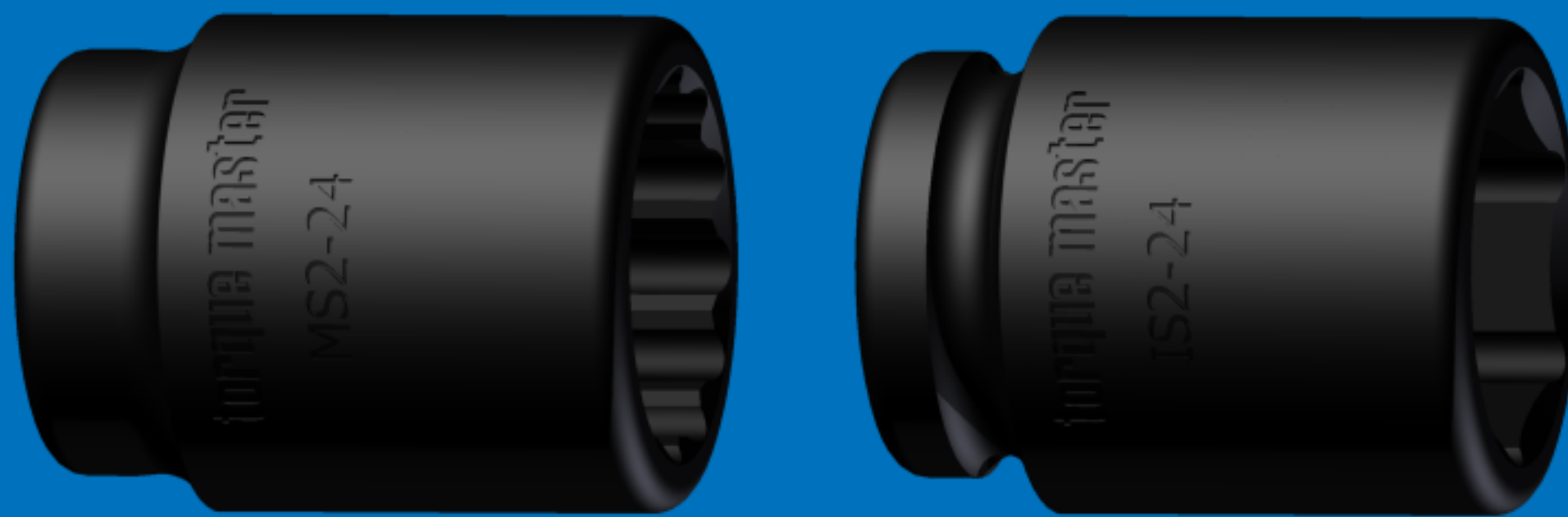




torque master®



TORQUE MASTER

TORQUE MASTER

**HEAVY
DUTY
INDUSTRIAL
TOOLS**

PURE INNOVATION WITH REAL PRODUCTS

A RENDEZVOUS WITH US...

We, at Torque Master India, have embarked on a journey to manufacture premium quality industrial hand tools. We comprehend the value of innovation and work towards overhauling and enhancing our core competencies. The perfect combination of people, process and technology ensures that the products we offer are of world-class quality. Our products are cost effective and are always delivered on time. Our continual investment in technology and experienced manpower enables us to provide our clients with best quality products and services.

OUR FACILITIES...

Our extensive knowledge and understanding of industrial hand tools is second to none. This, coupled with our expertise in the key areas of procurement, supply-chain, logistics combine to create a truly world-class team. Our team of Research and Development is striving to meet the expectations of our clients by engineering innovative products. Our cutting-edge technology has geared us to face the global challenges and steer towards perfection.

TRANSCENDING EXCELLENCE...

We stand on the edifice of quality and innovation. We aim to reach the acme of perfection. We strive to improvise quality of our products with consistent industry in-depth analysis, as it is directly proportionate to the satisfaction of our valuable customers. Our commitment for excellence and passion for quality products have shown us the way to growth and prosperity. Our team of experts maintains a strict vigil on the manufacturing procedure to ensure that all the products are flawless.

QUALITY AND INFRASTRUCTURE...

There is a gamut of products ranging from Torque Wrenches, Adaptors to Industrial Socket which are created by a team of experts. It is our mission to provide the best of quality. To accomplish our mission, we have state of the art machinery and latest technology. Stringent measures are taken to ensure superior quality products.

OUR STRENGTH...

We have been able to clinch such a huge number of clients because of the quality products and services being offered to them. Our clients are spread all over the world. The excellence in the quality and wide range of products differentiates us from others.

OUR CONNOISSEURS..

Our quality products have made inroads in the international market. We have a client base consisting of high profile, quality conscious clients. Our clients are spread all over the globe including the countries like Middle east countries.

TORQUE MASTER INDUSTRIAL HAND TOOLS

Torque Master industrial tools are designed to meet the requirements of Heavy Industries, Thermal Power Plants, Oil Industries, Petroleum, Automobiles, Railways, General Engineering Industries.

Torque Master offers a wide selection of tools and equipment to fill the majority of your tool requirements. In addition to our standard product line, Torque Master can also design and manufacture special tools to help solve your special tool problems.

FEATURES

Special alloy steel, precision in manufacturing, special heat treatment, advance design & individual inspection of each product at various stages of production makes Torque Master tools simply the best available.

PRODUCT PROFILE

The range of Torque Master industrial tools are basically made for heavy duty applications in industry. Minimum down time, dependability, durability, a professional appearance, greater factor of safety in design are the reasons for Torque Master's exceptional quality. The wide range of industrial tools are broadly categorised

as below :

1. Torque Wrenches & Spares.
2. Slugging wrenches.
3. Manual Application :
 - (a) Manual Sockets (in standard and deep range).
 - (b) Driving Tool & Accessories.
 - (c) Square Drive Adaptors , Hex Adaptors, etc:
4. Impact Application :
 - (a) Impact Sockets (in standard and deep range).
 - (b) Driving Tools & Accessories.
 - (c) Hex Adaptors /Drivers, Stud tighteners; etc.
5. Industrial Ratcheting Spanners.
6. Heavy Duty Industrial Tool Kits / Socket Sets.



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TORQUE WRENCHES

The Torque Master torque wrenches are used to precisely set the torque of a fastener such as a nut or bolt. A torque wrench is used where the tightness of screws and bolts is crucial. It allows the operator to measure the torque (rotational force) applied to the bolt so it can be matched to the specifications. This permits proper tension and loading of all parts.

Torque Master Torque Wrenches are of four types.

1. **Standard Model:** These Torque Wrenches are available to cover a torque range from 2Lb Ft. to 2000 Lb Ft./ 0.3 Kg.Mts. to 275 Kg.Mts. and 3 NM to 2700NM in 14 different Models with Square Drive 3/8" to 1".
2. **Production Torque Wrenches:** These Torque Wrenches are pre-set with one particular Torque for repetitive Production applications. The advantages of this type Torque Wrench is to prevent the tampering of torque setting during assembly and to Save considerable time.
3. **Ratchet Head Model:** This Torque Wrench has a built in ratchet mechanism for working in confined area. These Torque Wrenches are also available to cover a torque range from 2Lb Ft. to 2000 Lb Ft./ 0.3 Kg.Mts. to 275 Kg.Mts. and 3 NM to 2700NM in 14 different Models with Square Drive 3/8" to 1".
4. **Open Jaw Fixed Type Torque Wrenches:** This is a type of torque wrench fitted with an Open Jaw adaptor and set a pre-determined torque. Places where vertical clearance is restricted to permit the use of an Industrial Sockets and a Torque Wrench, this torque wrench is suitable for torquing nuts. These are available to cover across flat sizes from 10mm to 46mm with torque preset to one value as per requirement.



All torquemaster Torque Wrenches are calibrated on a Mechanical/Electronic Torque tester to an accuracy of $\pm 3\%$ which supersedes the specifications laid down in IS 7145: 1973 as well as ISO 6789:2003

STD. TORQUE WRENCHES



Model No.	TORQUE RANGE								Squgre Drive Inch	OAL at Min Capacity (mm)	Head Width (mm)	Head Depth (mm)	Weight Appx. (Kgs)
	Lbf. Ft.		N.M		Kgf. Mts.		Lbf. Ins						
	Range	LC	Range	LC	Range	LC	Range	LC					
TM 10	2-10	.5	3-14	.5	.3-1.4	.1	20-120	5	3/8	310	22	32	0.600
TM 25	5-25	1	5-35	2	.5-3.5	.2	40-300	20	3/8	345	22	32	0.700
TM 50	10-50	2	14-68	2	1-7	.2	100-600	20	1/2	480	28	39	1.100
TM 100	20-100	2	25-135	5	3-14	.5	250-1200	25	1/2	580	28	42	1.250
TM 160	40-160	5	50-220	5	5-23	1	450-2000	50	1/2	620	32	48	2.450
TM 250	50-250	5	70-340	10	7-35	1	600-3000	50	1/2	770	32	48	2.750
TM 400	100-400	10	135-540	15	14-56	1	--	--	3/4	1030	48	62	6.600
TM 500	100-500	10	135-675	15	14-70	2	--	--	3/4	1035	48	62	6.950
TM 600	150-600	10	200-815	15	20-84	2	--	--	3/4	1080	48	62	7.400
TM 750	350-750	20	475-1015	20	49-105	2	--	--	3/4	1120	48	62	7.900
TM 750 S	350-750	20	475-1015	20	49-105	2	--	--	1	1120	48	72	8.100
TM 1000	400-1000	20	540-1380	40	55-140	5	--	--	1	1370	56	82	13.800
TM 1400	750-1400	25	1000-1900	50	105-195	5	--	--	1	1410	70	82	15.500
TM 2000	1000-2000	50	1350-2700	50	135-275	5	--	--	1	1550	70	82	18.000

LC = Least Count



TORQUE WRENCHES (RATCHET)

Model No.	TORQUE RANGE								Squgre Drive Inch	OAL at Min Capacity	Head Width	Head Depth	Weight Appx.
	Lbf. Ft.		N.M		Kgf. Mts.		Lbf. Ins.						
	Range	LC	Range	LC	Range	LC	Range	LC					
TM 10R	2-10	.5	3-14	.5	.3-1.4	.1	20-120	5	3/8	320	36.2	35	0.700
TM 25R	5-25	1	5-35	2	.5-3.5	.2	40-300	20	3/8	350	36.2	35	0.800
TM 50R	10-50	2	14-68	2	1-7	.2	100-600	20	1/2	480	42.7	42	1.10
TM 100R	20-100	2	25-135	5	3-14	.5	250-1200	25	1/2	570	43.0	48	1.60
TM 160R	40-160	5	50-220	5	5-23	1	450-2000	50	1/2	622	43.0	48	2.60
TM 250R	50-250	5	70-340	10	7-35	1	600-3000	50	1/2	780	49.0	55	3.10
TM 400R	100-400	10	135-540	15	14-56	1	--	--	3/4	1095	71	62	7.35
TM 500R	100-500	10	135-675	15	14-70	2	--	--	3/4	1100	71	62	7.45
TM 600R	150-600	10	200-815	15	20-84	2	--	--	3/4	1145	71	62	7.90
TM 750R	350-750	20	475-1015	20	49-105	2	--	--	3/4	1190	78	72	9.00
TM 750RS	350-750	20	475-1015	20	49-105	2	--	--	1	1190	78	72	9.10
TM 1000R	400-1000	20	540-1380	40	55-140	5	--	--	1	1470	100	82	17.80
TM 1400R	750-1400	25	1000-1900	50	105-195	5	--	--	1	1510	100	82	18.80
TM 2000R	1000-2000	50	1350-2700	50	135-275	5	--	--	1	1650	100	82	20.00

LC = Least Count



TORQUE SCREW DRIVER

MODEL NO.	TORQUE CAPACITY						SQUARE DRIVE	WEIGHT
	KGF CM		NM		LBF IN.			
	RANGE	LC	RANGE	LC	RANGE	LC		
TMSD 15	1-15	.5	.1-1.5	.20	1-15	2	1/4"	.600 KG
TMSD 50	10-50	5	1-5	.50	10-50	5	1/4"	.350 KG

TORQUE MULTIPLIER



What is a Torque Multiplier?

