



CATALOGUE



AMS PROFESSIONAL

TOOLS

TRUST & RELIABLE



HUNTING

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☎ 085233338151

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🌐 GENERAL.AMALIAMULTISARANA.COM

**AMS
PROFESSIONAL
TOOLS**

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FIREBIRD Air Impact 1"
FB-SV7077



FIREBIRD Air Impact 1"
FB-7595



FIREBIRD Air Impact 1"
FB-3863



FIREBIRD Air Impact 1"
FB-7575



FIREBIRD Air Impact 1"
FB-7085



FIREBIRD Air Impact 1"
FB-6575

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torcUP
STRENGTH
UNDER PRESSURE

EMAX HYDRAULIC PUMPS

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EMAX

**ELECTRIC HYDRAULIC
TORQUE WRENCH PUMP**



THREE-STAGE PERFORMANCE

GET MAXIMUM PERFORMANCE FROM A MINIMUM WEIGHT HYDRAULIC TORQUE WRENCH PUMP. SET THE PRESSURE AND ACHIEVE THE TORQUE EVERY CYCLE.

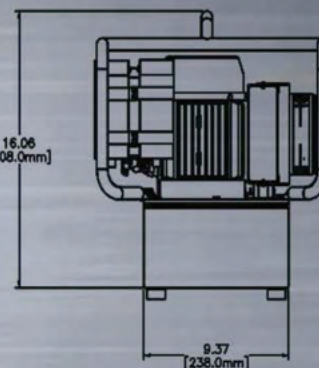
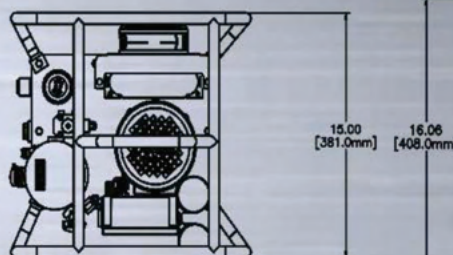
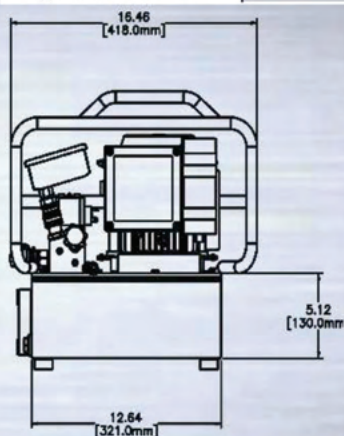
TECHNICAL DATA	EMAX-115V / EMAX-230V
Reservoir Capacity (gal/litre)	2.2 / 8.4
Valve Style	Auto Retract
Motor Specification	2.2hp / 1.6 kW
Weight (lbs/kg)	62 / 28

MAX OIL FLOW	EMAX-115V / EMAX-230V
Stage 1 (1000psi / 70bar)	610 cu.in/min 10.01 /min
Stage 2 (3900psi / 270bar)	145 cu.in/min 2.41 /min
Stage 3 (10,000psi / 700bar)	65 cu.in/min 1.11 /min



DIMENSIONS	EMAX-115V / EMAX-230V
Length (in/mm)	16.5 / 419.1
Width (in/mm)	15.0 / 381.0
Height (in/mm)	16.0 / 406.4

RESERVOIR DIMENSIONS	EMAX-115V / EMAX-230V
Length (in/mm)	12.6 / 320.0
Width (in/mm)	9.4 / 238.8
Height (in/mm)	5.1 / 129.5



TWIN LINE
HYDRAULIC HOSE

MULTI- PORT
MANIFOLD



* HYDRAULIC HOSE AND MULTI- PORT MANIFOLD SOLD SEPARATELY

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TorCUp

**A TOOL WITH
MULTIPLE PERSONALITIES**

TX LOW PROFILE TORQUE WRENCH

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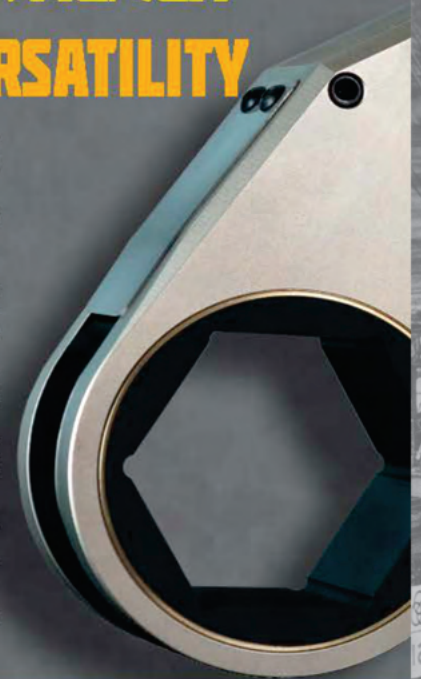
TX

LOW PROFILE HYDRAULIC TORQUE WRENCH

THE WRENCH WITH VERSATILITY

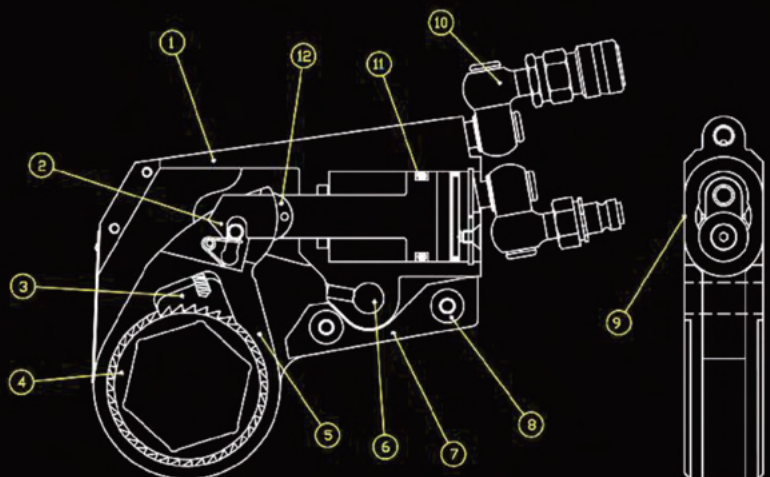
THE WORLD'S MOST CHALLENGING BOLTING JOBS REQUIRE A HYDRAULIC TORQUE WRENCH THAT CAN GO "FLAT OUT." APPLICATIONS WITH RESTRICTIONS ABOVE, AROUND AND BEHIND THE NUT DEMAND A TOOL THAT CAN GET FLAT AND GET ON THE JOB. THE TX SERIES WAS THE FIRST FLAT HYDRAULIC WRENCH TO CONQUER ALL LIMITATIONS ... AND THEN SOME!!

INDUSTRY NOT ONLY REQUIRES A TOOL THAT GETS IN ... BUT ONE THAT WORKS BEYOND THE JOB-SITE EXPECTATION. WITH 20 YEARS OF PROVEN SUCCESS IN THE HARSHTEST ENVIRONMENTS, THE ONLY WRENCH TRULY CAPABLE OF GOING 'FLAT OUT' IS THE TORCUP TX SERIES.



