

TM SERIES TORQUE MULTIPLIERS

RATM50-25



Right Angle Tools

Model Number	Drive Size		Torque				Speed		Weight		Noise Level
			Gear 1		Gear 2		Gear 1	Gear 2			
	in	mm	ft lb	Nm	ft lb	Nm	rpm	rpm	lb	kg	
RATM50-07	3/4	19	45-220	61-298	150-590	203-800	46	15	17.2	7.8	84
RATM50-07K ¹	3/4	19	45-220	61-298	150-590	203-800	46	15	17.2	7.8	84
RATM50-10	1	25	60-295	81-400	220-900	298-1220	24	6.4	17.4	7.9	84
RATM50-10K ¹	1	25	60-295	81-400	220-900	298-1220	24	6.4	17.4	7.9	84
RATM50-15	1	25	80-370	108-502	220-1300	298-1763	20	5.6	20.0	9.0	84
RATM50-15K ¹	1	25	80-370	108-502	220-1300	298-1763	20	5.6	20.0	9.0	84
RATM50-25	1	25	110-600	149-813	340-2100	461-2847	7.5	2.1	26.8	12.0	84
RATM50-25K ¹	1	25	110-600	149-813	340-2100	461-2847	7.5	2.1	26.8	12.0	84
RATM50-45	1-1/2	38	160-1110	217-1491	500-3500	678-4745	4.8	1.4	27.5	12.5	84
RATM50-45K ¹	1-1/2	38	160-1110	217-1491	500-3500	678-4745	4.8	1.4	27.5	12.5	84
RATM50-60	1-1/2	38	220-1600	298-2169	650-5000	881-6779	4.2	1.2	40.7	18.5	84
RATM50-60K ¹	1-1/2	38	220-1600	298-2169	650-5000	881-6779	4.2	1.2	40.7	18.5	84

¹Includes FRL Kit. If you do not own a filter regulator lubricator to operate your TM Series tools, we highly recommend that you purchase your tool with the FRL Kit included.

General:

Air Inlet Size: 1/4" NPT (Please use high flow fittings only) • Recommended Hose Size: 3/8" (10 mm)

Performance rated @ various air pressures as specified in operations manual

Standard Equipment:

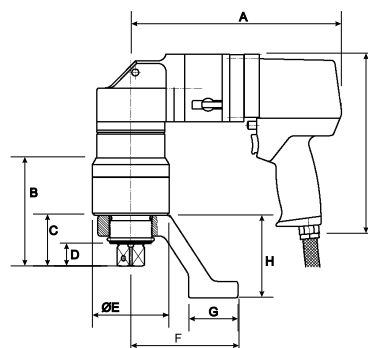
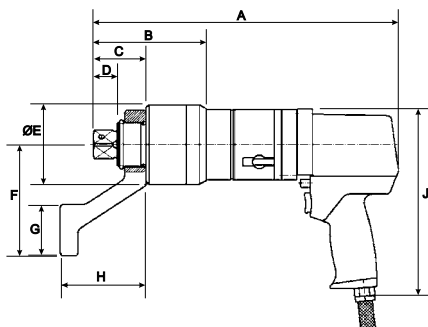
Parts List, Safety and Instruction Manual • Reaction arm • Metal carrying case

Accessories:

