



Industrial Productivity Solutions



Quality and performance on the toughest jobs

GRINDERS



M2 SERIES LUBE FREE GRINDERS (1 hp)

Model	 rpm	 Output	 Type	 kg	 mm	 Height over spindle end mm	 Air flow on load / no load (L/s)
M2 SERIES ANGLE GRINDERS							
M2A090RP95	9,000	M14 THD	Wire Brush-5" max	1.62	236	86	19.8/10.4
M2A120RG4	12,000	Collet (6mm & 1/4")	Burr	1.62	227	83	19.8/8.0
M2 SERIES STRAIGHT GRINDERS							
M2H180RG4	18,000	Collet (6mm & 1/4")	Burr	0.77	213	NA	19.8/6.6
M2H200RG4	20,000	Collet (6mm & 1/4")	Burr	0.77	213	NA	19.8/8.0
M2 SERIES EXTENDED STRAIGHT GRINDERS							
M2X180RH63	18,000	3/8"-24 THD	3"x1/2" wheel-Type 1	1.48	339	NA	19.8/6.6
M2X075RG4	7,500	Collet (6mm & 1/4")	Sanding drum (Mounted)	1.35	304	NA	19.8/11.8
M2 SERIES EXTENDED ANGLE SANDERS							
M2L055RS9	5,500	M14 THD	Sanding pad	1.90	318	91	19.8/11.8
M2L040RS9	4,000	M14 THD	Sanding pad	1.90	318	91	19.8/6.6



REVOLUTION SERIES GRINDERS

Model	 hp	 rpm	 Exhaust	 Output	 kg	 mm	 mm	 mm	 cfm
ANGLE									
312AC4A	0.40	12,000	Rear	1/4" collet	0.55	170	64	19	32
314AC4A	0.33	14,000	Rear	1/4" collet	0.55	170	64	19	30
320AC4A	0.40	20,000	Rear	1/4" collet	0.55	170	64	19	32
STRAIGHT									
325SC4A	0.40	25,000	Rear	1/4" collet	0.43	166	NA	19	32
330SC4A	0.33	30,000	Rear	1/4" collet	0.43	166	NA	19	30
335SC4A	0.37	35,000	Rear	1/4" collet	0.43	166	NA	19	30
EXTENDED									
325XC4A	0.40	25,000	Rear	1/4" collet, 3" extended	0.62	244	NA	19	33
330XC4A	0.33	30,000	Rear	1/4" collet, 3" extended	0.62	244	NA	19	30

Air inlet for all models is 1/4" NPT. All models are rear exhaust. 3/8" air hose recommended.



DIE GRINDERS (STRAIGHT)

Model	Rated Power hp	Free Speed rpm	Weight kg	Length mm	Configuration	Recommended Hose Size mm
GH011A-600-1	0.1	60000	0.07	136	1/8" collet	5
7980-A	0.1	85000	0.40	143	1/8" collet	5
2GLCA20000	0.33	20000	0.60	145	1/4" collet	10
335SG4A	0.37	35000	0.59	141	1/4" collet	10
DG18C-A	0.9	18000	1.76	334	1/4" collet	10
DG21C-A	0.9	21000	1.76	334	1/4" collet	10



HORIZONTAL GRINDERS

Model	Rated Power hp	Free Speed rpm	Weight kg	Length mm	Wheel Capacity Dia mm	Wheel Capacity Thickness mm	Recommended Hose Size mm
DG15W-A	0.9	15000	2.02	337	76	12.7	10
DG18W-A	0.9	18000	2.02	337	76	12.7	10



ANGLE GRINDERS

Model	Rated Power hp	Free Speed rpm	Weight kg	Length mm	Wheel Capacity inch	Recommended Hose Size mm	Air Inlet Size
701AGL-7600	1.4	7600	2.8	315	7"	12	1/4" NPT
3445MAX-WI	0.88	12000	1.5	244	4.5"	10	1/4" NPT
345MAX-WI	0.88	12000	1.6	244	5"	10	1/4" NPT

SANDERS & DRILLS



4151-HL



314

SANDERS, POLISHERS & BUFFERS

Model	Free Speed mm	Pad or Wheel Dia/Dim mm	in	Net Weight kg	Overall Length mm	Average Air Cons. cfm	Air Inlet in	Hose Bore mm
SANDERS								
301PS-15000	15000	125	5	2.00	-	21	1/4	12
313A	5000	175	7	1.91	320	8	1/4	10
319A	5000	175	7	2.09	203	6	1/4	10
312A	8000	93	x 170	2.09	181	6	1/4	10
ORBITAL SANDERS								
4151-HL*	12000	150	6	0.87	172	8	1/4	8
310	10000	150	6	2.09	274	4	1/4	10
POLISHERS & BUFFERS								
314A	2500	175	7	1.91	320	8	1/4	10
318A	2800	175	7	2.04	203	6	1/4	10
3129K	6000	76.2	3	0.60	-	19.85	1/4	10

* Jet - VC Conversion Kit (IR -4151 JV)

STRAIGHT HANDLE



2LD-2500-B

Model	Chuck Capacity mm	Motor Power hp	Free Speed rpm	Overall Length mm	Weight kg
1S30MF4	6	0.25	3000	215	0.5
2LD-2500-B	6	0.33	2500	170	0.9
2LD-3800-B	6	0.33	3800	170	0.9
251LD-2000	10	0.55	2000	195	1.1
251LD-3000	10	0.55	3000	195	1.1
2LD-1000-B	10	0.33	1000	205	1.2



7807R

RIGHT ANGLE TYPE

Model	Collet/Chuck Capacity mm	Motor Power hp	Free Speed rpm	Overall Length mm	Weight kg
ILJ1A*	6	0.25	3700	221	0.5
ILL1A1*	6	0.25	2700	234	0.5
7807R	10	0.30	1800	206	1.1

*Collet type (order collet separately)