A torque multiplier is a device that increases the torque that can be applied by an operator. Because the power output can not exceed the power input, the number of output revolutions will be lower than the number of input revolutions (Torque x rpm = Power).

Advantages of a Torque Multiplier

Safety - use of long levers can be dangerous. Torque multipliers mean a reduction in the lever length or operator effort by a factor of 5, 25 or 125.

Space limitation - the use of a long lever may be impossible due to the available space.

Accuracy - torque will be applied most accurately when it is applied smoothly and slowly. Torque multipliers enable this by removing much of the physical effort from the tightening task.

Torque Master Torque multipliers are made with high precision and have to pass a number of quality control tests before dispatching. Thus one can be rest assured "If it is Torque Master, look no further".

MODEL NO.		TORQUE CAPACITY			FACTOR	FEMALE INPUT	MALE OUTPUT	RECOMMENDED
PLATE TYPE	HANDLE TYPE	LBFT	KGM	NM		SQ. IN.	SQ.IN.	TORQUE WRENCH
TM-1	TMH-1	1250	170	1700	5	1/2	3/4	TM 250R
TM-2	TMH-2	1250	170	1700	5	1/2	1	TM 250R
TM-2/25	TMH-2/25	1250	170	1700	25	1/2	1	TM 100R
TM-5	TMH-5	2000	275	2750	5	3/4	1	TM 400R
TM-5/25	TM-5/25	2000	275	2750	25	1/2	1	TM 100R
TM-6		2500	345	3450	5	3/4	1.1/2	TM 500R
TM-6/25		2500	345	3450	25	1/2	1.1/2	TM 100R
TM-7		4500	622	6220	5	1	1.1/2	TM 1000R
TM-7/25		4500	622	6220	25	1/2	1.1/2	TM 250R
TM-7/25 SD		4500	622	6220	25	1/2	1.1/2	TM 250R
TM-7/125		4500	622	6220	125	1/2	1.1/2	TM 50R
TM-7/125 SD		4500	622	6220	125	1/2	1.1/2	TM 50R
TM-9/25		7000	968	9680	25	3/4	1.1/2	TM 400R
TM-9/125		7000	968	9680	125	1/2	1.1/2	TM 100R
TM-11/25		12500	1734	17340	25	3/4	2.1/2	TM 500R
TM-11/125		12500	1734	17340	125	1/2	2.1/2	TM 160R
TM-13/125		35000	4845	48450	125	3/4	2.1/2	TM 400R

SD : Small Dia

DRIVING TOOLS



(O)

REVERSIBLE RATCHETS (O)

Part No.	Sq. Dr.	Head Width	Head Depth	Gear Action	Approx. OAL
RH1	3/8"	48.0	13	20	180
RH2	1/2"	48.0	16	24	260
RH3	3/4"	64.0	29	32	605
RH4	1"	80.0	37	30	885



(Q)

ANGLE HANDLE (Q)

Part No.	Sq. Dr.	Shank Dia	Approx. OAL
AH1	3/8"	8.0	150
AH2	1/2"	12.7	165
AH3	3/4"	24.0	300



(R)

(N)



SWIVEL HANDLES (N)

Part No.	Sq. Dr.	Head Dia	Head Depth	Approx. OAL
SH0	1/4"	14.0	25	150
SH1	3/8"	22.0	36	250
SH2	1/2"	26.0	44	360
SH3	3/4"	41.0	62	580
SH4	1"	46.0	92	815

(P)



SPEED BRACE (P)

Part No.	Sq. Dr.	Shank Length	Sweep Radius	Approx. OAL
SB0	1/4"	85	95	310
SB1	3/8"	125	125	360
SB2	1/2"	115	135	405

SLIDING T HANDLE (R)

Part No.	Sq. Dr.	Head Dia	Head Depth	Approx. OAL
TH0	1/4"	14.0	26	125
TH1	3/8"	20.0	32	250
TH2	1/2"	26.0	44	300
TH3	3/4"	41.0	65	500
TH4	1"	48.0	80	750
TH5	1 1/2"	74.0	118	925
TH6	2 1/2"	116.0	145	925

STUD TIGHTENERS

The tool has been developed for speedier tightening of threaded studs with the help of impact wrench. It is ideal for use in assembly and maintenance of engines. The range covers stud diameters M6 to M36 (Metric), 1/4" to 1 1/2" UNF (SAE/British) in 3/8" (10mm) to 1" (25mm) square drives. The tool has cross-hole and groove for locking pin and ring.



(B)

3/8" Sq. Drive Stud Tightner (METRIC) (B)

Part No.	Stud Size & Pitch	Stud End. Dia	Drive End Dia	Thread Length	Approx. OAL
ST 1-6	M 6 x 1	11.4	19.0	10	35
ST 1-7	M 7 x 1	12.7	19.0	10	35
ST 1-8	M 8x1.25	13.9	19.0	12	37
ST 1-8/1	M 8 x 1	13.9	19.0	12	37
ST 1-10	M 10x1.5	16.4	19.0	14	40
ST 1-10/1.25	M 10 x 1.25	16.4	19.0	14	40

3/4" Sq. Drive Stud Tightner (METRIC) (B)

Part No.	Stud Size & Pitch	Stud End. Dia	Drive End Dia	Thread Length	Approx. OAL
ST 3-16	M 16 x 2	30.5	43.0	20	65
ST 3-20	M 20 x 2.5	35.0	43.0	24	75
ST 3-24	M 24 x 3	40.5	45.0	27	80

1/2" Sq. Drive Stud Tightner (AMERICAN/ BRITISH) (B)

Part No.	Stud Size & Pitch	Stud End. Dia	Drive End Dia	Thread Length	Approx. OAL
ST2-1/4U	1/4" UNF	13.7	25	10	44
ST2-1/4 B	1/4" BSF	13.7	25	10	44
ST2-5/16 U	5/16" UNF	15.4	25	12	46
ST2-5/16B	5/16" BSF	15.4	25	12	46
ST2-3/8U	3/8" UNF	17.3	25	14	50
ST2-3/8B	3/8" BSF	17.3	25	14	50
ST-1/2U	1/2" UNF	21.3	26	18	57
ST2-1/2 B	1/2" BSF	21.3	26	18	57
ST2-9/16U	9/16" UNF	23.3	26	18	57
ST2-9/16 B	9/16" BSF	23.3	26	18	57
ST2-5/8U	5/8" UNF	25.4	26	20	59
ST2-5/8B	5/8" BSF	25.4	26	20	59

1/2" Sq. Drive Stud Tightner (METRIC) (B)

Part No.	Stud Size & Pitch	Stud End. Dia	Drive End Dia	Thread Length	Approx. OAL
ST2-6	M6 x 1	13.5	25	10	44
ST2-7	M7x1	14.7	25	10	44
ST2-8X1.25	M8 x 1.25	16.0	25	12	46
ST2-8x1.00	M8x1.00	16.0	25	12	46
ST2-10x1.5	M10 x 1.5	18.0	25	14	50
ST2-10x1.25	M10x1.25	18.0	25	14	50
ST2-12X1.75	M12X1.75	20.5	26	18	53
ST2-12X1.25	M12X1.25	20.5	26	18	53
ST2-14X1.5	M14X1.5	23.0	26	18	57
ST2-14X2	M14X2	23.0	26	18	57
ST2-16X1.5	M16X1.5	25.5	26	20	59
ST2-16X2	M16X2	25.5	26	20	59
ST2-20X1.5	M20X1.5	30.8	26	24	63



(D)

Extension Bars (D)

Part No.	Sq. Drive	Head Dia	Shank Dia	Approx. OAL
EB0-55	1/4"	14.0	8.0	55
EB0-100	1/4"	14.0	8.0	100
EB0-150	1/4"	14.0	8.0	150
EB1-75	3/8"	19.0	12.6	75
EB1-150	3/8"	19.0	12.6	150
EB1-300	3/8"	19.0	12.6	300
EB2-75	1/2"	24.0	16.5	75
EB2-125	1/2"	24.0	16.5	125
EB2-250	1/2"	24.0	16.5	250
EB3-210	3/4"	43.0	24.0	210
EB3-430	3/4"	43.0	24.0	430
EB4-200	1"	54.0	34.0	200
EB4-400	1"	54.0	34.0	400

EXTENSION BARS

A coupler that helps the operator to reach nut/bolts located at inaccessible places or where a driving tool cannot have access to sockets and /or where clearance for operation of driving tool is not available.

One end of the extension bar is male which fits into the square drive of the sockets and the other end is a female square drive where the driving tool fits in. The male and female square drive of this tool are of same size and are available for manual as well as impact application with drive sizes ranging from 1/4" to 2 1/2" square & length from 50mm to 500mm.



Hex Driver (C)

Part No.	Nom. Size A/F	Socket End. Dia	Hex Drive Size	Approx. OAL
HD0-7/75	7	11.6	1/4" (6.35mm)	75
HD0-7/100	7	11.6	1/4"	100
HD0-7/150	7	11.6	1/4"	150
HDO-8/75	8	12.8	1/4"	75
HDO-8/100	8	12.8	1/4"	100
HDO-8/150	8	12.8	1/4"	150
HDO-10/75	10	15.3	1/4"	75
HDO-10/100	10	15.3	1/4"	100
HDO-10/150	10	15.3	1/4"	150
HDO-12/75	12	17.8	1/4"	75
HDO-12/100	12	17.8	1/4"	100
HDO-12/150	12	17.8	1/4"	150
HD8-8/75	8	13.9	5/16" (8mm)	75
HD8-8/100	8	13.9	5/16"	100
HD8-8/150	8	13.9	5/16"	150
HD8-10/75	10	16.4	5/16"	75
HD8-10/100	10	16.4	5/16"	100
HD8-10/150	10	16.4	5/16"	150
HD8-12/75	12	18.9	5/16"	75
HD8-12/100	12	18.9	5/16"	100
HD8-12/150	12	18.9	5/16"	150

IMPACT SQUARE DRIVE ADAPTORS (G)

Part No.	Sq. Dr. Female	Sq. Dr. Male	Drive End Dia	Approx. OAL
ISA0-1	1/4"	3/8"	14.0	27
ISA1-0	3/8"	1/4"	20.0	32
ISA1-2	3/8"	1/2"	21.0	38
ISA2-1	1/2"	3/8"	26.0	38
ISA3-2	3/4"	1/2"	48.0	57
ISA2-3	1/2"	3/4"	28.0	50
ISA3-4	3/4"	1"	48.0	65
ISA4-3	1"	3/4"	58.0	70
ISA4-5	1"	1 1/2"	58.0	90
ISA5-4	1 1/2"	1"	86.0	110
ISA5-6	1 1/2"	2 1/2"	86.0	135
ISA6-5	2 1/2"	1 1/2"	127.0	165



(E)



Impact Extension Bars (E)

Part No.	Sq. Drive	Head Dia	Shank Dia	Approx. OAL
IEB0-55	1/4"	16.0	8.3	55
IEB0-100	1/4"	16.0	8.3	100
IEB0-150	1/4"	16.0	8.3	150
IEB1-75	3/8"	20.0	12.6	75
IEB1-150	3/8"	20.0	12.6	150
IEB1-300	3/8"	20.0	12.6	300
IEB2-75	1/2"	26.0	16.5	75
IEB2-125	1/2"	26.0	16.5	125
IEB2-250	1/2"	26.0	16.5	250
IEB3-210	3/4"	48.0	24.0	210
IEB3-430	3/4"	48.0	24.0	430
IEB4-200	1"	58.0	34.0	200
IEB4-400	1"	58.0	34.0	400
IEB5-250	1 1/2"	86.0	49.0	250
IEB5-500	1 1/2"	86.0	49.0	500
IEB6-255	2 1/2"	127.0	83.0	255
IEB6-380	2 1/2"	127.0	85.0	380
IEB6-510	2 1/2"	127.0	90.0	510



SQUARE DRIVE ADAPTORS (H)

Part No.	Sq. Dr. Female	Sq. Dr. Male	Drive End Dia	Approx. OAL
SA0-1	1/4"	3/8"	13.0	27
SA1-0	3/8"	1/4"	19.0	32
SA1-2	3/8"	1/2"	19.0	38
SA2-1	1/2"	3/8"	24.0	38
SA3-2	3/4"	1/2"	43.0	57
SA2-3	1/2"	3/4"	26.0	50
SA3-4	3/4"	1"	43.0	65
SA4-3	1"	3/4"	54.0	70
SA4-5	1"	1 1/2"	58.0	90
SA5-4	1 1/2"	1"	86.0	110

HEX ADAPTORS

Hex Adaptors are used for tightening of sockets cap screws and bolts. These are available in 1/4" to 1" square drives to cover across flat sizes from 3mm to 36mm and 1/8" to 1 1/8" in standard and extra lengths for manual as well as impact use.