Torque Multiplier Accessories, see pages 55-57

Torque Multiplier Dimensions

Model Number	A		B		C		D		E		F		G		H		J	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TM50AP-0775	13.46	341	4.98	126	2.26	57	0.87	22	3.23	82	4.33	110	1.97	50	3.15	80	8.66	220
TM50AP-1075	13.5	342	5.12	130	2.44	62	1.06	105	3.23	82	5.12	130	2.36	60	3.94	100	8.66	220
TM50AP-15100	13.98	355	5.18	132	2.42	61	1.06	105	3.66	93	5.12	130	2.36	60	3.94	100	8.66	220
TM50AP-25100	15.55	395	5.91	150	2.87	73	1.06	105	3.86	98	6.69	170	2.36	60	3.94	100	8.66	220
TM50AP-45150	16.54	420	7.4	188	6.38	162	1.57	40	3.90	99	6.69	170	2.36	60	5.24	133	8.66	220
TM50AP-60150	17.9	455	10.37	263	3.86	98	1.57	40	4.72	120	7.48	190	3.15	80	5.91	150	8.66	220
RATM50-07	10.05	255	4.98	126	2.26	57	0.87	22	3.23	82	4.33	110	1.97	50	3.15	80	8.66	220
RATM50-10	10.05	255	5.12	130	2.44	62	1.06	105	3.23	82	5.12	130	2.36	60	3.94	100	8.66	220
RATM50-15	10.05	255	5.18	132	2.42	61	1.06	105	3.66	93	5.12	130	2.36	60	3.94	100	8.66	220
RATM50-25	10.05	255	5.91	150	2.87	73	1.06	105	3.86	98	6.69	170	2.36	60	3.94	100	8.66	220
RATM50-45	10.05	255	6.38	162	6.38	162	1.57	40	3.90	99	6.69	170	2.36	60	5.24	133	8.66	220
RATM50-60	10.05	255	10.38	264	3.86	98	1.57	40	4.72	120	7.48	190	3.15	80	5.91	150	8.66	220



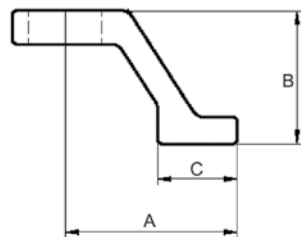
SAFETY PRECAUTION: Read and follow all safety and operating instructions.

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1

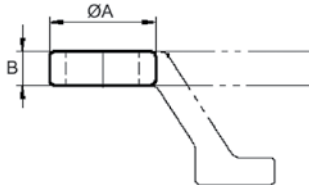
TM SERIES TORQUE MULTIPLIERS ACCESSORIES

Reaction Arms:

Standard reaction arms are included with each tool. Long or deep reaction arms are used when standard arms fall short in length. Welding rings are used to make custom reaction arms by welding the extensions to the spline ring.



Reaction Arm



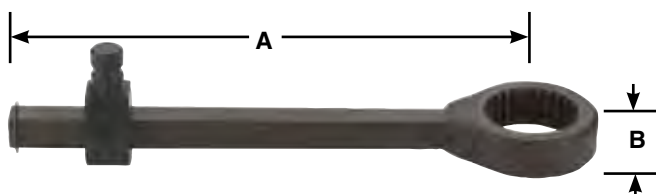
Welding Ring



Standard Reaction Arm



Welding Ring



Adjustable Reaction Arm

Standard Reaction Arms

Model Number	Tools Used On	A		B		C	
		in	mm	in	mm	in	mm
RARM-1	TM50AP-0775, RATM50-07	4.33	110	3.15	80	1.97	50
RARM-2	TM50AP-1075, RATM50-10, TM50AP-15100, RATM50-15	5.12	130	3.94	100	2.36	60
RARM-3	TM50AP-25100, RATM50-25	6.69	170	5.11	129	2.36	60
RARM-4	TM50AP-45150, RATM50-45	6.69	170	5.24	150	2.36	60
RARM-5	TM50AP-60150, RATM50-60	7.48	190	5.91	150	3.15	80
Welding Rings							
WRARM-1	TM50AP-0775, RATM50-07, TM50AP-1075, RATM50-10, TM50AP-15100, RATM50-15	3.07	78	0.98	25	-	-
WRARM-2	TM50AP-25100, RATM50-25	3.86	98	1.3	33	-	-
WRARM-3	TM50AP-45150, RATM50-45, TM50AP-60150, RATM50-60	4.33	110	1.97	50	-	-
Long or Deep Reaction Arms							
LRARM-1	TM50AP-0775, RATM50-07	4.33	110	4.72	120	1.97	50
LRARM-2	TM50AP-1075, RATM50-10, TM50AP-15100, RATM50-15	5.12	130	5.52	140	2.36	60
LRARM-3	TM50AP-25100, RATM50-25	6.69	170	5.91	150	2.36	60
LRARM-4	TM50AP-45150, RATM50-45	6.69	170	7.1	180	2.36	60
LRARM-5	TM50AP-60150, RATM50-60	7.48	190	7.88	200	3.15	80
Adjustable Reaction Arms							
ARARM-1	TM50AP-0775	11.80	300	1.00	25	N/A	N/A
ARARM-2	TM50AP-1075 and TM50AP-15100	11.80	300	1.00	25	N/A	N/A
ARARM-3	TM50AP-25100and TM50AP-45150	14.20	360	1.30	33	N/A	N/A

Steel Reaction Arms are available. To order put the suffix "S" after the model number (example: RARM-1S).

