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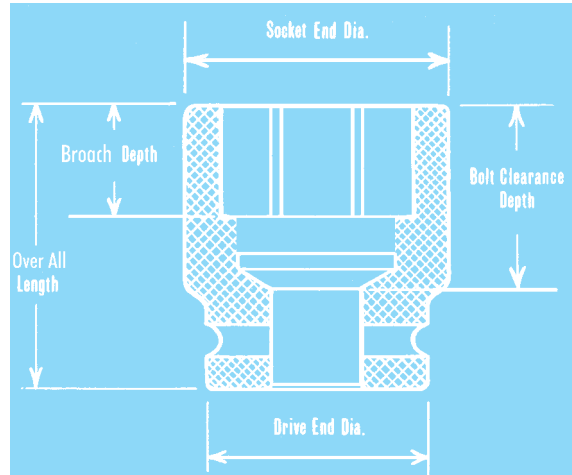
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DETAILS OF A SOCKET



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

All dimensions in mm.





(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
MSO-5.5	5.5	8.9	12.0	25
MSO-6	6	9.6	12.0	25
MSO-7	7	11.2	12.0	25
MSO-8	8	12.4	12.4	25
MSO-9	9	13.7	13.7	25
MSO-10	10	14.9	14.9	25
MSO-11	11	16.2	16.2	25
MSO-12	12	17.4	17.4	25
MSO-13	13	18.7	18.7	25
MSO-14	14	19.9	19.9	25

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

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Approx. OAL
MSO-1/4	1/4"	10.0	12.0	25
MSO-9/32	9/32"	11.4	12.0	25
MSO-5/16	5/16"	12.3	12.3	25
MSO-11/32	11/32"	13.3	13.3	25
MSO-3/8	3/8"	14.4	14.4	25
MSO-7/16	7/16"	16.3	16.3	25
MSO-1/2	1/2"	18.3	18.3	25
MSO-9/16	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
MSOD-1/4	1/4"	10.0	12.0	8.0	36	45
MSOD-9/32	9/32"	11.4	12.0	8.0	36	45
MSOD-5/16	5/16"	12.3	12.0	9.5	36	45
MSOD-11/32	11/32"	13.3	12.0	9.5	36	45
MSOD-3/8	3/8"	14.4	14.0	9.5	36	45
MSOD-7/16	7/16"	16.3	14.0	10.5	36	45
MSOD-1/2	1/2"	18.3	16.0	12.5	36	45
MSOD-9/16	9/16"	20.3	16.0	15.5	36	45

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
MSOD-5.5	5.5	8.9	12.0	7.0	36	45
MSOD-6	6	9.6	12.0	8.0	36	45
MSOD-7	7	11.2	12.0	8.0	36	45
MSOD-8	8	12.4	12.0	9.5	36	45
MSOD-9	9	13.7	14.0	9.5	36	45
MSOD-10	10	14.9	14.0	10.5	36	45
MSOD-11	11	16.2	14.0	10.5	36	45
MSOD-12	12	17.4	16.0	12.5	36	45
MSOD-13	13	18.7	16.0	12.5	36	45
MSOD-14	14	19.9	16.0	15.5	36	45

(B)





**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





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

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

(F)


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



(G)



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	19.0	9.5	42	55
IS1D-10	10	16.6	19.0	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 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	19.0	9.5	42	55
IS1D-3/8	3/8"	15.9	19.0	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

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	19.0	32
IS1-3/8	3/8"	15.9	19.0	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 Impact Socket (Metric) (G)

Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Approx. OAL
IS1-8	8	14.0	19.0	32
IS1-10	10	16.6	19.0	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	35
IS1-25	25	35.3	25.0	35
IS1-26	26	36.6	30.0	35
IS1-27	27	37.8	30.0	35
IS1-28	28	39.1	30.0	35
IS1-29	29	40.3	30.0	35
IS1-30	30	41.6	30.0	35

(H)