1/2" Sq. Drive Hex Adaptor (METRIC) (F)

Part No.	Nom. Size A/F	Drive End. Dia	Hex Bit. Length	Approx. OAL
IHA2-6	6	25.0	24	55
IHA2-8	8	25.0	24	55
IHA2-10	10	25.0	24	55
IHA2-12	12	26.0	28	62
IHA2-14	14	26.0	28	62
IHA2-17	17	26.0	28	62
IHA2-19	19	28.0	28	62
IHA2-22	22	28.0	28	62



(F)

1/2" Sq. Drive Hex Adaptor (AMERICAN) (F(i))

Part No.	Nom. Size A/F	Drive End. Dia	Hex Bit. Length	Approx. OAL
IHA2-1/4	1/4"	25.0	24	55
IHA2-5/16	5/16"	25.0	24	55
IHA2-3/8	3/8"	25.0	24	55
IHA2-1/2	1/2"	26.0	28	62
IHA2-9/16	9/16"	26.0	28	62
IHA2-5/8	5/8"	26.0	28	62
IHA2-11/16	11/16"	28.0	28	62
IHA2-3/4	3/4"	28.0	28	62



(F(i))

SWIVEL SOCKETS

Torque Master swivel sockets have a built in swivel joint for impact applications. The swivel is a simple coupling device that allows the thing fastened to turn around freely upon it. It is a flexible sockets particularly useful for tightening nuts located at different angular positions. These are available in 3/8" & 1/2" square drives from 7 mm to 24 mm across flat & equivalent SAE sizes. The swivel sockets with built in extension are also available to cover reach up to 200 mm.



SWIVEL IMPACT JOINT (J)

Part No.	Sq. Dr.	Head Dia	Approx. OAL
SIJ1	3/8"	24.0	53
SIJ2	1/2"	30.0	65
SIJ3	3/4"	51.0	85
SIJ4	1"	64.0	109



(I)

Swivel Impact Sockets (I)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
SIS2-10	10	18.0	25	10.5	16	70
SIS2-11	11	19.2	25	10.5	16	70
SIS2-12	12	20.5	25	12.5	17	71
SIS2-13	13	21.7	25	12.5	18	72
SIS2-14	14	23.0	25	15	20	74
SIS2-15	15	24.2	25	15	20	74
SIS2-17	17	26.7	30	17	22	78
SIS2-19	19	29.2	30	17	22	78
SIS2-21	21	31.7	30	17	22	78
SIS2-22	22	33.0	30	19	24	80
SIS2-23	23	34.2	30	19	24	80
SIS2-24	24	35.5	30	19	24	80



(K)

UNIVERSAL JOINTS

Torque Master universal joint is a coupler interposed between double hex sockets and driving tool. It is useful for tightening nuts located at difficult/angular positions. Universal joints are available from 1/4" to 1" square drives

UNIVERSAL JOINT (K)

Part No.	Sq. Dr.	Head Dia	Approx. OAL
UJ0	1/4"	14.0	40
UJ1	3/8"	22.0	50
UJ2	1/2"	26.0	78
UJ3	3/4"	43.0	110
UJ4	1"	63.0	158

SLUGGING WRENCH

Torque Master Slugging Wrenches are designed for loosening of frozen and rusty nuts and bolts where impact or shock loading is required. These are used with hammer and are available in double hex broaching in straight pattern which applies force directly in the plain of the fastener head. Single Hex slugging wrenches can also be manufactured on customer's requirements. We also offer offset pattern, and open jaw type slugging wrench.



SLUGGING WRENCH (STRAIGHT) (T)

Part No.	Nom. A/F	Head Thickness	Head Dia	Approx. OAL
SW-24	24 mm	20.0	50.0	200
SW-27	27 mm	20.0	50.0	200
SW-30	30 mm	20.0	50.0	200
SW-32	32 mm	20.0	50.0	200
SW-36	36 mm	25.0	55.0	207
SW-38	38 mm	28.0	63.0	210
SW-41	41 mm	28.0	63.0	210
SW-46	46 mm	31.0	69.0	260
SW-50	50 mm	34.0	74.0	263
SW-55	55 mm	35.0	81.0	292
SW-60	60 mm	41.0	88.0	295
SW-65	65 mm	44.0	95.0	327
SW-70	70 mm	47.0	102.0	330
SW-75	75 mm	50.0	109.0	355
SW-80	80 mm	54.0	116.0	358
SW-85	85 mm	54.0	123.0	428
SW-90	90 mm	54.0	123.0	428
SW-95	95 mm	60.0	144.0	470
SW-100	100 mm	60.0	144.0	470
SW-105	105 mm	70.0	151.0	475
SW-110	110 mm	70.0	158.0	478
SW-115	115 mm	75.0	165.0	497
SW-120	120 mm	75.0	172.0	500
SW-125	125 mm	80.0	200.0	520
SW-130	130 mm	80.0	200.0	520
SW-135	135 mm	80.0	200.0	520
SW-140	140 mm	80.0	200.0	520

Open jaw & offset Slugging Wrenches are also available.



RATCHETING SPANNER (METRIC) (S)

Part No.	A/F 1	A/F 2	OD A/F 1	OD A/F 2	Thickness	OAL
RS 8-9	8 mm	9 mm	16.5	19.5	8.2	125
RS 10-12	10 mm	12 mm	22.0	24.0	8.2	140
RS 13-14	13 mm	14 mm	27.0	29.0	10.1	177
RS 16-18	16 mm	18 mm	32.0	34.0	11.7	222
RS 17-19	17 mm	19 mm	32.0	34.0	11.7	222
RS 21-24	21 mm	24 mm	38.5	40.0	11.7	248
RS 22-24	22 mm	24 mm	38.5	40.0	11.7	248



RATCHETING SPANNER (AMERICAN) (S)

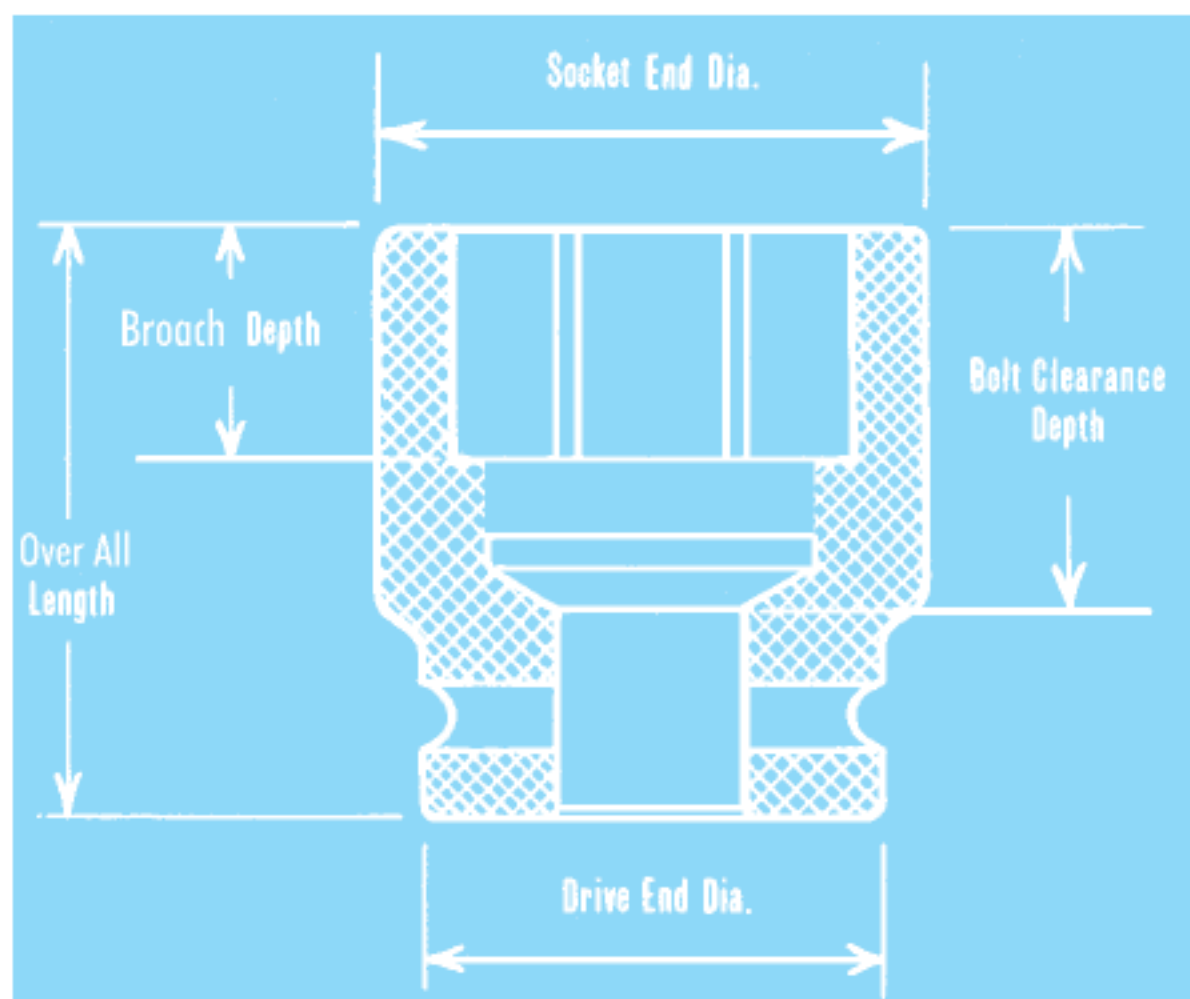
Part No.	A/F 1	A/F 2	OD A/F 1	OD A/F 2	Thickness	OAL
RS 5/16 - 3/8	5/16"	3/8"	16.5	19.5	8.2	125
RS 7/16 - 1/2	7/16"	1/2"	22.0	24.0	8.2	140
RS 9/16 - 5/8	9/16"	5/8"	27.0	29.0	10.1	177
RS 11/16 - 3/4	11/16"	3/4"	32.0	34.0	11.7	222
RS 7/8 - 15/16	7/8"	15/16"	38.5	40.0	11.7	248

TOOL KITS (U)

Part No.	Description
TK 2-090-I	Basic Service Tool Set in Inches Range
TK 2-158 MI	General Service Tools Set in Metric & Inches Range
TK 2-098 M	Basic Service Tools Set in Metric Range
TK 2-104-M	Mechanic Tools Set in Metric
TK 2-101-MI	Machine Shop Maintenance Tools Set in Metric
TK 2-123-M	Maintenance Tools Set in Metric
TK 2-103-M	Fitter Tools Set in Metric
TK 2-M	Midget Set in Metric
TK 2-072 I	Gen. Maintenance Tools Set in Inches
TK-073 I	Gen. Maintenance Tools Set in Inches
TK-2 076 M	Garage Maintenance Tools Set in Metric
TK-2 077 M	Garage Maintenance Tools Set in Metric
TK-190 MI	Master Mechanic Tools Set in Metric & Inches
TK-2 198 MI	Garage Maintenance Tools Set in Metric & Inches

SOCKETS

DETAILS OF A SOCKET



Nom.	Nominal
A/F	Across Flat
Dia	Diameter
OAL	Over All Length
Sq.	Square
Dr.	Drive

All dimensions in mm.

