6.35	75
HX7075	7	6.35	75
HX8075	8	6.35	75
HX30100	3	6.35	100
HX40100	4	6.35	100
HX50100	5	6.35	100
HX60100	6	6.35	100

Phillips Power Bit



Model No.	Size	Hex. Shank (mm)	Length (mm)
PH14550	PH1	6.35	50
PH14575	PH1	6.35	75
PH145100	PH1	6.35	100
PH24550	PH2	6.35	50
PH24575	PH2	6.35	75
PH245100	PH2	6.35	100
PH36050	PH3	6.35	50
PH36075	PH3	6.35	75
PH360100	Ph3	6.35	100

Torx Power Bit



Model No.	Size	Hex. Shank (mm)	Length (mm)
TX104550	T-10	6.35	50
TX154550	T-15	6.35	50
TX205050	T-20	6.35	50
TX255050	T-25	6.35	50
TX275550	T-27	6.35	50
TX306050	T-30	6.35	50
TX407050	T-40	6.35	50
TX104575	T-10	6.35	75
TX154575	T-15	6.35	75
TX205075	T-20	6.35	75
TX255075	T-25	6.35	75
TX275575	T-27	6.35	75
TX306075	T-30	6.35	75
TX407075	T-40	6.35	75

Socket Bit



Model No.	Size (mm)	Hex. Shank (mm)	Length (mm)
SN502565	5	6.35	65
SN602565	6	6.35	65
SN803065	8	6.35	65
SN1003065	10	6.35	65
SN1103065	11	6.35	65
SN1203065	12	6.35	65
SN1303065	13	6.35	65
SN1403065	14	6.35	65
SN5025100	5	6.35	100
SN6025100	6	6.35	100
SN8030100	8	6.35	100
SN10030100	10	6.35	100
SN11030100	11	6.35	100
SN12030100	12	6.35	100
SN13030100	13	6.35	100
SN14030100	14	6.35	100

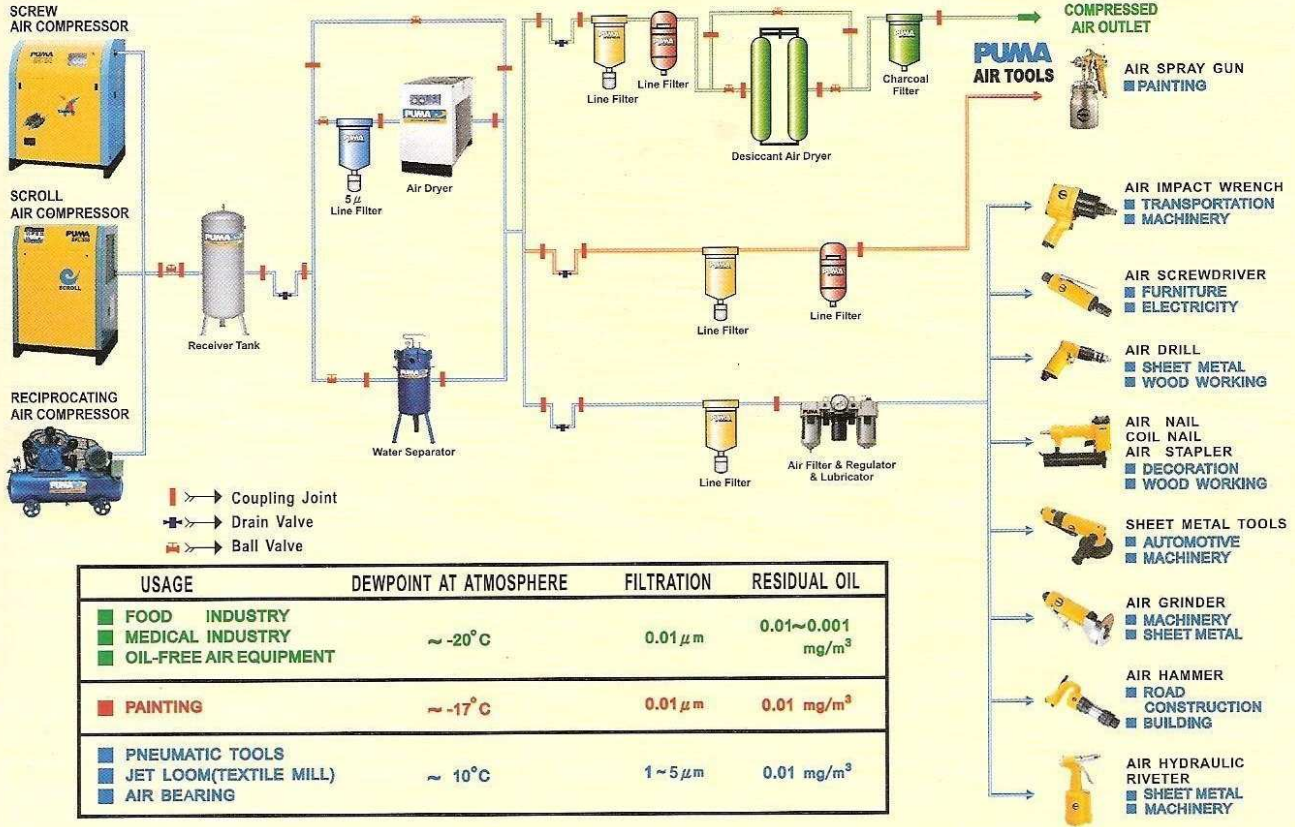
BASINÇ DÖNÜŞÜM TABLOSU

Bar	KPa	Kg/cm ²	MPa	Psi
1	100	1.02	0.1	14.5
0.981	98.1	1	0.098	14.22
10	1000	10.197	1	145.036

DEBİ DÖNÜŞÜM TABLOSU

LPM l/min	CMH m ³ /hr	CFM ft ³ /min	GPM(U.K.) gal ³ /min	GPM(U.S.A.) gal ³ /min
1	0.06	0.03532	0.220	0.2642
16.667	1	0.5887	3.667	4.404
28.3153	1.699	1	6.229	7.481
4.5455	0.2727	0.1605	1	1.2011
3.785	0.2271	0.1337	0.8325	1

BASINÇLI HAVA HATTI KURULUM ŞEMASI



DÖNÜŞÜM FAKTÖRLERİ

1.Tork

1 ft-lb = 1.356 nm = 0.138 kg-m
1 nm = 0.738ft-lb = 0.102 kg-m

2.Basınç

1 bar = 1.020 kg/cm² = 14.504 psi
1 kg/cm² = 14.220 psi = 0.981 bar

3. Debi

1 cfm = 28.3 l/min
1 M³/hr = 1.667 l/min

4.Uzunluk

1 m = 39.371 in = 3.281 ft
1 ft = 12 in = 0.305 m
1 in = 25.4mm

5.Ağırlık

1 lb = 0.454 kg = 16 ones
1 kg = 2.205 lb = 35.274 ones

6.Güç

1 kw = 1.341 hp
1 hp = 0.746 kw