**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	23.0	23.0	40
MS2-16	16	23.7	23.7	40
MS2-17	17	25.0	25.0	40
MS2-18	18	26.3	25.0	42
MS2-19	19	27.5	25.0	42
MS2-20	20	28.8	28.0	42
MS2-21	21	30.0	28.0	42
MS2-22	22	31.3	28.0	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
MS2-31	31	42.5	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
MS2-46	46	61.0	41.0	48
MS2-50	50	66.0	41.0	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"	25.4	25.4	40
MS2-3/4	3/4"	27.5	25.0	42
MS2-13/16	13/16"	29.3	28.0	42
MS2-7/8	7/8"	31.5	28.0	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	25.0	17.0	64	80
MS2D-19	19	27.5	25.0	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
MS2D-36	36	48.5	38.0	28.0	64	80

(K)



**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"	25.5	24.0	17.0	64	80
MS2D-3/4	3/4"	27.5	25.0	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

**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	24.0	40
IS2-11	11	19.0	24.0	40
IS2-12	12	20.3	24.0	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	36.0	30.0	42
IS2-27	27	39.2	33.0	45
IS2-30	30	43.0	33.0	45
IS2-32	32	45.5	38.0	45
IS2-34	34	48.0	38.0	48
IS2-36	36	50.5	38.0	48
IS2-41	41	57.0	38.0	48
IS2-46	46	63.5	38.0	48
IS2-55	55	74.8	54.0	60

(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	24.0	40
IS2-7/16	7/16"	19.6	24.0	40
IS2-1/2	1/2"	21.3	24.0	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	26.0	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	45
IS2-1.1/8	1.1/8"	41.0	33.0	45
IS2-1.3/16	1.3/16"	43.1	33.0	45
IS2-1.1/4	1.1/4"	45.0	38.0	45





(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	24.0	10.5	64	80
IS2D-11	11	19.0	24.0	10.5	64	80
IS2D-12	12	20.3	24.0	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
IS2D-36	36	50.5	38.0	28.0	64	80
IS2D-38	38	53.0	38.0	28.0	64	80

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



(N)

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	24.0	9.5	64	80
ISD2-7/16	7/16	19.6	24.0	10.5	64	80
ISD2-1/2	1/2	21.3	24.0	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	26.0	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 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



(O)



**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	85
MS3D-22	22	34.5	41	22	50	85
MS3D-24	24	36.9	43	22	50	85
MS3D-27	27	40.4	43	24	50	85
MS3D-30	30	45.0	45	24	55	85
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	90
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	105
MS3D-60	60	81.7	58	45	85	110

**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	85
MS3D-13/16	13/16	32.5	41	22	50	85
MS3D-7/8	7/8	34.5	41	22	50	85
MS3D-15/16	15/16	36.5	43	22	50	85
MS3D-1	1	38.5	43	22	50	85
MS3D-1.1/16	1.1/16	40.5	43	24	50	85
MS3D-1.1/8	1.1/8	43.0	43	24	50	85
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	90
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

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

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	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
IS3-75	75	104.3	62	85
IS3-80	80	110.8	62	85

(P)



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

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	43	48
IS3-1	1	42.0	43	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) (Q)**



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	85
IS3D-19	19	34.0	43	18	50	85
IS3D-22	22	38.0	43	22	50	85
IS3D-24	24	40.5	43	22	50	85
IS3D-27	27	43.5	43	24	50	85
IS3D-30	30	48.0	45	24	55	85
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	90
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	105
IS3D-60	60	85.5	58	45	85	110
IS3D-65	65	92.0	62	45	85	110
IS3D-70	70	98.5	62	45	85	110
IS3D-75	75	105.0	62	45	85	110

(Q)



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

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	85
IS3D-13/16	13/16	36.0	43	22	50	85
IS3D-7/8	7/8	38.0	43	22	50	85
IS3D-15/16	15/16	40.0	45	22	50	85
IS3D-1	1	42.0	45	22	50	85
IS3D-1.1/16	1/16	44.0	45	24	50	85
IS3D-1.1/8	1/8	46.0	45	24	50	85
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	90
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

