



✦ tools with perfection



JAS-ANZ



AS / NZS

ISO 9001 : 2008



Quality Assurance

We standardize our self to match and comply with ISO 9001: 2008 Standard and manufactured according to AMERICAL NATIONAL STANDARDS, DIN STANDARDS.

Tristar delivers “tools with perfection”

Over 20 years of hand off experience in manufacturing supplying proves us.

Tristar Tools are accepted throughout the world as the Toughest Tools. In providing high quality tools we at Tristar seek constant improvements in materials and manufacturing techniques. Our quality assurance department is continually striving, for zero errors to maintain our high level of product quality right from design engineering to production and packing. Our quality standards are very high and are second to none.

Customer Care

- Timely supplies, best after sales service and support has been Tristar Trademark since inception.
- Tristar has maintained a position of Leadership, in the field of industrial Tightening / Loosening Tools for more than a two decades. Today Tristar stands ready to improve the productivity of assembly operations around the world with unsurpassed Tool Performance and Customer Satisfaction.
- Tristar product range is ready for off the shelf delivery. Tristar provides a broad section of Fastener Tools and are glad to offer a Tool for almost every type of application. Tristar design department with its experienced manpower is set to take care of any requirement of tools for any specific application.

Our Presence in

Our products are successfully used in Power sector, Automobile sector, Chemical and Fertilizers, Heavy industry, Oil and Gas, EPC contractors and OEM suppliers.

Innovation

Tristar innovates tools with perfection.

We are glad that we have been including new innovative Tools to provide the Best Tool you need, when you need it. Tristar with the experience of a decade in the service of Industry has grown stronger since its inception in 1989 with the continued patronage of every customer.

We determine the most appropriate approach for Bolting solution by assessing the Bolting needs and requirements.

Features of Tristar Professional Tools.

Over 20 years of hand off experience in manufacturing.

Customization

Tristar also adapt, engineer and manufacture bespoke torque tools to need the customer requirement of individual Bolting application.

Distributorship

The right partner in life can sometimes be a challenge to unearth; but when you do find them you instinctively know, the relationship is going to be flawless. For over Two Decades, the TRISTAR has taken a proactive role in supporting their Distributors by an extremely diverse range of product Portfolios by excellent services.

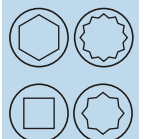
Each year we look to create a number of significant alliances with highly dynamic organizations who have both a strong sense of vision and purpose. With an ethos to thrive on success and an absolute focus on unprecedented achievement we look to support projects demonstrating constant momentum and motivation.

Working closely together, our aim is to generate maximum impact by identifying positive sponsorship opportunities. By creatively playing on fundamental strengths, we look to champion campaigns that are thunderous and capable of generating an advantage to all involved.

Tristar Impact Sockets are made from Best suited Industrially tested alloy steel accordance with international quality standards, and duly heat treated to sustain the constant shock associated with the Hydraulic/Air and Electric Powered Drive Tools. Tristar Impact Sockets are available in a wide variety of sizes and types to suit virtually any application. A few standard types are illustrated below ...



Tristar Industrial grade impact sockets are available in a wide range of lengths and wall thicknesses and with single or double hex openings. Square openings are also available.



Magnetic sockets hold the fastener in driving position, even when working straight down. Time wasting motions are eliminated when starting fasteners or working in hard-to-reach areas. These sockets are identified with a M-prefix.



As the nut is run down, a spring-loaded or hollow cylinder magnet allows the bolt or stud to retract into the socket body. Nuts are held firmly in the socket. These sockets are identified with a MB-prefix.



Large openings on the six corners of the opening create a "floating" action that allows the socket to slip quickly and easily onto to the nut or bolt. Ideal for compensating for imperfect alignment between the tool and fastener. Not generally recommended for impact use. Ideally suited for applications for Multi Spindle fastening. These sockets are identified with SF - prefix.



You will find Spline, tap holding, Budd Wheel, grease fitting and other sockets for special applications.



Hard-to-reach area are no problem with Tristar's wide range of universal and extension universal wrenches.



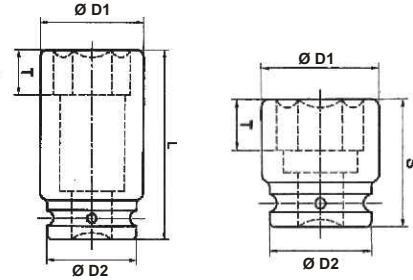
Are developed in all sizes to meet to specific need of the after auto market requiring extended sockets to clear sub assemblies and reach bolts/nuts in hard-to-reach areas.



Tristar provides the accessories needed to adapt sockets to nearly every tool and application.



IMPACT SOCKETS



1/4" square drive

SAE SIZE		METRIC SIZE		D1	D2	S	L	T
Part No.	A/F	Part No.	A/F					
TI-114	1/4"	TIM-106	6	12	17	25	50	10
TI-115	9/32"	TIM-107	7	13	17	25	50	10
TI-116	5/16"	TIM-108	8	14.5	17	25	50	10
TI-117	11/32"	TIM-109	9	16	17	25	50	10
TI-118	3/8"	TIM-110	10	16.5	17	25	50	10
TI-119	7/16"	TIM-111	11	17.5	17	25	50	12
-	-	TIM-112	12	19	17	25	50	12
TI-120	1/2"	TIM-113	13	19.5	17	25	50	12
TI-121	9/16"	TIM-114	14	21	17	28	50	13

3/8" square drive

SAE SIZE		METRIC SIZE		D1	D2	S	L	T
Part No.	A/F	Part No.	A/F					
TI-216	5/16"	TIM-208	8	14	21	30	60	10
TI-218	3/8"	TIM-210	10	16.5	21	30	60	10
TI-219	7/16"	TIM-211	11	18	21	30	60	12
-	-	TIM-212	12	19	21	30	60	12
TI-220	1/2"	TIM-213	13	20	21	30	60	12
TI-221	9/16"	TIM-214	14	22	22	30	60	13
-	-	TIM-215	15	23	22	32	60	15
TI-223	5/8"	TIM-216	16	25	22	32	60	15
TI-224	11/16"	TIM-217	17	26	25	32	60	15
-	-	TIM-218	18	27	25	32	60	16
TI-225	3/4"	TIM-219	19	28.5	25	32	60	16
-	-	TIM-220	20	29	25	32	60	16
TI-227	13/16"	TIM-221	21	30	25	34	60	18
TI-228	7/8"	TIM-222	22	31	25	34	60	18

NOTE : TO ORDER DEEP SOCKETS ADD "L" AFTER PART NO.

'O' RING & PIN for 1/4" Sq. Dr. Sockets

'O' Ring		Pin		Suitable for Socket Size	
I.D.	Φ D	Φ D	L	A/F	
14	3.0	3.0	14	6 to 14 (1/4" to 9/16")	

1/2" square drive

SAE SIZE		METRIC SIZE		D1	D2	S	L	T
Part No.	A/F	Part No.	A/F					
T-316	5/16"	TIM-308	8	16	26	38	80	10
TI-318	3/8"	TIM-310	10	17.5	26	38	80	10
TI-319	7/16"	TIM-311	11	19	26	38	80	12
-	-	TIM-312	12	20	26	38	80	12
TI-320	1/2"	TIM-313	13	22	26	38	80	12
TI-321	9/16"	TIM-314	14	23	26	38	80	13
-	-	TIM-315	15	24.5	27	38	80	14
TI-323	5/8"	TIM-316	16	26	27	38	80	14
TI-324	11/16"	TIM-317	17	27	27	38	80	14
-	-	TIM-318	18	29	30	40	80	14
TI-325	3/4"	TIM-319	19	30	30	40	80	16
-	-	TIM-320	20	32	30	40	80	16
TI-327	13/16"	TIM-321	21	33.5	30	40	80	18
TI-328	7/8"	TIM-322	22	35	30	40	80	18
-	-	TIM-323	23	36.5	30	42	80	21
TI-329	15-16"	TIM-324	24	38	36	42	80	21
TI-330	1"	-	-	41	36	42	80	21
TI-331	1.1/16"	TIM-327	27	42	36	45	80	23
TI-332	1.1/8"	-	-	46	36	45	80	23
TI-333	1.3/16"	TIM-330	30	46	36	45	80	24
TI-334	1.1/4"	TIM-332	32	48	36	46	80	26
TI-336	1.3/8"	-	-	55	36	51	80	28
TI-338	1.1/2"	-	-	56	36	53	80	30

'O' RING & PIN for 3/8" Sq. Dr. Sockets

'O' Ring		Pin		Suitable for Socket Size	
I.D.	Φ D	Φ D	L	A/F	
18	4.0	3.0	18	6 to 16 (1/4" to 9/16")	
22	4.0	3.0	22	15 to 22 (5/8" to 1")	

'O' RING & PIN for 1/2" Sq. Dr. Sockets

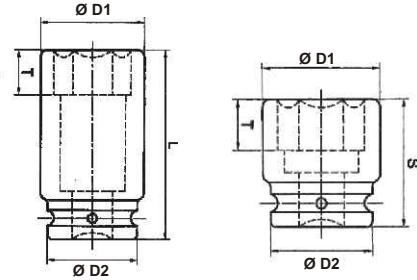
'O' Ring		Pin		Suitable for Socket Size	
I.D.	Φ D	Φ D	L	A/F	
22	4.0	4.0	22	8 to 17 (5/16" to 11/16)	
26	4.0	4.0	25	17 to 23 (3/4" to 7/8)	
32	4.0	4.0	30	24 to 32 (15/16" to 1.1/2)	



Please observe safety advices



IMPACT SOCKETS



3/4" square drive

SAE SIZE		METRIC SIZE		D1	D2	S	L	T
Part No.	A/F	Part No.	A/F					
TI-421	9/16"	-	-	28	44	48	90	13
TI-423	5/8"	-	-	30	44	48	90	14
TI-424	11/16"	TIM-417	17	32	44	48	90	14
T-425	3/4"	TIM-419	19	34	44	48	90	16
TI-427	13/16"	-	-	36	44	50	90	16
TI-428	7/8"	TIM-422	22	38.5	44	50	90	18
TI-429	15/14"	TIM-424	24	42	44	50	90	21
TI-430	1"	-	-	43.5	44	50	90	21
TI-431	1.1/16"	TIM-427	27	44	44	50	90	23
TI-432	1.1/8"	-	-	48	44	50	90	23
TI-433	1.3/16"	TIM-430	30	48	44	50	90	24
TI-434	1.1/4"	TIM-432	32	52	44	55	90	26
TI-435	1.5/16"	-	-	53	44	55	90	26
TI-436	1.3/8"	-	-	55	44	55	90	28
TI-437	1.7/16"	TIM-436	36	55	44	60	90	28
TI-438	1.1/2"	TIM-438	38	59	44	60	90	30
TI-439	1.5/8"	TIM-441	41	66	44	66	90	36
TI-440	1.11/16"	-	-	68	44	66	100	36
TI-441	1.13/16"	TM-446	46	72	54	66	100	36
TI-442	1.7/8"	-	-	74	60	68	100	36
TI-443	1.15/16"	-	-	76	60	70	100	39
TI-444	2"	TIM-450	50	76	60	70	100	39
TI-445	2.1/16"	-	-	78	60	74	110	41
TI-446	2.3/16"	TIM-455	55	84	60	74	110	41
TI-447	2.1/4"	-	-	84	70	74	120	41
TI-448	2.3/8"	TIM-460	60	88	70	78	120	45

NOTE : TO ORDER DEEP SOCKETS ADD "L" AFTER PART NO.