THE POWER INSIDE

1. PATENTED 'PEANUT-SHAPED' CYLINDER
2. ENGAGEMENT ROD
3. NEVER-LOCK DRIVE PAWL
4. MULTI-TOOTH RATCHET
5. ONE PIECE DRIVE PLATE
6. LINK PIN
7. IN-LINE REACTION PAD
8. STEEL ALIGNMENT PIN
9. COMPLETELY FLAT DESIGN
10. 360° X 360° SWIVEL
11. PROPRIETARY PISTON SEAL
12. SLIDER PREVENTS WEAR OF PISTON



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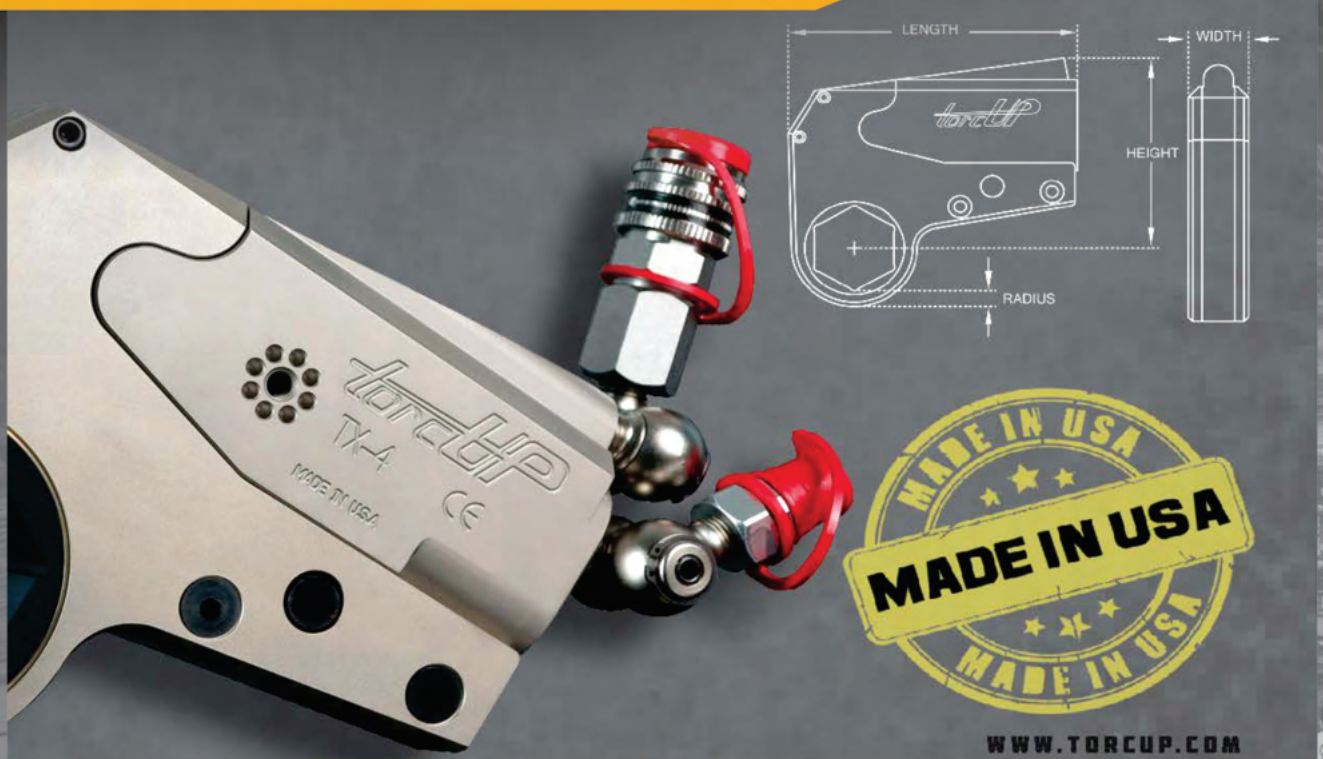
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POWER ENGINEERED

MODEL NUMBER	TX-1	TX-2	TX-4	TX-8	TX-16	TX-32	TX-45
MIN. TORQUE (ft/lbs)	45	192	395	830	1560	3220	4850
MAX. TORQUE (ft/lbs)	560	1928	3950	8630	16600	35650	47380
MIN. TORQUE (nm)	61	260	535	1125	2115	4365	6575
MAX. TORQUE (nm)	759	2614	5355	11699	22503	48327	64239
OUTPUT ACCURACY	+/-3%	+/-3%	+/-3%	+/-3%	+/-3%	+/-3%	+/-3%
REPEATABILITY	100%	100%	100%	100%	100%	100%	100%
DUTY CYCLE	100%	100%	100%	100%	100%	100%	100%
CYLINDER WEIGHT (lbs)	1.0	3.5	6.0	11.7	16.0	26.0	29.0
CYLINDER WEIGHT (kgs)	0.5	1.6	2.7	5.0	7.3	11.5	13.0
LINK WEIGHT FROM (lbs)	1.0	2.4	5.4	11.9	21.0	29.0	29.0
LINK WEIGHT TO (lbs)	1.0	3.5	7.6	14.5	28.0	39.5	39.5
LINK WEIGHT FROM (kgs)	0.45	1.0	2.4	5.5	9.5	13.0	13.0
LINK WEIGHT TO (kgs)	0.45	1.5	3.4	6.5	13.0	17.9	17.9
LENGTH (in)	4.37	6.45	7.87	10.18	12.93	15.80	16.75
LENGTH (mm)	111.0	163.8	199.9	258.6	328.4	401.3	425.5
WIDTH (in)	0.78	1.25	1.63	2.05	2.50	3.24	4.88
WIDTH (mm)	19.8	31.8	41.4	52.1	63.5	82.3	124.0
RADIUS (in)	0.23	0.36	0.46	0.54	0.65	0.93	0.93
RADIUS (mm)	5.8	9.1	11.7	13.7	16.5	23.6	23.6
HEIGHT (in)	3.25	4.0	5.6	7.0	7.58	9.5	10.28
HEIGHT (mm)	82.6	101.6	142.2	177.8	192.5	241.3	261.1
HEX RANGE FROM	1/2"/13mm	3/4"/19mm	1"/27mm	1 7/8"/49mm	2 3/16"/55mm	3 1/8"/80mm	3 1/8"/80mm
HEX RANGE TO	2"/50mm	2 9/16"/65mm	3 1/8"/80mm	4 5/8"/120mm	5 5/16"/135mm	7 7/8"/200mm	7 7/8"/200mm

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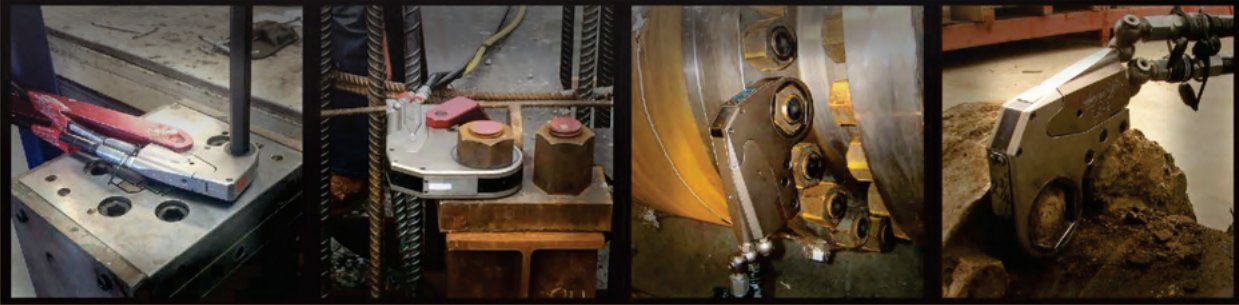
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TX SERIES LOW PROFILE HYDRAULIC TORQUE WRENCH