**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
MS4-2.1/2	2.1/2	91.0	68	80
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
MS4-3 1/2	3 1/2	123.0	75	100



(R)

**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
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



**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	90
MS4D-30	30	49.4	54	26	55	90
MS4D-32	32	51.0	54	28	55	90
MS4D-36	36	56.9	54	30	60	95
MS4D-38	38	58.0	58	32	60	95
MS4D-41	41	63.0	58	32	60	95
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
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)



**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	90
MS4D-1.1/8	1.1/8	47.6	54	26	50	90
MS4D-1.1/4	1.1/4	51.5	54	28	55	90
MS4D-1.5/16	1.5/16	53.7	54	28	55	90
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	95
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
MS4D-2.1/2	2.1/2	91.0	68	44	90	120
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	8 1/2	123.0	75	60	110	140




(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	65
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
IS4-2.1/2	2.1/2	90.8	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

(U)

**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	65
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
IS4-90	90	126.6	85	100
IS4-95	95	133.0	85	105
IS4-100	100	139.0	85	105
IS4-105	105	145.0	85	105
IS4-110	110	152.0	85	105

**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	90
IS4D-22	22	41.7	54	24	50	90
IS4D-24	24	44.2	54	24	50	90
IS4D-27	27	48.0	54	26	50	90
IS4D-30	30	51.7	54	26	55	90
IS4D-32	32	54.0	54	28	55	90
IS4D-36	36	59.0	58	30	60	95
IS4D-38	38	61.5	58	32	60	95
IS4D-41	41	65.3	58	32	60	95
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	56	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	90
IS4D-13/16	13/16	40.0	54	24	50	90
IS4D-7/8	7/8	42.0	54	24	50	90
IS4D-15/16	15/16	44.0	54	24	50	90
IS4D-1	1	46.0	54	26	50	90
IS4D-1.1/16	1.1/16	48.0	54	26	50	90
IS4D-1.1/8	1.1/8	49.8	54	26	50	90
IS4D-1.1/4	1.1/4	54.0	54	28	55	90
IS4D-1.5/16	1.5/16	55.7	54	28	55	90
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	95
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	66.7	86	80
IS5-38	38	68.6	86	80
IS5-41	41	72.4	86	80
IS5-46	46	78.6	86	86
IS5-50	50	83.6	86	86
IS5-55	55	89.6	86	95
IS5-60	60	96.0	86	100
IS5-65	65	102.0	86	100
IS5-70	70	108.0	86	100
IS5-75	75	114.0	86	110
IS5-80	80	120.0	86	120
IS5-85	85	126.0	86	125
IS5-90	90	132.0	86	125
IS5-95	95	138.0	125	130
IS5-100	100	144.0	125	130
IS5-105	105	150.0	125	135
IS5-110	110	156.0	125	140
IS5-115	115	162.0	125	140
IS5-120	120	168.0	125	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	64.5	86	76
IS5-1.7/16	1.7/16	66.8	86	80
IS5-1.1/2	1.1/2	68.8	86	80
IS5-1.5/8	1.5/8	72.5	86	80
IS5-1.11/16	1.11/16	74.5	86	80