'O' RING & PIN for 3/4" Sq. Dr. Sockets

'O' Ring		Pin		Suitable for Socket Size	
I.D.	Φ D	Φ D	L	A/F	
38	5.0	5.0	35	17 to 41 (9/16" to 1.11/16")	
48	5.0	5.0	45	46 (1" to 1.13/16")	
54	5.0	5.0	52	50 to 55 (1.7/8" to 2.3/16")	
64	5.0	5.0	62	60 (2.1/4" to 2.3/8")	

1" square drive

SAE SIZE		METRIC SIZE		D1	D2	S	L	T
Part No.	A/F	Part No.	A/F					
TI-525	3/4"	TIM-519	19	38	54	63	110	16
TI-527	13/16"	-	-	38	54	63	110	18
TI-528	7/8"	TIM-522	22	40	54	63	110	18
T-529	15/16"	TIM-524	24	42	54	63	110	21
TI-530	1"	-	-	44	54	63	110	21
TI-531	1.1/16"	TIM-527	27	46	54	63	110	23
TI-532	1.1/8"	-	-	49	54	63	110	23
TI-533	1.3/16"	TIM-530	30	50	54	63	110	24
TI-534	1.1/4"	TIM-532	32	52	54	63	110	26
TI-535	1.5/16"	-	-	54	54	63	110	26
TI-536	1.3/8"	-	-	56	54	66	110	28
TI-537	1.7/16"	TIM-536	36	58	54	66	110	28
TI-538	1.1/2"	TIM-538	38	62	54	66	110	30
TI-538A	1.9/16"	-	-	65	54	68	110	32
TI-539	1.5/8"	TIM-541	41	67	54	68	110	36
TI-540	1.11/16"	-	-	67	54	68	110	36
TI-541	1.3/4"	-	-	72	54	74	110	36
TI-542	1.13/16"	TM-546	46	74	54	74	110	36
TI-543	1.7/8"	-	-	74	54	74	110	36
TI-544	1.15/16"	-	-	75	70	76	110	39
TI-545	2"	TIM-550	50	77	70	76	110	39
TI-546	2.1/16"	-	-	77	70	76	120	41
TI-547	2.3/16"	TIM-555	55	86	70	78	120	41
TI-548	2.1/4"	-	-	86	70	78	120	41
TI-550	2.3/8"	TIM-560	60	90	70	81	120	45
TI-551	2.7/16"	-	-	90	70	81	120	45
TI-553	2.9/16"	TIM-565	65	98	80	85	120	46
TI-554	2.5/8"	-	-	98	80	85	120	46
TI-556	2.3/4"	TIM-570	70	104	80	90	130	50
TI-557	2.13/16"	-	-	104	80	90	130	50
TI-559	2.15/16"	TIM-575	75	112	80	94	130	57
TI-560	3"	-	-	112	80	94	130	57
TI-561	3.1/8"	TIM-580	80	118	80	100	140	62
TI-563	3.3/8"	TIM-585	85	125	80	104	140	62

'O' RING & PIN for 1" Sq. Dr. Sockets

'O' Ring		Pin		Suitable for Socket Size	
I.D.	Φ D	Φ D	L	A/F	
48	6.0	5.0	45	19 to 46 (3/4" to 1.7/8")	
64	6.0	6.0	60	50 to 60 (1.15/16" to 2.7/16")	
74	6.0	6.0	70	65 to 85 (2.9/16" to 3.3/8")	



Please observe safety advices



IMPACT SOCKETS

1.1/2" square drive

SAE SIZE		METRIC SIZE		D1	D2	S	L	T
Part No.	A/F	Part No.	A/F					
TI-631	1.1/16"	-	-	54	86	80	130	23
TI-632	1.1/8"	-	-	58	86	80	130	23
TI-636	1.3/8"	-	-	64	86	80	130	28
TI-637	1.7/16"	TIM-636	36	64	86	80	130	28
TI-638	1.1/2"	TIM-638	38	69	86	80	130	30
TI-638/A	1.9/16"	-	-	69	86	80	130	32
TI-639	1.5/18"	TIM-641	41	69	86	83	130	36
TI-640	1.11/16"	-	-	69	86	83	130	36
TI-641	1.3/4"	-	-	69	86	83	130	36
TI-642	1.13/16"	TIM-46	46	76	86	86	130	36
TI-643	1.7/8"	-	-	76	86	86	130	36
TI-645	2"	TIM-650	50	81	86	90	130	39
TI-646	2.1/16"	-	-	81	86	90	140	41
TI-647	2.3/16"	TIM-655	55	88	86	95	140	41
TI-648	2.1/4"	-	-	88	86	95	140	41
TI-650	2.3/8"	TIM-660	60	96	86	98	140	45
TI-651	2.7/16"	-	-	96	86	98	140	45
TI-653	2.9/16"	TIM-665	65	102	86	102	140	46
TI-654	2.5/8"	-	-	102	86	102	140	46
TI-656	2.3/4"	TIM-670	70	108	86	102	150	50
TI-657	2.13/16"	-	-	108	86	102	150	50
TI-659	2.15/16"	TIM-675	75	116	86	108	150	57
TI-660	3"	-	-	116	86	108	150	57
TI-661	3.1/8"	TIM-680	80	120	86	110	150	62
TI-663	3.3/8"	TIM-685	85	130	86	115	170	62
TI-664	3.1/2"	TIM-690	90	135	125	118	170	65
TI-665	3.3/4"	TIM-695	95	140	125	123	170	70
TI-666	3.7/8"	TIM-6100	100	148	125	128	190	75
TI-668	4.1/8"	TIM-6105	105	155	125	133	190	80
TI-669	4.1/4"	-	-	155	125	133	190	80
-	-	TIM-6110	110	161	150	138	200	85
TI-670	4.1/2"	TIM-6115	115	161	150	143	200	94
TI-671	4.5/8"	TIM-6120	120	175	150	149	200	94

'O' RING & PIN for 1.1/2" Sq. Dr. Sockets

'O' Ring		Pin		Suitable for Socket Size
I.D.	Φ D	Φ D	L	A/F
78	6.0	6.0	75	36 to 85 (1.1/16" to 3.3/8")
118	6.0	6.0	115	90 to 105 (3.1/2" to 4.1/4")
142	6.0	6.0	120	110 to 120 (4.1/2" to 4.5/8")

'O' RING & PIN for 2.1/2" Sq. Dr. Sockets

'O' Ring		Pin		Suitable for Socket Size
I.D.	Φ D	Φ D	L	A/F
115	10.0	10.0	115	60 to 105 (2.3/8" to 4.1/8")
140	10.0	10.0	140	110 to 145 (4.3/8" to 5.3/4")
170	10.0	10.0	170	150 to 200 (6.18" to 8")

'O' RING & PIN for 3.1/2" Sq. Dr. Sockets

'O' Ring		Pin		Suitable for Socket Size
I.D.	D	D	L	A/F
165	10.0	10.0	165	120 to 235 (4.5/8" to 9.18")

2.1/2" square drive

SAE SIZE		METRIC SIZE		D1	D2	S	L	T
Part No.	A/F	Part No.	A/F					
TI-750	2.3/8"	TIM-760	60	120	125	120	190	45
TI-753	2.9/16"	TIM-765	65	125	125	120	190	46
TI-756	2.3/4"	TIM-770	70	130	125	120	190	50
TI-759	2.15/16"	TIM-775	75	130	125	130	190	57
TI-761	3.1/8"	TIM-780	80	135	125	140	190	62
TI-763	3.3/8"	TIM-785	85	140	125	140	190	62
TI-764A	3.5/8"	TIM-790	90	145	125	140	190	65
TI-765	3.3/4"	TIM-795	95	155	125	150	190	70
TI-766	3.7/8"	-	-	155	125	150	190	70
TI-767	4"	TIM-7100	100	160	125	150	200	75
TI-768	4.1/8"	TIM-7105	105	165	125	160	200	80
TI-769A	4.3/8"	TIM-7110	110	174	150	160	210	85
TI-770	4.1/2"	TIM-7115	115	180	150	170	210	90
TI-771	4.5/8"	-	-	180	150	175	220	94
TI-772	4.3/4"	TIM-7120	120	185	150	175	220	94
TI-773	4.7/8"	-	-	185	150	175	220	94
TI-774	5"	-	-	195	150	175	220	98
-	-	TIM-7130	130	195	150	175	220	98
TI-775	5.3/8"	TIM-7135	135	205	150	180	220	102
TI-778	5.3/4"	TIM-7145	145	220	150	180	230	105
-	-	TIM-7150	150	230	180	190	250	110
TI-781	6.1/8"	TIM-7155	155	230	180	190	250	110
-	-	TIM-7160	160	240	180	190	-	110
TI-784	6.1/2"	TIM-7165	165	240	180	200	-	120
TI-787	6.7/8"	TIM-7175	175	255	180	200	-	120
TI-790	7.1/4"	TIM-7185	185	270	180	210	-	130
TI-793	7.5/8"	TIM-7195	195	275	180	210	-	130
TI-796	8"	TIM-7200	200	290	180	225	-	140

3.1/2" square drive

SAE SIZE		METRIC SIZE		D1	D2	S	L	T
Part No.	A/F	Part No.	A/F					
TI-871	4.5/8"	TIM-8120	120	180	175	182	277	72
TI-873	4.7/8"	TIM-8130	130	193	175	190	280	80
TI-874	5.1/4"	TIM-8135	135	197	175	198	280	83
TI-875	5.3/8"	TIM-8145	145	213	175	214	295	86
TI-877	5.5/8"	TIM-8150	150	218	175	214	295	90
TI-878	5.3/4"	TIM-8155	155	225	175	214	297	92
TI-884	6.1/2"	TIM-8165	165	237	175	231	313	98
TI-886	6.3/4"	TIM-8170	170	243	175	231	313	100
TI-888	7"	TIM-8180	180	255	175	237	320	108
TI-893	7.5/8"	TIM-8195	195	275	175	245	328	118
TI-896	8"	TIM-8200	200	280	175	250	332	120
TI-8100	8.1/2"	TIM-8215	215	298	175	263	246	125
TI-8104	9"	TIM-8230	230	317	175	279	359	132
TI-8105	9.1/8"	TIM-8235	235	325	175	279	362	136

NOTE : TO ORDER DEEP SOCKETS ADD "L" AFTER PART NO.