PISTOL TYPE



2PD-2500



7811KC

Model	Chuck Capacity mm	Motor Power hp	Free Speed rpm	Overall Length mm	Weight kg
IP38ST4	6	0.25	3800	168	0.6
1AL1	6	0.25	2800	168	0.6
1P09ST4	6	0.25	900	181	0.7
1P06ST4	6	0.25	600	181	0.7
2PD-2500	6	0.33	2500	160	1.0
2PD-3800	6	0.33	3800	160	1.0
2PD-15000	6	0.33	15000	175	1.0
7802A	10	0.50	2000	198	1.09
7802AKC	10	0.50	2000	163	1.13
251PD-2000	10	0.55	2000	185	1.2
251PD-3000	10	0.55	3000	185	1.2
7803A	13	0.50	500	229	1.4
3P-800	13	0.86	800	240	2.3

Reversible Model

Collets for model 2RL(C) : Available from 3.2 mm to 6.3 mm in steps of 0.1 mm

Standard collet : 6 mm

Horse Power at approximately 50% of free speed.

Straight drills also available without lever as 2LDX and 251LDX models.

78 series are also available in reversible model

IMPACT WRENCHES



2925B2Ti



2235TiMAX



212-WI



3955B2Ti



2025MAX

Model	Drive	Handle	Max		Weight	Recommended Hose Size
			rpm	Torque (Nm)	kg	mm
212-WI	3/8" Sq.	P	10200	244	1.3	10
216B	3/8" Sq.	S	8500	271	1.27	10
2115TiMAX	3/8" Sq.	P	15000	407	1.12	10
2115PTiMAX	3/8" Sq.	P	15000	407	1.1	10
2115QTiMAX	3/8" Sq.	P	15000	407	1.13	10
2135PTiMAX	1/2" Sq.	P	9800	1054	1.79	10
2135QTiMAX	1/2" Sq.	P	9800	1054	1.82	10
2125QTiMAX	1/2" Sq.	P	15000	450	1.14	10
2125PTiMAX	1/2" Sq.	P	15000	450	1.14	10
231C	1/2" Sq.	P	8000	813	2.63	10
231HA	1/2" Sq.	P	8000	800	2.63	10
231HA-2	1/2" Sq.	P	8000	800	2.76	10
236	1/2" Sq.	P	7400	610	2.4	10
2025MAX	1/2" Sq.	Angle	7100	244	1.54	10
2235TiMAX	1/2" Sq.	P	8500	1830	2.1	10
2235QTiMAX	1/2" Sq.	P	8500	1830	2.1	10
2235TiMAX-2	1/2", 2" Ext.	P	8500	1830	2.2	10
2235QTiMAX-2	1/2", 2" Ext.	P	8500	1830	2.3	10
259	3/4" Sq.	P	6000	1424	4	10
2145QiMAX	3/4" Sq.	P	7000	1830	3.4	13
261	3/4" Sq.	P	5500	1627	5.62	13
261-3	3/4" Sq.	P	5500	1627	5.9	13
261-6	3/4" Sq.	P	5500	1627	6.21	13
2920B9	3/4" Sq.@90°	Grip I.T	5000	746	10.75	13
2155QiMAX	1" Sq.	P	7000	1830	3.4	13
2190Ti	1" Sq.	S	7000	2237	6.4	13
2190Ti-6	1" Sq.	S	7000	2237	6.4	13
2925B2Ti	1" Sq.	Grip I.T	6500	2169	6.89	13
2925P3Ti	1" Sq.	P	5200	1966	5.54	13
2940B2	1" Sq.	Grip I.T	5000	2710	9.98	19
2940P2	1" Sq.	P	4000	2710	10.4	19
2934B9	1" Sq.@90°	Grip I.T	5300	1017	16.2	19
2950B7	1-1/2" Sq.	Grip I.T	3750	4067	14.8	19
5980A1	1-1/2" Sq.	Lever	830	13560	39.9	25
3955B2Ti	1-1/2" Sq.	Grip I.T	2750	6779	15.7	19
588A1	2-1/2" Sq.	Lever	355	67800	97.5	25

Please contact IR for further details on Pneumatic Impact Wrenches

SAWS & AIR HAMMER



AVC10A1



AVC12A1



AVC13A1



Model	1 min.	mm	mm	Aluminum mm	Dural & soft iron (mm)	kg	mm	NPTF	mm
STRAIGHT HANDLE									
AVC10C1	3 200	10.2	48	3	3	0.94	172	1/4"	8
PISTOL GRIP HANDLE									
AVC10A1	3 200	10.2	48	3	3	1.28	152	1/4"	8
AVC12A1	2 100	10.2	76	5	5	1.53	197	1/4"	8
AVC13A1	1 725	10.2	101	6	6	1.67	222	1/4"	8
AVC26A1	1 120	12.7	152	10	8	2.30	287	1/4"	13
GOOSENECK HANDLE									
AVC26B1	1 120	12.7	152	10	8	3.20	354	1/4"	13

Model	Shank Opening		Stroke Per min	Blows Per min	Bore Dia mm	Stroke Length mm	Net Weight kg	Overall Length mm	Average Air Cons. cfm	Air Inlet in	Hose Bore mm
	mm	in									
121*	10.1	0.401	-	3000	19	58	1.59	194	3	1/4	10
4429**	-	-	5750	-	-	-	0.74	235	7	1/4	10
2LDR-3800	-	-	-	-	-	-	0.90	160	5	1/4	8
7802SA	-	-	4200	-	-	-	1.27	239	4	1/4	8

* Add suffix K6 for tool with complete kit of chisels (6 Chisel).