IS5-1.3/4	1.3/4	76.5	86	80
IS5-1.13/16	1.13/16	78.5	86	85
IS5-1.7/8	1.7/8	80.5	86	85
IS5-2	2	84.5	86	86
IS5-2.1/16	2.1/16	86.5	86	90
IS5-2.3/16	2.3/16	88.5	86	95
IS5-2.1/4	2.1/4	92.5	86	95
IS5-2.3/8	2.3/8	96.5	86	100
IS5-2.7/16	2.7/16	98.5	86	100
IS5-2.9/16	2.9/16	102.0	86	105
IS5-2.5/8	2.5/8	104.0	86	105
IS5-2.3/4	2.3/4	108.0	86	105
IS5-2.13/16	2.13/16	110.0	86	105
IS5-2.15/16	2.15/16	114.0	86	110
IS5-3	3	116.0	86	110
IS5-3.1/8	3.1/8	120.0	86	115
IS5-3.3/8	3.3/8	127.0	86	120
IS5-3.1/2	3.1/2	131.0	86	120
IS5-3.3/4	3.3/4	139.0	125	130
IS5-3.7/8	3.7/8	143.0	125	130
IS5-4.1/8	4.1/8	151.0	125	135
IS5-4.1/4	4.1/4	155.0	125	135
IS5-4.1/2	4.1/2	163.0	125	140
IS5-4.5/8	4.5/8	167.0	125	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	64.5	86	32	98	140
IS5D-1.7/16	1.7/16	66.8	86	32	98	140
IS5D-1.1/2	1.1/2	68.8	86	32	98	140
IS5D-1.5/8	1.5/8	72.8	86	32	98	140
IS5D-1.11/16	1.11/16	74.5	86	36	98	140
IS5D-1.3/4	1.3/4	76.5	86	36	98	140
IS5D-1.13/16	1.13/16	78.5	86	36	98	140
IS5D-1.7/8	1.7/8	80.5	86	36	98	140
IS5D-2	2	84.5	86	36	98	140
IS5D-2.1/16	2.1/16	86.5	86	36	98	140
IS5D-2.3/16	2.3/16	88.5	86	36	98	140
IS5D-2.1/4	2.1/4	92.5	86	42	98	140
IS5D-2.3/8	2.3/8	96.5	86	42	98	140
IS5D-2.7/16	2.7/16	98.0	86	42	98	140
IS5D-2.9/16	2.9/16	102.0	86	42	98	140
IS5D-2.5/8	2.5/8	104.0	86	42	98	140
IS5D-2.3/4	2.3/4	108.0	86	42	98	140
IS5D-2.13/16	2.13/16	110.0	86	48	98	140
IS5D-2.15/16	2.15/16	114.0	86	48	98	140
IS5D-3	3	116.0	86	48	98	140
IS5D-3.1/8	3.1/8	120.0	86	48	98	140
IS5D-3.3/8	3.3/8	127.0	86	52	98	140
IS5D-3.1/2	3.1/2	131.0	86	52	98	140
IS5D-3.3/4	3.3/4	139.0	125	57	108	150
IS5D-3.7/8	3.7/8	143.0	125	57	108	150
IS5D-4.1/8	4.1/8	151.0	125	60	108	150
IS5D-4.1/4	4.1/4	155.0	125	62	118	160
IS5D-4.1/2	4.1/2	163.0	125	62	118	160
IS5D-4.5/8	4.5/8	167.0	125	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	66.7	86	32	98	140
IS5D-38	38	68.6	86	32	98	140
IS5D-41	41	72.4	86	32	98	140
IS5D-46	46	78.6	86	36	98	140
IS5D-50	50	83.6	86	36	98	140
IS5D-55	55	89.8	86	36	98	140
IS5D-60	60	96.0	86	45	98	140
IS5D-65	65	102.0	86	45	98	140
IS5D-70	70	108.0	86	45	98	140
IS5D-75	75	114.0	86	48	98	140
IS5D-80	80	120.0	86	48	98	140
IS5D-85	85	126.0	86	52	98	140
IS5D-90	90	132.0	86	52	98	140
IS5D-95	95	138.0	125	58	108	150
IS5D-100	100	144.0	125	58	108	150
IS5D-105	105	150.0	125	60	108	150
IS5D-110	110	156.0	125	60	118	160
IS5D-115	115	162.0	125	65	118	160



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

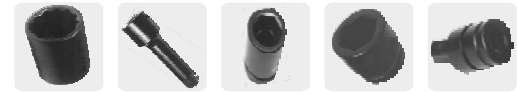
Part No.	Nom. Size A/F	Socket End. Dia	Drive End Dia	Broach Depth	Bolt Clearance Depth	Approx. OAL
IS6-60	60	106.0	127	50	75	140
IS6-65	65	112.0	127	50	75	140
IS6-70	70	118.0	127	52	80	145
IS6-75	75	124.6	127	52	80	145
IS6-80	80	130.8	127	52	80	145
IS6-85	85	137.7	127	54	80	145
IS6-90	90	143.1	127	54	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

