

Drills



Compact size and excellent power-to-weight ratios distinguish the Ingersoll-Rand line of air drills for production and maintenance applications. Choose from four different series, including the innovative new Q2 Series, with models suited to various levels of precision and capacity. They include pistol-grip, straight, and angle configurations, along with tappers and specific accessories.

A Note About Q2 Series Model Information

Q2 Series tools can be configured with an extensive range of specification options. You will note a Q2 Series Model Builder at the beginning of each product section, outlining how to create all available combinations. They are followed by performance specifications, and then actual model listings for other IR models, including examples of popular Q2 Series choices.

Drills



Ingersoll-Rand drills for production applications all share key features, such as: double row ball bearing construction, which assures a maximum TIR (total inch runout) of .005" for precise, concentric holes. Variable throttle control permits slow speed starting to protect the workpiece, along with high speed running for fast completion.

High Performance Ergonomics

Q2 Series drills offer unprecedented power – made even more powerful by advanced ergonomics, including:

- Contoured rear radius, which provides a comfortable, convenient position for gripping the back of the motor housing
- Compact size
- Lightweight
- Even balance
- Contoured triggers and levers for reduced stress and greater distribution of grip force
- Tease trigger action for smooth starts and excellent control
- Ribbed, soft-grip surfaces molded over composite handles

The Best Power-to-Weight Ratio in the Industry

Q2 Series drills deliver greater power at specific speed ratings than any other competitive offering – and they deliver it in a smaller, lighter package. Your operators will get the job done in less time, with superior quality and ease-of-use. More efficient, high-output motors mean your operators can cover more applications with fewer tools. And speed can be reduced to 50% of free speed to match the job requirements.

Durability and Power Only Ingersoll-Rand Can Deliver

Q2 Series drills offer the durability and performance that has made the Ingersoll-Rand name legendary – and now, better than ever. Simply put, no other drills offer industry-leading ergonomics with this much power and endurance. Q2 Series tools are engineered using the highest-quality designs and manufactured with materials that ensure long life and minimal service requirements. All Q2

Series tools offer best-in-class, lube-free performance, and are designed to deliver excellent results with or without air motor lubrication.



In addition, IR offers the Series 5, 6, and 7 models, all with Skinsulate comfort grip surfaces for enhanced control. Series 5 models produce .4 hp and cover the 900-5000 rpm range, adding reversible pistol-grip models. Series 6 models deliver .51 hp in the 350 to 20,000 rpm range in pistol-grip and lever throttle variations, with easy to service modular design. Cantilever-mounted planetary gears also offer easy accessibility, without the need to press from the gear frame. Series 7 models share these features in pistol-grip configurations, covering the 600-20,000 rpm range with a .75 hp output.



Production angle drills in Series Q2, 5, 6, and 7 provide 360 degree angle head rotation for ideal tool, task, and tool user orientation and throttle position. They cover a 400-6000 rpm range.

The Series 728 models are powerful, economical solutions for general-purpose maintenance applications. They deliver .5 hp and cover a 950-3800 range. In addition, IR offers powerful, accurate tappers for threading holes on-site, as well as lightweight riveters and hammers for related assembly applications.



And...for super duty specialty applications in maintenance or construction, IR offers a complete line of large-configuration low-speed drills and angle drills. These reversible or non-reversible units feature ball bearing support for long life, self-closing throttles and built-in lubricators. Consult your IR representative or distributor for more details on these models.

Whatever the need, IR can respond with a high performance drill perfectly matched to your application. Consult the Drill Selection Chart to define your requirements.