Torque master Tools Pvt. Ltd. has a complete range of "TORQUE MASTER" socketss in 1/4 ", 3/8", 1/2", 3/4", 1", 1 1/2 " & 2 1/2" Square drive. 5/8" Square drive socketss can also be supplied against specific order. 2 1/2 " Square Drive sockets are available in STD. Length only. Across flat size, not covered in particular square drive can also be supplied against specific order.

Torque Master sockets are of Two Types : 1. Manual Application 2. Impact Application

For each application, Standard deep and Extra deep sockets are available.

For each Drive sizes, we have three standards of sockets.

1. Metric
2. SAE (American)
3. British.

Available as recommended by ISO/IS. Material used for sockets is the best avialable. Torque Master sockets have been designed with extra wall thickness to reduce the stress levels encountered during repeated impact operations. Torque Master sockets are machined to maintain tolerance recommended for impact application on hex & square drive. Torque Master sockets are Multiple tempered to improve the impact application. Hardness of each sockets is maintained with in Limits by Multiple tempering. Torque Master sockets are available having, Industrial black finish (Mn Phosphating)

INDUSTRIAL SOCKETS

These are for hand operation only and are available in 1/4" to 1/2" square drive covering Bolt/Nut across flat sizes 4 to 34 mm (1/4" to 1 3/8" SAE) and equivalent British Sizes. Heavy duty sockets are available in 3/4" and 1" square drives covering across flat sizes from 19 mm to 85 mm (9/16" to 3 1/2" SAE) and equivalent British sizes. These heavy duty sockets are designed with a positive locking for its attachment with the driving tools having spring loaded ball & button. Deep sockets are also available to accommodate long studs.

(A)



1/4" Sq. Drive Double Hex Industrial Socket (Metric) (A)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Approx. OAL
MS0-5.5	5.5	8.9	12.0	25
MS0-6	6	9.6	12.0	25
MS0-7	7	11.2	12.0	25
MS0-8	8	12.4	12.4	25
MS0-9	9	13.7	13.7	25
MS0-10	10	14.9	14.9	25
MS0-11	11	16.2	16.2	25
MS0-12	12	17.4	17.4	25
MS0-13	13	18.7	18.7	25
MS0-14	14	19.9	19.9	25

1/4" Sq. Drive Double Hex Industrial Deep Socket (Metric) (B)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
MS0D-5.5	5.5	8.9	12.0	7.0	36	45
MS0D-6	6	9.6	12.0	8.0	36	45
MS0D-7	7	11.2	12.0	8.0	36	45
MS0D-8	8	12.4	12.0	9.5	36	45
MS0D-9	9	13.7	14.0	9.5	36	45
MS0D-10	10	14.9	14.0	10.5	36	45
MS0D-11	11	16.2	14.0	10.5	36	45
MS0D-12	12	17.4	16.0	12.5	36	45
MS0D-13	13	18.7	16.0	12.5	36	45
MS0D-14	14	19.9	16.0	15.5	36	45

1/4" Sq. Drive Double Hex Industrial Socket (American) (A)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Approx. OAL
MS0-1/4	1/4"	10.0	12.0	25
MS0-6	9/32"	11.4	12.0	25
MS0-7	5/16"	12.3	12.3	25
MS0-8	11/32"	13.3	13.3	25
MS0-9	3/8"	14.4	14.4	25
MS0-10	7/16"	16.3	16.3	25
MS0-11	1/2"	18.3	18.3	25
MS0-12	9/16"	20.3	20.3	25

1/4" Sq. Drive Double Hex Industrial Deep Socket (AMERICAN) (B)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
MS0D-1/4	1/4"	10.0	12.0	8.0	36	45
MS0D-9/32	9/32"	11.4	12.0	8.0	36	45
MS0D-5/16	5/16"	12.3	12.0	9.5	36	45
MS0D-11.32	11/32"	13.3	12.0	9.5	36	45
MS0D-3/8	3/8"	14.4	14.0	9.5	36	45
MS0D-7/16	7/16"	16.3	14.0	10.5	36	45
MS0D-1/2	1/2"	18.3	16.0	12.5	36	45
MS0D-9/16	9/16"	20.3	16.0	15.5	36	45



(B)

3/8" Sq. Drive Double Hex Industrial Socket (METRIC) (E)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Approx. OAL
MS1-6	6	10.0	19.0	32
MS1-7	7	11.2	19.0	32
MS1-8	8	12.4	19.0	32
MS1-9	9	13.7	19.0	32
MS1-10	10	14.9	19.0	32
MS1-11	11	16.2	19.0	32
MS1-12	12	17.4	19.0	32
MS1-13	13	18.7	19.0	32
MS1-14	14	20.0	20.0	32
MS1-15	15	21.2	21.2	32
MS1-16	16	22.4	22.4	32
MS1-17	17	23.7	23.7	32
MS1-18	18	24.9	24.9	32
MS1-19	19	26.2	26.2	32
MS1-20	20	27.5	27.5	32
MS1-21	21	28.7	28.7	32
MS1-22	22	29.9	29.9	32

(E)



3/8" Sq. Drive Double Hex Industrial Socket (AMERICAN) (E)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Approx. OAL
MS1-1/4	1/4"	10.2	19.0	32
MS1-5/16	5/16"	12.3	19.0	32
MS1-3/8	3/8"	14.3	19.0	32
MS1-7/16	7/16"	16.3	19.0	32
MS1-1/2	1/2"	18.3	19.0	32
MS1-9/16	9/16"	20.4	20.4	32
MS1-5/8	5/8"	22.3	22.3	32
MS1-11/16	11/16"	24.2	24.2	32
MS1-3/4	3/4"	26.2	26.2	32
MS1-13/16	13/16"	28.2	28.2	32
MS1-7/8	7/8"	30.2	30.2	32



(F)

3/8" Sq. Drive Double Hex Deep Industrial Sockets (Metric) (F)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
MS1D-6	6	10.0	19.0	8.0	42	55
MS1D-7	7	11.2	19.0	8.0	42	55
MS1D-8	8	12.4	19.0	9.5	42	55
MS1D-9	9	13.7	19.0	9.5	42	55
MS1D-10	10	14.9	19.0	10.5	42	55
MS1D-11	11	16.2	19.0	10.5	42	55
MS1D-12	12	17.4	19.0	12.5	42	55
MS1D-13	13	18.7	19.0	12.5	42	55
MS1D-14	14	20.0	20.0	15.0	42	55
MS1D-15	15	21.2	20.0	15.0	42	55
MS1D-16	16	22.4	20.0	17.0	42	55
MS1D-17	17	23.7	20.0	17.0	42	55
MS1D-18	18	24.9	22.0	17.0	42	55
MS1D-19	19	26.2	22.0	19.0	42	55
MS1D-20	20	27.5	24.0	19.0	42	55
MS1D-21	21	28.7	24.0	19.0	42	55
MS1D-22	22	29.9	26.0	19.0	42	55

3/8" Sq. Drive Double Hex Deep Industrial Socket (American) (F)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
MS1D-1/4	1/4"	10.2	19.0	8.0	42	55
MS1D-5/16	5/16"	12.3	19.0	9.5	42	55
MS1D-3/8	3/8"	14.3	19.0	9.5	42	55
MS1D-7/16	7/16"	16.3	19.0	10.5	42	55
MS1D-1/2	1/2"	18.3	19.0	12.5	42	55
MS1D-9/16	9/16"	20.4	19.0	15.0	42	55
MS1D-5/8	5/8"	22.3	20.0	17.0	42	55
MS1D-11/16	11/16"	24.2	22.0	17.0	42	55
MS1D-3/4	3/4"	26.2	22.0	19.0	42	55
MS1D-13/16	13/16"	28.2	24.0	19.0	42	55
MS1D-7/8	7/8"	30.2	26.0	19.0	42	55

1/2" Sq. Drive Double Hex Industrial Socket (Metric) (J)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Approx. OAL
MS2-8	8	13.8	23.0	40
MS2-9	9	15.0	23.0	40
MS2-10	10	16.1	23.0	40
MS2-11	11	17.6	23.0	40
MS2-12	12	18.8	23.0	40
MS2-13	13	19.6	23.0	40
MS2-14	14	21.3	23.0	40
MS2-15	15	22.8	23.0	40
MS2-16	16	23.7	23.7	40
MS2-17	17	25.0	25.0	40
MS2-18	18	26.3	26.3	42
MS2-19	19	27.5	27.5	42
MS2-20	20	28.8	28.8	42
MS2-21	21	30.0	28.0	42
MS2-22	22	31.3	30.0	42
MS2-23	23	32.5	30.0	42
MS2-24	24	33.5	30.0	42
MS2-25	25	35.0	30.0	42
MS2-26	26	36.3	30.0	42
MS2-27	27	37.5	30.0	42
MS2-28	28	38.7	32.0	42
MS2-29	29	40.1	32.0	42
MS2-30	30	41.3	32.0	45
MS2-32	32	43.7	34.0	45
MS2-34	34	46.0	36.0	48
MS2-36	36	48.5	36.0	48
MS2-38	38	51.0	36.0	48
MS2-40	40	53.5	36.0	48
MS2-41	41	54.7	38.0	48

(J)



1/2" Sq. Drive Double Hex Industrial Socket (American) (J)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Approx. OAL
MS2-3/8	3/8"	15.6	23.0	40
MS2-7/16	7/16"	17.6	23.0	40
MS2-1/2	1/2"	19.6	23.0	40
MS2-9/16	9/16"	21.3	23.0	40
MS2-5/8	5/8"	23.6	23.6	40
MS2-11/16	11/16"	25.0	25.0	40
MS2-3/4	3/4"	27.5	27.5	42
MS2-13/16	13/16"	29.3	29.3	42
MS2-7/8	7/8"	31.3	30.0	42
MS2-15/16	15/16"	33.5	30.0	42
MS2-1	1"	35.0	30.0	42
MS2-1.1/16	1.1/16"	37.5	32.0	42
MS2-1.1/8	1.1/8"	38.7	32.0	42
MS2-1.3/16	1.3/16"	41.3	32.0	45
MS2-1.1/4	1.1/4"	43.5	32.0	48

1/2" Sq. Drive Double Hex Industrial Deep Socket (Metric) (K)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
MS2D-8	8	13.8	23.0	9.5	64	80
MS2D-10	10	16.1	23.0	10.5	64	80
MS2D-11	11	17.6	23.0	10.5	64	80
MS2D-12	12	18.8	23.0	12.5	64	80
MS2D-13	13	19.6	23.0	12.5	64	80
MS2D-14	14	21.3	23.0	15.0	64	80
MS2D-15	15	22.8	23.0	15.0	64	80
MS2D-17	17	25.0	25.0	17.0	64	80
MS2D-18	18	26.3	26.0	17.0	64	80
MS2D-19	19	27.5	26.0	19.0	64	80
MS2D-21	21	30.0	28.0	19.0	64	80
MS2D-22	22	31.3	28.0	19.0	64	80
MS2D-23	23	32.5	30.0	22.0	64	80
MS2D-24	24	33.5	30.0	22.0	64	80
MS2D-27	27	37.5	33.0	22.0	64	80
MS2D-30	30	41.3	38.0	24.0	64	80
MS2D-32	32	43.5	38.0	26.0	64	80



1/2" Sq. Drive Double Hex Industrial Deep Socket (American) (K)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
MS2D-3/8	3/8"	15.6	23.0	9.5	64	80
MS2D-7/16	7/16"	17.6	23.0	10.5	64	80
MS2D-1/2	1/2"	19.6	23.0	12.5	64	80
MS2D-9/16	9/16"	21.3	23.0	15.0	64	80
MS2D-5/8	5/8"	23.6	23.0	17.0	64	80
MS2D-11/16	11/16"	25.0	26.0	17.0	64	80
MS2D-3/4	3/4"	27.5	26.0	19.0	64	80
MS2D-13/16	13/16"	29.3	28.0	19.0	64	80
MS2D-7/8	7/8"	31.3	28.0	19.0	64	80
MS2D-15/16	15/16"	33.5	30.0	22.0	64	80
MS2D-1	1"	35.0	30.0	22.0	64	80
MS2D-1.1/16	1.1/16"	37.5	33.0	22.0	64	80
MS2D-1.1/8	1.1/8"	38.7	33.0	24.0	64	80
MS2D-1.3/16	1.3/16"	41.3	38.0	24.0	64	80
MS2D-1.1/4	1.1/4"	43.5	41.0	26.0	64	80