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

(Z)



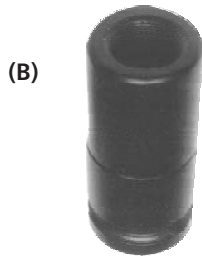

(A)
**3/8" Sq. Drive Impact Extension
Sockets (METRIC) (A)**

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	13.0	19.0	9.5	26	100
IES-1-8/150	8	13.0	19.0	9.5	26	150
IES-1-8/200	8	13.0	19.0	9.5	26	200
IES-1-8/250	8	13.0	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-1-11X150	11	17.7	20.0	10.5	27	150
IES-1-11X200	11	17.7	20.0	10.5	27	200
IES-1-11/250	11	17.7	20.0	10.5	27	250
IES-1-12X100	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
IES2-10X100	10	17.6	24	10.5	27	100
IES2-10X150	10	17.6	24	10.5	27	150
IES2-10X200	10	17.6	24	10.5	27	200
IES2-10X250	10	17.6	24	10.5	27	250
IES2-11X100	11	19.0	24	10.5	27	100
IES2-11X150	11	19.0	24	10.5	27	150
IES2-11X200	11	19.0	24	10.5	27	200
IES2-11X250	11	19.0	24	10.5	27	250
IES2-12X100	12	20.2	24	12.5	29	100
IES2-12X150	12	20.2	24	12.5	29	150
IES2-12X200	12	20.2	24	12.5	29	200
IES2-12X250	12	20.2	24	12.5	29	250
IES2-13X100	13	21.7	26	12.5	29	100
IES2-13X150	13	21.7	26	12.5	29	150
IES2-13X200	13	21.7	26	12.5	29	200
IES2-13X250	13	21.7	26	12.5	29	250
IES2-14X100	14	23	26	15.0	33	100
IES2-14X150	14	23	26	15.0	33	150
IES2-14X200	14	23	26	15.0	33	200
IES2-14X250	14	23	26	15.0	33	250
IES2-17X100	17	26.7	26	17.0	35	100
IES2-17X150	17	26.7	26	17.0	35	150
IES2-17X200	17	26.7	26	17.0	35	200
IES2-17X250	17	26.7	26	17.0	35	250
IES2-19X100	19	29.2	28	19.0	37	100
IES2-19X150	19	29.2	28	19.0	37	150
IES2-19X200	19	29.2	28	19.0	37	200
IES2-19X250	19	29.2	28	19.0	37	250
IES2-21X100	21	31.7	28	19.0	37	100
IES2-21X150	21	31.7	28	19.0	37	150
IES2-21X200	21	31.7	28	19.0	37	200
IES2-21X250	21	31.7	28	19.0	37	250
IES2-22X100	22	33.0	28	19.0	38	100
IES2-22X150	22	33.0	28	19.0	38	150
IES2-22X200	22	33.0	28	19.0	38	200
IES2-22X250	22	33.0	28	19.0	38	250
IES2-23X100	23	34.2	30	22	42	100
IES2-23X150	23	34.2	30	22	42	150
IES2-23X200	23	34.2	30	22	42	200
IES2-23X250	23	34.2	30	22	42	250
IES2-24X100	24	35.5	30	22	42	100
IES2-24X150	24	35.5	30	22	42	150
IES2-24X200	24	35.5	30	22	42	200
IES2-24X250	24	35.5	30	22	42	250
IES2-27X100	27	39.2	30	22	42	100
IES2-27X150	27	39.2	30	22	42	150
IES2-27X200	27	39.2	30	22	42	200
IES2-27X100	27	39.2	30	22	42	250





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)