IMPACT HEX BIT SOCKETS



3/4" square drive

SAE SIZE		METRIC SIZE		Approx OAL (mm)	Hex Bit Length (mm)
Part No.	A/F	Part No.	A/F		
HI-420	1/2"	HIM-412	12	80	30
HI-421	9/16"	HIM-414	14	80	30
HI-423	5/8"	HIM-417	17	90	40
HI-425	3/4"	HIM-419	19	95	40
HI-428	7/8"	HIM-422	22	95	45
-	-	HIM-424	24	100	50

1/4" square drive

SAE SIZE		METRIC SIZE		Approx OAL (mm)	Hex Bit Length (mm)
Part No.	A/F	Part No.	A/F		
HI-110	1/8"	HIM-103	3	41	15
HI-111	5/32"	HIM-104	4	41	15
HI-112	3/16"	HIM-105	5	43	20
HI-113	7/32"	-	-	43	20
HI-114	1/4"	HIM-106	6	45	25

1" square drive

SAE SIZE		METRIC SIZE		Approx OAL (mm)	Hex Bit Length (mm)
Part No.	A/F	Part No.	A/F		
HI-518	3/8"	-	-	81	26
HI-520	1/2"	-	-	84	30
HI-521	9/16"	-	-	86	30
HI-523	5/8"	-	-	98	40
-	-	HIM-517	17	100	40
HI-525	3/4"	HIM-519	19	107	45
HI-528	7/8"	HIM-522	22	112	45
HI-529	15/16"	HIM-524	24	120	50
HI-530	1"	-	-	120	50
HI-531	1.1/16"	HIM-527	27	120	50
-	-	HIM-530	30	120	50
HI-530	1.1/8"	-	-	120	50
-	-	HIM-532	32	120	50
-	-	HIM-536	36	120	50

3/8" square drive

SAE SIZE		METRIC SIZE		Approx OAL (mm)	Hex Bit Length (mm)
Part No.	A/F	Part No.	A/F		
HI-210	1/8"	HIM-203	3	44	15
HI-211	5/32"	HIM-204	4	44	15
HI-212	3/16"	HIM-205	5	47	20
HI-213	7/32"	-	-	49	20
HI-214	1/4"	HIM-206	6	49	20
HI-216	5/16"	HIM-208	8	49	25
HI-218	3/8"	HIM-210	10	50	25

1/2" square drive

SAE SIZE		METRIC SIZE		Approx OAL (mm)	Hex Bit Length (mm)
Part No.	A/F	Part No.	A/F		
HI-314	1/4"	HIM 306	6	53	20
HI-316	5/16"	HIM 308	8	53	25
HI-318	3/8"	HIM 310	10	57	25
HI-320	1/2"	HIM 312	12	63	30
HI-321	9/16"	HIM 314	14	63	30
HI-323	5/8"	HIM 317	17	73	40

1.1/2" square drive

SAE SIZE		METRIC SIZE		Approx OAL (mm)	Hex Bit Length (mm)
Part No.	A/F	Part No.	A/F		
HI-630	1"	-	-	140	50
HI-631	1.1/16"	-	-	140	50
HI-632	1.1/8"	HIM-630	30	140	50
HI-634	1.1/4"	HIM-632	32	140	50
-	-	HIM-636	36	145	55
HI-638	1.1/2"	-	-	145	55
-	-	HIM-641	41	160	60
HIM-641	1.3/4"	-	-	170	70
-	-	HIM-646	46	170	70
HIM-645	2"	HIM-650	50	170	70



Please observe safety advice



STUD DRIVERS / TIGHTENERS



3/4" square drive

SAE SIZE		METRIC SIZE		
Part No.	Bolt Size	Part No.	Bolt Size	Thread Length
SD-4-5/8" UNF	5/8" UNF	SDM-416	M 16 x 2.0	20
SD-4-5/8" BSF	5/8" BSF	-	-	20
SD-4-3/4" UNF	3/4" UNF	SDM-420	M 20 x 2.0	24
SD-4-3/4" BSF	3/4" BSF	-	-	24
SD-4-7/8" UNF	7/8" UNF	SDM-422	M 22 x 2.5	24
SD-4-7/8" BSF	7/8" BSF	-	-	24
SD-4-1" UNF	1" UNF	SDM-424	M 24 x 3.0	24
SD-4-1" BSF	1" BSF	-	-	24

3/8" square drive

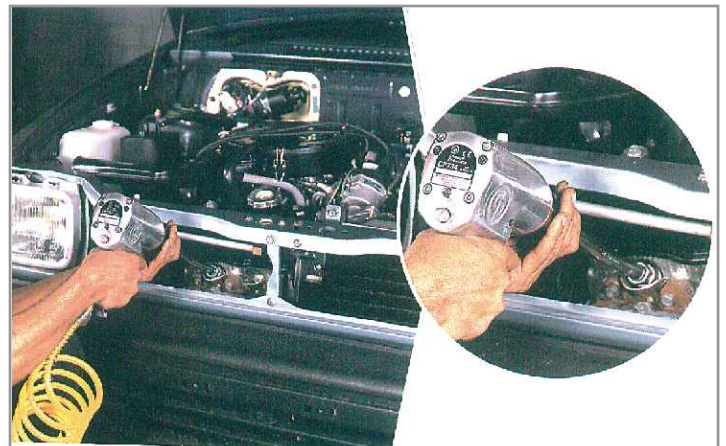
SAE SIZE		METRIC SIZE	
Part No.	Stud Dia	Part No.	Stud Dia
SD-2 1/4" UNF	1/4" UNF	SDM - 206/1.00	M6 x 1.0
SD-2 1/4" BSF	1/4" BSF	SDM - 207/1.00	M7 x 1.0
SD-2 5/16" UNF	5/16" UNF	SDM - 208/1.25	M8 x 1.25
SD-2 5/16" BSF	5/16" BSF	SDM - 208/1.00	M8 x 1.00
SD2 3/8 UNF	3/8 UNF	SDM - 210/ 1.50	M10 x 1.50
SD-2 3/8" BSF	3/8" BSF	SDM - 210/1.25	M10 x 1.25

1" square drive

SAE SIZE		METRIC SIZE		
Part No.	Bolt Size	Part No.	Bolt Size	Thread Length
SD-5-7/8" UNF	7/8" UNF	-	-	30
SD-5-7/8" BSF	7/8" BSF	-	-	30
SD-5-1" BSF	1" UNF	SDM 524	M 24 x 3.0	32
SD-5-1" BSF	1" BSF	-	-	32
SD-5 1.1/8" UNF	1.1/8" UNF	SDM 527	M 27 x 3.0	35
SD-5 1.1/8" BSF	1.1/8" BSF	-	-	35
SD-5 1.1/4" UNF	1.1/4" UNF	SDM 530	M 30 x 3.5	40
SD-5 1.1/4" BSF	1.1/4" BSF	-	-	40
SD-5 1.3/8" UNF	1.3/8" UNF	SDM 533	M 33 x 3.5	40
SD-5 1.3/8" BSF	1.3/8" BSF	-	-	40
SD-5 1.1/2" UNF	1.1/2" UNF	SDM 536	M 36 x 4.0	48
SD-5 1.1/2" BSF	1.1/2" BSF	-	-	48

1/2" square drive

SAE SIZE		METRIC SIZE	
Part No.	Stud Dia & Pitch	Part No.	Stud Dia & Pitch
SD-3 1/4" UNF	1/4" UNF	SDM-306	M6 x 1.00
SD-3 1/4" BSF	1/4" BSF	SDM-307	M7 x 1.00
SD-3 5/16 UNF	5/16 UNF	SDM-308	M8 x 1.25
SD-3 5/16" BSF	5/16" BSF	SDM-308/1	M8 x 1.00
SD-3 3/8" UNF	3/8" UNF	SDM-310	M10 x 1.50
SD-3 3/8" BSF	3/8" BSF	SDM-310/1.25	M10 x 1.25
SD-3 1/2" UNF	1/2" UNF	SDM-312	M12 x 1.75
SD-3 1/2" BSF	1/2" BSF	SDM-312/1.25	M12 x 1.25
SD-3 9/16" UNF	9/16" UNF	SDM-314	M14 x 2.00
SD-3 9/16" BSF	9/16" BSF	SDM-314/1.50	M14 x 1.50
SD-3 5/8" UNF	5/8" UNF	SDM-316	M16 x 2.00
SD-3 5/8" BSF	5/8" BSF	SDM-316/1.5	M16 x 1.50



Please observe safety advices



BI-HEX SOCKETS



1/2" square drive

SAE SIZE		METRIC SIZE		D1	D2	S	L	T
Part No.	A/F	Part No.	A/F					
-	-	TM-308	8	15	26	38	80	10
-	-	TM-309	9	15	26	38	80	10
T-318	3/8"	TM-310	10	16	26	38	80	10
T-319	7/16"	TM-311	11	18	26	38	80	12
-	-	TM-312	12	19	26	38	80	12
T-320	1/2"	TM-313	13	20	26	38	80	12
T-321	9/16"	TM-314	14	22	26	38	80	13
-	-	TM-315	15	23	26	38	80	14
T-323	5/8"	TM-316	16	24.5	26	38	80	14
T-324	11/16"	TM-317	17	26	26	38	80	14
-	-	TM-318	18	27	26	40	80	14
T-325	3/4"	TM-319	19	28	26	40	80	16
-	-	TM-320	20	29	26	40	80	16
T-327	13/16"	TM-321	21	31	28	40	80	18
T-328	7/8"	TM-322	22	33	28	40	80	18
-	-	TM-323	23	34	28	42	80	18
T-329	15/16"	TM-324	24	35	32	42	80	21
T-330	1"	TM-325	25	36.5	32	42	80	21
-	-	TM-326	26	38	32	42	80	21
T-331	1.1/16"	TM-327	27	39	32	45	80	23
T-332	1.1/8"	TM-328	28	42	32	45	80	23
T-333	1.3/16"	TM-330	30	43.5	36	45	80	24
T-334	1.1/4"	TM-332	32	45	36	45	80	26
T-335	1.5/16"	TM-334	34	48	36	48	80	26
T-336	1.3/8"	-	-	49	36	48	80	29
T-337	1.7/16"	TM336	36	50	36	48	80	29
T-338	1.1/2"	TM338	38	52	36	50	80	31

1/4" square drive

SAE SIZE		METRIC SIZE		D1	D2	S	L	T
Part No.	A/F	Part No.	A/F					
-	-	TM-15	5.0	9	15	25	50	8
-	-	TM-15.5	5.5	9	15	25	50	8
T-114	1/4"	TM-16	6	10.5	15	25	50	10
T-115	9/32"	TM-17	7	11	15	25	50	10
T-116	5/16"	TM-18	8	12.5	15	25	50	10
T-117	11.32"	TM-19	9	14	15	25	50	10
T-118	3/8"	TM-110	10	15	15	25	50	10
T-119	7/6"	TM-111	11	16.5	15	25	50	12
-	-	TM-112	12	17.5	16	27	50	12
T-120	1/2"	TM-113	13	18.5	16	27	50	12
T-121	9/16"	TM-114	14	20.5	16	28	50	13

3/8" square drive

SAE SIZE		METRIC SIZE		D1	D2	S	L	T
Part No.	A/F	Part No.	A/F					
T-214	1/4"	TM-206	6	10.5	21	30	60	8
-	-	TM-207	7	11	21	30	60	8
T-216	5/16"	TM-208	8	13	21	30	60	10
-	-	TM-209	9	13.5	21	30	60	10
T-218	3/8"	TM-210	10	15	21	30	60	10
T-219	7/16"	TM-211	11	17	21	30	60	12
-	-	TM-212	12	18	21	30	60	12
T-220	1/2"	TM-213	13	19	21	30	60	12
T-221	9/16"	TM-214	14	21	21	30	60	13
-	-	TM-215	15	22	22	32	60	15
T-223	5/8"	TM-216	16	24	22	32	60	15
T-224	11/16"	TM-217	17	25	22	32	60	15
-	-	TM-218	18	26	22	32	60	15
T-225	3/4"	TM-219	19	27	25	32	60	16
-	-	TM-220	20	28	25	32	60	16
T-227	13/16"	TM-221	21	29	25	34	60	18
T-228	7/8"	TM-222	22	29	25	34	60	18

NOTE : TO ORDER DEEP SOCKETS ADD "L" AFTER PART NO.