FLAT - ACCESS THE INACCESSIBLE
PROVEN - USED ON JOB-SITES WORLDWIDE
SUPERIOR - AIRCRAFT QUALITY ALLOY

LOW POINT
REACTION PADDLE



CLOSED SPANNER
WRENCH



INLINE
REACTION
ARM



HEX TO SQUARE
DRIVE ADAPTOR



TOOL HANDLE



HEX REDUCER

TX SERIES

Made In USA

Seven Models From 45 ft/lbs to
64,000 ft/lbs

Every Unit Calibrated In
ISO 17025 Laboratory

Manufactured With AQ
Certified Alloys

Genuine TorcUP Design

CARRYING
CASE



Catalog 2017

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torcUp
**UNCOMPLICATED
HYDRAULIC BOLTING**

TU SQUARE DRIVE TORQUE WRENCH

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AMS PROFESSIONAL TOOLS



TU

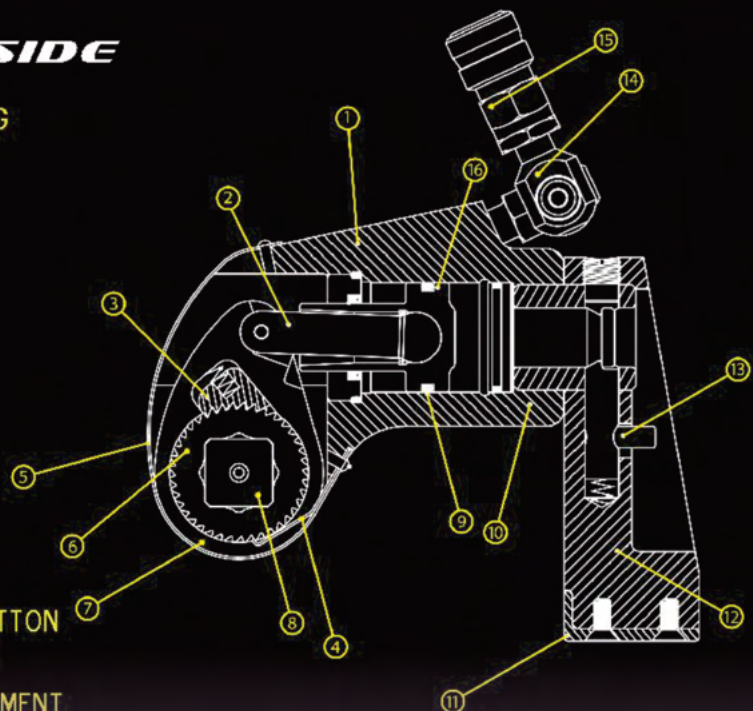
SQUARE DRIVE HYDRAULIC TORQUE WRENCH THE WRENCH WITH STYLE



NOT ONLY DOES THE TU SERIES LOOK GOOD ... BUT IT PERFORMS GREAT!! THE 'GO-TO' TOOL ON EVERY JOB-SITE IS THE TU SQUARE DRIVE HYDRAULIC WRENCH. FROM 130 FT/LBS TO 60,000 FT/LBS THE TU IS THE ONE TOOL THAT ALL CUSTOMERS KNOW WILL BE THERE WHEN THEY NEED IT. WITH ONLY THREE MOVING PARTS CONSTRUCTED FROM THE HIGHEST GRADE AEROSPACE ALLOYS, THE TU PROVIDES YEARS OF TROUBLE FREE OPERATION. WHEN IT COMES TO LUBRICATION AND PREVENTATIVE MAINTENANCE, THERE IS NO SQUARE DRIVE HYDRAULIC WRENCH COMPARABLE TO THE TU SERIES. RELIABILITY, EASE OF USE, EASE OF FITMENT ON APPLICATIONS, SIMPLE TO MAINTAIN ... THIS IS JUST THE START OF A LONG LIST OF FEATURES THAT BENEFIT THE USERS OF THE TU SERIES. AND LAST BUT NOT LEAST ... MADE IN USA!!

THE POWER INSIDE

1. PATENTED MONO-BODY HOUSING
2. BALANCED DRIVE ROD
3. MULTI-TOOTH DRIVE SEGMENT
4. ANTI-BACK LASH MECHANISM
5. LASER ENGRAVED TORQUE CHART
6. MULTI-TOOTH RATCHET
7. ONE PIECE DRIVE PLATE
8. PUSH-THROUGH DRIVE
9. SINGLE SEAL PISTON
10. DIRECT HOUSING REACTION
11. STEEL REACTION BOOT
12. LONG LENGTH REACTION ARM
13. REACTION ARM THUMB RELEASE BUTTON
14. QUICK CONNECT NO-D RIP COUPLERS
15. 360°X 360° DUAL INDEPENDENT MOVEMENT



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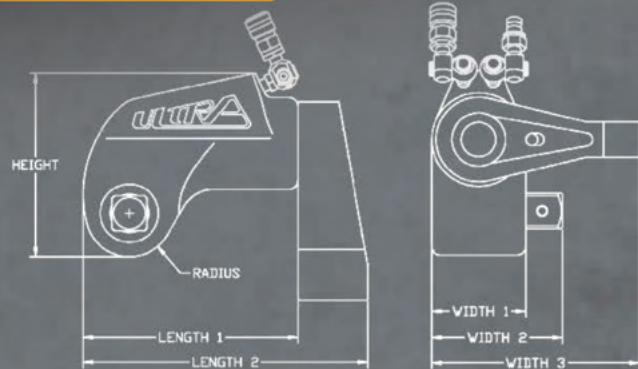
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POWER ENGINEERED

MODEL NUMBER	TU-2	TU-3	TU-5	TU-7	TU-11	TU-20	TU-27	TU-60
SQUARE DRIVE	3/4"	1"	1 1/2"	1 1/2"	1 1/2"	2 1/2"	2 1/2"	2 1/2"
MIN. TORQUE (ft/lbs)	127	330	550	740	1100	1940	2720	5800
MAX. TORQUE (ft/lbs)	1270	3330	5500	7400	11010	20625	27200	58000
MIN. TORQUE (nm)	172	447	745	1003	1491	2630	3687	7862
MAX. TORQUE (nm)	1722	4514	7457	10031	14925	27964	36872	78625
OUTPUT ACCURACY	+/-3%	+/-3%	+/-3%	+/-3%	+/-3%	+/-3%	+/-3%	+/-3%
REPEATABILITY	100%	100%	100%	100%	100%	100%	100%	100%
DUTY CYCLE	100%	100%	100%	100%	100%	100%	100%	100%
TOOL WEIGHT (lbs)	5.6	10.9	18.1	19.0	29.0	61.0	70.0	130.0
TOOL WEIGHT (kgs)	2.5	4.9	8.2	8.6	13.1	27.6	31.7	59.8
HEIGHT (in)	4.20	5.33	6.40	7.17	7.80	9.22	10.19	11.50
HEIGHT (mm)	106.7	135.3	162.6	182.1	198.1	234.3	258.8	292.1
LENGTH 1 (in)	4.82	6.40	7.91	8.84	9.79	9.44	12.32	15.38
LENGTH 1 (mm)	122.4	162.5	200.9	224.5	248.6	239.7	312.9	390.7
LENGTH 2 (in)	6.34	8.43	10.66	11.58	12.79	16.09	16.33	20.40
LENGTH 2 (mm)	161.0	214.1	270.7	294.1	324.8	408.9	414.8	518.2
RADIUS (in)	0.98	1.31	1.57	1.77	2.03	2.31	2.46	3.10
RADIUS (mm)	24.9	33.2	39.8	44.9	51.5	58.7	62.5	78.7
WIDTH 1 (in)	2.00	2.63	3.12	3.61	3.95	4.87	5.26	6.58
WIDTH 1 (mm)	50.8	66.8	79.2	91.7	100.3	123.6	133.6	167.1
WIDTH 2 (in)	2.79	3.68	4.64	5.06	5.43	7.15	7.57	8.89
WIDTH 2 (mm)	70.9	93.5	117.8	128.5	137.9	181.7	192.3	225.8
WIDTH 3 (in)	4.42	5.81	7.00	7.98	8.72	10.88	11.63	14.29
WIDTH 3 (mm)	112.3	147.6	177.8	202.7	221.5	276.4	295.4	363.0