3/4" Sq. Drive Double Hex Industrial Socket (AMERICAN) (N)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Approx. OAL
MS3-3/4	3/4"	30.5	41	44
MS3-13/16	13/16"	32.5	41	48
MS3-7/8	7/8"	34.5	41	48
MS3-15/16	15/16"	36.5	43	48
MS3-1	1"	38.5	43	48
MS3-1.1/16	1.1/16"	40.5	43	50
MS3-1.1/8	1.1/8"	43.0	43	50
MS3-1.1/4	1.1/4"	46.5	45	52
MS3-1.5/16	1.5/16"	48.5	45	52
MS3-1.3/8	1.3/8"	50.5	45	54
MS3-1.7/16	1.7/16"	52.5	48	54
MS3-1.1/2	1.1/2"	54.4	48	57
MS3-1.5/8	1.5/8"	58.4	48	57
MS3-1 11/16	1 11/16"	60.3	48	57
MS3-1 3/4	1 3/4"	62.3	54	60
MS3-1 13/16	1 13/16"	64.3	54	60
MS3-1 7/8	1 7/8"	66.3	54	60
MS3-1 15/16	1 15/16"	68.0	54	63
MS3-2	2"	70.0	54	63

3/4" Sq. Drive Double Hex Industrial Socket (METRIC) (N)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Approx. OAL
MS3-19	19	30.8	41	44
MS3-22	22	34.5	41	48
MS3-24	24	36.9	43	48
MS3-27	27	40.4	43	50
MS3-30	30	45.0	45	50
MS3-32	32	46.8	45	52
MS3-36	36	51.8	48	54
MS3-38	38	54.3	48	57
MS3-41	41	58.0	48	57
MS3-46	46	64.3	54	60
MS3-50	50	69.0	54	63
MS3-55	55	75.3	58	69
MS3-60	60	81.7	58	76
MS3-65	65	88.0	58	76





3/4" Sq. Drive Double Hex Industrial Deep Socket (AMERICAN) (O)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
MS3D-3/4	3/4"	30.5	41	18	50	80
MS3D-13/16	13/16"	32.5	41	22	50	80
MS3D-7/8	7/8"	34.5	41	22	50	80
MS3D-15/16	15/16"	36.5	43	22	50	80
MS3D-1	1"	38.5	43	22	50	80
MS3D-1.1/16	1.1/16"	40.5	43	24	50	80
MS3D-1.1/8	1.1/8"	43.0	43	24	50	80
MS3D-1.1/4	1.1/4"	46.5	45	26	60	85
MS3D-1.5/16	1.5/16"	48.5	45	26	60	85
MS3D-1.3/8	1.3/8"	50.5	45	28	60	85
MS3D-1.7/16	1.7/16"	52.5	48	28	65	90
MS3D-1.1/2	1.1/2"	54.4	48	30	65	90
MS3D-1.5/8	1.5/8"	58.4	48	30	70	90
MS3D-1 11/16	1 11/16"	60.3	48	30	70	90
MS3D-1 3/4	1 3/4"	62.3	54	30	70	95
MS3D-1 13/16	1 13/16"	64.3	54	34	70	95
MS3D-1 7/8	1 7/8"	66.3	54	34	70	95
MS3D-1 15/16	1 15/16"	68.0	54	38	70	95
MS3D-2	2"	70.0	54	38	70	95

1" Sq. Drive Double Hex Industrial Socket (METRIC) (R)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Approx. OAL
MS4-27	27	45.7	54	56
MS4-30	30	49.4	54	56
MS4-32	32	51.0	54	58
MS4-36	36	56.9	54	60
MS4-38	38	58.0	58	62
MS4-41	41	63.0	58	62
MS4-46	46	69.0	58	62
MS4-50	50	74.0	68	68
MS4-55	55	80.7	68	73
MS4-60	60	86.9	68	80
SINGLE HEX				
MS4-65	65	93.3	68	83
MS4-70	70	99.2	68	86
MS4-75	75	105.6	75	95
MS4-80	80	111.9	75	100
MS4-85	85	118.3	75	100



(R)

3/4" Sq. Drive Double Hex Industrial Deep Socket (METRIC) (O)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
MS3D-19	19	30.8	41	18	50	80
MS3D-22	22	34.5	41	22	50	80
MS3D-24	24	36.9	43	22	50	80
MS3D-27	27	40.4	43	24	50	80
MS3D-30	30	45.0	45	24	55	80
MS3D-32	32	46.8	45	26	60	85
MS3D-36	36	51.8	48	28	65	90
MS3D-38	38	54.3	48	30	65	90
MS3D-41	41	58.0	48	30	70	95
MS3D-46	46	64.3	54	34	70	95
MS3D-50	50	69.0	54	38	70	95
MS3D-55	55	75.3	58	45	85	110
MS3D-60	60	81.7	58	45	85	110

1" Sq. Drive Double Hex Industrial Socket (AMERICAN) (R)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Approx. OAL
MS4-1.1/16	1.1/16"	45.6	54	56
MS4-1.1/8	1.1/8"	47.6	54	56
MS4-1.1/4	1.1/4"	51.5	54	58
MS4-1.5/16	1.5/16"	53.7	54	58
MS4-1.3/8	1.3/8"	55.1	54	58
MS4-1.7/16	1.7/16"	57.4	54	60
MS4-1.1/2	1.1/2"	59.1	58	62
MS4-1.5/8	1.5/8"	63.4	58	62
MS4-1.11/16	1.11/16"	65.4	58	65
MS4-1.3/4	1.3/4"	67.3	58	65
MS4-1.13/16	1.13/16"	69.1	58	67
MS4-1.7/8	1.7/8"	71.1	58	68
MS4-1.15/16	1.15/16"	73.1	68	68
MS4-2	2"	75.1	68	70
MS4-2.1/16	2.1/16"	77.1	68	72
MS4-2.3/16	2.3/16"	81.1	68	73
MS4-2.1/4	2.1/4"	83.1	68	77
MS4-2.3/8	2.3/8"	87.1	68	80
MS4-2.7/16	2.7/16"	89.0	68	80
SINGLE HEX				
MS4-2 9/16	2 9/16"	92.3	68	83
MS4-2 5/8	2 5/8"	94.4	68	83
MS4-2 3/4	2 3/4"	98.8	68	86
MS4-2 13/16	2 13/16"	100.8	75	90
MS4-2 15/16	2 15/16"	105.0	75	95
MS4-3	3"	107.0	75	95
MS4-3 1/8	3 1/8"	111.0	75	100
MS4-3 3/8	3 3/8"	117.0	75	100

(S)



**1" Sq. Drive Double Hex
Industrial Deep Socket (AMERICAN) (S)**

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
MS4D-1.1/16	1.1/16"	45.6	54	26	50	80
MS4D-1.1/8	1.1/8"	47.6	54	26	50	80
MS4D-1.1/4	1.1/4"	51.5	54	28	55	85
MS4D-1.5/16	1.5/16"	53.7	54	28	55	85
MS4D-1.3/8	1.3/16"	55.1	54	28	60	90
MS4D-1.7/16	1.7/16"	57.4	54	30	60	90
MS4D-1.1/2	1.1/2"	59.1	58	32	60	90
MS4D-1.5/8	1.5/8"	63.4	58	32	60	90
MS4D-1.11/16	1.11/16"	65.4	58	35	65	95
MS4D-1.3/4	1.3/4"	67.3	58	35	65	95
MS4D-1.13/16	1.13/16"	69.1	58	37	70	100
MS4D-1.7/8	1.7/8"	71.1	58	38	70	100
MS4D-1.15/16	1.15/16"	73.1	68	38	70	100
MS4D-2	2"	75.1	68	40	70	100
MS4D-2.1/16	2.1/16"	77.1	68	42	80	110
MS4D-2.3/16	2.3/16"	81.1	68	43	90	120
MS4D-2.1/4	2.1/4"	83.1	68	44	90	120
MS4D-2.3/8	2.3/8"	87.1	68	44	90	120
MS4D-2.7/16	2.7/16"	89.0	68	44	90	120
SINGLE HEX						
MS4D-2 9/16	2 9/16"	92.3	68	47	90	120
MS4D-2 5/8	2 5/8"	94.4	68	47	90	120
MS4D-2 3/4	2 3/4"	98.8	68	50	100	130
MS4D-2 13/16	2 13/16"	100.8	75	52	100	130
MS4D-2 15/16	2 15/16"	105.0	75	56	100	130
MS4D-3	3"	107.0	75	56	100	130
MS4D-3 1/8	3 1/8"	111.0	75	56	110	140
MS4D-3 3/8	3 3/8"	117.0	75	60	110	140
MS4D-3 1/2	3 1/2"	123.0	75	60	110	140

**1" Sq. Drive Double Hex
Industrial Deep Socket (METRIC) (S)**

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
MS4D-27	27	45.7	54	26	50	80
MS4D-30	30	49.4	54	26	55	85
MS4D-32	32	51.0	54	28	55	85
MS4D-36	36	56.9	54	30	60	90
MS4D-38	38	58.0	58	32	60	90
MS4D-41	41	63.0	58	32	60	90
MS4D-46	46	69.0	58	37	70	100
MS4D-50	50	74.0	68	38	70	100
MS4D-55	55	80.7	68	43	80	110
MS4D-60	60	86.9	68	44	90	120
SINGLE HEX						
MS4D-65	65	93.3	68	47	90	120
MS4D-70	70	99.2	68	48	100	130
MS4D-75	75	105.6	75	56	100	130
MS4D-80	80	111.9	75	56	110	140
MS4D-85	85	118.3	75	60	110	140
MS4D-90	90	124.6	80	60	110	140
MS4D-95	95	130.9	80	60	110	140
MS4D-100	100	137.1	80	60	110	140



(S)

IMPACT SOCKETS

Features of Torque Master impact sockets are greater wall thickness for resisting impact loads, special heat treatment for toughness and strength, a black industrial finish and the cross hole retaining. These are available in 1/4" to 2 1/2" square drives from 6mm to 160mm across flat of Nut/Bolt. (1/4" to 6 1/4" SAE).

Caution : These sockets are for use with impact wrenches. Eye protection should always be used while using impact equipment.