SOCKET SETS

SOCKET SETS ARE AVAILABLE IN 3/8", 1/2", 3/4", 1" SQ. DRIVE WITH STANDARD A/F SIZES SOCKETS & ACCESSORIES PACKED IN A METAL BOX



Please observe safety advices



BI-HEX SOCKETS



3/4" square drive

SAE SIZE		METRIC SIZE		D1	D2	S	L	T
Part No.	A/F	Part No.	A/F					
T-421	9/16"	-	-	26	38	48	90	13
T-423	5/8"	-	-	28	38	48	90	14
T-424	11/16"	TIM-417	17	30	38	48	90	14
T-425	3/4"	TIM 419	19	32	38	50	90	16
T-427	13/16"	-	-	34	38	50	90	16
T-428	7/8"	TIM-422	22	34	38	50	90	18
T-429	15/16"	TIM-424	24	36	38	50	90	21
T-430	1"	-	-	38	38	50	90	21
T-431	1.11/16"	TIM-427	27	40	40	50	90	23
T-432	1.1/8"	-	-	43	40	40	90	23
T-433	1.3/16"	TIM-430	30	44	40	55	90	24
T-434	1.1/4"	TIM-432	32	46	40	55	90	26
T-435	1.5/16"	-	-	48	40	55	90	26
T-436	1.3/8"	-	-	49	40	55	90	28
T-437	1.7/16"	TIM-436	36	52	40	55	90	28
T-438	1.1/2"	TIM-438	38	54	50	60	90	30
T-439	1.5/8"	TIM-441	41	56	50	63	90	32
T-440	1.11/16"	-	-	59	50	65	100	32
T-441	1.3/4"	-	-	61	50	65	100	36
T-442	1.13/16"	TM-446	46	63	50	68	100	36
T-443	1.7/8"	-	-	66	60	68	100	36
T-445	2"	TM-450	50	68	60	70	100	39
-	-	TIM-455	55	76	60	72	110	41
-	-	TM-460	60	84	60	75	110	45

NOTE : TO ORDER DEEP SOCKETS ADD "L" AFTER PART NO.



1" square drive

SAE SIZE		METRIC SIZE		D1	D2	S	L	T
Part No.	A/F	Part No.	A/F					
T-531	1.1/16"	TM-527	27	40	48	63	110	23
T-532	1.1/8"	-	-	46	48	63	110	23
-	-	TM-530	30	46	48	63	110	24
T-534	1.1/4"	TM-532	32	48	48	63	110	26
T-535	1.5/16"	-	-	50	48	63	110	26
T-536	1.3/8"	-	-	54	48	66	110	28
T-537	1.7/16"	TM-536	36	55	48	66	110	30
T-538	1.1/2"	TM-538	38	57	48	66	110	30
T-539	1.5/8"	TM-541	41	60	50	68	110	36
T-540	1.11/16"	-	-	63	50	68	110	36
T-542	1.13/16"	TM-546	46	66	60	74	110	36
T-543	1.7/8"	-	-	66	60	74	110	36
T-544	1.15/16"	-	-	69	60	76	110	39
T-545	2"	TM-550	50	71	60	76	110	39
T-546	2.1/16"	-	-	75	60	76	110	41
T-547	2.3/16"	TM-555	55	78	60	78	120	41
T-548	2.1/4"	-	-	82	60	78	120	41
T-550	2.3/8"	TM-560	60	84	60	81	120	45
T-551	2.7-16"	-	-	86	60	81	120	45
T-553	2.9/16"	TM-565	65	90	80	85	120	48
T-554	2.5/8"	-	-	94	80	85	120	48
T-556	2.3/4"	TM-570	70	96	80	90	120	48
T-557	2.13/16"	-	-	99	80	90	120	48
T-559	2.15/16"	TM-575	75	102	80	94	120	48
T-560	3"	-	-	105	80	94	120	54
T-561	3.1/8"	TM-580	80	108	80	98	140	57
T-563	3.3/8"	TM-585	85	114	80	104	140	57
T-564	3.1/2"	-	-	112	80	104	140	57

SOCKET SETS

SOCKET SETS ARE AVAILABLE IN 3/8", 1/2", 3/4", 1" SQ. DRIVE WITH STANDARD A/F SIZES SOCKETS & ACCESSORIES PACKED IN A METAL BOX



Please observe safety advices

SLIDING T HANDLE

Part No.	square drive	OAL (mm)
TSB - 1	1/4"	150
TSB - 2	3/8"	250
TSB - 3	1/2"	300
TSB - 4	3/4"	500
TSB - 5	1"	350



SWIVEL HANDLE

Part No.	square drive	OAL (mm)
TSH - 1	1/4"	150
TSH - 2	3/8"	245
TSH - 3	1/2"	380
TSH - 4	3/4"	580
TSH - 5	1"	815



RATCHET HANDLE

Part No.	square drive	OAL (mm)
TRR - 1	1/4"	110
TRR - 2	3/8"	190
TRR - 3	1/2"	260
TRR - 4	3/4"	500
TRR - 5	1"	605



L HANDLE

Part No.	square drive	OAL (mm)
TAH - 1	1/4"	125
TAH - 2	3/8"	140
TAH - 3	1/2"	165
TAH - 4	3/4"	350
TAH - 5	1"	600



UNIVERSAL JOINTS

Part No.	square drive	OAL (mm)
TSU - 1	1/4"	40
TSU - 2	3/8"	53
TSU - 3	1/2"	64
TSU - 4	3/4"	98
TSU - 5	1"	110



EXTENSION BARS

Part No.	Female square	Male square	OAL (mm)
TIB- 1055	1/4"	1/4"	55
TIB- 1100	1/4"	1/4"	100
TIB- 1150	1/4"	1/4"	150
TIB- 2075	3/8"	3/8"	75
TIB- 2150	3/8"	3/8"	150
TIB- 2300	3/8"	3/8"	300
TIB- 3075	1/2"	1/2"	75
TIB- 3125	1/2"	1/2"	125
TIB- 3250	1/2"	1/2"	250
TIB- 4175	3/4"	3/4"	175
TIB- 4210	3/4"	3/4"	210
TIB- 4430	3/4"	3/4"	430
TIB- 5175	1"	1"	175
TIB- 5200	1"	1"	200
TIB- 5400	1"	1"	400
TIB- 6250	1.1/2"	1.1/2"	250
TIB- 6500	1.1/2"	1.1/2"	500
TIB- 7255	2.1/2"	2.1/2"	255
TIB- 7380	2.1/2"	2.1/2"	380
TIB- 7510	2.1/2"	2.1/2"	510
TIB- 8510	3.1/2"	3.1/2"	510
TIB- 8750	3.1/2"	3.1/2"	750



SQUARE DRIVE ADAPTER

Part No.	Female square	Male square	OAL (mm)
TIA- 1	1/4"	3/8"	27
TIA- 2	3/8"	1/4"	32
TIA- 3	3/8"	1/2"	35
TIA- 4	1/2"	3/8"	38
TIA- 5	3/4"	1/2"	44
TIA- 6	1/2"	3/4"	44
TIA- 7	1/2"	1/2"	38
TIA- 8	3/4"	3/4"	44
TIA- 9	3/4"	1"	44
TIA-10	1"	3/4"	70
TIA-11	1"	1. 1/2"	90
TIA-12	1"	1"	80
TIA-14	1. 1/2"	1"	110
TIA- 16	1.1/2"	2.1/2"	135
TIA- 17	2.1/2"	1.1/2"	165
TIA- 18	2.1/2"	3.1/2"	210
TIA- 19	3.1/2"	2.1/2"	240



NOTE : EXTENSION AND ADAPTERS ARE ALSO AVAILABLE IN MANUAL

EXTENSION SOCKETS



1/2" square drive

Part No.	A/F	Approx OAL (mm)
TESM - 310	10	100
TESM - 310L	10	150
TESM - 310X	10	200
TESM - 310XL	10	250
TESM - 311	11	100
TESM - 311L	11	150
TESM - 311X	11	200
TESM - 311XL	11	250
TESM - 312	12	100
TESM - 312L	12	150
TESM - 312X	12	200
TESM - 312XL	12	250
TESM - 313	13	100
TESM - 313L	13	150
TESM - 313X	13	200
TESM - 313XL	13	250
TESM - 314	14	100
TESM - 314L	14	150
TESM - 314X	14	200
TESM - 314XL	14	250
TESM - 317	17	100
TESM - 317L	17	150
TESM - 317X	17	200
TESM - 317XL	17	250
TESM - 319	19	100
TESM - 319L	19	150
TESM - 319X	19	200
TESM - 319XL	19	250
TESM - 321	21	100
TESM - 321L	21	150
TESM - 321X	21	200
TESM - 321XL	21	250
TESM - 322	22	100
TESM - 322L	22	150
TESM - 322X	22	200
TESM - 322XL	22	250
TESM - 323	23	100
TESM - 323L	23	150
TESM - 323X	23	200
TESM - 323XL	23	250
TESM - 324	24	100
TESM - 324L	24	150
TESM - 324X	24	200
TESM - 324XL	24	250
TESM - 327	27	100
TESM - 327L	27	150
TESM - 327X	27	200
TESM - 327XL	27	250

3/8" square drive

Part No.	A/F	Approx OAL (mm)
TESM-207	7	100
TESM-207L	7	150
TESM-207X	7	200
TESM-207LX	7	250
TESM-208	8	100
TESM-208L	8	150
TESM-208X	8	200
TESM-208XL	8	250
TESM-210	10	100
TESM-210L	10	150
TESM-210X	10	200
TESM-210XL	10	250
TESM-211	11	100
TESM-211L	11	150
TESM-211X	11	200
TESM-211XL	11	250
TESM-212	12	100
TESM-212L	12	150
TESM-212X	12	200
TESM-212XL	12	250
TESM-213	13	100
TESM-213L	13	150
TESM-213X	13	200
TESM-213XL	13	250
TESM-214	14	100
TESM-214L	14	150
TESM-214X	14	200
TESM-214XL	14	250

NOTE : WE HAVE SPECIALLY DEVELOPED FOR THE AUTOMOTIVE SECTOR SPRING LOADED MAGNETIC AS WELL AS FIX MAGNETIC EXTENSION SOCKETS FOR TIGHTENING OF NUTS WITH BOLT CLEARANCE NEEDS.

ALL SIZE OF EXTENSION SOCKETS, ALSO AVAILABLE IN SWIVEL JOINT TYPE, PREFIX 'S' ON THE ABOVE PART NOS FOR ORDER.