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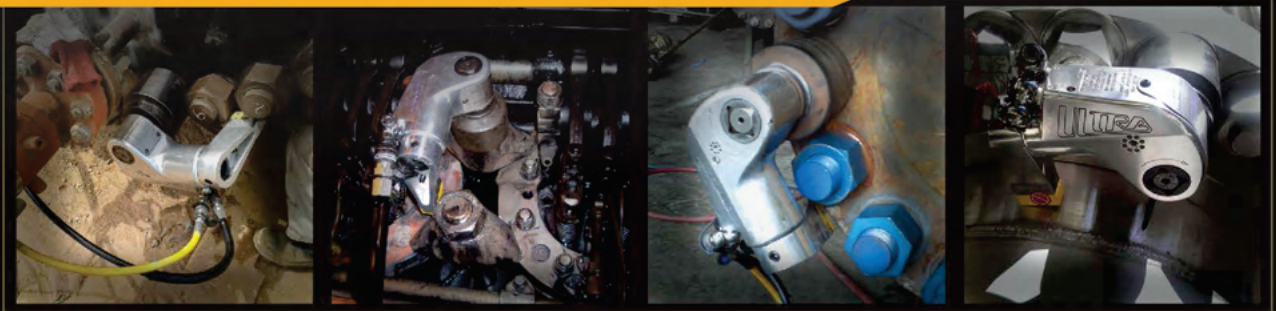
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TU SERIES SQUARE DRIVE HYDRAULIC TORQUE WRENCH

DESIGN - UNIQUE AND EXCLUSIVE
DURABLE - HIGHEST GRADE ALLOYS
DEPENDABLE - ROBUST 3 MOVING PARTS

EXTENDED
REACTION TUBE

DIRECT HEX
ADAPTOR

END CAP
PROTECTOR

HOUSING
REACTION
PAD

NON PUSH THRU
SQUARE DRIVE

WIDE BOOT
REACTION ARM

TU SERIES

Made In USA

Eight Models From 127 ft/lbs to
58,000 ft/lbs

Every Unit Calibrated In
ISO17025 Laboratory

Manufactured With AQ
Certified Alloys

Genuine TorcUP Design

Patented Mono-Body Housing

CARRYING
CASE

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torcUp
**GEARING UP FOR
THE REVOLUTION**

RP PNEUMATIC TORQUE WRENCH

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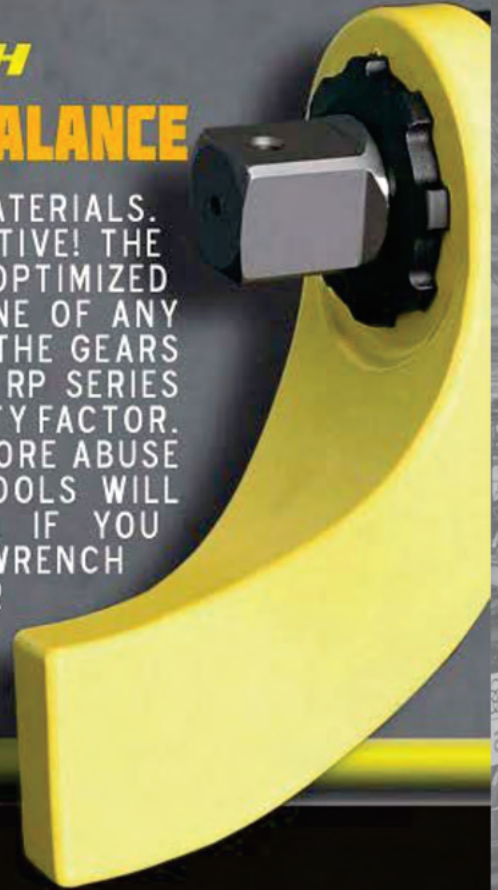


RP

PNEUMATIC TORQUE WRENCH

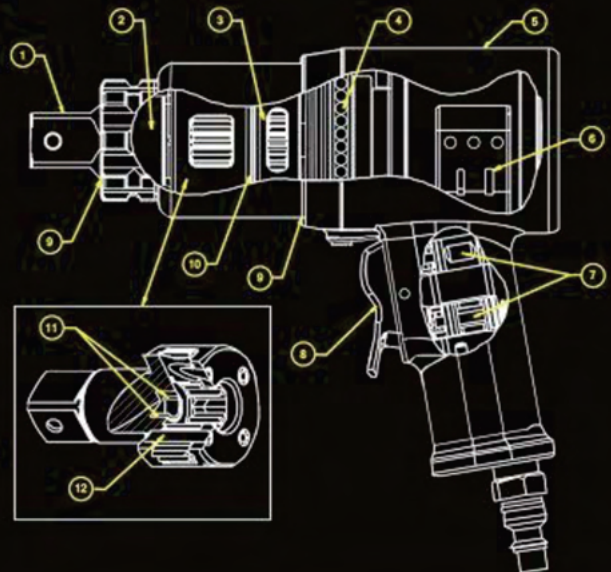
THE WRENCH WITH BALANCE

REDESIGNING THE GEAR. OPTIMIZING THE MATERIALS. PERFECTING THE FIT. THAT WAS OUR OBJECTIVE! THE RESULT IS A PNEUMATIC WRENCH THAT IS OPTIMIZED DOWN TO THE FINEST DETAIL. THE BACKBONE OF ANY PNEUMATIC TORQUE WRENCH IS ITS GEARS. THE GEARS THAT ARE THE DRIVING FORCE BEHIND THE RP SERIES ARE DESIGNED WITH AN INCREASED DURABILITY FACTOR. THE FULL LINE OF RAPTORS HAVE ENDURED MORE ABUSE FROM LONG TERM TESTING THAN THESE TOOLS WILL EVER EXPERIENCE IN THE FIELD. IF YOU REQUIRE A PNEUMATIC TORQUE WRENCH THAT WILL BE THERE FOR YOU ON THE JOB, LOOK NO FURTHER THAN THE TORCUP RAPTOR!