** Blade package also available, please contact Ingersoll Rand for details.

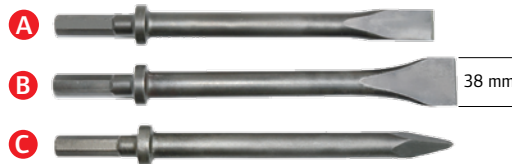
PNEUMATIC PERCUSSIVE TOOLS



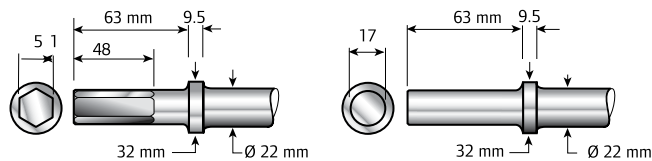
Model	1 min.	mm ⁽¹⁾	mm	mm	kg	mm	NPTF	mm
SA SERIES/PLAIN ARROW RETAINER								
1A2SA	2 500	17 ○	25	29	6.70	394	3/8"	13
2A2SA	2 300	17 ○	51	29	6.88	406	3/8"	13
3A2SA	1 725	17 ○	76	29	7.56	454	3/8"	13
4A2SA	1 480	17 ○	102	29	7.95	480	3/8"	13
1A1SA	2 500	15 ○	25	29	6.70	480	3/8"	13
2A1SA	2 300	15 ○	51	29	6.88	406	3/8"	13
3A1SA	1 725	15 ○	76	29	7.56	454	3/8"	13
4A1SA	1 480	15 ○	102	29	7.95	480	3/8"	13
WA SERIES/RUBBER BUFFERED RETAINER								
W1A2	2 500	17 ○	25	29	6.70	403	3/8"	13
W2A2	2 300	17 ○	51	29	6.88	416	3/8"	13
W3A2	1 725	17 ○	76	29	7.56	489	3/8"	13
W4A2	1 480	17 ○	102	29	7.95	489	3/8"	13
W1A1	2 500	15 ○	25	29	6.70	403	3/8"	13
W2A1	2 300	15 ○	51	29	6.88	416	3/8"	13
W3A1	1 725	15 ○	76	29	7.56	464	3/8"	13
W4A1	1 480	15 ○	102	29	7.954	489	3/8"	13

(1) ○ = Round shank — ◻ = Hexagonal shank.

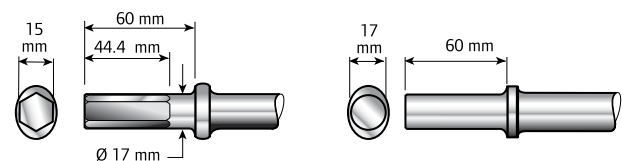
Chisels for W and SA Series chippers



Round collar for rubber buffered retainer (for W Series)



Oval collar for plain arrow retainer (for SA Series)



SCALERS/NEEDLE SCALERS



Model	Weight Less Chisel kg	Length mm	Piston Stroke mm	Bore mm	Blows per Minute	Hose Connector in	Recommended Hose Size mm	cfm
SCALERS								
125**	2.83	465	28.7	25	4600	1/4	8	15
172L*	1.69	194	14	24	5500	1/4	8	12
182L*	1.84	229	27	24	4000	1/4	8	13
NEEDLE SCALERS								
172LNA1	2.38	349	14	24	5500	1/4	8	12
182LNA1	2.61	381	27	24	4000	1/4	8	13
PISTOL GRIP SCALERS								
170PG	3.0	314	36	24	3000	1/4	8	5.5
180PG	4.0	343	39	29	2200	1/4	8	8
170PG-CS*	2.5	315	36	24	3000	1/4	8	5.5
180PG-CS*	3.0	315	39	29	2200	1/4	8	8

* Throttle is lever type

** For Chisel Scaler use model 125CI

1/2" Square shank is standard on both units (5/8 hex is optional for the 180 PG-CS)

For Needle Scalers kit, please order 182K1 comprising 182L scaler, set of 19 needles (5" & 7" long), one (angle, straight, flat) chisel and vinyl carrying case.

SCREWDRIVERS

Ingersoll Rand dominates the industry with the most comprehensive range of pneumatic screwdrivers. Shut-off, slip & positive clutch models are offered in different speeds in straight, pistol grip and right angle configurations.

The auto shut off range is recommended for applications requiring torque consistency. Shut off tools also minimise component breakage during fastening of fragile plastic & bakelite components.

Auto start screwdrivers minimise operator fatigue, allow faster operations and reduce air consumption.

Right-angle screwdrivers have been designed for applications with limited access and are more comfortable on high torque applications.



1RPNS1-WI



41SA10PSQ4-WI



QS1L02S1



1RLNC1/WI



1RLN2S3-WI

Model	Torque Range Nm	Free Speed rpm	Overall Length mm	Body Diameter mm	Weight kg	Average Air Cons. cfm*
-------	-----------------	----------------	-------------------	------------------	-----------	------------------------

AUTO SHUT OFF SCREWDRIVERS

Straight Handle

Auto Start

1RPLS1-WI	0.4 - 1.45	2800	-	28	0.50	1.6
1RPM51-WI	0.28 - 2.30	1650	223	28	0.50	1.6
1RPNS1-WI	0.17 - 3.40	1000	223	28	0.50	1.6
IRPQS1-WI	0.15 - 5.10	500	-	28	0.50	1.6
41SA17PSQ4-WI	1.70 - 7.00	1700	277	40	1.20	6.0
41SA10PSQ4-WI	1.70 - 9.00	1000	277	40	1.20	6.0

Lever Start

QS1L10S1D	0.30 - 4.50	1000	241	44	0.70	3.2
QS1L02S1D	0.30 - 5.40	250	241	44	0.70	3.2

Pistol Type

Auto Start

QP1P10S1D	0.30 - 4.50	1000	224	30	0.84	3.2
QP1P05S1D	0.30 - 5.40	500	224	30	0.84	3.2
41PA16PSQ4-WI	1.70 - 6.80	1600	249	44	1.36	5.6
41PA8PSQ4-WI	1.70 - 11.30	800	249	44	1.36	5.6