NUT SETTERS / RUNNERS



1/4" Hex Drive

Part No.	Hex Drive Flat	Across Nose Dia (mm)	Socket	OAL (mm)
TNR - 106	1/4"	6	11.0	75
TNR - 106L	1/4"	6	11.0	100
TNR - 106X	1/4"	6	11.0	150
TNR - 107	1/4"	7	12.0	75
TNR - 107L	1/4"	7	12.0	100
TNR - 107X	1/4"	7	12.0	150
TNR - 108	1/4"	8	13.0	75
TNR - 108L	1/4"	8	13.0	100
TNR - 108X	1/4"	8	13.0	150
TNR - 109	1/4"	9	15.0	75
TNR - 109L	1/4"	9	15.0	100
TNR - 109X	1/4"	9	15.0	150
TNR - 110	1/4"	10	16.0	75
TNR - 110L	1/4"	10	16.0	100
TNR - 110X	1/4"	10	16.0	150
TNR - 111	1/4"	11	17.5	75
TNR - 111L	1/4"	11	17.5	100
TNR - 111X	1/4"	11	17.5	150
TNR - 112	1/4"	12	18.5	75
TNR - 112L	1/4"	12	18.5	100
TNR - 112X	1/4"	12	18.5	175
TNR - 113	1/4"	13	19.5	75
TNR - 113L	1/4"	13	19.5	100
TNR - 113X	1/4"	13	19.5	150
TNR - 114	1/4"	14	20.5	75
TNR - 114L	1/4"	14	20.5	100
TNR - 114X	1/4"	14	20.5	150

NOTE : WE CAN ALSO CATER TO THE NEEDS OF NUTS RUNNERS OF ALL SIZES WITH FIXED & SPRING LOADED MAGNETS FOR BOLT CLEARANCE TYPE NEEDS AND IN UNIVERSAL TYPE ALSO AVAILABLE

QUICK CHANGE ADAPTER



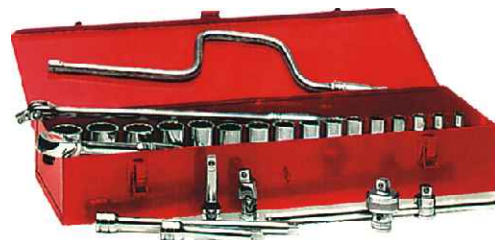
Part No.	Hex Female	Square Female	OAL (mm)
TQC- 214	1/4"	3/8"	46
TQC- 314	1/4"	1/2"	53

HEAVY DUTY INDUSTRIAL SERVICE TOOL KITS

Specifications

Model No.	Description	Contents
TR -46 - M	General All Purpose Handyman's Tool Kit	46 Tools in mm sizes
TR -47 - M	Mechanics Breakdown Tool Kit	47 Tools in mm sizes
TR -47 - A	Mechanics Breakdown Tool Kit	47 Tools in SAE sizes
TR -78 - AM	Mechanics Breakdown Tool Kit	78 Tools in mm & SAE sizes
TR -70 - M	Vehicle Mechanical Tool Kit	70 Tools in mm sizes
TR -35 - M	Car Service Tool Kit	35 Tools in mm sizes
TR -75 - M	Electrician Tool Kit	75 Tools in mm sizes
TR -76 - M	Electrician Tool Kit	76 Tools in mm sizes
TR -90 - M	Basic Service Tool Kit	90 Tools in mm sizes
TR -90 - A	Basic Service Tool Kit	90 Tools in SAE sizes
TR -135 - AM	Basic Service Tool Kit	135 Tools in mm & SAE sizes
TR -94 - M	Garage Maintenance Tool Kit	94 Tools in mm sizes
TR -94 - A	Garage Maintenance Tool Kit	94 Tools in SAE sizes
TR -141 - AM	Garage Maintenance Tool Kit	141 Tools in mm & SAE sizes
TR -103 - M	Filters Tool Kit	103 Tools in mm sizes
TR -103 - A	Filters Tool Kit	103 Tools in SAE sizes
TR -161 - AM	Filters Tool Kit	161 Tools in mm & SAE sizes
TR -112 - AM	Machine Shop Maintenance Tool Kit	112 Tools in mm & SAE sizes
TR -142 - M	Maintenance Tool Kit	142 Tools in mm sizes
TR -143 - M	Super Maintenance Breakdown Tool Kit	143 Tools in mm sizes
TR -143 - A	Super Maintenance Breakdown Tool Kit	143 Tools in SAE sizes
TR -221 - AM	Super Maintenance Breakdown Tool Kit	221 Tools in mm & SAE sizes
TR -151 - M	Industrial Heavy Duty Tool Kit	151 Tools in mm sizes
TR -151 - A	Industrial Heavy Duty Tool Kit	151 Tools in SAE sizes
TR -220 - AM	Industrial Heavy Duty Tool Kit	220 Tools in mm & SAE sizes
TR -158 - M	Universal Service Tool Kit	158 Tools in mm sizes
TR -158 - A	Universal Service Tool Kit	158 Tools in SAE sizes
TR -179 - M	Universal Service Tool Kit	179 Tools in mm sizes
TR -179 - A	Universal Service Tool Kit	179 Tools in SAE sizes
TR -237 - AM	Universal Service Tool Kit	237 Tools in mm & SAE sizes
TR -276 - AM	Universal Service Tool Kit	276 Tools in mm & SAE sizes
TR -160 - AM	General Service Tool Kit	160 Tools in mm & SAE sizes
TR -60 - M	General Service Tool Kit	60 Tools in mm sizes
TR -180 - M	Maintenance Service Tool Kit	180 Tools in mm sizes
TR -180 - A	Maintenance Service Tool Kit	180 Tools in SAE sizes
TR -287 - AM	Maintenance Service Tool Kit	287 Tools in mm & SAE sizes
TR -203 - M	Maintenance General Service Tool Kit	203 Tools in mm sizes

NOTE : WE CAN ALSO CATER THE TOOL KITS AS PER CUSTOMER SPECIFICATIONS



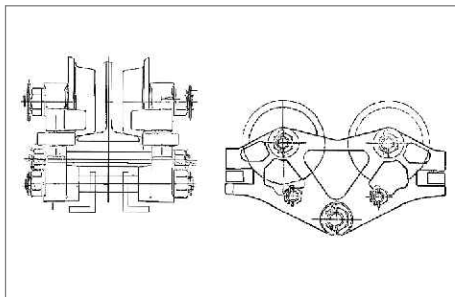


MODEL NO.	BALANCING CAPACITY		TRAVEL in Mtr.	ROPE Dia. Mm.	UNIT Weight
	Min. Kgs.	Max. Kgs.			
E-1	0.25	1.5	1.5	2.0	1.0
E-2	1.0	2.0	1.5	2.0	1.0
E-3	1.0	3.0	1.5	2.5	1.8
E-5	2.5	5.0	1.5	2.5	1.8
E-9	4.5	9.0	1.5	4.0	4.2
E-15	9.0	15.0	1.5	4.0	4.5
E-22	15.0	22.0	1.5	5.0	9.0
E-30	22.0	30.0	1.5	5.0	9.5
E-40	30.0	40.0	1.5	5.0	10.5
E-50	40.0	50.0	1.5	5.0	11.2
E-60	50.0	60.0	1.5	5.0	12.6
E-70	60.0	70.0	1.5	5.0	13.2
E-85	70.0	85.0	1.5	8.0	25.0
E-100	85.0	100.0	1.5	8.0	27.5
E-120	100.0	120.0	1.5	8.0	30.5
E-150	120.0	150.0	1.5	8.0	32.0
E-180	150.0	180.0	1.5	8.0	35.0
E-200	180.0	200.0	1.5	8.0	36.0

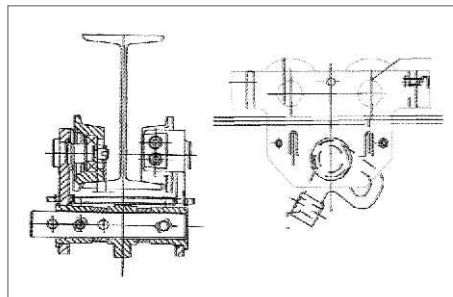
TRISTAR OVERHEAD (I-BEAM) PUSH PULL TROLLEY

'Tristar I-Beam Trolley has been designed specially to be used alongwith Spring Balancers in weld shop of Automobiles on standard I-Beam (150 x 75) or (200 x 100) for 3 Dimensional movement on X-Y-Z axes. 'Tristar' Trollies are rugged in construction made from steel side plates graded cast Iron Rollers with good quality Roller Bearings, Steel shafts, Nitrile rubber shock adsorbs and powder coated for good surface finish. These Trollies are available in 3 modes for suspending TRANSFORMER, WELDING GUN and KICKLESS CABLE.

Transformer / Bridge Rail Trolley Transformer or Gun Trolley

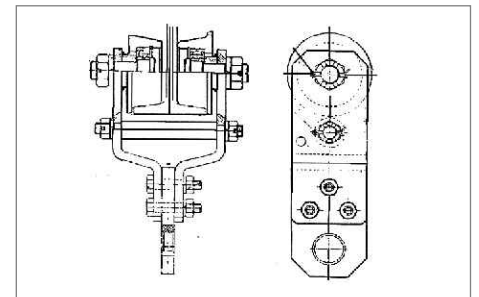


MODEL	TOT - 01
Capacity	1000 mm
Minimum radius for curve	1500 mm
available beam	150x75x5.5 mm
weight	15 kgs



MODEL	TOT - 02
Capacity	500 mm
Minimum radius for curve	1000 mm
available beam	75x150x5.5 mm
weight	6.5 kgs

Gun / Cable Trolley



MODEL	TOT - 03
Capacity	250 mm
Minimum radius for curve	1000 mm
available beam	150x75x5.5 mm
weight	6 kgs

PRECISION QUALITY TOOLS AND COMPONENTS AS PER CUSTOMER SPECIFICATIONS

CASTLETTED SPANNER



CASTLETTED SOCKETS



HEX REDUCER



SQUARE REDUCER



SPLINE SOCKETS



SINGLE END SPANNER



RATCHETING SPANNERS



RATCHET ADAPTER



NUT ROTATING SOCKET



CROWFOOT WRENCH



TORX SOCKETS



PULLER & BRIDGE



TORQUE WRENCHES

A Precision Tool cum Instrument:

Tritool Click Type Tool Torque Wrenches are of an innovative design concept, providing consistently accurate readings and rugged, (Trouble Free) Performance. Our Torque Wrenches have a proven performance record and we offer a **Free Replacement Guarantee** on our complete range of Torque Wrenches, against any premature failure..



MODEL NO.		TORQUE RANGE				SQUARE DRIVE	OVERALL LENGTH	UNIT WEIGHT
Non-Ratcheting	Ratcheting	Nm	Kgf.m	Lbf.in	Lb.ft	inches	mm	Kgs.
TVT-100A	TVTR-100A	2.5 -11	0.3 -1.1	20-100	2-8	3/8	320/360	0.65
TVT-300A	TVTR-300A	5-35	0.5-3.5	40-300	4-25	3/8	430/465	0.85
TVT-600A	TVTR-600A	12-68	1.2-7	100-600	10-50	1/2	485/530	1.5
TVT-1200A	TVTR-1200A	25-135	3-14	200-1200	20-100	1/2	545/595	2.0
TVT-2000A	TVTR-2000A	50-225	5-23	400-2000	40-160	1/2	610/660	3.0
TVT-3000A	TVTR-3000A	70-330	7-35	600-3000	50-250	1/2	835/890	4.0
TVT-5000A	TVTR-5000A	140-560	14-57	1200-5000	100-410	3/4	1120/1195	7.0
TVT-7200A	TVTR-7200A	200-800	22-80	-	150-600	3/4"	1210/1295	9.0
TVT8400A	TVTR-8400A	480-940	49-95	4200-8400	350-700	1	1400/1485	12.0
NT-14	NT-14/R	135-540	14-56	-	100-400	3/4	1120/1195	6.5
NT-14S	NT-14SR	135-780	14-78	-	100-500	3/4	1110/1195	7.0
NT-49	NT-49/R	475-1050	49-105	-	350-750	3/4	1390/1480	15.0
NT-55	NT-55/R	540-1380	55-140	-	400-1000	1	1305/1340	18.0
NT-105	NT-105/R	1000-1900	105-195	-	750-1400	1	1305/1340	18.0
NT-170	NT-170/R	1350-2700	135-275	-	1000-2000	1	1450/1530	23.5

NOTE : MODEL NO. NT-55, NT-105 & NT-170 WILL BE SUPPLIED WITH EXTRA PIPE

We also offer Torque Wrenches of following types:

★ Open Jaw Fixed Head Type

These types of Torque Wrenches available in standard Across Flat sizes from 10 mm to 46 mm with Torque preset to one value as per bolt torque capacity of customer requirement. These Torque Wrenches can be used directly on bolt, there is no need of sockets.