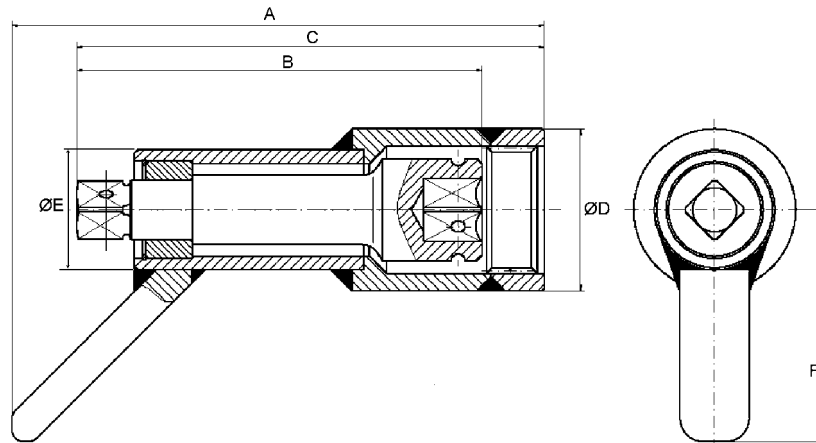


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Wheel Extensions

Model Number	Drive Size		A		B		C		D		E		F	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TMEXT-07	3/4	19	9.38	238	6.89	175	8.27	210	2.76	70	1.89	48	3.94	100
TMEXT-07-8	3/4	19	10.36	263	7.87	200	9.26	235	2.76	70	1.89	48	3.94	100
TMEXT-07-10	3/4	19	12.33	313	9.84	250	11.23	285	2.76	70	1.89	48	3.94	100
TMEXT-07-13	3/4	19	15.48	393	13	330	14.83	365	2.76	70	1.89	48	3.94	100
TMEXT-10	1	25	9.5	241	6.89	175	8.35	212	3.07	78	2.05	52	4.33	110
TMEXT-10-8	1	25	10.48	266	7.87	200	13.28	237	3.07	78	2.05	52	4.33	110
TMEXT-10-10	1	25	12.45	316	9.84	250	11.31	87	3.07	78	2.05	52	4.33	110
TMEXT-10-13	1	25	15.6	396	13	330	14.46	367	3.07	78	2.05	52	4.33	110
TMEXT-25	1	25	10.05	255	6.9	175	8.51	216	3.55	90	2.36	60	5.32	135
TMEXT-25-8	1	25	11.03	280	7.88	200	9.5	241	3.55	90	2.36	60	5.32	135
TMEXT-25-10	1	25	13	330	9.85	250	11.47	291	3.55	90	2.36	60	5.32	135
TMEXT-25-13	1	25	16.15	410	13	330	14.62	371	3.55	90	2.36	60	5.32	135



Filter-Regulator-Lubricator Kit

Model: FRLK1660

Weight: 17 lb

Includes 10 ft. 3/8" Hose, Stand, Filter, Regulator, Lubricator, Nuts and Bolts for mounting, and Pressure Gauge.

The FRLK1660 is used to regulate the air pressure and properly lubricate the air motor for ultimate life between service. The chart is an example of what's included in each tool's operation's manual. Air pressure regulates and controls torque output. All TM Series tools must be used with an FRL and it's strongly advised not to exceed the maximum amount of air pressure.