Trigger Start

QP1S10S1D	0.30 - 4.50	1000	224	30	0.84	3.2
41PA16TSQ4-WI	1.70 - 6.80	1600	249	44	1.36	5.6
41PA8TSQ4-WI	1.70 - 11.30	800	249	44	1.36	5.6

Trigger Permit

1RTMS1-WI	0.28 - 2.30	1650	218	34	0.68	1.6
1RTNS1-WI	0.17 - 3.40	1000	218	34	0.68	1.6
1RTQS1-WI	0.17 - 5.10	500	223	34	0.68	1.6

Right Angle Screwdrivers

1RLN2S3-WI	0.20 - 5.30	1/4 Hex	700	318	0.8	1.6
------------	-------------	---------	-----	-----	-----	-----

CUSHION CLUTCH SCREWDRIVERS

Straight Handle

Auto Start

1RPNC1-WI	0.17 - 3.40	1000	223	28	0.48	1.6
1RPMC1-WI	0.28 - 2.30	1650	223	28	0.48	1.6
41SC17PSQ4-WI	1.10 - 6.80	1700	277	40	1.36	4.0
41SC10PSQ4-WI	1.10 - 9.00	1000	277	40	1.36	4.0

Lever Start

1RLNC1/WI	1.70 - 3.40	1000	233	28	0.50	1.6
-----------	-------------	------	-----	----	------	-----

Pistol Type

Trigger Start

1RAMC1-WI	0.28 - 2.30	1650	218	34	0.68	1.6
1RANC1-WI	0.17 - 3.40	1000	218	34	0.68	1.6

Auto Start

41PC16PSQ4-WI	1.70 - 6.80	1600	249	44	1.36	5.6
41PC8PSQ4-WI	1.70 - 11.30	800	249	44	1.36	5.6

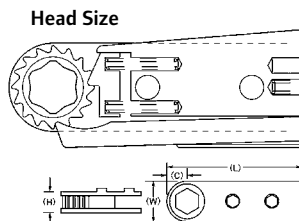
20% of air consumption at full load.

41 series screwdrivers are also available with finder type bit holders.

	Air Inlet	Hose Bore
1	1/8" NPT	6 mm
41 & 7672	1/4" NPT	8 mm

	Air Inlet	Hose Bore
Q	1/4" NPT	6 mm
22 & 2	1/4" BSP	8 mm

RATCHET WRENCHES



Model	H		W		L		C	
	mm	in	mm	in	mm	in	mm	in
URW-6,68,68R	13.0	33/64	20.0	25/32	88.0	3 15/32	10.0	25/64
URW-8,8N,9N,88,88R,81,81R	18.0	45/64	25.0	63/64	102.5	4 1/32	12.5	31/64
URW-10N	18.0	45/64	33.0	19/64	106.5	4 3/16	16.5	21/32
URW-12N	18.0	45/64	36.0	127/64	109.5	4 5/16	18.0	45/64
URW-12NA	18.0	45/64	46.0	1 13/16	120.5	4 3/4	23.0	29/32
URW-12NB	18.0	45/64	54.0	2 1/8	128.5	5 1/16	27.0	1 1/16

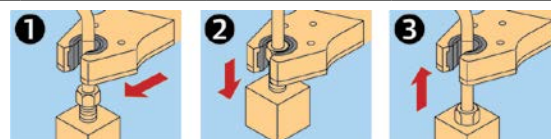
Recommended Air Pressure: 0.4MPa (57psi)

Model	Capacity (Nominal Bolt Size)		Max. Torque (0.4 MPa)		Free Speed (about)	Overall Length (about)		Weight (about)		Hex Size of Ratchet Wrench		Average Air Consumption	
	mm	in	Nm	ft-lbs		mm	in	kg	lb	mm	in	m³/min	ft³/min
URW-6	6	1/4	11	8.1	200	292	11 1/2	1.15	2.54	6, 7, 8, 10, 11, 12	1/4, 5/16, 3/8, 7/16	0.28	9.9
URW-60, 60R	6	1/4	11	8.1	200	288	11 11/32	1.15	2.54	6, 7, 8, 10, 11, 12	1/4, 5/16, 3/8, 7/16	0.28	9.9
URW-8N	8	5/16	16	11.8	220	300	11 13/16	1.9	4.18	7, 8, 9, 10, 11, 12, 13, 14, 15	7/16, 1/2, 9/16	0.55	19.5
URW-80, 80R	8	5/16	16	11.8	220	300	11 13/16	2.25	4.96	7, 8, 9, 10, 11, 12, 13, 14, 15	7/16, 1/2, 9/16	0.55	19.5
URW-81.81R	8	5/16	16	11.8	220	300	11 13/16	2.25	4.96	7, 8, 9, 10, 11, 12, 13, 14, 15	7/16, 1/2, 9/16	0.55	19.5
URW-8	8	5/16	16	11.8	240	360	14 3/16	2.25	4.96	7, 8, 9, 10, 11, 12, 13, 14, 15	7/16, 1/2, 9/16	0.56	19.8
URW-9N	10	3/8	31	22.9	200	380	15	2.35	5.18	7, 8, 9, 10, 11, 12, 13, 14, 15	7/16, 1/2, 9/16	0.67	23.7
URW-10N	10	3/8	57	42.2	150	394	15 33/64	2.65	5.83	18, 12, 13, 14, 15, 16, 17, 18, 19	9/16, 5/8, 11/16, 3/4	0.7	25
URW-12N	13	1/2	59	43.7	150	397	15 5/8	2.7	5.94	12, 14, 16, 17, 18, 19, 21, 22, 23	3/8, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16	0.7	25
URW-12NA	14	9/16	78	57.7	100	408	16 1/16	2.8	6.17	17, 18, 19, 21, 22, 23, 24, 26, 27	11/16, 3/4, 15/16	0.7	25
URW-12NB	16	5/8	93	68.8	85	416	16 19/64	2.9	6.39	24, 29, 30, 32	5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1-1/8	0.7	25