★ Bi-Hex Ring Type

These types of Torque Wrenches available in standard Across Flat sizes from 10 mm to 46 mm with Torque preset to one value as per bolt torque capacity of customer requirement. These Torque Wrenches can be used directly on bolt, there is no need of sockets.



★ Preset Torque Production Type

These types of Torque Wrenches are designed specifically for use on production lines where many fasteners to be tightened to the same Torque value. It improves working efficiency of workman and the production works will complete faster.



SLIM & LIGHT WEIGHT TORQUE WRENCHES

Adjustable Micrometer Type

MODEL NO.	Range	MODEL NO.	Range	Square Driver	L mm	kg
TQL-30N	6-30 Nm	TQL-250i	40-250 in.lb	1/4" or 3/8"	350	0.74
TQL-110N	19-110 Nm	TQL-80F	15-80 ft.lb	3/8"	385	0.96
TQL-210N	40-210 Nm	TQL-150F	30-150 ft. Lb.	1/2"	535	1.70
TQL-330N	70-350 Nm	TQL-250F	50-250 ft. Lb.	1/2"	645	2.54
TQL-500N	100-500 Nm	TQL-300F	50-300 ft. Lb.	3/4"	865	3.66
TQL-700N	140-700 Nm	TQL-600F	100-600 ft. Lb.	3/4"	1092	5.94
TQL-980N	140-980 Nm	TQL-700F	100-700 ft. Lb.	3/4" or 1"	1230	6.46
TQL-1500N	300-1500Nm	TQL-1000F	200-1000 ft. lb.	1"	1700	11.58



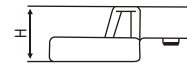
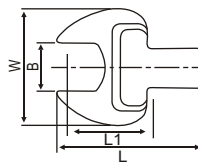
Preset Type

MODEL NO.	Range	MODEL NO.	Range	Square Driver	L mm	kg
TSP-12N	2-12 Nm	TSP-120i	20-120 in.lb	1/4"	193	0.22
TSP-50N	5-50 Nm	TSP-40F	4-40 ft.lb	3/8"	298	0.56
TSP-100N	15-100 Nm	TSP-80F	10-80 ft. Lb.	3/8"	365	0.76
TSP-200N	50-200 Nm	TSP-150F	40-150 ft. Lb.	1/2"	508	1.38



Interchangeable Head Type

MODEL NO.	Range	MODEL NO.	Range	Head Size (mm)	L mm	kg
TAP-30N	6-30 Nm	TAP-250i	50-250 in.lb	9x12	280	0.75
TAP-80N	15-80 Nm	TAP-60F	10-60 ft.lb	9x12	355	0.88
TAP-80NS	15-80 Nm	TAP-60FS	10-60 ft.lb.	14x18	360	0.90
TAP-110N	19-110 Nm	TAP-80F	15-80 ft.lb.	9x12	368	0.94
TAP-110NS	19-110 Nm	TAP-80FS	15-80 ft.lb.	14x18	373	0.96
TAP-210N	40-210 Nm	TAP-150F	30-150 ft.lb.	14x18	509	1.50



Interchangeable Open Ended Heads

ITEM NO.	B mm	mm	W mm	H mm	L mm	L1 mm	g
TSH0912-7m	7	9x12	24.0	5.5	37.0	17.5	38
TSH0912-8m	8	9x12	24.0	5.5	37.0	17.5	38
TSH0912-9m	9	9x12	24.0	6.0	37.5	17.5	39
TSH0912-10m	10	9x12	30.0	6.0	38.5	17.5	42
TSH0912-11m	11	9x12	30.0	6.0	38.5	17.5	43
TSH0912-12m	12	9x12	30.0	7.0	39.5	17.5	48
TSH0912-13m	13	9x12	30.0	7.0	42.0	20.0	52
TSH0912-14m	14	9x12	30.0	7.0	42.0	20.0	59
TSH0912-15m	15	9x12	35.0	8.0	43.0	20.0	59
TSH0912-16m	16	9x12	38.0	8.0	44.5	20.0	67
TSH0912-17m	17	9x12	38.0	8.5	44.5	20.0	67
TSH0912-18m	18	9x12	42.0	8.5	44.5	22.0	75
TSH0912-19m	19	9x12	42.0	8.5	46.0	22.0	75

ITEM NO.	B mm	mm	W mm	H mm	L mm	L1 mm	g
TSH1418-13m	13	14x18	35.0	7.0	62.5	32.0	148
TSH1418-14m	14	14x18	35.0	8.0	63.0	32.0	154
TSH1418-15m	15	14x18	35.0	8.5	64.0	32.0	154
TSH1418-16m	16	14x18	38.0	9.0	64.0	32.0	173
TSH1418-17m	17	14x18	38.0	9.0	64.0	32.0	173
TSH1418-18m	18	14x18	42.0	10.0	65.0	32.0	192
TSH1418-19m	19	14x18	42.0	10.5	65.0	32.0	193
TSH1418-21m	21	14x18	50.0	11.0	66.0	32.0	217
TSH1418-22m	22	14x18	52.5	11.0	66.0	32.0	222
TSH1418-24m	24	14x18	53.0	11.0	67.0	32.0	225
TSH1418-26m	26	14x18	60.0	12.5	70.0	34.0	273
TSH1418-27m	27	14x18	60.0	12.5	70.0	34.0	281
TSH1418-29m	29	14x18	66.0	14.0	74.0	36.0	312
TSH1418-30m	30	14x18	66.0	14.0	74.0	36.0	312
TSH1418-32m	32	14x18	66.0	14.5	76.5	37.5	322



TORQUE TOOLS

TRISTAR TORQUE MULTIPLIER

A Powerful Robust, Versatile, Portable and Accurate Tool:

Tristar Torque Multipliers provides extra mechanical advantages needed to tighten or loosen stubborn nuts and bolts located in cramped or (in accessible) positions. A manual Tool, particularly recommended where no compressed air/electric power available for use of Power Tools.

Tristar Torque Multipliers increase the Torque capacity of Torque Wrenches, Hand Ratchets/Wheel Braces at the input end by a factor depending on the model selected. This enables the operator to achieve high levels of Torque safely and easily.

With continuous R & D efforts, we have two variety of Torque multipliers in our product range, the conventional 'AM' series and a more compact and light weight 'TVR' series.

A testimony on the use of Tristar Torque multiplier from our client at Estonia, M/s. Metsateknika As.

"We tested this tool in January 2003, Hydraulic Hammer was Krupp HM 1500 Marathon V. First Tightening of Bolts (55 mm) was 500 Nm. After that,, we had to Tighten Bolts two times 120" Degree (240 Degrees). It was really easy to do this Job with Tristar Torque Multiplier 9/25. The Tightening arm was only 45 cm long. During final tightening, I mentioned how our mechanic smiled. It was easy to do the job only with one hand he has really good tool. Next day I told about this experience to our good friends in Finland - Jasto Oy. They are selling Atlas Copco and Krupp Hydraulic Hammers in Finland. Now the are also thinking about buying this Torque Multiplier." Mr. Harri Ummik.



HAND TORQUE MODEL NO.	MAXIMUM OUTPUT TORQUE			EST. BOLT CAPACITY (S. QUALITY)		MULTIPLICATION FACTOR	FEMALE INPUT SQUARE	MALE OUTPUT SQUARE	MAJOR DIA	DEPTH	RECOMMENDED TORQUE WRENCH	APPROX WEIGHT WITH REACTION PLATE
	Lbft.	Nm.	Kgf.m.	In	mm							
AM-1	1250	1700	170	1.1/8	27	5	1/2	3/4	115	87	TVTR-3000A	4.5
AM-2	1250	1700	170	1.1/8	27	5	3/4	1	115	90	TVTR-3000A	5.0
AM-2/2.5	1250	1700	170	1.1/8	27	25	1/2	1	115	120	TVT-600A	7.0
AM-5	2000	2700	275	1.3/8	36	5	3/4	1	136	91	TVTR-5000A	11.0
AM-5/25	2000	2700	275	1.3/8	36	25	1/2	1	136	120	TVT-1200A	11.0
AM-6	2500	3400	345	1.1/2	38	5	3/4	1.1/2	136	91	TVTR-8400A	8.5
AM-6/25	2500	3400	345	1.1/2	38	25	1/2	1.1/2	136	120	TVT-1200A	11.5
AM-7	4500	6000	622	1.7/8	48	5	3/4	1.1/2	168	115	NT-55/R	15.5
AM-7/25	4500	6000	622	1.7/8	48	25	1/2	1.1/2	168	190	TVT-3000A	19.5
AM-9/25	7000	9500	965	2.1/4	56	25	3/4	2.1/2	220	225	TVT-5000A	27.0
AM-11/25	11060	15000	1500	3.3/4	68	25	3/4	2.1/2	220	280	NT-14/S	45.0



Model No.	Gear Ratio	Torque Capacity Max.		Height mm (C)	Diameter mm (D)	Weight Kgs.	Input Drive (A)	Output Drive (B)	Suitable for Bolt size	
		Ft. Lbs	Nm						Thd. Size	A/F
TVR-15	4.5 : 1	1000	1355	175	80	3.0	1/2"	1"	M16 - M27	24 -41
TVR-25	12 : 1	1350	1630	310	80	5.2	3/4"	1"	M20 - M30	30 -46
TVR-35	15 : 1	2125	2880	285	80	5.1	3/4"	1"	M20 - M36	30 -55
TVR-40	15 : 1	2360	3200	245	95	6.1	3/4"	1.1/2"	M20 - M39	30 -60
TVR-65	21 : 1	3660	4960	240	114	8.4	3/4"	1.1/2"	M27 - M42	41 -65
TVR-90	40 : 1	5075	6880	300	172	21.5	3/4"	1.1/2"	M33 - M48	50 - 75



Please observe safety advices



HEAVY DUTY SLUGGING / STRIKING WRENCHES

Striking Wrenches are designed to be Struck by a hammer on the anvil area, in order to loosen frozen fasteners or to set and tighten fasteners. Anvils are proportional to wrench opening size. Specially selected alloy steel & the best suited heat treatment provides, maximum durability for long life and to withstand the severe working conditions.

STRAIGHT RING TYPE

Specially Designed for most rugged industrial application. Straight Handle design resists springing while allowing the fastener to turn easier.