Drills Selection Chart

Suggested surface speeds for high speed steel drills in various materials

Material	Speed in SFM
Alloy Steel (300 to 400 Brinell)	20 to 30
Stainless Steel	30 to 40
Automotive Steel Forgings	40 to 50
Tool Steel, 1.2C	50 to 60
Steel, .4C to .5C	70 to 80
Mild Machinery, .2C to .3C	80 to 110
Hard Chilled Cast Iron	30 to 40
Medium Hard Cast Iron	70 to 100
Soft Cast Iron	100 to 150
Malleable Iron	80 to 90
Monel Metal	40 to 50
High Tensile Strength Bronze	70 to 150
Ordinary Brass and Bronze	200 to 300
Aluminum and its alloys	200 to 300
Magnesium and its alloys	250 to 400
Slate, Marble and Stone	15 to 25
Bakelite and similar material	100 to 150
Wood	300 to 400

Note: Carbon steel twist drills should be run at speeds of 40 to 50 percent of those given above.

$$\text{Drilling Speed (rpm)} = 0.75 \times \text{Free Speed (rpm)}$$

Hole Diameter In.	Surface Speed, Feet Per Minute												
	30	40	50	60	70	80	90	100	110	150	200	300	400
Drilling Speed, rpm (Optimum Operating Speed – Not Cataloged Free Speed)													
1/16	1800	2400	3000	3600	4200	4900	5500	6100	6700	9000	12,000	18,000	24,000
1/8	900	1200	1500	1800	2100	2400	2700	3000	3400	4600	6100	9200	12,000
3/16	600	800	1000	1200	1400	1600	1800	2000	2200	3100	4100	6100	8100
1/4	450	600	750	900	1100	1200	1400	1500	1700	2300	3100	4600	6100
5/16	350	500	600	750	850	1000	1100	1200	1300	1800	2400	3700	4900
3/8	300	400	500	600	700	800	900	1000	1100	1500	2000	3000	4000
1/2	200	300	400	450	550	600	650	750	850	1100	1500	2300	3000

Drills

Production Drills

Q2 Series Features

- Variable speed control allows slow speed starting and high speed for fast drilling
- Excellent power-to-weight ratio gets the job done with less fatigue

Standard Equipment

- Drill chuck and key

Accessories

- 3RA-365 Horizontal hanger
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QP201



QS381

Q2 Series Model Builder for All Available Versions

Model Number Sequence

Style	Speed	Chuck/Spindle Options	Options							
			Inlet Style	Electronics						
Q2 Pistol Drills										
Q	Pistol	P	5100	51	1/4" Chuck	1	1/4-19 BSP	B	Dallas Chip	D
			3800	38	3/8" Chuck	2				
			3000	30	3/8" - 24 Male Thread (without drill chuck)	7				
			2000	20						
			1500	15						
			900	09						
			500	05						

Performance Specifications

RPM	Stall Torque		Length with 1/4" Chuck		Weight with 1/4" Chuck		Side to Center Distance with 1/4" Chuck	
	in.-lbs.	Nm	in.	mm	lbs.	kg	in.	mm
5100	9.4	1.1	6.7	171	1.44	0.65	0.588	15
3800	12.8	1.5	7.2	184	1.54	0.70	0.588	15
3000	16.2	1.8	6.7	171	1.44	0.65	0.588	15
2000	24.3	2.8	7.2	184	1.54	0.70	0.588	15
1500	30	3.4	7.2	184	1.54	0.70	0.588	15
900	51.1	5.8	7.2	184	1.54	0.70	0.588	15
500	86.4	9.8	7.2	184	1.54	0.70	0.588	15

Q2 Series Model Builder for All Available Versions
Model Number Sequence

Style	Speed	Chuck/Spindle Options					Options			
							Inlet Style		Electronics	
Q2 Straight Drills										
Q	Straight	S	5100	51	1/4" Chuck	1	1/4-19 BSP	B	Dallas Chip	D
			3800	38	3/8" Chuck	2				
			3000	30	3/8" - 24 Male Thread (without drill chuck)	7				
			2000	20						
			1500	15						
			900	09						
			500	05						