THE POWER INSIDE

1. HARDENED ALLOY STEEL FOR DURABILITY AND LONG CYCLE LIFE
2. BEARINGS SUPPORT THE LOADS EXPERIENCED AT THE SQUARE DRIVE
3. MULTI-STAGE PLANETARY GEAR SYSTEMS WITH OPTIMIZED TOOTH DESIGN
4. SMOOTH BALL BEARING ROTATION OF THE GEARBOX HOUSING INDEPENDENT FROM THE MOTOR HANDLE
5. LIGHTWEIGHT ALUMINUM HANDLE WITH DURABLE, SLIP-RESISTANT TEXTURED COATING
6. ULTRA-EFFICIENT AIR MOTOR DESIGNED FOR EASY MAINTENANCE
7. CARTRIDGE-STYLE VALVES PROVIDE EASY REPLACEMENT
8. ONE FINGER TRIGGER CONTROL FOR FORWARD AND REVERSE
9. O-RINGS SEAL GREASE IN WHILE KEEPING WATER AND DIRT OUT
10. THRUST BEARING BETWEEN STAGES ISOLATE THE MOTOR WHEN USED IN ALL ORIENTATIONS
11. GEARS RUN ON LOW FRICTION, HIGH STRENGTH BEARING SLEEVES
12. TOOL STEEL PINS IN EACH STAGE CARRIER



TRUST AND RELIABLE

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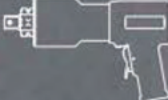
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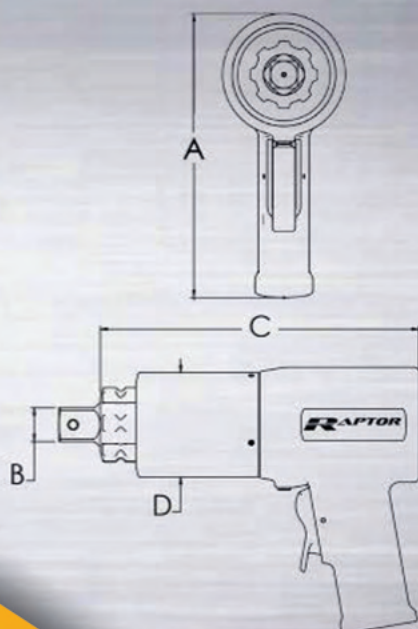


	RP-500 SINGLE SPEED TORQUE RANGE 78-530 FT/LBS FREE SPEED 16.5-44 RPM
	RP-1000 SINGLE SPEED TORQUE RANGE 148-1030 FT/LBS FREE SPEED 7-15 RPM
	RP-2000 SINGLE SPEED TORQUE RANGE 231-2015 FT/LBS FREE SPEED 3.5-9 RPM
	RP-3000 SINGLE SPEED TORQUE RANGE 484-3070 FT/LBS FREE SPEED 1.75-4 RPM
	RP-6000 SINGLE SPEED TORQUE RANGE 714-5990 FT/LBS FREE SPEED 1.25-3 RPM

Requirements: Air Pressure 10-90 psi - Flow 45-55 CFM

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POWER ENGINEERED



MODEL NUMBER	RP-500	RP-1000	RP-2000	RP-3000	RP-6000
SQUARE DRIVE	3/4"	1"	1"	1"	1 1/2"
MIN. TORQUE (ft/lbs)	78	148	231	484	714
MAX. TORQUE (ft/lbs)	530	1030	2015	3070	5990
MIN. TORQUE (nm)	106	201	313	656	968
MAX. TORQUE (nm)	719	1396	2732	4162	8121
HEIGHT A (in)	7.89"	7.89"	7.89"	8.06"	8.69"
HEIGHT A (mm)	200.4	200.4	200.4	204.7	220.7
SQUARE DRIVE B (in)	0.75"	1"	1"	1"	1.5"
SQUARE DRIVE B (mm)	19.05	25.4	25.4	25.4	38.1
LENGTH C (in)	6.80"	8.87"	9.40"	10.62"	12.32"
LENGTH C (mm)	172.7	225.3	238.8	269.7	312.9
DIAMETER D (in)	2.56"	2.85"	3.09"	3.75"	5.00"
DIAMETER D (mm)	65.0	72.4	78.5	95.3	127.0
WEIGHT (lbs) w/o arm	9	12	16	20	36
WEIGHT (kg) w/o arm	4.1	5.4	7.3	9.1	16.3
PERFORMANCE DATA					
RPM @ 10 psi	16.5	7	3.5	1.75	1.25
RPM @ MAX psi	44	15	9	4	3
TOOL MAX psi	80	70	90	65	90

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RP SERIES PNEUMATIC TORQUE WRENCH

SPEED - WE REVOLUTIONIZE THROUGH EFFICIENCY!

WEIGHT - WE CUT WEIGHT WITHOUT SACRIFICING DURABILITY!

STRENGTH - WE KNOW HOW TO MAKE ALLOYS PERFORM!

SLIDING STRAIGHT
REACTION ARM



STRAIGHT
REACTION ARM



LONG EXTENDED
REACTION ARM



NOSE
EXTENSION



F/R/L UNIT



MULTI POSITION
HANDLE



torcUP

RP-F/R/L

Control torque output

Air pressure measured with PSI/
BAR liquid filled gauge

Adjustable lubricator for proper
"Air Tool Oil" drip.

Ergonomic F/R/L frame in safety
yellow with hose storage.

Dimensions:

Width 9" Height 12" Length 12"

Weight 12.0 lbs / 5.4 kg

CARRYING
CASE



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SIMPLEX®

A Division Of Templeton, Kenly & Co., Inc.

**HYDRAULIC AND MECHANICAL
PRODUCTS SINCE 1899**

CYLINDERS

PUMPS

VALVES AND
ACCESSORIES

HYDRAULIC
TOOLS

HYDRAULIC
JACKS

PRESSES

TORQUE
WRENCHES

MECHANICAL
JACKS



ENGINEERED FOR EXCELLENCE

SC103B

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HYDRAULIC INTENSIFIER

Pg. 62



AIR OVER OIL HYDRAULIC PUMPS

Pgs. 60 & 61



ALUMINUM HAND PUMPS

Pg. 37



ALUMINUM CYLINDERS

Pgs. 14 to 17



POW'R-BUDDY POWER PUMP

Pgs. 44 & 45

35 TON DOUBLE ACTING PORTABLE HYDRAULIC PUNCH

Pg. 77



HYDRAULIC TORQUE WRENCHES & POWER PUMPS

Pgs. 98 to 103



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**The Voice of
Torque Control**



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2023 NORBAR SHUTDOWN PERIODS

THE FACTORY WILL BE CLOSED ON THE FOLLOWING DATES (INCLUSIVE)

Monday 2 nd January - Bank Holiday
Friday 7 th April to Monday 10 th April - Easter Bank Holiday
Monday 1 st May - Early May Bank Holiday
Monday 8 th May - King's Coronation Bank Holiday
Monday 29 th May - Spring Bank Holiday
Monday 28 th August - Summer Bank Holiday
Monday 25 th December to Monday 1 st January 2024 - Christmas Shutdown

NORBAR PROMOTIONAL MATERIAL

CATALOGUES & LEAFLETS

07571	NorTorque® Sales Leaflet
07563	Professional Torque Wrench Sales Leaflet
07594	Industrial Torque Wrench- New Generation Sales Leaflet
07606	ProTronic® Sales Leaflet
07607	ProTronic® Plus Sales Leaflet
07579	HandTorque® HT3-1000 Sales Leaflet
07570	EvoTorque® 2 Sales Leaflet
07591	EvoTorque® Battery Tool Sales Leaflet
07581	PneuTorque® PTS™ Sales Leaflet
07585	Right Angle Gearbox Sales Leaflet
07597	TruCheck™ 2 Sales Leaflet
07598	T-Box™ 2 Sales Leaflet
07589	TWC Sales Leaflet
07512	Aerospace Leaflet
07515	Energy Generation Leaflet
07510	Oil & Gas Leaflet



PROMOTIONAL ITEMS

07539	Norbar Branded Pen
07551	Norbar Branded Pocket Notepad
07555	Norbar Branded Baseball Cap
07587	Norbar Branded USB Stick
	Norbar Branded 2 Ring White Ring Binder
	Norbar Branded Screen Saver Cloth / Mouse Mat

NORBAR PRODUCT PORTFOLIO



Torque Screwdrivers



Torque Wrenches



Electronic Torque Wrenches



Manual Torque Multipliers



Pneumatic Torque Tools



Electronic Torque Tools



Battery Torque Tools



Torque Measurement Instruments



Torque Transducers



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Wire Feeders o/o

Also see MIG, MIG Guns and Multiprocess sections for wire feeding options.