Wrench Size (A/F)						
METRIC SIZE		SAE SIZE		Head Dia.	Head Thk.	Length (Mm)
Part No.	Size	Part No.	Size			
TSM -19	19	TS-25	3/4"	54	18	175
TSM -22	22	TS-28	7/8"	54	18	175
TSM -24	24	TS-29	15/16"	54	18	175
TSM -27	27	TS-31	1.1/16"	54	18	175
TSM -29	29	TS-32	1.1/8"	54	18	175
TSM -30	30	TS-33	1.3/16"	68	22	210
TSM -32	32	TS-34	1.1/4"	68	22	210
TSM -33	33	TS-35	1.5/16"	68	22	210
TSM -35	35	TS-36	1.3/8"	68	22	210
TSM -36	36	TS-37	1.7/16"	68	22	210
TSM -38	38	TS-38	1.1/2"	68	22	210
TSM -41	41	TS-39	1.5/8"	80	28	245
TSM -43	43	TS-40	1.11/16"	80	28	245
TSM -44	44	TS-41	1.3/4"	80	28	245
TSM -46	46	TS-42	1.13/16"	80	28	245
TSM -47	47	TS-43	1.7/8"	80	28	245
TSM -50	50	TS-45	2"	80	28	245
TSM -52	52	TS-46	2.1/16"	102	35	285
TSM -55	55	TS-47	2.3/16	102	35	285
TSM -57	57	TS-48	2.1/4"	102	35	285
TSM -60	60	TS-50	2.3/8"	102	35	285
TSM -62	62	TS-51	2.7/16"	102	35	285
TSM -63	63	TS-52	2.1/2"	102	35	285
TSM -65	65	TS-53	2.9/16"	102	35	285
TSM -67	67	TS-54	2.5/8"	122	40	322
TSM -70	70	TS-56	2.3/4"	122	40	322
TSM -71	71	TS-57	2.13/16"	122	40	322
TSM -75	75	TS-59	2.15/16"	122	40	322
TSM -76	76	TS-60	3"	122	40	322
TSM -80	80	TS-61	3.1/8"	122	40	322
TSM -85	85	TS-63	3.1/8"	130	40	340
TSM -90	90	TS-64	3.5/8"	136	45	350
TSM -95	95	TS-65	3.3/4"	140	45	375
-	-	TS-66	3.7/8"	158	50	415
TSM -100	100	TS-67	4"	158	50	415
TSM -105	105	TS-68	4.1/8"	164	50	450
TSM -110	110	TS-69	4.1/4"	170	55	450
TSM -115	115	TS-70	4.1/2"	175	55	465
TSM -120	120	TS-72	4.3/4"	190	60	490

Wrench Size (A/F)						
METRIC SIZE		SAE SIZE		Head Dia.	Head Thk.	Length (Mm)
Part No.	Size	Part No.	Size			
TSM -125	125	TS-73	4.7/8"	200	60	510
TSM -130	130	TS-74	5"	210	65	515
TSM -135	135	TS-75	5.3/8"	222	65	540
TSM -140	140	TS-76	5.1/2"	230	70	550
TSM -145	145	TS-78	5.3/4"	230	70	565
TSM -150	150	TS-80	6"	230	70	565
TSM -155	155	TS-81	6.1/8"	230	70	565
TSM -160	160	TS-82	6.1/4"	270	70	635
TSM -165	165	TS-84	6.1/2"	270	70	635
TSM -170	170	TS-86	6.3/4"	270	70	635
TSM -175	175	TS-87	6.7/8"	270	70	635
TSM -180	180	TS-89	7.1/8"	270	70	635
TSM -185	185	TS-90	7.1/4"	295	75	680
TSM -190	190	TS-92	7.1/2"	295	75	680
TSM -195	195	TS-93	7.5/8"	295	75	680
TSM -200	200	TS-95	7.7/8"	295	75	680
TSM -205	205	TS-97	8.1/8"	295	75	680
TSM -210	210	TS-98	8.1/4"	325	80	725
TSM -215	215	TS-100	8.1/2"	325	80	725
TSM -220	220	TS-101	8.5/8"	325	80	725
TSM -225	225	TS-103	8.7/8"	325	80	725
TSM -230	230	TS-105	9.1/8"	325	80	725

SQUARE DRIVE TYPE



Model No.	Sq. Drive	D mm	L mm
TSW-75	3/4"	62	210
TSW-100	1"	76	290
TSW-150	1.1/2"	116	380



Please observe safety advices



HEAVY DUTY SLUGGING / STRIKING WRENCHES

OFFSET HANDLE RING TYPE SLUGGING WRENCH

Offset Handle designed close to head to provide clearance in confined areas. A complete range of Offset striking wrenches up to 130 mm provides the most extensive line on the market.



Wrench Size (A/F)						
METRIC SIZE		SAE SIZE		Head Dia.	Head Thk.	Length (mm)
Part No.	Size	Part No.	Size			
TOM- 19	19	TOS-25	3/4"	56	22	250
TOM- 22	22	TOS-28	7/8"	56	22	250
TOM- 24	24	TOS-29	15/16"	56	24	265
TOM- 27	27	TOS-31	1.1/16"	56	24	265
TOM- 30	30	TOS-33	1.3/16"	56	24	265
TOM- 32	32	TOS-34	1.1/4"	58	25	270
TOM- 33	33	TOS-35	1.5/16"	59	25	270
TOM- 35	35	TOS-36	1.3/8"	62	32	310
TOM- 36	36	TOS-37	1.7/16"	64	28	290
TOM- 38	38	TOS-38	1.1/2"	66	28	290
TOM- 41	41	TOS-39	1.5/8"	68	28	290
TOM- 43	43	TOS-40	1.1/16"	68	28	290
TOM- 44	44	TOS-41	1.3/4"	68	28	290
TOM- 46	46	TOS-42	1.13/16"	76	32	340
TOM- 47	47	TOS-43	1.7/8"	76	35	340
TOM- 50	50	TOS-45	2"	82	36	340
TOM- 52	52	TOS-46	2.1/16"	85	38	360
TOM- 55	55	TOS-47	2.3/16"	90	38	360
TOM- 57	57	TOS-48	2.1/4"	90	38	360
TOM- 60	60	TOS-50	2.3/8"	96	41	380
TOM- 62	62	TOS-51	2.7/16"	100	44	380
TOM- 63	63	TOS-52	2.1/2"	102	44	380
TOM- 65	65	TOS-53	2.9/16"	105	45	380
TOM- 67	67	TOS-54	2.5/8"	108	44	380
TOM- 70	70	TOS-56	2.3/4"	112	48	400
TOM- 71	71	TOS-57	2.13/16"	112	50	400
TOM- 75	75	TOS-59	2.15/16"	120	55	400
TOM- 76	76	TOS-60	3"	122	50	400
TOM- 80	80	TOS-61	3.1/8"	126	60	435
TOM- 85	85	TOS-63	3.3/8"	132	60	435
TOM- 90	90	TOS-64	3.5/8"	142	50	440
TOM- 95	95	TOS-65	3.3/4"	150	60	465
TOM- 98	98	TOS-66	3.7/8"	158	60	465
TOM- 100	100	TOS-67	4"	164	60	465
TOM- 105	105	TOS-68	4.1/8"	172	65	540
TOM- 110	110	TOS-69	4.1/4"	180	65	540
TOM- 115	115	TOS-70	4.1/2"	186	65	540
TOM- 120	120	TOS-72	4.3/4"	194	70	540
TOM- 125	125	TOS-73	4.7/8"	200	70	540
TOM- 130	130	TOS-74	5"	205	70	540

OPEN JAW TYPE SLUGGING WRENCH

Extra Heavy Duty Precision forged and fully Heat Treated for a life time of Dependable performance 15° angled Head Permits complete nut rotation in a 30° arc Rust Resistant black finish provides super finish and resistance to corrosion in industrial use.



Wrench Size (A/F)						
METRIC SIZE		SAE SIZE		Head Dia.	Head Thk.	Length (mm)
Part No.	Size	Part No.	Size			
TDM- 19	19	TDS-25	3/4"	54	18	190
TDM- 22	22	TDS-28	7/8"	54	18	190
TDM- 24	24	TDS-29	15/16"	54	18	190
TDM- 27	27	TDS-31	1.1/16"	54	18	190
TDM- 29	29	TDS-32	1.1/8"	54	18	190
TDM- 30	30	TDS-33	1.3/16"	54	18	190
TDM- 32	32	TDS-34	1.1/4"	80	18	210
TDM- 33	33	TDS-35	1.5/16"	80	18	210
TDM- 35	35	TDS-36	1.3/8"	80	18	210
TDM- 36	36	TDS-37	1.7/16"	80	18	210
TDM- 38	38	TDS-38	1.1/2"	80	18	210
TDM- 41	41	TDS-39	1.5/8"	110	22	275
TDM- 43	43	TDS-40	1.11/16"	110	22	275
TDM- 44	44	TDS-41	1.3/4"	110	22	275
TDM- 46	46	TDS-42	1.13/16"	110	22	275
TDM- 47	47	TDS-43	1.7/8"	110	22	275
TDM- 50	50	TDS-45	2"	110	22	275
TDM- 52	52	TDS-46	2.1/16"	135	25	325
TDM- 55	55	TDS-47	2.3/16"	135	25	325
TDM- 57	57	TDS-48	2.1/4"	135	25	325
TDM- 60	60	TDS-50	2.3/8"	135	25	325
TDM- 62	62	TDS-51	2.7/16"	150	32	362
TDM- 63	63	TDS-52	2.1/2"	150	32	362
TDM- 65	65	TDS-53	2.9/16"	150	32	362
TDM- 67	67	TDS-54	2.5/8"	150	32	362
TDM- 70	70	TDS-56	2.3/4"	150	32	362
TDM- 71	71	TDS-57	2.13/16"	172	36	405
TDM- 75	75	TDS-59	2.15/16"	172	36	405
TDM- 76	76	TDS-60	3"	172	36	405
TDM- 80	80	TDS-61	3.1/8"	172	36	405
TDM- 85	85	TDS-63	3.3/8"	180	38	430
TDM- 90	90	TDS-64	3.5/8"	195	40	455
TDM- 95	95	TDS-65	3.3/4"	195	40	455
TDM- 98	98	TDS-66	3.7/8"	206	40	455
TDM- 100	100	TDS-67	4"	210	47	500
TDM- 105	105	TDS-68	4.1/8"	220	47	500
TDM- 110	110	TDS-69	4.1/4"	226	47	500
TDM- 115	115	TDS-70	4.1/2"	238	56	550
TDM- 120	120	TDS-72	4.3/4"	247	56	550
TDM- 125	125	TDS-73	4.7/8"	255	56	550
TDM- 130	130	TDS-74	5"	275	60	575



Please observe safety advices

STRAIGHT & OFFSET HANDLE RING TYPE

Wrench Size (A/F)						
METRIC SIZE		SAE SIZE		Head Dia.	Head Thk.	Length (mm)
Part No.	Size	Part No.	Size			
SSM-27	27	SS-31	1.1/16"	42	18	400
SSM-28	28	SS-32	1.1/8"	42	21	415
SSM-30	30	SS-33	1.3/16"	45	22	415
SSM-32	32	SS-34	1.1/4"	49	22	435
SSM-34	34	SS-35	1.5/16"	49	24	485
SSM-36	36	SS-37	1.7/16"	58	24	485
SSM-38	38	SS-38	1.1/2"	58	26	515
SSM-41	41	SS-39	1.5/8"	62	29	540
SSM-43	43	SS-40	1.11/16"	62	29	565
SSM-46	46	SS-42	1.13/16"	69	32	590
SSM-48	48	SS-43	1.7/8"	69	32	590
SSM-50	50	SS-45	2"	76	34	625
SSM-52	52	SS-46	2.1/16"	76	37	660
SSM-55	55	SS-47	2.3/16"	82	37	660
SSM-57	57	SS-48	2.1/4"	82	38	680
SSM-60	60	SS-50	2.3/8"	90	38	680
SSM-62	62	SS-51	2.7/16"	90	38	740
SSM-65	65	SS-54	2.9/16"	98	38	740
SSM-70	70	SS-56	2.3/4"	106	40	800
SSM-75	75	SS-59	2.15/16"	114	40	800



NOTE: FOR PART NO OF OFFSET HANDLE ADD 'O' AFTER FIRST 'S'