Performance Specifications

RPM	Stall Torque		Length with 1/4" Chuck		Weight with 1/4" Chuck		Side to Center Distance with 1/4" Chuck	
	in.-lbs.	Nm	in.	mm	lb.	kg	in.	mm
5100	10.0	1.2	8.07	205	1.37	0.62	0.588	15
3800	13.5	1.5	8.07	205	1.37	0.62	0.588	15
3000	17.0	1.9	8.07	205	1.37	0.62	0.588	15
2000	27.0	3.1	8.07	205	1.37	0.62	0.588	15
1500	33.3	3.8	8.07	205	1.37	0.62	0.588	15
900	56.7	6.4	8.07	205	1.37	0.62	0.588	15
500	96.3	10.9	8.07	205	1.37	0.62	0.588	15

Q2 Series Drills

Examples of Popular Models

Model	Free Speed rpm	Stall Torque		Length with Chuck		Weight with Chuck		Chuck Capacity		Side to Center Distance		CFM
		in.-lb.	Nm	in.	mm	lb.	kg	in.	mm			
Pistol-Grip												
QP511	5100	9.4	1.1	6.7	171	1.44	0.65	1/4	6.35	0.588	15	16
QP381	3800	12.8	1.5	7.2	184	1.54	0.7	1/4	6.35	0.588	15	16
QP301	3000	16.2	1.8	6.7	171	1.44	0.65	1/4	6.35	0.588	15	16
QP302	3000	16.2	1.8	7.2	184	1.66	.75	3/8	9.5	0.718	18	16
QP201	2000	24.3	2.8	7.2	184	1.54	0.7	1/4	6.35	0.588	15	16
QP202	2000	24.3	2.8	7.2	184	1.76	0.8	3/8	9.5	0.718	18	16
QP151	1500	30.0	3.4	7.2	184	1.54	0.7	1/4	6.35	0.588	15	16
QP091	900	51.1	5.8	7.2	184	1.54	0.7	1/4	6.35	0.588	15	16
QP051	500	86.4	9.8	7.2	184	1.54	0.7	1/4	6.35	0.588	15	16
Lever Throttle												
QS511	5100	10.0	1.2	8.07	205	1.37	0.62	1/4	6.35	0.588	15	16
QS381	3800	13.5	1.5	8.07	205	1.37	0.62	1/4	6.35	0.588	15	16
QS382	3800	13.5	1.5	8.59	218	1.58	0.71	3/8	9.5	0.718	18	16
QS301	3000	17.0	1.9	8.07	205	1.37	0.62	1/4	6.35	0.588	15	16
QS201	2000	27.0	3.1	8.07	205	1.37	0.62	1/4	6.35	0.588	15	16
QS151	1500	33.3	3.8	8.07	205	1.37	0.62	1/4	6.35	0.588	15	16
QS091	900	56.7	6.4	8.07	205	1.37	0.62	1/4	6.35	0.588	15	16

Drills

Production Drills

Series 5

- 900-5000 rpm
- .40 HP
- Chuck capacity 1/4" to 1/2"

Features

- Double row ball bearings assure maximum TIR of .005" for precise, concentric holes
- Variable speed control allows slow speed starting and high speed for fast drilling
- Skinsulate housing for operator comfort and productivity. (Pistol Only)
- Excellent power-to-weight ratio gets the job done with less fatigue

Standard Equipment

- Drill chuck and key
- Vertical hanger
- For Model 5LN3, Dead handle assembly and required adapters:
 - 728N-A48 Dead handle assembly
 - 5A-49 Adapter (two required)
- For Model 5RAN2T8, Dead handle assembly and required adapters:
 - RIA-A48 Dead handle assembly
 - 5A-ST49 Adapter (two required)

Accessories

- For H, J, K and L ratio models
 - 5A-309 Chuck shield
- 5L-K184 Piped-away exhaust kit
- 7RA-A366 Horizontal hanger