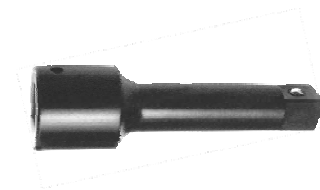
Part No.	Stud Size & Pitch	Stud End. Dia	Drive End Dia	Thread Length	Approx. OAL
ST 3-16	M 16 x 2	30.5	43.0	20	65
ST 3-20	M 20 x 2.5	35.0	43.0	24	75
ST 3-24	M 24 x 3	40.5	45.0	27	80

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	24	10	44
ST2-1/4 B	1/4 BSF	13.7	24	10	44
ST2-5/16 U	5/16 UNF	15.4	24	12	46
ST2-5/16B	5/16 BSF	15.4	24	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	24	10	44
ST2-7	M7x1	14.7	24	10	44
ST2-8X1.25	M8 x 1.25	16.0	24	12	46
ST2-8x1.00	M8x1.00	16.0	24	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
ST2-18X1.5	M18X1.5	28.0	26	24	63
ST2-20X1.5	M20X1.5	30.8	26	24	63

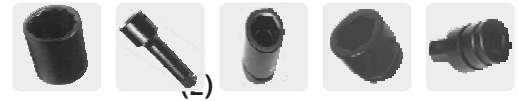


(D)

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





Hex Driver (C)

Part No.	Nom. Size A/F	Socket End. Dia	Bolt Clearance Depth	Hex Drive Size	Approx. OAL
HDO-7/75	7	13.0	20	1/4 (6.35mm)	75
HDO-7/100	7	13.0	20	1/4	100
HDO-7/150	7	13.0	20	1/4	150
HDO-8/75	8	14.0	20	1/4	75
HDO-8/100	8	14.0	20	1/4	100
HDO-8/150	8	14.0	20	1/4	150
HDO-10/75	10	17.0	20	1/4	75
HDO-10/100	10	17.0	20	1/4	100
HDO-10/150	10	17.0	20	1/4	150
HDO-12/75	12	19.0	25	1/4	75
HDO-12/100	12	19.0	25	1/4	100
HDO-12/150	12	19.0	25	1/4	150
HDO-13/75	13	20.3	25	1/4	75
HDO-13/100	13	20.3	25	1/4	100
HDO-13/150	13	20.3	25	1/4	150
HDO-14/75	14	21.5	25	1/4	175
HDO-13/100	14	21.5	25	1/4	100
HDO-14/150	14	21.5	25	1/4	150

Impact Extension Bars (E)

Part No.	Sq. Drive	Head Dia	Shank Dia	Approx. OAL
IEB0-55	1/4	15.0	8.3	55
IEB0-100	1/4	15.0	8.3	100
IEB0-150	1/4	15.0	8.3	150
IEB1-75	3/8	21.0	12.6	75
IEB1-150	3/8	21.0	12.6	150
IEB1-300	3/8	21.0	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	83.0	380
IEB6-510	2 1/2"	127.0	83.0	510



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"	43.0	57
ISA2-3	1/2"	3/4"	28.0	50
ISA3-4	3/4"	1"	43.0	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



(G)



(H)

SQUARE DRIVE ADAPTORS (H)

Part No.	Sq. Dr. Female	Sq. Dr. Male	Drive End Dia	Approx. OAL
SAO-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"	38.0	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



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

Part No.	Nom. Size A/F	Drive End. Dia	Hex Bit. Length	Approx. OAL
IHA2-1/4	1/4	24.0	15	55
IHA2-5/16	5/16	24.0	15	55
IHA2-3/8	3/8	24.0	15	55
IHA2-1/2	1/2	26.0	15	62
IHA2-9/16	9/16	26.0	15	62
IHA2-5/8	5/8	26.0	15	62



(F)

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

Part No.	Nom. Size A/F	Drive End. Dia	Hex Bit. Length	Approx. OAL
IHA2-6	6	24.0	15	55
IHA2-8	8	24.0	15	55
IHA2-10	10	24.0	15	55
IHA2-12	12	26.0	15	62
IHA2-12	12	26.0	15	62
IHA2-14	14	26.0	15	62
IHA2-17	17	27.0	15	62
IHA2-19	19	27.0	15	62