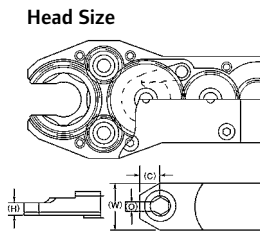
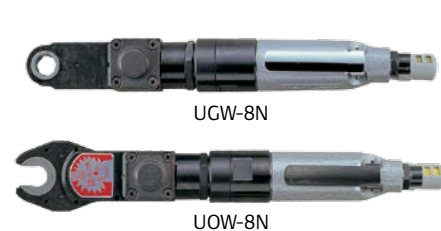
Air Inlet Thread (Pipe Tap): NPT1/4"

Air Hose Size (Inside Diameter): 9.5mm (3/8")

Specify Hex. size when ordering. Max Torque is a guideline



OPEN-END/GEARED WRENCHES



Model	H		W		O		C	
	mm	in	mm	in	mm	in	mm	in
UOW-11-10,UOW-T60-10	14.0	35/36	37	1 29/64	5.0-6.0	13/64-15/64	10.0	25/64
UOW-11-14,UOW-T60-14	14.0	35/36	40	1 37/64	6.0-9.0	15/64-23/64	13.0	25/64
UOW-11-22,UOW-T60-22	16.0	5/8	56	2 13/64	13.0-15.0	33/64-19/32	17.0	43/64
UOW-11-30,UOW-T60-30	16.0	5/8	68	2 43/64	15.0-23.0	19/32-29/32	21.0	53/64

Recommended Air Pressure: 0.6MPa (85psi)

Model	Max. Torque/Range		Free Speed (about)	Overall Length (about)		Weight (about)		Hex Size of Ratchet Wrench		Average Air Consumption	
	Nm	ft-lbs		mm	in	kg	lb	mm	in	m³/min	ft³/min
UOW-11-10	13	9.6	400	295	11 47/64	1.5	3.31	7, 8, 9, 10, 11, 12	1/4, 5/16, 3/8, 7/16	0.35	12.5
UOW-11-14	16	11.8	260	311	12 1/4	1.6	3.52	10, 11, 12, 13, 14, 15, 16, 17	7/16, 1/2, 9/16, 5/8	0.35	12.5
UOW-11-22	24	17.8	180	326	12 53/64	1.75	3.85	11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24	7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8	0.35	12.5
UOW-11-30	32	23.7	135	347	13 21/32	2	4.4	14, 17, 18, 19, 23, 24, 26, 27, 29, 30, 32, 36	5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1-1/8, 1-3/16	0.35	12.5
UOW-T60-10	4-14	3.0-10.4	300	370	14 5/8	2.1	4.62	7, 8, 9, 10, 11, 12	1/4, 5/16, 3/8, 7/16	0.5	18
UOW-T60-14	5-17	3.7-12.6	230	385	15 1/8	2.2	4.85	10, 11, 12, 13, 14, 15, 16, 17	7/16, 1/2, 9/16, 5/8	0.5	18
UOW-T60-22	7-24	5.2-17.8	170	400	15 3/4	2.35	5.18	11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24	7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8	0.5	18
UOW-T60-30	10-32	7.4-23.7	130	420	16 5/8	2.6	5.73	14, 17, 18, 19, 23, 24, 26, 27, 29, 30, 32, 36	5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, M/8, 1-3/16	0.5	18
UGW-6N	18	13.3	530	310	12 13/64	1.4	3.08	9, 10, 11, 12		0.63	22
UGW-8N	23	17	410	322	12 11/16	1.45	3.19	10, 12, 13, 14, 17		0.63	22

Air Inlet Thread (Pipe Tap): NPT1/4". Air Hose Size (Inside Diameter): 9.5mm (3/8"). Specify Hex. size when ordering. Max Torque is a guideline.

IQ^V SERIES CORDLESS TOOLS



Specifications	W7150	W7250 2" ext.	W5150	W5151P
Battery	BL2010	BL2010	BL2005	BL2010
Drive	1/2"	1/2"	1/2"	1/2"
Max Torque	780 ft-lb (1057 Nm)	780 ft-lb (1057 Nm)	180 ft-lb (245 Nm)	160 ft-lb (215 Nm)
Blows per Minute	2,300 (bpm)	2,300 (bpm)	2,900 (bpm)	2,800 (bpm)
Maximum Free Speed	1,900 rpm	1,900 rpm	1,700 rpm	1,900 rpm
Length	9.4" (238 mm)	11.2" (285 mm)	6.6" (162 mm)	6.1" (154 mm)
Weight with Battery	6.8 lb (3.1 kg)	6.9 lb (3.1 kg)	3.6 lb (1.6 kg)	3.5 lb (1.6 kg)
Sound Level († Pressure, L _p)	89 dbA	89 dbA	91 dbA	86 dbA



Specifications	W5111	W5131P	W5130
Battery	BL2005	BL2010	BL2005
Drive	1/4" hex	1/4" hex	3/8" square
Max Torque	160 ft-lb (215 Nm)	175 ft-lb (240 Nm)	180 ft-lb (245 Nm)
Blows per Minute	2,800	2,800	2,900
Max Free Speed	1,900 rpm	1,900 rpm	1,700 rpm
Length	6.0" (152 mm)	5.9" (150 mm)	6.6" (162 mm)
Weight with Battery	3.5 lb (1.6 kg)	3.5 lb (1.6 kg)	3.6 lb (1.6 kg)
Sound Level († Pressure L _p)	86 dbA	86 dbA	91 dbA



Specifications	D5140
Battery	BL2010
Chuck Capacity	1/2" (13 mm)
Free Speed (rpm)	0 - 1,900 High 0 - 500 Low
Length	9.3" (235 mm)
Weight with Battery	5.4 lb (2.45 kg)
Max Stall Torque	700 in-lbs (80 Nm)

Kits also available with (Example: W7150-K2)
 (Model Number)-K1 will include one battery + one charger + one tool
 (Model Number)-K2 will include two battery + Once Charger + one tool