Product Guide	Page	Class	MIG	Pulsed MIG ¹	RMD ^{2,1}	Flux-cored ²	Power Source Required	Wire Types				Wire Diameter Capacity	Special Features	Typical Applications	
								Hard	Flux-cored		Alum.				
									Dual-shld	Self-shld					
ArcReach® SuitCase® (8 and 12)	18	●	●	●		●	CC/ CV	●	●	● CV ²	●	.023-.5/64 in. (0.6-2.0 mm)	8 in. (SuitCase 8) or 12 in. (SuitCase 12) diameter spool capacity, remote voltage control without a control cord, powered by arc voltage	Construction, site fabrication, field maintenance	Portable
ArcReach® Smart Feeder	18	●	●	●	●	●	ArcReach equipped	●	●			.035-.045 in. (0.9-1.1 mm)	12 in. diameter spool capacity, remote voltage control without a control cord, requires an XMT 350 FieldPro connected to three-phase power or an ArcReach-equipped engine drive	Process piping, refinery, petrochemical, power plants, HVAC, water pipe	
SuitCase® 12RC	18	●	●	●		●	CV	●	●	●	●	.023-.5/64 in. (0.6-2.0 mm)	12 in. diameter spool capacity, standard remote voltage control, powered by 14-pin control cord	Field maintenance, site fabrication	
20 Series (Basic and Digital)	20	●	●	●		●	CV	●	●	●	●	.023-.5/64 in. (0.6-2.0 mm)	Four quick-change drive rolls, digital meters, remote voltage control (meters and remote voltage control are a field kit option on basic model)	Manufacturing, fabrication	Bench
70 Series (74S and 74D) Singles and Duals	20	●	●	●		●	CV	●	●	●	●	.023-.5/64 in. (0.6-2.0 mm)	Four quick-change drive rolls, remote voltage control (field kit option on 74S models), digital meters (74D only)	Heavy and light manufacturing, fabrication	
70 Series (74 MPa Plus) Singles and Duals	20	●	●	●		●	CV	●	●	●	●	.023-.5/64 in. (0.6-2.0 mm)	XR-Aluma-Pro™ Plus or XR™-Pistol Plus guns for feeding soft wires	Manufacturing requiring multiple wire types	
70 Series Swingarc™ Singles and Duals	22	●	●	●		●	CV	●	●	●	● ³	.023-.5/64 in. (0.6-2.0 mm)	12 and 16 ft. booms, four drive rolls, adjustable weld control	Heavy and light manufacturing, fabrication	
70 Series Remote Configurations Singles and Duals	22	●	●	●		●	CV	●	●	●	● ³	.023-.5/64 in. (0.6-2.0 mm)	Control box, cables and wire drive motor assemblies for generic booms or fixed automation	Heavy and light manufacturing, fabrication	

Product Key

Class: ● Light Industrial ● Industrial ● Heavy Industrial Capability: ● Designed for this process ● Capable of this process

¹ Smart Feeder requires an XMT® 350 FieldPro™ connected to three-phase power or an ArcReach-equipped engine drive. All other feeders require an MPa inverter power source.

² Certain self-shielded wires require CV output. Miller recommends a CV power source whenever possible.

³ 74S and 74D models are capable of aluminum welding. 74 MPa Plus models are designed for aluminum welding.

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MIG GMAW

Also see Multiprocess section for machines that can MIG weld.

	Product Guide	Page	Class	MIG	Pulsed MIG	Flux-cored*	CAC-A	Portability	Weldable Metals	Welding Output Range	Special Features	Typical Applications
1-Phase	Milleratic® 141	7	●	●	●			Handles, optional running gear	Steel, stainless, aluminum	30-140 A	All-in-one, 120 V input, Auto-Set™, Smooth-Start™	Up to 3/16 in. using self-shielded wire maintenance/repair, auto body, hobby
	Milleratic® 211	7	●	●	●					30-230 A	All-in-one, 120 or 240 V input, Auto-Set™, Smooth-Start™	Up to 3/8 in. maintenance/repair, auto body, hobby
	Milleratic® 252	8	●	●	●			Installed running gear	Steel, stainless, aluminum	30-300 A	All-in-one, standard timers menu, Fan-On-Demand™, connects to standard MIG gun, push-pull gun or spool gun	Up to 1/2 in. industrial production/fabrication, farm
	Milleratic® 255	9	●	●	●			Handles, optional running gear	Steel, stainless, aluminum	20-350 A	All-in-one, Auto-Set™, stores up to four programs, connects to standard MIG gun, push-pull gun or spool gun	Up to 1/2 in. industrial production/fabrication, pulsed MIG ideal for thin gauge aluminum
1- and 3-Phase	Milleratic® 355	10	●	●	●			Removeable running gear	Steel, stainless, aluminum	20-400 A 12-34 V	All-in-one, Auto-Set™, stores up to four programs, connects to standard MIG gun, push-pull gun or spool gun	Up to 1/2 in. industrial production/fabrication, pulsed MIG ideal for thin gauge aluminum
	AlumaFeed™ 350 Aluminum System	11	●	●	●			Handles, optional cart, MIGRunner™	Aluminum	5-425 A 10-38 V	Profile Pulse™, lightweight feeder can be up to 100 feet from power source	Heavy industrial aluminum production/fabrication, truck trailer, shipbuilding
	Invision™ 352 MPa Plus System	14	●	●	●	1/2			Most metals	5-425 A 10-38 V	Push-pull gun capability, optimized with 74 MPa Plus wire feeder	Manufacturing and production
3-Phase	AlumaFeed™ 450 Aluminum System	11	●	●	●			Handles, optional cart, MIGRunner™	Aluminum	15-600 A 10-38 V	Profile Pulse™, lightweight feeder can be up to 100 feet from power source	Heavy industrial aluminum production/fabrication, truck trailer, shipbuilding
	Invision™ 450 MPa Plus System	14	●	●	●	1/2			Most metals	15-600 A 10-38 V	Push-pull gun capability, optimized with 74 MPa Plus wire feeder	Manufacturing and production
	Deltaweld™ 350 Systems	12	●	●	●			Lift eye, optional running gear, MIGRunner™	Steel, stainless	20-400 A 10-38 V	Special arc control feature when paired with Intelix™ feeders, Accu-Pulse® MIG welding with Intelix Pro feeders; optional Insight Core™	Medium-to-large manufacturing and fabrication
	Deltaweld™ 500 Systems	12	●	●	●	3/8				30-650 A 10-44 V	Special arc control feature when paired with Intelix™ feeders, Accu-Pulse® MIG welding with Intelix Pro feeders; optional Insight Core™	Medium-to-large manufacturing and fabrication
	Continuum™ 350	15	●	●	●	1/2		Lift eye, optional running gear, MIGRunner™	Most metals	20-400 A 10-44 V	Advanced arc performance, Insight Core™; optional Insight Centerpoint™	Mid- to high-volume manufacturing
	Continuum™ 500	15	●	●	●	3/8				20-600 A 10-44 V	Advanced arc performance, Insight Core™; optional Insight Centerpoint™	Mid- to high-volume manufacturing
	Auto-Continuum™ 350	16	●	●	●			Lift eye	Most metals	20-400 A 10-44 V	Available for EtherNet/IP™, DeviceNet and analog protocol, Insight Core™; optional Insight Centerpoint™	Fixed and flexible automation
	Auto-Continuum™ 500	16	●	●	●					20-600 A 10-44 V	Available for EtherNet/IP™, DeviceNet and analog protocol, Insight Core™; optional Insight Centerpoint™	Fixed and flexible automation

Key

Class: ● Light Industrial ● Industrial ● Heavy Industrial Capability: ● Designed for this process ● Capable of this process
NEW! products appear in blue type. **If using self-shielded wire on a CC/CV machine, use CV weld output.