**3/8" Sq. Impact Drive Hex
Adaptor (METRIC) (F)**

Part No.	Nom. Size A/F	Drive End. Dia	Hex Bit. Length	Approx. OAL
IHA1-3	3	20.0	15	44
IHA1-4	4	20.0	15	44
IHA1-5	5	20.0	15	47
IHA1-6	6	20.0	15	49
IHA1-8	8	21.0	15	49

Hex Adaptors in 1/4", 3/8", 3/4" and 1" Sq. Drive are also available

**3/4" Sq. Impact Drive Hex
Adaptor (METRIC) (F)**

Part No.	Nom. Size A/F	Drive End. Dia	Hex Bit. Length	Approx. OAL
IHA3-12	12	44.0	20	80
IHA3-14	14	44.0	20	80
IHA3-17	17	44.0	20	90
IHA3-19	19	44.0	20	95
IHA3-22	22	45.0	20	95
IHA3-24	24	45.0	20	100

**1" Sq. Impact Drive Hex
Adaptor (METRIC) (F)**

Part No.	Nom. Size A/F	Drive End. Dia	Hex Bit. Length	Approx. OAL
IHA4-17	17	54.0	25	100
IHA4-19	19	54.0	25	106
IHA4-22	22	54.0	25	112
IHA4-24	24	54.0	25	120
IHA4-27	27	54.0	25	120
IHA4-30	30	54.0	25	120
IHA4-32	32	54.0	25	120
IHA4-36	36	54.0	25	120





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	28	17	22	78
SIS2-19	19	29.2	28	17	22	78
SIS2-21	21	31.7	28	17	22	78
SIS2-22	22	33.0	28	19	24	80
SIS2-23	23	34.2	28	19	24	80
SIS2-24	24	35.5	28	19	24	80


(I)
(J)


SWIVEL IMPACT JOINT (J)

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


(K)

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"	28.0	78
UJ3	3/4"	43.0	110
UJ4	1"	63.0	158

SLIDING T HANDLE (L)

Part No.	Sq. Dr.	Head Dia	Head Depth	Handle Dia	Approx. OAL
TH0	1/4"	14.0	26	7.0	125
TH1	3/8"	20.0	32	9.0	250
TH2	1/2"	26.0	46	12.7	300
TH3	3/4"	41.0	65	20.0	500
TH4	1"	48.0	80	28.0	750
TH5	1 1/2"	74.0	118	35.0	925
TH6	2 1/2"	116.0	145	40.0	925

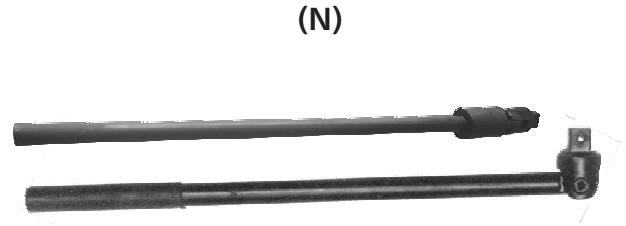

(L)



(O)

REVERSIBLE RATCHETS (O)

Part No.	Sq. Dr.	Head Width	Head Depth	Approx. OAL	Gear Action
RH1	3/8"	48.0	13	180	20
RH2	1/2"	48.0	19	260	24
RH3	3/4"	64.0	28	605	32
RH4	1"	80.0	37	885	30



(N)

SWIVEL HANDLES (N)

Part No.	Sq. Dr.	Head Dia	Head Depth	Approx. OAL
SH0	1/4"	14.0	25	150
SH1	3/8"	23.0	36	250
SH2	1/2"	29.0	44	360
SH3	3/4"	43.0	62	580
SH4	1"	48.0	92	815



(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"	20.0	300
AH4	1"	28.0	350

(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

SLUGGING WRENCH (OFFSET) (R)