BATTERY AND CHARGERS

IQ^{V20} Series 20V
 Battery Charger
BC1120

IQ^{V20} Series 20V, 3.0Ahr
 Lithium-Ion Battery Pack
BL2010

IQ^{V20} Series 20V, 1.5Ahr
 Lithium-Ion Battery Pack
BL2005



ENGINE STARTER & BARRING MOTORS



Turbine Starter



Vane Starters



Gas Turbine Starters



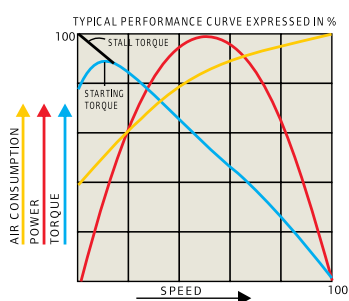
Barring Motors

AIR MOTORS

Performance figures are at 620 kPa (90 psi)



202M-350



Model	Length mm	Weight kg	Max Power hp	Free Speed* rpm	Speed At Max Power rpm	Torque At Max Power Nm	Stall Torque Nm
Non-Reversible, Flange Mounted							
202M-50	190	1.3	0.38	55	25*	119.2*	177.5*
202M-200	190	1.3	0.41	225	110	26.7	51.5*
202M-350	160	1.0	0.41	400	200	14.7	30.5
202M-850	160	1.0	0.43	1000	500	6.1	12.9
202M-2250	135	0.7	0.43	2700	1350	2.3	4.7
3M-240	190	1.8	0.83	270	135	43.9	84.0
3M-800	190	1.8	0.86	950	475	12.9	23.0
Reversible, Flange Mounted							
2202M-320	150	0.9	0.36	350	175	14.7	27.1
2202M-480	150	0.9	0.37	550	275	9.7	17.6
33M-220	190	1.8	0.72	220	110	46.6	65.7
33M-405	190	1.8	0.74	425	210	24.8	36.0
33M-720	190	1.8	0.75	750	317	14.2	19.9

* For Safe working limit maximum torque to 33Nm. Starting Torques are approx. 75% of stall torques

92RA SERIES



Air Motor 92 RA

Model	Max. Power		Speed at Max. Power	Free Speed*	Starting Torque		Stall Torque		Air Consumption at Max. Power		Weight	
	hp	kW	rpm	rpm	lb.-ft.	Nm	lb.-ft.	Nm	scfm	m³/m	lb.	kg
Reversible												
92RA005	8.15	6.08	910	1390	56	759	75.9	102	230	6.51	46	20.9
92RA008	8.15	6.08	620	1296	80	109	109	148	230	6.51	46	20.9
92RA011	8.15	6.08	415	852	120	163	164.5	223	230	6.51	46	20.9
92RA014	8.15	6.08	327	682	152	206	208	282	230	6.51	46	20.9
92RA017	8.15	6.08	274	571	180	244	248	336	230	6.51	46	20.9
92RA022	8.15	6.08	209	435	235	319	326	442	230	6.51	46	20.9
92RB029	7.9	5.89	160	327	280	380	402	545	225	6.37	78	35.4
92RB036	7.9	5.89	130	264	345	468	497	674	225	6.37	78	35.4
92RB045	7.9	5.89	103	210	440	597	626	849	225	6.37	78	35.4
92RB078	7.9	5.89	59	120	770	1044	1090	1478	225	6.37	78	35.4

4800 SERIES



Air Motor 4840

Model	Max. Power		Speed at Max. Power	Free Speed*	Starting Torque		Stall Torque		Air Consumption at Max. Power		Weight	
	hp	kW	rpm	rpm	lb.-ft.	Nm	lb.-ft.	Nm	scfm	m³/m	lb.	kg
Reversible												
4840D	3.3	2.46	4550	9100	5.2	7	6.9	94	95	2.69	15 1/4	6.92
4840K	3.2	2.39	711	1429	32	43.4	42.7	57.9	95	2.69	15 1/4	6.92
4840M	3.2	2.39	485	975	47.3	64	63	85.4	95	2.69	15 1/4	6.92
4840N	3.2	2.39	336	675	67.7	91.7	90.2	122	95	2.69	15 1/4	6.92
4840P	3	2.24	228	475	93	126	125	170	95	2.69	20 1/8	9.13
4840Q	3	2.24	167	350	123	167	165	224	95	2.69	20 1/8	9.13
4840S	3	2.24	125	255	161	218	215	292	95	2.69	20 1/8	9.13
4840U	3	2.24	83	170	225	305	300	407	95	2.69	20 1/8	9.13

ALL models must be operated with sufficient load to prevent speed from exceeding maximum allowable speed shown on performance curve.