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Multiprocess

Power Source Welding Performance		Light Industrial			Industrial				Heavy Industrial		
		Multimatic® 200 (page 37)	Multimatic® 215 (page 37)	Multimatic® 220 AC/DC (page 38)	Multimatic® 235 (page 39)	Multimatic® 255 (page 40)	Maxstar® 280 Multiprocess (page 41)	Dynasty® 300 Multiprocess (page 41)	XMT® 350 Models (pages 42-45)	XMT® 450 Models (pages 42-45)	Dimension™ 650 (page 46)
Material	Mild Steel	●	●	●	●	●	●	●	●	●	●
	Stainless Steel	●	●	●	●	●	●	●	●	●	●
	Aluminum	●	●	●	●	●	●	●	● ¹	● ¹	●
Material Thickness	Gauge (.020-.125 in.)	●	●	●	●	●	●	●	●	●	●
	Sheet (.125-.375 in.)	●	●	●	●	●	●	●	●	●	●
	Plate (.375-1 in.)									●	●
	Plate (1+ in.)									●	●
Wire Size	.023 in.	●	●	●	●	●	●	●	●	●	●
	.030 in.	●	●	●	●	●	●	●	●	●	●
	.035 in.	●	●	●	●	●	●	●	●	●	●
	.045 in.	●	●	●	●	●	●	●	●	●	●
	.052 in.						●	●	●	●	●
	1/16 in.								●	●	●
	5/64 in.								●	●	●
	3/32 in.									●	●
Process	Short Circuit	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★
	Pulsed Spray					★★★★			★★★★ ²	★★★★ ²	
	Stick	★★	★★	★★	★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★
	AC TIG			★★★★				★★★★			
	DC TIG	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★	★★★★
	CACA						3/16 in.	3/16 in.	1/4 in.	5/16 in.	3/8 in.

Icon Key

Capability: ● Designed for ● Capable of
NEW! products appear in blue type.

Process Quality: ★ Good ★★ Better ★★★ Best ★★★★ Optimized

¹ CC/CV and FieldPro™ models are capable of aluminum welding. MPA models are designed for aluminum welding. XR-AlumaFeed® system is recommended for best results.

² MPA models only.

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GTAW | **TIG**



Also see Multiprocess section for machines that can TIG weld.



Product Guide	Page	Class	TIG	Pulsed TIG	Stick	CAC-A	MIG/Flux-cored	Max. Electrode Diameter				Material Thickness Range (TIG)	Welding Amperage Range	Pulse Capability	Net Weight	Generator Power Requirement		
								E6010/11	E6013	E7018	E7024							CAC-A
Maxstar® 161	52							5/32 in.	1/8 in.	1/8 in.	3/32 in.	—	.020-3/16 in.	5-160 A	0-150 pps (STH model)	13 lb. (5.9 kg)	5.3 kW	DC (Steel)
Maxstar® 210	54							3/16 in.	3/16 in.	5/32 in.	5/32 in.	—	.002-1/4 in.	1-210 A	0.1-250 pps (base model) 0.1-500 pps (DX model)	38 lb. (17.2 kg)	9 kW	
Maxstar® 280	54							7/32 in.	3/16 in.	3/16 in.	3/16 in.	3/16 in.	.004-3/8 in.	1-280 A	0.1-250 pps (base model) 0.1-500 pps (DX model)	47 lb. (21.3 kg)	11 kW	
Maxstar® 400	56							5/16 in.	5/16 in.	1/4 in.	1/4 in.	1/4 in.	.012-5/8 in.	3-400 A	0.1-5,000 pps	134 lb. (61 kg)	20 kW	
Maxstar® 800	56							5/16 in.	5/16 in.	5/16 in.	5/16 in.	3/8 in.	.020-1 in.	5-800 A	0.1-5,000 pps	198 lb. (90 kg)	45 kW	
Diversion™ 180	52							—	—	—	—	—	.030-3/16 in. (alum.) .025-3/16 in. (steel)	10-180 A	—	50 lb. (23 kg)	5.5 kW	AC/DC (Aluminum/Steel)
Syncrowave® 210	53							5/32 in.	1/8 in.	1/8 in.	3/32 in.	—	.020-1/4 in. (aluminum/steel)	5-210 A	0.1-150 pps	133.5 lb. (61 kg)	6 kW	
Dynasty® 210	54							3/16 in.	3/16 in.	5/32 in.	5/32 in.	—	.012-1/4 in. (alum.) .002-1/4 in. (steel)	2-210 A (AC) 1-210 A (DC)	0.1-250 pps (base, DC only) 0.1-500 pps (DX model)	47 lb. (21.3 kg)	9 kW	
Dynasty® 280	54							7/32 in.	3/16 in.	3/16 in.	3/16 in.	3/16 in.	.012-3/8 in. (alum.) .004-3/8 in. (steel)	2-280 A (AC) 1-280 A (DC)	0.1-250 pps (base, DC only) 0.1-500 pps (DX model)	52 lb. (23.6 kg)	12.5 kW	
Dynasty® 400	56							5/16 in.	5/16 in.	1/4 in.	1/4 in.	1/4 in.	.015-5/8 in. (alum.) .012-5/8 in. (steel)	3-400 A	0.1-500 pps (AC) 0.1-5,000 pps (DC)	134 lb. (61 kg)	20 kW	
Dynasty® 800	56							5/16 in.	5/16 in.	5/16 in.	5/16 in.	3/8 in.	.020-1 in. (aluminum/steel)	5-800 A	0.1-500 pps (AC) 0.1-5,000 pps (DC)	198 lb. (90 kg)	50 kW	
Syncrowave® 300	57							5/32 in.	5/32 in.	5/32 in.	5/32 in.	—	.015-3/8 in. (alum.) .012-1/2 in. (steel)	5-300 A	0.1-150 pps	101 lb. (45.8 kg)	9 kW	

Product Key

Class: ● Light Industrial ● Industrial ● Heavy Industrial Capability: ● All models ● Some models
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Oil and water separator



Folding model



Straight rod model

DETAILED PARAMETERS

Model	Minimum H (mm)	Maximum H (mm)	Cylinder Φ (mm)	Iron mat H (mm)	Net weight (KG)	Package Size (cm)
60/120t	200	370	200	20+40+60	88	78*35*36