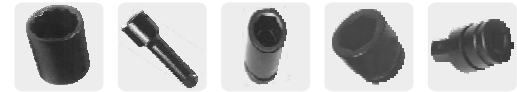
Part No.	Nom. A/F	Head Dia	Head Depth	Approx. OAL
SW-24	24 mm	43.0	16.0	270
SW-27	27 mm	43.0	16.0	270
SW-30	30 mm	50.0	19.0	280
SW-32	32 mm	50.0	19.0	280
SW-36	36 mm	55.0	22.0	300
SW-38	38 mm	62.0	25.0	310
SW-41	41 mm	62.0	25.0	310
SW-46	46 mm	69.0	28.0	320
SW-50	50 mm	74.0	32.0	330
SW-55	55 mm	81.0	34.0	350
SW-60	60 mm	88.0	36.0	360

Slugging Wrenches in American Sizes are also available.



(R)




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


(S)
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


(T)
SLUGGING WRENCH (STRAIGHT) (T)

Part No.	Nom. A/F	Head Thickness	Head Dia	Approx. OAL
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

Slugging Wrenches in American Sizes are also available.

(U)

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



MAC MASTER is the torque equipment manufacturer to be able to offer tool calibration services to the original factory standard. The company has grown from strength to strength and design, development and production of torque tightening equipment. MAC MASTER remain every bit as passionate about providing customers with high quality, value for money products and services.

MAC MASTER quality assurance system has been certified to internationally recognised standards. National Award Winner of Small Scale Industries by Govt. of India was awarded in the 2005. MAC MASTER is an ISO 9001 : 2000 Co. Most importantly, through continuous improvement, MAC MASTER is dedicated to providing products and services that we are proud of.

All Mac Master Torque Wrenches are Calibrated on Electronic Torque Tester to an accuracy of $\pm 5\%$ as laid down in IS 7145-1973,. The Torque tester Calibrated by force proving instrument and the Force Proving Instrument is certified by 'NABL' New Delhi. The Mac Master, Torque Wrenches are warranted against any manufacturing defects.

The Production Type Torque Wrenches, Open Jaw Torque Wrenches & Special Torque Wrenches can also be supplied against specific order.



SPECIFICATION OF STANDARD CLICK TYPE TORQUE WRENCH

Model No.	TORQUE RANGE						Squqre Drive	OAL at Min Capacity	Head Width	Head Depth (with Bit)	Weight Appx. (Kgs)
	lbt. ft.		N.m		Kgf. m						
	Range	LC	Range	LC	Range	LC					
TW 10	2-10	0.5	3-14	0.5	0.3-1.4	0.1	3/8	315	25	35	0.5
TW 25	5-25	1	5-35	2	0.5-3.5	0.2	3/8	340	25	35	0.6
TW 50	8-50	2	12-68	2	1-7	0.2	1/2	460	30	42	1.0
TW 100	20-100	2	25-135	5	3-14	0.5	1/2	560	32	49	1.70
TW 160	40-160	5	50-220	5	5-23	1	1/2	580	32	52	2.20
TW 250	50-250	5	70-340	10	7-35	1	1/2	785	32	52	2.60
TW 400	100-400	10	135-540	15	14-56	1	3/4	1010	48	62	6.200
TW 500	100-500	10	135-675	15	14-70	2	3/4	1060	48	62	6.80
TW 600	145-605	10	200-815	15	20-84	2	3/4	1060	48	62	6.90
TW 750	350-750	20	475-1015	20	49-105	2	3/4	1250	56	72	11.6
TW 750S	350-750	20	475-1015	20	49-105	2	1	1250	61	82	12.6
TW 1000	400-1000	20	540-1380	40	55-140	5	1	1300	70	82	13.5
TW 1400	750-1400	25	1000-1900	50	105-195	5	1	1420	70	82	15.0
TW 2000	1000-2000	50	1350-2700	50	135-275	5	1	1510	70	82	22.0

LC = Least Count