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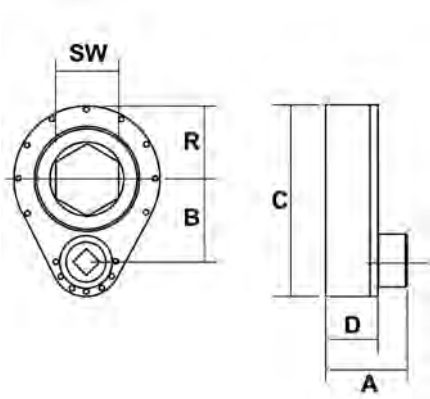
TM SERIES TORQUE MULTIPLIERS ACCESSORIES

Grab Wheel

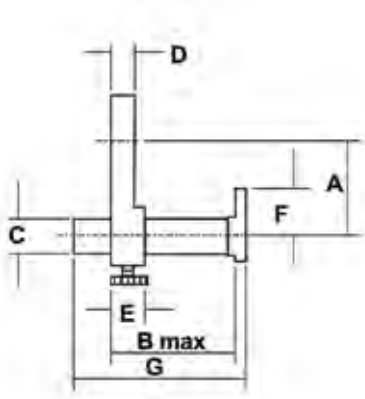
The Grab Wheel option offers advantages of reducing labor time and increasing worker safety. In most plants, the operation people are the only ones who manage the valves, which can take 5 to 8 hours to open and close utilizing multiple personnel. With the new Sioux Plarad and Grab Wheel system, one person can do it in less than 30 minutes including set-up. The Plarad weighs about 13 pounds and the grab wheel attachment is about 25 pounds. Once mounted on the spokes of the valve wheel, the operator doesn't have to hold the load. The Grab Wheel comes equipped with 4" pins that hold the spokes of the valve wheel for ease of set-up and versatility.



STX22-02-GW



Off-Set Gear



Reaction Member



Off-Set Gears

Off-Set Gear Measurements

Model Number	Max Torque		SW		A		B		C		D		R	
	ft lb	Nm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
STX22-02-TL	1623	2200	2.56	65	4.1	104	3.2	81	7.49	190	2.6	66	2.52	64
STX36-02-TL	2655	3600	3.94	100	4.18	106	4.39	112	10.02	255	2.68	67	3.82	97

Output torque of STX-22-02-TL = Torque from Torque Multiplier x 1.6
Output torque of STX-36-02-TL = Torque from Torque Multiplier x 2.5

Reaction Member Measurements

Model Number	A		B		C		D		E		F		G		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
STX22-R	3.27	83	5.52	140	0.79	20	0.79	20	1.18	30	1.97	50	5.91	150	2.6	5.7
STX36-R	3.27	83	5.52	140	1.18	30	0.79	20	1.18	30	1.97	50	5.91	150	3.0	6.6



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Insert Bit Adapters

Square drive to 5/16" female hex



2534

Part Number	Drive Size
2534	3/8"
2585	1/2"

Quick Change Chuck

Adapts male square drive to female hex quick change



2520

Part Number	Drive Size		Color
	Input (Square Drive)	Output (Hex)	
2530	3/8"	1/4"	1-13/16"
2520	1/2"	7/16"	2 1/4"

Socket Retaining Pins with "O" Rings



34911B & 14318

Retaining Pin	"O" Ring	For Use On
34911B	14318	3/4" Dr. Sockets 6620-6638
34911B	14319	Adaptors 2564, 2565, 2566
34665	14319	Adaptor 2568, All 1" Dr. Sockets

Remote Exhaust Kits



3301

Part Number	For Use On
3301	1 series pistol grip
3302	1 series inline
3303	Z-Handle series

Magnetic Bit Holder

Part No: 2525

Accepts 1/4" Hex Insert Bits
shing Part No. 2497 used with 2525



Bit Holder

Part No. 2526

Accepts 1/4" Hex Insert Bits



Phillips Head Insert Bits



PartNumber	Bit Size	Length		Point Size
	in	in	mm	
2547	1/4	1	25	1
2548	1/4	1	25	2
2549	1/4	1	25	3
2587	5/16	1-1/4	32	2
2589	5/16	1-1/4	32	4

Socket Head Insert Bits



Part Number	Length		Hex Size
	in	mm	
2950	1	25	3/32"
2535B	1	25	1/8"
2536	1-5/16	33	5/32"
2567	1-5/16	33	3/16"