TOHNICHI TORQUE WRENCH



DB

Dial Indicating Torque Wrench



DB12N4



DB100N

S.I. Model	Torque Range [N·m/kN·m]		Metric Model	Torque Range [kgf·cm/kgf·m]		American Model	Torque Range [lbf·in/lbf·ft]		Overall Length [mm]	Square Drive [mm]	Weight [kg]
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.			
				kgf·cm	kgf·cm		lbf·in	lbf·in			
DB1.5N4-S	0.2-1.5	0.02	15DB4-S	2-15	0.2	DB13I-2AS	0-13	0.2	205	6.35	0.4
DB3N4-S	0.3-3	0.05	30DB4-S	3-30	0.5	DB26I-2AS	0-26	0.5	205	6.35	
DB6N4-S	0.6-6	0.1	60DB4-S	6-60	1	DB40I-2AS	0-40	0.5	205	6.35	
DB12N4-S	1-12	0.2	120DB4-S	10-120	2	DB75I-2AS	0-75	1	205	6.35	
DB25N-1/4-S	3-25	0.5	230DB3-1/4-S	30-250	5	DB150I-2AS	0-150	2	245	6.35	0.6
DB25N-S	3-25	0.5	230DB3-S	30-250	5	DB150I-3AS	0-150	2	245	9.5	
DB50N-S	5-50	0.5	450DB3-S	50-500	5	DB300I-3AS	0-300	5	320	9.5	
DB100N-3/8-S	5-50	1	900DB3-3/8-S	50-500	10	DB600I-3AS	0-600	10	400	9.5	0.7
DB100N-S	5-50		900DB3-S	50-500	10	DB600I-4AS	0-600	10	400	12.7	
-	-	-	-	-	-		lbf·ft	lbf·ft			
						DB25F-3AS	0-25	0.5	320		0.6
						DB50F-3AS	0-50		400		0.7
						DB50F-4AS					
DB200N-S	20-200	2	1800DB3-S	200-2000	20	DB100F-4AS	0-100	1	500	12.7	1.0
				kgf·m	kgf·m						
-	-	-	-	-	-	DB175F-4AS	0-175	2	540	12.7	1.0
DB280N-1/2-S	30-280	5	2800DB3-1/2-S	3-28	0.5	-	-	-	690	12.7	1.65
DB280N-S	30-280	5	2800DB3-S	3-28	0.5	DB250F-6AS	0-250	5	690	19.0	1.65
DB420N-S	40-420	5	4200DB2-S	4-42	0.5	DB350F-6AS	0-350	5	890	19.0	2.5

1. "Without memory pointer" models are available. Remove "-S" from the model name when ordering. (Ex. DB100N)
2. DBR models require winch or mechanical loading device.
3. DBR models are supplied upon request.
4. For models having over 25.4mm square drive, use with a through-hole socket.
5. Accuracy of American models is warranted from 20% of max. torque.

QL/QL2

Ratchet Head Type Adjustable Torque Wrench



QL5N



QLE750N2



QL100N4

Accuracy ±3%

S.I. Model	Torque Range [N·m]		Metric Model	Torque Range [kgf·cm/kgf·m]		American Model	Torque Range [lbf·in/lbf·ft]		Overall Length [mm]	Square Drive [mm]	Weight [kg]
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.			
QL	N-m	N-m		kgf·cm	kgf·cm		lbf·in	lbf·in			
QL2N	0.4-2	0.02	20QL	4-20	0.2	QL15I-2A	3-15	0.1	194	6.35	0.27
QL5N	1-5	0.05	50QL	10-50	0.5	QL30I-2A	6-30	0.2	194	6.35	0.27
QL10N	2-10	0.1	100QL	20-100	1	QL50I-2A	10-50	0.5	219	6.35	0.29
QL15N	3-15	0.1	150QL	30-150	1	QL100I-2A	20-100	0.5	219	6.35	0.29
QL25N5-1/4	5-25	0.2	225QL5-1/4	50-250	2.5	QL200I-2A	50-200	2.5	237	6.35	0.33
QL25N5	5-25	0.2	225QL5	50-250	2.5	QL200I-3A	50-200	2.5	237	9.53	
QL50N	10-50	0.5	450QL3	100-500	5	QL400I-3A	100-400	5	260	9.53	0.45
-	-	-	-	-	-	QL750I-3A	150-750	10	335	9.53	0.69
							lbf·ft	lbf·ft			
QL100N4-3/8	20-100	1	900QL4-3/8	200-1000	10	QL75F-3A	15-75	1	335	9.53	0.69
QL100N4	20-100	1	900QL4	200-1000	10	-	-	-	335	12.7	0.69
QL140N	30-140	1	1400QL3	300-1400	10	QL100F-4A	30-100	1	400	12.7	0.88
QL200N4	40-200	2	1800QL4	400-2000	20	QL150F-4A	30-150	2	490	12.7	1.4
				kgf·m	kgf·m						
QL280N-1/2	40-280	2	2800QL3-1/2	4-28	0.2	QL200F-4A	30-200	2	695	12.7	2.0
QL280N	40-280	2	2800QL3		0.2	-	-	-	695	19.05	2.0
QL420N	60-420	2	4200QL2	6-42	0.2	QL300F-6A	60-300	2	995	19.05	3.4
QLE2	N-m	N-m		kgf·m	kgf·m		lbf·ft	lbf·ft			
QLE550N2	100-550	5	5500QLE2	10-55	0.5	QLE400F-6A	100-400	5	1189	19.05	4.3
QLE750N2	150-750	5	7500QLE2	15-75	0.5	QLE600F-6A	150-600	5	1342	19.05	5.6
QLE1000N2	200-1000	5	10000QLE2	20-100	0.5	QLE700F-8A	200-700	5	1515	25.4	7.7
QLE1400N2	300-1400	10	14000QLE2	30-140	1	QLE1000F-8A	300-1000	10	1787	25.4	11.1
QLE2100N2	500-2100	10	21000QLE2	50-210	1	QLE1500F-8A	500-1500	10	1895	25.4	14.6
QLE2800N2	800-2800	20	28000QLE2	80-280	2	QLE2000F-12A	600-2000	20	2405	38.1	23.7

1. QL2N-QL25N5 are yellow/black resin grips. QL50N-QL280N are black resin grips.
2. QL420N and QLE550N2-QLE2800N2 are knurled handles.
3. QLE2800N2 has 25.4mm square drive, use a through-hole socket.