1/4" Sq. Drive Single Hex Impact Socket (Metric) (C)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Approx. OAL
ISO-6	6	10.3	14.0	25
ISO-7	7	11.6	14.0	25
ISO-8	8	12.8	14.0	25
ISO-9	9	14.1	16.0	25
ISO-10	10	15.3	16.0	25
ISO-11	11	16.6	16.0	25
ISO-12	12	17.8	16.0	25
ISO-13	13	19.1	16.0	25
ISO-14	14	20.3	16.0	25



(C)

1/4" Sq. Drive Single Hex Impact Socket (American) (C)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Approx. OAL
ISO-1/4	1/4"	10.7	14.0	25
ISO-9/32	9/32"	11.7	14.0	25
ISO-5/16	5/16"	12.8	14.0	25
ISO-11/32	11/32"	13.8	16.0	25
ISO-3/8	3/8"	14.8	16.0	25
ISO-7/16	7/16"	16.8	16.0	25
ISO-1/2	1/2"	18.7	16.0	25
ISO-9/16	9/16"	20.7	16.0	25

1/4" Sq. Drive Single Hex Impact Deep Socket (Metric) (D)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
ISOD-6	6	10.3	14.0	8.0	36	45
ISOD-7	7	11.6	14.0	8.0	36	45
ISOD-8	8	12.8	14.0	9.5	36	45
ISOD-9	9	14.1	16.0	9.5	36	45
ISOD-10	10	15.3	16.0	10.5	36	45
ISOD-11	11	16.6	16.0	10.5	36	45
ISOD-12	12	17.8	16.0	12.5	36	45
ISOD-13	13	19.1	16.0	12.5	36	45
ISOD-14	14	20.3	16.0	15.0	36	45



(D)

1/4" Sq. Drive Single Hex Impact Deep Socket (American) (D)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
ISOD-1/4	1/4"	10.7	14.0	8.0	36	45
ISOD-9/32	9/32"	11.7	14.0	8.0	36	45
ISOD-5/16	5/16"	12.8	14.0	9.5	36	45
ISOD-11/32	11/32"	13.8	16.0	9.5	36	55
ISOD-3/8	3/8"	14.8	16.0	9.5	36	45
ISOD-7/16	7/16"	16.8	16.0	10.5	36	45
ISOD-1/2	1/2"	18.7	16.0	12.5	36	45
ISOD-9/16	9/16"	20.7	16.0	15.0	36	45

(G)



3/8" Sq. Drive Single Hex Impact Socket (American) (G)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Approx. OAL
IS1-5/16	5/16"	14.0	20.0	32
IS1-3/8	3/8"	15.9	20.0	32
IS1-7/16	7/16"	17.9	20.0	32
IS1-1/2	1/2"	20.0	20.0	32
IS1-9/16	9/16"	21.9	20.0	32
IS1-5/8	5/8"	23.9	22.0	32
IS1-11/16	11/16"	25.8	22.0	32
IS1-3/4	3/4"	27.7	25.0	32

3/8" Sq. Drive Single Hex Deep Impact Socket (Metric) (H)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
IS1D-8	8	14.0	20.0	9.5	42	55
IS1D-10	10	16.6	20.0	10.5	42	55
IS1D-11	11	17.8	20.0	10.5	42	55
IS1D-12	12	19.1	20.0	12.5	42	55
IS1D-13	13	20.3	20.0	12.5	42	55
IS1D-14	14	21.6	20.0	15.0	42	55
IS1D-15	15	22.8	20.0	15.0	42	55
IS1D-17	17	25.3	22.0	17.0	42	55
IS1D-18	18	26.6	22.0	17.0	42	55
IS1D-19	19	27.8	25.0	19.0	42	55
IS1D-20	20	29.1	25.0	19.0	42	55
IS1D-21	21	30.3	25.0	19.0	42	55
IS1D-22	22	31.6	25.0	19.0	42	55

3/8" Sq. Drive Single Hex Impact Socket (Metric) (G)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Approx. OAL
IS1-8	8	14.0	20.0	32
IS1-10	10	16.6	20.0	32
IS1-11	11	17.8	20.0	32
IS1-12	12	19.1	20.0	32
IS1-13	13	20.3	20.0	32
IS1-14	14	21.6	20.0	32
IS1-15	15	22.8	20.0	32
IS1-17	17	25.3	22.0	32
IS1-18	18	26.6	22.0	32
IS1-19	19	27.8	25.0	32
IS1-20	20	29.1	25.0	32
IS1-21	21	30.3	25.0	32
IS1-22	22	31.6	25.0	32
IS1-23	23	32.8	25.0	32
IS1-24	24	34.1	25.0	32
IS1-25	25	35.3	25.0	32
IS1-26	26	36.6	30.0	32
IS1-27	27	37.8	30.0	32
IS1-28	28	39.1	30.0	32
IS1-29	29	40.3	30.0	32
IS1-30	30	41.6	30.0	32

3/8" Sq. Drive Single Hex Deep Impact Socket (American) (H)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
IS1D-5/16	5/16"	14.0	20.0	9.5	42	55
IS1D-3/8	3/8"	15.9	20.0	9.5	42	55
IS1D-7/16	7/16"	17.9	20.0	10.5	42	55
IS1D-1/2	1/2"	20.0	20.0	12.5	42	55
IS1D-9/16	9/16"	21.9	20.0	15.0	42	55
IS1D-5/8	5/8"	23.9	22.0	17.0	42	55
IS1D-11/16	11/16"	25.8	22.0	17.0	42	55
IS1D-3/4	3/4"	27.7	25.0	19.0	42	55



(H)



(L)

1/2" Sq. Drive Single Hex Impact Socket(AMERICAN) (L)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Approx. OAL
IS2-3/8	3/8"	17.3	25.0	40
IS2-7/16	7/16"	19.6	25.0	40
IS2-1/2	1/2"	21.3	26.0	40
IS2-9/16	9/16"	23.3	26.0	40
IS2-5/8	5/8"	25.5	26.0	40
IS2-11/16	11/16"	27.3	26.0	40
IS2-3/4	3/4"	29.2	28.0	40
IS2-13/16	13/16"	31.2	28.0	40
IS2-7/8	7/8"	33.2	28.0	40
IS2-15/16	15/16"	35.2	30.0	40
IS2-1	1"	37.2	30.0	45
IS2-1.1/16	1.1/16"	39.2	30.0	50
IS2-1.1/8	1.1/8"	41.0	33.0	50
IS2-1.3/16	1.3/16"	43.1	33.0	50
IS2-1.1/4	1.1/4"	45.0	38.0	50

1/2" Sq. Drive Single Hex Impact Socket(METRIC) (L)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Approx. OAL
IS2-10	10	17.8	25.0	40
IS2-11	11	19.0	25.0	40
IS2-12	12	20.3	25.0	40
IS2-13	13	21.7	26.0	40
IS2-14	14	23.0	26.0	40
IS2-15	15	24.2	26.0	40
IS2-17	17	26.7	26.0	40
IS2-18	18	27.9	26.0	40
IS2-19	19	29.2	26.0	40
IS2-21	21	31.7	28.0	40
IS2-22	22	33.0	28.0	40
IS2-23	23	34.2	30.0	40
IS2-24	24	35.5	30.0	45
IS2-27	27	39.2	33.0	50
IS2-30	30	43.0	33.0	50
IS2-32	32	45.5	38.0	50
IS2-34	34	48.0	38.0	50
IS2-36	36	50.5	38.0	50



(M)

1/2 Sq. Drive Single Hex Impact Deep Socket (Metric) (M)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
IS2D-10	10	17.8	25.0	10.5	64	80
IS2D-11	11	19.0	25.0	10.5	64	80
IS2D-12	12	20.3	25.0	12.5	64	80
IS2D-13	13	21.7	26.0	12.5	64	80
IS2D-14	14	23.0	26.0	15.0	64	80
IS2D-15	15	24.2	26.0	15.0	64	80
IS2D-17	17	26.7	26.0	17.0	64	80
IS2D-18	18	27.9	26.0	19.0	64	80
IS2D-19	19	29.2	26.0	19.0	64	80
IS2D-21	21	31.7	28.0	19.0	64	80
IS2D-22	22	33.0	30.0	19.0	64	80
IS2D-24	24	35.5	30.0	22.0	64	80
IS2D-27	27	39.2	33.0	22.0	64	80
IS2D-30	30	43.0	33.0	24.0	64	80
IS2D-32	32	45.5	36.0	26.0	64	80

1/2" Sq. Drive Single Hex Impact Deep Socket (AMERICAN) (M)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
ISD2-3/8	3/8"	17.3	25.0	9.5	64	80
ISD2-7/16	7/16"	19.6	25.0	10.5	64	80
ISD2-1/2	1/2"	21.3	26.0	12.5	64	80
ISD2-9/16	9/16"	23.3	26.0	15.0	64	80
ISD2-5/8	5/8"	25.5	26.0	17.0	64	80
ISD2-11/16	11/16"	27.3	26.0	17.0	64	80
ISD2-3/4	3/4"	29.2	28.0	19.0	64	80
ISD2-13/16	13/16"	31.2	28.0	19.0	64	80
ISD2-7/8	7/8"	33.2	30.0	19.0	64	80
ISD2-15/16	15/16"	35.2	30.0	22.0	64	80
ISD2-1	1"	37.2	30.0	22.0	64	80
ISD2-1.1/16	1.1/16"	39.2	30.0	22.0	64	80
ISD2-1.1/8	1.1/8"	41.0	33.0	24.0	64	80
ISD2-13/16	13/16"	43.1	33.0	24.0	64	80
ISD2-1.1/4	1.1/4"	45.0	38.0	26.0	64	80

3/4" Sq. Drive Single Hex Impact Socket (AMERICAN) (Q)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Approx. OAL
IS3-3/4	3/4"	34.0	43	44
IS3-13/16	13/16"	36.0	43	48
IS3-7/8	7/8"	38.0	43	48
IS3-15/16	15/16"	40.0	45	48
IS3-1	1"	42.0	45	48
IS3-1.1/16	1.1/16"	44.0	45	50
IS3-1.1/8	1.1/8"	46.0	45	50
IS3-1.1/4	1.1/4"	50.0	45	52
IS3-1.5/16	1.5/16"	51.5	45	52
IS3-1.3/8	1.3/8"	54.0	48	54
IS3-1.7/16	1.7/16"	56.0	48	54
IS3-1.1/2	1.1/2"	58.0	48	57
IS3-1.5/8	1.5/8"	62.0	54	57
IS3-1 11/16	1 11/16"	64.1	54	60
IS3-1 3/4	1 3/4"	66.0	54	60
IS3-1 13/16	1 13/16"	68.0	54	60
IS3-1 7/8	1 7/8"	70.5	54	63
IS3-1 15/16	1 15/16"	72.0	54	63
IS3-2	2"	74.0	54	63



3/4" Sq. Drive Single Hex Impact Deep Socket (METRIC) (P)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
IS3D-17	17	31.7	43	18	50	80
IS3D-19	19	34.0	43	18	50	80
IS3D-22	22	38.0	43	22	50	80
IS3D-24	24	40.5	43	22	50	80
IS3D-27	27	43.5	43	24	50	80
IS3D-30	30	48.0	45	24	55	80
IS3D-32	32	50.5	45	26	60	85
IS3D-36	36	54.5	45	28	65	90
IS3D-38	38	58.0	48	30	65	90
IS3D-41	41	61.8	54	30	70	95
IS3D-46	46	68.0	54	34	70	95
IS3D-50	50	73.0	54	38	70	95
IS3D-55	55	79.3	58	45	85	110
IS3D-60	60	85.5	58	45	85	110

(Q)



3/4" Sq. Drive Single Hex Impact Socket (METRIC) (Q)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Approx. OAL
IS3-17	17	31.7	43	44
IS3-19	19	34.0	43	44
IS3-22	22	38.0	43	48
IS3-24	24	40.5	43	48
IS3-27	27	43.5	43.5	50
IS3-30	30	48.0	45	50
IS3-32	32	50.5	45	52
IS3-36	36	54.5	45	54
IS3-38	38	58.0	48	57
IS3-41	41	61.8	54	57
IS3-46	46	68.0	54	60
IS3-50	50	73.0	54	63
IS3-55	55	79.3	58	69
IS3-60	60	85.5	58	76
IS3-65	65	92.0	62	76
IS3-70	70	98.0	62	80

3/4" Sq. Drive Single Hex Impact Deep Socket (AMERICAN) (P)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
IS3D-3/4	3/4"	34.0	43	18	50	80
IS3D-13/16	13/16"	36.0	43	22	50	80
IS3D-7/8	7/8"	38.0	43	22	50	80
IS3D-15/16	15/16"	40.0	45	22	50	80
IS3D-1	1"	42.0	45	22	50	80
IS3D-1.1/16	1/16"	44.0	45	24	50	80
IS3D-1.1/8	1/8"	46.0	45	24	50	80
IS3D-1.1/4	1.1/4"	50.0	45	26	60	85
IS3D-1.5/16	1.5/16"	51.5	45	26	60	85
IS3D-1.3/8	1.3/8"	54.0	48	28	60	85
IS3D-1.7/16	1.7/16"	56.0	54	28	65	90
IS3D-1.1/2	1.1/2"	58.0	54	30	65	90
IS3D-1.5/8	1.5/8"	62.0	54	30	70	95
IS3D-1 11/16	1 11/16"	64.1	54	30	70	95
IS3D-1 3/4	1 3/4"	66.0	54	30	70	95
IS3D-1 13/16	1 13/16"	68.0	54	34	70	95
IS3D-1 7/8	1 7/8"	70.5	54	34	70	95
IS3D-1 15/16	1 15/16"	72.0	54	38	70	95
IS3D-2	2"	74.0	54	38	70	95