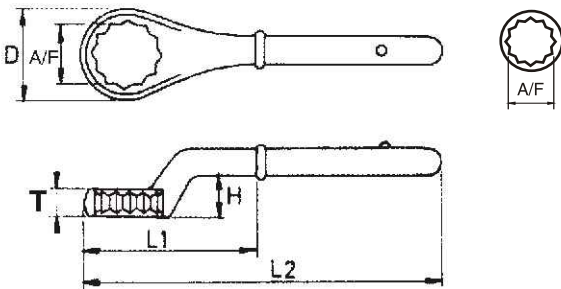
STRAIGHT & OFFSET HANDLE OPEN JAW TYPE

Wrench Size (A/F)						
METRIC SIZE		SAE SIZE		Head Dia.	Head Thk.	Length (mm)
Part No.	Size	Part No.	Size			
SDOM-16	16	SDO-23	5/8"	35	12	305
SDOM-17	17	SDO-24	11/16"	38	12	305
SDOM-19	19	SDO-25	3/4"	42	12	305
SDOM-22	22	SDO-27	13/16"	56	16	445
SDOM-23	23	SDO-28	7/8"	56	16	445
SDOM-24	24	SDO-29	15/16"	56	16	445
SDOM-26	26	SDO-30	1"	56	16	445
SDOM-27	27	SDO-31	1.1/16"	56	16	445
SDOM-28	28	SDO-32	1.1/8"	56	16	445
SDOM-30	30	SDO-33	1.3/16"	56	16	445
SDOM-32	32	SDO-34	1.1/4"	84	24	648
SDOM-36	36	SDO-37	1.7/16"	84	24	648
SDOM-38	38	SDO-38	1.1/2"	84	24	648
SDOM-41	41	SDO-39	1.5/8"	112	24	775
SDOM-43	43	SDO-40	1.11/16"	112	24	775
SDOM-46	46	SDO-42	1.13/16"	112	24	775
SDOM-48	48	SDO-43	1.7/8"	112	24	775
SDOM-50	50	SDO-44	1.15/16"	112	27	775
SDOM-55	55	SDO-45	2"	160	30	850
SDOM-60	60	SDO-48	2.3/8"	160	30	850



NOTE: FOR PART NO OF STRAIGHT HANDLE REMOVE 'O'

OFFSET BOX WRENCH TUBULAR



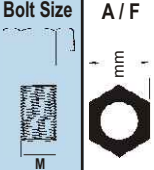
Wrench Size (A/F)								
METRIC SIZE		SAE SIZE		Φ	TD	H	L1	L2
Part	A/F	Part	A/F					
TOMHM-24	24	TOMH-29	15/16"	38	17	30	95	180
TOMHM-27	27	TOMH-31	1.1/16"	41	17	32	100	190
TOMHM-30	30	TOMH-33	1.3/16"	48	18	34	105	200
TOMHM-32	32	TOMH-34	1.1/4"	49	18	34	119	235
TOMHM-36	36	TOMH-37	1.7/16"	54	20	36	125	245
TOMHM-41	41	TOMH-39	1.5/8"	62	22	40	138	265
TOMHM-46	46	TOMH-42	1.13/16"	69	23	40	151	280
TOMHM-50	50	TOMH-45	2"	76	26	43	161	290
TOMHM-55	55	TOMH-47	2.3/16"	81	28	46	164	300
TOMHM-60	60	TOMH-50	2.3/8"	90	31	49	189	345
TOMHM-65	65	TOMH-53	2.9/16"	98	33	53	197	355
TOMHM-70	70	TOMH-56	2.3/4"	105	36	55	205	365
TOMHM-75	75	TOMH-59	2.15/16"	110	38	58	208	375
TOMHM-80	80	TOMH-61	3.1/8"	125	41	59	215	385
TOMHM-85	85	TOMH-63	3.3/8"	125	41	59	215	385
TOMHM-90	90	TOMH-64	3.1/2"	140	45	63	240	410
TOMHM-95	95	TOMH-65	3.3/4"	140	45	63	240	410
TOMHM-100	100	TOMH-66	3.7/8"	143	45	63	242	412
TOMHM-105	105	TOMH-68	4.1/8"	146	45	63	245	415

INSERT SOCKETS

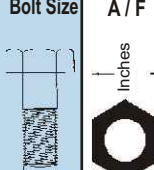


METRIC SIZE		SAE SIZE		Bolt Clearance Hole (mm)	O.D. (mm)	OAL (mm)
Part No.	Male Female Hex A/F	Part No.	Male Female Hex A/F			
TIS-29	15/16	TISM-24	24	24	50	75
TIS-31	1.1/16"	TISM-27	27	24	52	75
TIS-32	1.1/8"	TISM-30	30	24	54	75
TIS-34	1.1/4"	TISM-32	32	24	54	75
TIS-35	1.5/16"	TISM-33	33	24	56	75
TIS-36	1.3/8"	TISM-35	35	24	58	75
TIS-37	1.7/16"	TISM-36	36	26	60	75
TIS-38	1.1/2"	TISM-38	38	28	62	75
TIS-39	1.5/8"	TISM-41	41	29	66	85
TIS-40	1.11/16"	TISM-43	43	31	68	85
-	-	TISM-44	44	31	68	85
TIS-42	1.13/16"	TISM-46	46	32	72	88
TIS-43	1.7/8"	TISM-47	47	34	74	88
TIS-45	2"	TISM-50	50	37	78	94
TIS-46	2.1/16"	TISM-52	52	37	80	94
TIS-47	2.3/16"	TISM-55	55	38	84	96
TIS-48	2.1/4"	-	-	40	86	96
TIS-50	2.3/8"	TISM-60	60	41	90	108
TIS-51	2.7/16"	-	-	43	92	108
TIS-53	2.9/16"	TISM-65	65	44	96	112
TIS-54	2.5/8"	-	-	47	98	112
TIS-56	2.3/4"	TISM-70	70	48	102	120
TIS-57	2.13/16"	-	-	50	105	120
TIS-59	2.15/16"	TISM-75	75	52	109	127
TIS-60	3"	-	-	53	111	127
TIS-61	3.1/8"	TISM-80	80	55	115	135
TIS-63	3.3/8"	TISM-85	85	60	122	140
TIS-64	3.1/2"	TISM-90	90	65	126	145
TIS-65	3.3/4"	TISM-95	95	70	134	150
TIS-66	3.7/8"	TISM-100	100	70	138	155
TIS-68	4.1/8"	TISM-105	105	80	146	155
TIS-69	4.1/4"	TISM-110	110	84	150	175
TIS-70	4.1/2"	TISM-115	115	88	160	180
TIS-71	4.5/8"	TISM-120	120	90	162	190
TIS-73	4.7/8"	TISM-125	125	90	170	190
TIS-74	5"	TISM-130	130	92	173	205
TIS-76	5.1/4"	TISM-135	135	97	182	205
TIS-77	5.3/8"	-	-	100	186	210
TIS-79	5.5/8"	TISM-140	140	104	189	210
TIS-80	5.3/4"	TISM-145	145	109	194	215

Metric Sizes

Bolt Size 	A / F mm	Tightening Force = P(N) Torque = M _A (Nm)					
		8.8		10.9		12.9	
		P	M _A	P	M _A	P	M _A
		N	Nm	N	Nm	N	Nm
M 2	4	863	0.373	1216	0.520	1461	0.628
M 2.3	4.5	1245	0.598	1755	0.843	2099	1.010
M 2.6	5	1598	0.863	2246	1.206	2697	1.451
M 3	5.5	2206	1.344	3109	1.883	3727	2.256
M 3.5	6	2962	2.060	4168	2.893	5001	3.481
M 4	7	3825	3.040	5374	4.315	6453	5.148
M 5	8-9	6257	6.031	8806	8.483	10591	10.200
M 6	10	8836	10.300	12405	14.710	14906	17.625
M 7	11-12	12945	17.162	18191	24.517	21771	28.439
M 8	13-14	16230	25.497	22751	35.304	27360	42.168
M 10	15-17	25791	50.014	36284	70.608	43541	85.317
M 12	19-21	37657	87.279	52956	122.60	63547	147.10
M 14	22-23	51681	138.30	72667	194.20	87279	235.40
M 16	24-26	71196	210.80	100027	299.10	120131	357.90
M 18	27	86494	289.30	121602	411.90	146118	490.30
M 20	30	111305	411.90	156415	578.60	187796	696.30
M 22	32	139254	559.00	195642	784.50	234378	941.40
M 24	36	160338	711.00	225552	1000	270662	1196
M 27	41	210842	1049	296159	1481	355980	1775
M 30	46	255952	1422	359902	2010	432471	2403
M 33	50	319695	1932	449142	2716	539363	3266
M 36	55	374612	2481	527595	3491	632526	4197
M 39	60	451104	3226	633506	4531	760992	5443
M 42	65	515827	3991	725688	5609	870826	6727
M 45	70	604087	4992	850232	7012	1019886	8414
M 48	75	679597	6021	956144	8473	1147372	10150
M 52	80	815909	7747	1147372	10885	1377827	13092
M 56	85	940453	9650	1323891	13582	1588669	16279
M 60	90	1098339	11964	1544540	16867	1853447	20202
M 64	95	1245438	14416	1750478	20300	2098612	24320
M 68	100	1425787	17615	2005013	24771	2406016	29725
M 72	105	1620036	21081	2278175	29645	2733810	35575
M 76	110	1826672	24973	2568758	35118	3082510	42141
M 80	115	2045697	29314	2876762	41222	3452115	49467
M 90	130	2647453	42525	3722982	59801	4467578	71761
M 100	145	3326624	59200	4678066	83250	5613679	99900

Imperial Sizes

Bolt Size 	A / F Inches	Tightening Force = P(N) Torque = M _A (Nm)					
		P		S		T	
		P	M _A	P	M _A	P	M _A
		N	Nm	N	Nm	N	Nm
1/4"	7/16"	4379	5.43	8320	10.3	8980	11.1
5/16"	1/2"	7344	11.2	13954	21.3	15061	23.0
3/8"	9/16"	10951	19.9	20807	37.9	22458	40.9
7/16"	5/8"	15065	31.9	28623	60.7	30894	65.5
1/2"	3/4"	20244	48.8	38463	92.7	41516	100
9/16"	7/8"	26075	70.4	49542	134	53474	144
5/8"	15/16"	32452	97.4	61658	185	66552	200
3/4"	1.1/8"	49781	178	94584	338	102091	364
7/8"	1.5/16"	67157	279	127599	530	137725	572
1"	1.1/2"	88221	418	167620	795	180923	858
1.1/8"	1.11/16"	111007	593	210913	1126	227652	1216
1.1/4"	1.7/8"	142135	837	270091	1591	291527	1717
1.3/8"	2.1/16"	168641	1096	320417	2083	345847	2248
1.1/2"	2.1/4"	206578	1456	392498	2767	423648	2987
UNF							
1/4"	7/16"	5232	6.28	9941	11.9	10730	12.9
5/16"	1/2"	8410	12.5	15979	23.8	17247	25.7
3/8"	9/16"	12911	22.7	24531	43.2	26478	46.6
7/16"	5/8"	17416	35.9	33091	68.2	35717	73.6
1/2"	3/4"	23685	55.4	45002	105	48574	114
9/16"	7/8"	30075	79.0	57143	150	61678	162
5/8"	15/16"	38156	111	72496	210	78250	227
3/4"	1.1/8"	56078	195	106549	370	115005	399
7/8"	1.5/16"	76297	309	144965	587	156470	634
1"	1.1/2"	99200	459	188480	873	203439	942
1.1/8"	1.11/16"	128738	667	244602	1267	264015	1368
1.1/4"	1.7/8"	161358	925	306580	1757	330911	1896
1.3/8"	2.1/16"	199331	1252	378728	2378	408786	2567
1.1/2"	2.1/4"	240377	1642	456717	3119	492965	3367

Newton - Meter Nm to Foot-Pounds lbf. ft. (1Nm = 0.738 lbf. ft.)
 Kilogram - Force Meter to Newton - Meter (1 Kgm = 9.80 Nm)

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