CEM/CPT DIGITAL TORQUE WRENCH

CEM3-G

DATA TORK

(Digital Torque Wrench)



CEM100N3x15D-G



CEM20N3x10D-G



CEM850N3x32D-G

Model	N-m		kgf-crn		Torque Range kgf-m		lbf-in		lbf-ft		Hand Force (N)	Overall Length (mm)	Weight (kg)
	Min.-Max.	1 digit	Min.-Max.	1 digit	Min.-Max.	1 digit	Min.-Max.	1 digit	Min.-Max.	1 digit			
CEM10N3x8D-G	2-10	0.01	20-100	0.1	0.200-1.000	0.001	20.0-90.0	0.1	1.50-7.30	0.01	48.1	212	0.46
CEM20N3x10D-G	4-20	0.02	40-200	0.2	0.400-2.000	0.002	36.0-180.0	0.2	3.00-14.50	0.02	92.2	214	0.47
CEM50N3x12D-G	10-50	0.05	100-500	0.5	1.000-5.000	0.005	100.0-440.0	0.5	7.50-36.00	0.05	196.9	282	0.58
CEM100N3x15D-G	20-100	0.1	200-1000	1	2.00-10.00	0.01	200-880	1	15.0-73.0	0.1	275.5	384	0.63
CEM200N3x19D-G	40-200	0.2	400-2000	2	4.00-20.00	0.02	360-1700	2	30.0-150.0	0.2	428.3	475	0.78
CEM360N3x22D-G	72-360	0.4	720-3600	4	7.2-36.00	0.04	650-3100	4	52.0-260.0	0.4	498.6	713	1.13
CEM500N3x22D-G	100-500	0.5	1000-5000	5	10.00-50.00	0.05	890-4400	5	73.0-360.0	0.5	549.5	949	4.00
CEM850N3x32D-G	170-850	1	-	-	17.0-85.0	0.1	-	-	124-620	1	608	1387	5.14

- Overall length does not include interchangeable head.
- For interchangeable head.
- For infrared data transfer, use with R-DT999
- CEM500N3x22D-G and CEM850N3x32D-G have knurled handles.
- For USB data transfer, use with No. 584 connecting cable (Optional).

Standard Accessories:

- Battery pack/BP-5.
- QH interchangeable head.
- Quick battery charger/BC-3-G (100-240V).

Common Specifications

Display	7 segments LED 4 lines 10mm (Torque value)
	14 segments LCD 3 lines 7mm (Counter)
	7 segments LCD 4 lines 3mm (Clock)
	Battery life indicator (4 steps)
Number of Data Memory	Judgment LED RED/BLUE
	999 (M-2 mode: 99 data)
Communication Functions	RS232C (2400-1 9200bps)
	Serial output corresponding to a USB connector
Power Supply	Ni-MH rechargeable battery
Continuous Use	Approx. 20 hrs with fully charged (8 hours by 1 hour recharging)
Recharging Time	Approx. 3.5 hours
Operation Temperature	0-40 Celsius no condensation
Basic Functions	Peak Hold, Auto memory & resetting, Tightening completion buzzer, Judgment of measured data, Auto zero setting, Auto off (3 minutes), Clock

CPT-G

PRO TORK (Digital Torque Wrench for Tightening)



CPT50x12D-G



CPT100x15D-G

Model	N-m		kgf-crn		Torque Range kgf-m		lbf-in		lbf-ft		Overall Length (mm)	Weight (kg)
	Min.-Max.	1 digit	Min.-Max.	1 digit	Min.-Max.	1 digit	Min.-Max.	1 digit	Min.-Max.	1 digit		
CPT20x10D-G	4-20	0.02	40-200	0.2	0.4-2	0.002	36-180	0.2	3-14.5	0.02	280.5	0.63
CPT50x12D-G	10-50	0.05	100-500	0.5	1-5	0.005	100-440	0.5	7.35-36	0.05	282.5	0.65
CPT100x15D-G	20-100	0.1	200-1000	1	2-10	0.01	200-880	1	15-73	0.1	238.5	0.85
CPT200x19D-G	40-200	0.2	400-2000	2	4-20	0.02	360-1700	0.2	30-150	0.2	475.5	1.37
CPT280x22D-G	56-280	0.2	560-2800	2	5.6-28	0.02	500-2400	0.2	42-200	0.2	591.5	1.76

- "Torque Wrench Only" version is provided in basic carton product box and does not include TQH Head, Batteries, Storage Case, or Product Box.
- "Overall Length" does not include the length of interchangeable head TQH.
- "Weight" does not include the weight of interchangeable head TQH and Batteries.
- Approx. 230 different types of interchangeable head are available and sold separately.

Set Models (including Accessories)

Model	Standard Accessory				
	Ratchet Head Model	Sq. Drive (mm)	Battery	Storage Case	Product Box
CPT20X10D-G-SET	TQH10D	9.5	AA Alkaline Battery (2 pcs)	Small	Small
CPT50X12D-G-SET	TQH12D	9.5			
CPT100X15D-G-SET	TQH15D	12.7		Large	Large
CPT200X19D-G-SET	TQH19D	12.7			
CPT280X22D-G-SET	TQH22D	19			



Ingersoll Rand (NYSE:IR) advances the quality of life by creating comfortable, sustainable and efficient environments. Our people and our family of brands—including Club Car®, Ingersoll Rand®, Thermo King® and Trane®—work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; and increase industrial productivity and efficiency. Ingersoll Rand products range from complete compressed air systems, tools and pumps to material handling systems. The diverse and innovative products, services and solutions enhance our customers' energy efficiency, productivity and operations. Ingersoll Rand is a \$13 billion global business committed to a world of sustainable progress and enduring results.



Distributed by:

Ingersoll Rand Technologies and Services Pvt. Ltd.

37-A, Site IV Sahibabad Industrial Area, Ghaziabad - 201010.

Phone : (0120) 438 9200 / 438 9400

Fax : (0120) 438 9444

E-mail : PowerTools.India@irco.com

www.ingersollrandproducts.com/tools

www.ingersollrand.co.in

Customer Support Center 1-800-102-7926

customersupportindia@irco.com

Ingersoll Rand, IR and the IR logo are trademarks of Ingersoll Rand, its subsidiaries and/or affiliates.

Nothing contained on these pages is intended to extend any warranty or representation, expressed or implied, regarding the product described herein. Any such warranties or other terms and conditions of sale of products shall be in accordance with Ingersoll Rand's standard terms and conditions of sale for such products, which are available upon request. Product improvement is a continuing goal at Ingersoll Rand. Designs and specifications are subject to change without notice or obligation.

© 2015 Ingersoll Rand