(T)

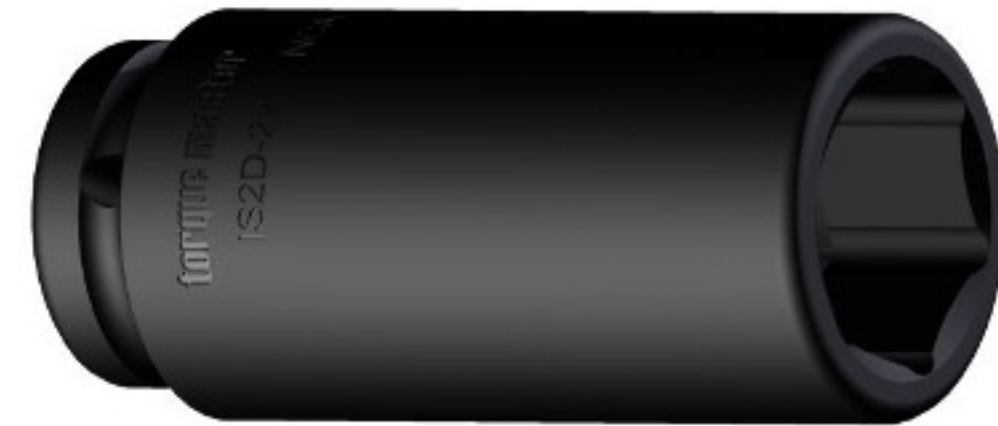
1" Sq. Drive Single Hex Impact Socket (AMERICAN) (T)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Approx. OAL
IS4-3/4	3/4"	38.1	54	54
IS4-13/16	13/16"	40.0	54	54
IS4-7/8	7/8"	42.0	54	54
IS4-15/16	15/16"	44.0	54	54
IS4-1	1"	46.0	54	56
IS4-1.1/16	1.1/16"	48.0	54	56
IS4-1.1/8	1.1/8"	49.8	54	56
IS4-1.1/4	1.1/4"	54.0	54	58
IS4-1.5/16	1.5/16"	55.7	54	58
IS4-1.3/8	1.3/8"	58.0	54	58
IS4-1.7/16	1.7/16"	59.7	58	60
IS4-1.1/2	1.1/2"	61.7	58	62
IS4-1.5/8	1.5/8"	65.6	58	62
IS4-1.11/16	1.11/16"	67.6	58	65
IS4-1.3/4	1.3/4"	69.2	58	65
IS4-1.13/16	1.13/16"	71.6	68	67
IS4-1.7/8	1.7/8"	73.6	68	68
IS4-1.15/16	1.15/16"	75.6	68	68
IS4-2	2"	77.5	68	70
IS4-2.1/16	2.1/16"	79.5	68	72
IS4-2.3/16	2.3/16"	83.5	68	73
IS4-2.1/4	2.1/4"	85.5	68	77
IS4-2.3/8	2.3/8"	89.5	68	80
IS4-2.7/16	2.7/16"	91.4	68	80
IS4-2.9/16	2.9/16"	95.4	75	83
IS4-2.5/8	2.5/8"	97.4	75	83
IS4-2.3/4	2.3/4"	101.4	75	86
IS4-2.13/16	2.13/16"	103.3	75	90
IS4-2.15/16	2.15/16"	107.3	75	95
IS4-3	3"	109.3	75	95
IS4-3.1/8	3.1/8"	113.3	75	100
IS4-3.3/8	3.3/8"	121.0	75	100
IS4-3.1/2	3.1/2"	125.0	75	100

1" Sq. Drive Single Hex Impact Socket (METRIC) (T)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Approx. OAL
IS4-19	19	38.0	54	54
IS4-22	22	41.7	54	54
IS4-24	24	44.2	54	54
IS4-27	27	48.0	54	56
IS4-30	30	51.7	54	56
IS4-32	32	54.0	54	58
IS4-36	36	59.0	58	60
IS4-38	38	61.5	58	62
IS4-41	41	65.3	58	62
IS4-46	46	71.5	68	62
IS4-50	50	76.5	68	68
IS4-55	55	82.5	68	73
IS4-60	60	88.7	68	80
IS4-65	65	95.3	75	83
IS4-70	70	101.5	75	86
IS4-75	75	107.8	75	95
IS4-80	80	114.0	75	100
IS4-85	85	120.3	75	100

(U)



1" Sq. Drive Single Hex Impact Deep Socket (METRIC) (U)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
IS4D-19	19	38.0	54	24	50	80
IS4D-22	22	41.7	54	24	50	80
IS4D-24	24	44.2	54	24	50	80
IS4D-27	27	48.0	54	26	50	80
IS4D-30	30	51.7	54	26	55	85
IS4D-32	32	54.0	54	28	55	85
IS4D-36	36	59.0	58	30	60	90
IS4D-38	38	61.5	58	32	60	90
IS4D-41	41	65.3	58	32	60	90
IS4D-46	46	71.5	68	37	70	100
IS4D-50	50	76.5	68	38	70	100
IS4D-55	55	82.5	68	43	80	110
IS4D-60	60	88.7	68	44	90	120
IS4D-65	65	95.3	75	47	90	120
IS4D-70	70	101.5	75	48	100	130
IS4D-75	75	107.8	75	56	100	130
IS4D-80	80	114.0	75	56	110	140
IS4D-85	85	120.3	75	60	110	140

**1" Sq. Drive Single Hex
Impact Deep Socket (AMERICAN) (V)**

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
IS4D-3/4	3/4"	38.1	54	24	40	80
IS4D-13/16	13/16"	40.0	54	24	50	80
IS4D-7/8	7/8"	42.0	54	24	50	80
IS4D-15/16	15/16"	44.0	54	24	50	80
IS4D-1	1"	46.0	54	26	50	80
IS4D-1.1/16	1.1/16"	48.0	54	26	50	80
IS4D-1.1/8	1.1/8"	49.8	54	26	50	80
IS4D-1.1/4	1.1/4"	54.0	54	28	55	85
IS4D-1.5/16	1.5/16"	55.7	54	28	55	85
IS4D-1.3/8	1.3/8"	58.0	54	28	60	90
IS4D-1.7/16	1.7/16"	59.7	58	30	60	90
IS4D-1.1/2	1.1/2"	61.7	58	32	60	90
IS4D-1.5/8	1.5/8"	65.6	58	32	60	90
IS4D-1.11/16	1.11/16"	67.6	58	35	65	95
IS4D-1.3/4	1.3/4"	69.2	58	35	65	95
IS4D-1.13/16	1.13/16"	71.6	68	37	70	100
IS4D-1.7/8	1.7/8"	73.6	68	38	70	100
IS4D-1.15/16	1.15/16"	75.6	68	38	70	100
IS4D-2	2"	77.5	68	40	70	100
IS4D-2.1/16	2.1/16"	79.5	68	42	80	110
IS4D-2.3/16	2.3/16"	83.5	68	43	90	120
IS4D-2.1/4	2.1/4"	85.5	68	44	90	120
IS4D-2.3/8	2.3/8"	89.5	68	44	90	120
IS4D-2.7/16	2.7/16"	91.4	68	44	90	120
IS4D-2.9/16	2.9/16"	95.4	75	47	90	120
IS4D-2.5/8	2.5/8"	97.4	75	47	90	120
IS4D-2.3/4	2.3/4"	101.4	75	50	100	130
IS4D-2.13/16	2.13/16"	103.3	75	52	100	130
IS4D-2.15/16	2.15/16"	107.3	75	56	100	130
IS4D-3	3"	109.3	75	56	100	130
IS4D-3.1/8	3.1/8"	113.3	75	56	110	140
IS4D-3.3/8	3.3/8"	121.0	75	60	110	140
IS4D-3.1/2	3.1/2"	125.0	75	60	110	140

(V)



(W)



**1 1/2" Sq. Drive Single Hex
Impact Socket (METRIC) (W)**

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Approx. OAL
IS5-36	36	64.7	86	80
IS5-38	38	66.6	86	80
IS5-41	41	70.4	86	80
IS5-46	46	76.6	86	86
IS5-50	50	81.6	86	86
IS5-55	55	87.6	86	95
IS5-60	60	94.0	86	100
IS5-65	65	100.0	86	100
IS5-70	70	106.0	86	100
IS5-75	75	112.0	86	110
IS5-80	80	118.0	86	120
IS5-85	85	124.0	86	125
IS5-90	90	130.0	86	125
IS5-95	95	136.0	127	130
IS5-100	100	142.0	127	130
IS5-105	105	148.0	127	135
IS5-110	110	154.0	127	140
IS5-115	115	160.0	127	140
IS5-120	120	166.0	127	145

(X)



**1 1/2" Sq. Drive Single Hex
Impact Socket (AMERICAN) (X)**

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Approx. OAL
IS5-1.3/8	1.3/8"	62.5	86	76
IS5-1.7/16	1.7/16"	64.8	86	80
IS5-1.1/2	1.1/2"	66.8	86	80
IS5-1.5/8	1.5/8"	70.5	86	80
IS5-1.11/16	1.11/16"	72.5	86	80
IS5-1.3/4	1.3/4"	74.5	86	80
IS5-1.13/16	1.13/16"	76.5	86	85
IS5-1.7/8	1.7/8"	78.5	86	85
IS5-2	2"	82.5	86	86
IS5-2.1/16	2.1/16"	84.5	86	90
IS5-2.3/16	2.3/16"	86.5	86	95
IS5-2.1/4	2.1/4"	90.5	86	95
IS5-2.3/8	2.3/8"	94.5	86	100
IS5-2.7/16	2.7/16"	96.5	86	100
IS5-2.9/16	2.9/16"	100.0	86	105
IS5-2.5/8	2.5/8"	102.0	86	105
IS5-2.3/4	2.3/4"	106.0	86	105
IS5-2.13/16	2.13/16"	108.0	86	105
IS5-2.15/16	2.15/16"	112.0	86	110
IS5-3	3"	114.0	86	110
IS5-3.1/8	3.1/8"	118.0	86	115
IS5-3.3/8	3.3/8"	125.0	86	120
IS5-3.1/2	3.1/2"	129.0	86	120
IS5-3.3/4	3.3/4"	137.0	127	130
IS5-3.7/8	3.7/8"	141.0	127	130
IS5-4.1/8	4.1/8"	149.0	127	135
IS5-4.1/4	4.1/4"	153.0	127	135
IS5-4.1/2	4.1/2"	161.0	127	140
IS5-4.5/8	4.5/8"	165.0	127	145

(Y)



**1 1/2" Sq. Drive Single Hex
Impact Deep Socket (AMERICAN) (Y)**

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
IS5D-1.3/8	1.3/8"	62.5	86	32	98	140
IS5D-1.7/16	1.7/16"	64.8	86	32	98	140
IS5D-1.1/2	1.1/2"	66.8	86	32	98	140
IS5D-1.5/8	1.5/8"	70.8	86	32	98	140
IS5D-1.11/16	1.11/16"	72.5	86	36	98	140
IS5D-1.3/4	1.3/4"	74.5	86	36	98	140
IS5D-1.13/16	1.13/16"	76.5	86	36	98	140
IS5D-1.7/8	1.7/8"	78.5	86	36	98	140
IS5D-2	2"	82.5	86	36	98	140
IS5D-2.1/16	2.1/16"	84.5	86	36	98	140
IS5D-2.3/16	2.3/16"	86.5	86	36	98	140
IS5D-2.1/4	2.1/4"	90.5	86	42	98	140
IS5D-2.3/8	2.3/8"	94.5	86	42	98	140
IS5D-2.7/16	2.7/16"	96.0	86	42	98	140
IS5D-2.9/16	2.9/16"	100.0	86	42	98	140
IS5D-2.5/8	2.5/8"	102.0	86	42	98	140
IS5D-2.3/4	2.3/4"	106.0	86	42	98	140
IS5D-2.13/16	2.13/16"	108.0	86	48	98	140
IS5D-2.15/16	2.15/16"	112.0	86	48	98	140
IS5D-3	3"	114.0	86	48	98	140
IS5D-3.1/8	3.1/8"	118.0	86	48	98	140
IS5D-3.3/8	3.3/8"	125.0	86	52	98	140
IS5D-3.1/2	3.1/2"	129.0	86	52	98	140
IS5D-3.3/4	3.3/4"	137.0	127	57	108	150
IS5D-3.7/8	3.7/8"	141.0	127	57	108	150
IS5D-4.1/8	4.1/8"	149.0	127	60	108	150
IS5D-4.1/4	4.1/4"	153.0	127	62	118	160
IS5D-4.1/2	4.1/2"	161.0	127	62	118	160
IS5D-4.5/8	4.5/8"	165.0	127	70	128	170