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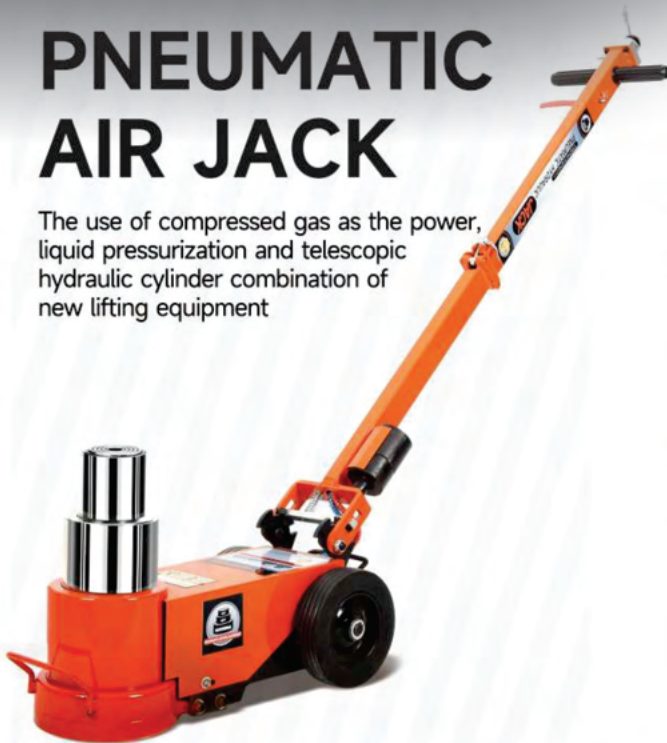
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SINGLE CYLINDER
Caterpillar Vehicle



DOUBLE CYLINDER
Trucks, Buses etc.



TRIPLE CYLINDER
Aircraft and Car



Folding model



Straight rod model



Oil and water separator

DETAILED PARAMETERS

Model	Minimum H (mm)	Maximum H (mm)	Iron mat H (mm)	Net weight (KG)	Package Size (cm)
15/30t	165	350	20+40+60	32	52*29*32
25/50t	165	325	20+40+60	39	67*30*32
30/60t	195	400	20+40+60	43	67*30*37
40/80t	205	395	20+40+60	58	75*31*37
50/100t	205	395	20+40+60	72	75*32*37
60/120t	205	380	20+40+60	84	78*35*37

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PNEUMATIC JACK

Pneumatic principle and strong power Export brand
EU CE certification Compressed air power source
Energy saving



CARRYING HANDLE ASSEMBLY
Sturdy and durable Easy to carry



OIL AND WATER SEPARATOR
Greatly extended service life



RUBBER TIRES
Enlarged reinforced wheels, silent
wear-resistant and shock-absorbing



REAR COVER SHELL
Long-lasting use Not easily damaged

DETAILED PARAMETERS

Model	30T	50T	60T	80T	100T	120T
Minimum H(mm)	165	165	190	205	205	205
Highest H(mm)	340	330	400	385	385	385
Including shim H(mm)	460	450	520	505	505	505
Product Weight(kg)	27	35	40	60	75	90
Lifting Weight	15/30T	25/50T	30/60T	40/80T	50/100T	60/120T
Pole length(mm)	850	1130	1130	1130	1250	1250

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HEIGHT PNEUMATIC JACK

New structural design with upgraded technology
High efficiency and safety



ROUND IRON CUSHION

Thickened protective plate
Can better protect the machine
cylinder from damage



SQUARE IRON MATS

Heightening mats Effective
solution for lack of height



Switch



Adjustment wrench



Air ducts



Tires

DETAILED PARAMETERS

Model	Load-bearing	Minimum H (mm)	Lifting stroke (mm)	Maximum H (mm)	Iron mat H (mm)	Contains Iron mat H (mm)
340	30T 50T	340	230	570	40+60	670
500	80T 100T 120T	500	350	850	100	950
570	80T 100T 120T	570	450	1020	100	1120
670	80T 100T 120T	670	550	1220	100	1320

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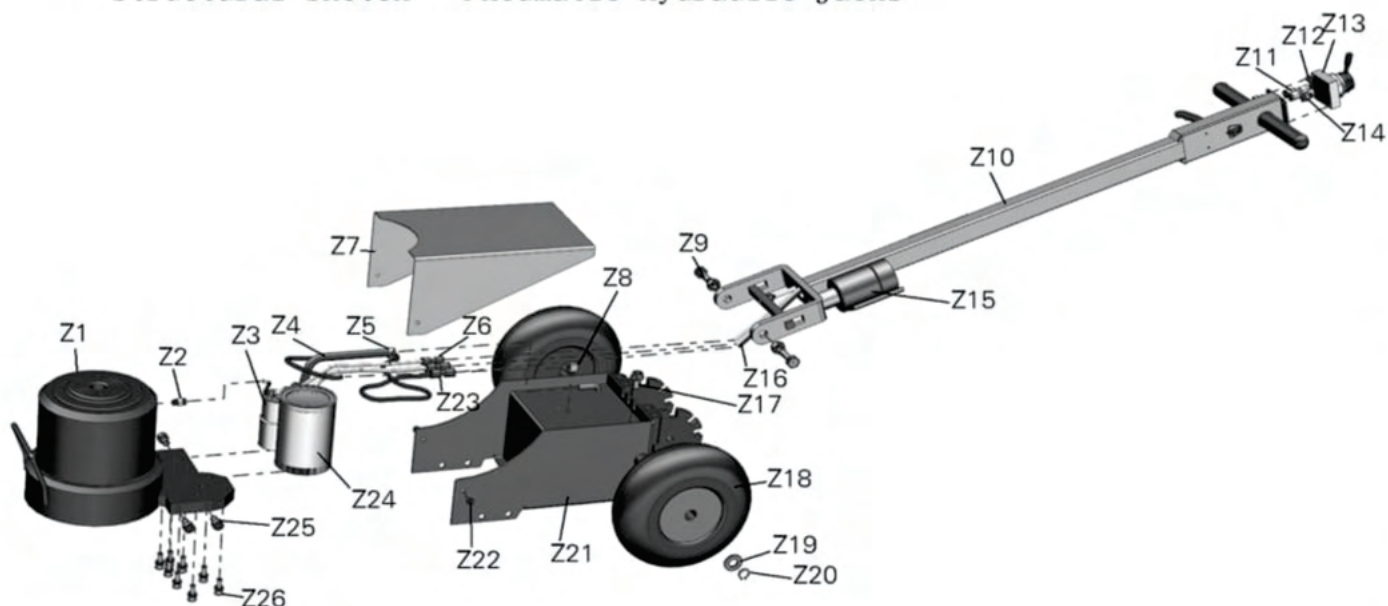
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Structural Sketch - Pneumatic Hydraulic Jacks



Z1 Cylinder Assembly,	Z7 Protection Cover	Z13 Switch	Z19 Flat Gaskets (2) 20 mm	Z25 Bolt (4) M10x16
Z2 Fast Coupler 6mm,	Z8 Elbow Connector 8 mm	Z14 Fast Coupler 6 mm	Z20 Stop Rings (2) 20 mm	Z26 Bolt (8) M8x20
Z3 Valve Assembly	Z9 Bolt & Nuts (2) M12x35	Z15 Extensions (2)	Z21 Oil Tank	
Z4 Oil Hose 8*14	Z10 Operation Handle	Z16 Gas Pipe	Z22 Bolt (2)	
Z5 Oil Hose Clamp 10-16 mm	Z11 Three-Way Connector	Z17 Screw - Oil Filling	Z23 Fast Connectors with	
Z6 Fast Connector with	Z12 Fast Coupler	Z18 Rubber Wheels (2)	Double Ends (2) 8 mm	
Double Ends 6 mm			Z24 Cylinder Assembly	

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SPROCKET



TRACK LINK



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