**1 1/2" Sq. Drive Single Hex
Impact Deep Socket (METRIC) (Y)**

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
IS5D-36	36	64.7	86	32	98	140
IS5D-38	38	66.6	86	32	98	140
IS5D-41	41	70.4	86	32	98	140
IS5D-46	46	76.6	86	36	98	140
IS5D-50	50	81.6	86	36	98	140
IS5D-55	55	87.8	86	36	98	140
IS5D-60	60	94.0	86	45	98	140
IS5D-65	65	100.0	86	45	98	140
IS5D-70	70	106.0	86	45	98	140
IS5D-75	75	112.0	86	48	98	140
IS5D-80	80	118.0	86	48	98	140
IS5D-85	85	124.0	86	52	98	140
IS5D-90	90	130.0	86	52	98	140
IS5D-95	95	136.0	127	58	108	150
IS5D-100	100	142.0	127	58	108	150
IS5D-105	105	148.0	127	60	108	150
IS5D-110	110	154.0	127	60	118	160
IS5D-115	115	160.0	127	65	118	160
IS5D-120	120	166.0	127	70	128	170



(Z)

2 1/2" Sq. Drive Single Hex Impact Socket (AMERICAN) (Z)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
IS6-2.1/8	2 1/8"	103.0	127	50	75	140
IS6-2.1/4	2 1/4"	106.0	127	50	75	140
IS6-2.7/16	2.7/16"	108.0	127	50	75	140
IS6-2 9/16	2 9/16"	112.0	127	50	75	140
IS6-2.5/8	2.5/8"	114.0	127	50	75	140
IS6-2.3/4	2.3/4"	118.0	127	52	80	145
IS6-2.13/16	2.13/16"	119.0	127	52	80	145
IS6-2.15/16	2.15/16"	123.0	127	52	80	145
IS6-3	3"	126.0	127	52	80	145
IS6-3.1/8	3.1/8"	130.0	127	52	80	145
IS6-3.3/8	3.3/8"	138.0	127	54	80	145
IS6-3.1/2	3.1/2"	142.0	127	54	80	145
IS6-3.3/4	3.3/4"	150.0	127	54	95	160
IS6-3.7/8	3.7/8"	154.0	127	54	95	160
IS6-4.1/8	4.1/8"	161.0	127	54	95	160
IS6-4.1/4	4.1/4"	165.0	127	60	105	170
IS6-4.1/2	4.1/2"	173.0	127	60	105	170
IS6-4.5/8	4.5/8"	176.0	127	65	105	170
IS6-4.7/8	4.7/8"	184.0	152	65	125	190
IS6-5	5"	188.0	152	70	125	190
IS6-5.1/4	5.1/4"	196.0	152	75	125	190
IS6-5.3/8	5.3/8"	200.0	152	75	130	195
IS6-5.5/8	5.5/8"	208.0	152	75	130	195
IS6-5.3/4	5.3/4"	212.0	152	75	130	195
IS6-6	6"	220.0	152	75	130	200
IS6-6.1/8	6.1/8"	224.0	152	75	130	200
IS6-6.1/4	6.1/4"	228.0	152	75	130	200

2 1/2" Sq. Drive Single Hex Impact Socket (METRIC) (Z)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
IS6-60	60	106.0	127	50	75	140
IS6-65	65	112.0	127	50	75	140
IS6-70	70	118.0	127	52	80	145
IS6-75	75	124.6	127	52	80	145
IS6-80	80	130.8	127	52	80	145
IS6-85	85	137.7	127	54	80	145
IS6-90	90	143.1	127	54	95	160
IS6-95	95	148.1	127	54	95	160
IS6-100	100	155.3	127	54	95	160
IS6-105	105	161.2	127	60	95	160
IS6-110	110	167.0	127	60	96	170
IS6-115	115	173.6	127	65	105	170
IS6-120	120	186.0	127	65	105	170
IS6-130	130	192.5	152	70	125	190
IS6-135	135	198.7	152	70	125	190
IS6-145	145	211.3	152	75	135	195
IS6-150	150	217.6	152	75	135	200
IS6-155	155	224.0	152	75	135	200
IS6-160	160	230.0	152	75	135	200



(Z)

EXTENSION SOCKETS

These sockets are with built-in integral extension. These are suitable for impact applications and are available in single hex configuration in rigid as well as swivel joint design. These are provided with locking ring and pin and are available in various across flat sizes in 3/8" & 1/2" square drives with different lengths ranging from 100 mm to 250 mm.



(A)

3/8" Sq. Drive Impact Extension Sockets (METRIC) (A)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
IES-1-7/100	7	12.7	19.0	8.0	24	100
IES-1-7/150	7	12.7	19.0	8.0	24	150
IES-1-7/200	7	12.7	19.0	8.0	24	200
IES-1-7/250	7	12.7	19.0	8.0	24	250
IES-1-8/100	8	13.9	19.0	9.5	26	100
IES-1-8/150	8	13.9	19.0	9.5	26	150
IES-1-8/200	8	13.9	19.0	9.5	26	200
IES-1-8/250	8	13.9	19.0	9.5	26	250
IES-1-10/100	10	16.4	19.0	10.5	27	100
IES-1-10/150	10	16.4	19.0	10.5	27	150
IES-1-10/200	10	16.4	19.0	10.5	27	200
IES-1-10/250	10	16.4	19.0	10.5	27	250
IES-1-11/100	11	17.7	20.0	10.5	27	100
IES-1-11/150	11	17.7	20.0	10.5	27	150
IES-1-11/200	11	17.7	20.0	10.5	27	200
IES-1-11/250	11	17.7	20.0	10.5	27	250
IES-1-12/100	12	19.0	20.0	12.5	29	100
IES-1-12/150	12	19.0	20.0	12.5	29	150
IES-1-12/200	12	19.0	20.0	12.5	29	200
IES-1-12/250	12	19.0	20.0	12.5	29	250
IES-1-13/100	13	20.2	20.0	12.5	29	100
IES-1-13/150	13	20.2	20.0	12.5	29	150
IES-1-13/200	13	20.2	20.0	12.5	29	200
IES-1-13/250	13	20.2	20.0	12.5	29	250
IES-1-14/100	14	21.4	22.0	15.0	31	100
IES-1-14/150	14	21.4	22.0	15.0	31	150
IES-1-14/200	14	21.4	22.0	15.0	31	200
IES-1-14/250	14	21.4	22.0	15.0	31	250

1/2" Sq. Drive Impact Extension Sockets (METRIC) (A)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
IES2-10/100	10	17.6	25	10.5	27	100
IES2-10/150	10	17.6	25	10.5	27	150
IES2-10/200	10	17.6	25	10.5	27	200
IES2-10/250	10	17.6	25	10.5	27	250
IES2-11/100	11	19.0	25	10.5	27	100
IES2-11/150	11	19.0	25	10.5	27	150
IES2-11/200	11	19.0	25	10.5	27	200
IES2-11/250	11	19.0	25	10.5	27	250
IES2-12/100	12	20.2	25	12.5	29	100
IES2-12/150	12	20.2	25	12.5	29	150
IES2-12/200	12	20.2	25	12.5	29	200
IES2-12/250	12	20.2	25	12.5	29	250
IES2-13/100	13	21.7	26	12.5	29	100
IES2-13/150	13	21.7	26	12.5	29	150
IES2-13/200	13	21.7	26	12.5	29	200
IES2-13/250	13	21.7	26	12.5	29	250
IES2-14/100	14	23	26	15.0	33	100
IES2-14/150	14	23	26	15.0	33	150
IES2-14/200	14	23	26	15.0	33	200
IES2-14/250	14	23	26	15.0	33	250
IES2-17/100	17	26.7	26	17.0	35	100
IES2-17/150	17	26.7	26	17.0	35	150
IES2-17/200	17	26.7	26	17.0	35	200
IES2-17/250	17	26.7	26	17.0	35	250
IES2-19/100	19	29.2	28	19.0	37	100
IES2-19/150	19	29.2	28	19.0	37	150
IES2-19/200	19	29.2	28	19.0	37	200
IES2-19/250	19	29.2	28	19.0	37	250
IES2-21/100	21	31.7	28	19.0	37	100
IES2-21/150	21	31.7	28	19.0	37	150
IES2-21/200	21	31.7	28	19.0	37	200
IES2-21/250	21	31.7	28	19.0	37	250
IES2-22/100	22	33.0	28	19.0	38	100
IES2-22/150	22	33.0	28	19.0	38	150
IES2-22/200	22	33.0	28	19.0	38	200
IES2-22/250	22	33.0	28	19.0	38	250
IES2-23/100	23	34.2	30	22	42	100
IES2-23/150	23	34.2	30	22	42	150
IES2-23/200	23	34.2	30	22	42	200
IES2-23/250	23	34.2	30	22	42	250
IES2-24/100	24	35.5	30	22	42	100
IES2-24/150	24	35.5	30	22	42	150
IES2-24/200	24	35.5	30	22	42	200
IES2-24/250	24	35.5	30	22	42	250
IES2-27/100	27	39.2	30	22	42	100
IES2-27/150	27	39.2	30	22	42	150
IES2-27/200	27	39.2	30	22	42	200
IES2-27/250	27	39.2	30	22	42	250

SPRING BALANCERS



Torque Master Overhead Spring Balancers are specially designed to free the operator from weight of the hand tools. When properly balanced by adjusting spring tension, the tools become almost weightless in the hands of the operator, and can be moved up and down with very little effort thus reducing the operational fatigue. Torque Master Spring Balancers are designed with high precision so as to minimize the chances of operational hazards.

Applications of Spring Balancers

Portable Hand Tools, Welder Guns, Spray guns, Short Blast Guns, Drifting Attachments in mines and Quarries, Jute and synthetic bag closing machines, Gauges, Jigs and Fixtures, Pendant Station, Switch Button of Hoists, incase of de-oxidation, water washing of plating work with raising and lowering of work etc

Model No.	Capacity Min-Max (kgs)	Cable Travel (mtrs)	Diameter of Cable (mm)	Weight (Kgs)
TMSB-2	0.5-2	1	3	1.2
TMSB-3	1-3	1.3	3.5	2.3
TMSB-5	2.5-5	1.3	3.5	2.3
TMSB-9	4.5-9	1.3	4	3.9
TMSB-15	9-15	1.5	4	4
TMSB-22	15-22	1.5	5	7.6
TMSB-30	22-30	1.5	5	9
TMSB-40	30-40	1.5	5	10.5
TMSB-50	40-50	1.5	5	10.9
TMSB-60	50-60	1.5	5	11.7
TMSB-70	60-70	1.5	5	12.3
TMSB-85	70-85	1.5	6	13.2
TMSB-100	85-100	1.5	6	13.5
TMSB-120	100-120	1.5	6	13.9
TMSB-140	120-140	1.5	6	21
TMSB-160	135-160	1.5	6	23
TMSB-170	140-170	1.5	6	26
TMSB-200	170-200	1.5	6	30

TORQUE MASTER TOOLS

H E A V Y

D U T Y

I N D U S T R I A L

T O O L S

Some important points of this catalogue :

Standard sizes appearing in this catalogue are regularly available, while the special sizes / sets will be offered against specific enquiry.

The specifications of the products given are as true as possible and are not binding.



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