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5AJST4

5LK1B1

Model	Free Speed rpm	Stall Torque		Length with Chuck		Weight with Chuck		Chuck Capacity		Side to Center Distance		CFM
		in.-lb.	Nm	in.	mm	lb.	kg	in.	mm	in.	mm	
Reversible Pistol-Grip												
5RALST6	2000	35	4.0	6.19	173	2.25	1.0	3/8	10	13/16	21	17
5RANST6	900	70	8.0	8.25	210	3	1.4	3/8	13	13/16	21	17
5RANST8	900	70	8.0	8.25	210	3	1.4	1/2	13	13/16	21	17
Nonreversible Pistol-Grip												
5AHST4	5000	20	2.3	6.81	173	2	.09	1/4	6	13/16	21	17
5AJST4	4500	20	2.3	6.81	173	2	.09	1/4	6	13/16	21	17
5AKST4	3000	30	3.4	6.81	173	2	.09	1/4	6	13/16	21	17
5ALST4	2200	40	4.5	6.81	173	2	.09	1/4	6	13/16	21	17
5ANST6	1000	80	9.0	8.13	206	2.75	1.2	3/8	10	13/16	21	17
Nonreversible Lever Throttle												
5LJ1	4800	20	2.3	8.06	205	2.06	.09	1/4	6	13/16	21	16
5LK1	3100	30	3.4	8.06	205	2.06	.09	1/4	6	13/16	21	16
5LL1	2300	40	4.5	8.06	205	2.06	.09	1/4	6	13/16	21	15
5LN3	1000	80	9.0	9.38	238	3.25	1.5	3/8	10	13/16	21	15

Air Inlet = 1/4" NPT

Recommended Hose = 1/4" (6mm)

Performance figures are at 90 psi (620 kPa)

Spindle = 3/8" x 24

Sound Level = Approx. 75 dBa

To order without chuck delete last digit.

Series 6

- 350 - 20,000 rpm
- .51 HP
- Chuck capacity 1/4" to 3/8"

Features

- Double row ball bearing construction assures maximum TIR of .005" for precise, concentric holes
- Variable speed control permits slow speed starting and high speed for fast drilling
- Skinsulate housing for operator comfort and productivity
- Cantilever-mounted planetary gears are easily accessible without need to press from gear frame; simplifies maintenance

Standard Equipment

- Drill chuck and key
- Dead handle on Model 6LR3

Accessories

- 6WS-366 Horizontal hanger
- 7L-365 Vertical hanger
- 7L-K284 Piped-away exhaust kit (lever models only)
- Dead Handle
 - R1A-A48 Assembly
 - 6A-49 Adapters (two required)

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6ALST4



6LH1

Model	Free Speed rpm	Stall Torque		Length with Chuck		Weight with Chuck		Chuck Capacity		Side to Center Distance		CFM
		in.-lb.	Nm	in.	mm	lb.	kg	in.	mm	in.	mm	
Pistol-Grip												
6ADST4	20,000	7	.8	7.00	178	2.19	1.00	1/4	6	51/64	21	20
6AHST4	6000	23	2.6	7.00	178	2.19	1.00	1/4	6	51/64	21	20
6AJST4	5100	27	3.1	7.00	178	2.19	1.00	1/4	6	51/64	21	20
6AJJST4	3950	35	4.0	7.00	178	2.19	1.00	1/4	6	51/64	21	20
6AKST4	3100	45	5.1	7.00	178	2.19	1.00	1/4	6	51/64	21	20
6ALST4	2150	64	7.3	7.00	178	2.19	1.00	1/4	6	51/64	21	20
6AMST6	1500	89	10.1	8.00	203	2.75	1.25	3/8	10	51/64	21	20
6ARST6	500	220	25.1	8.25	210	3.00	1.36	3/8	10	51/64	21	20
6ASST6	350	313	35.7	8.25	210	3.00	1.36	3/8	10	51/64	21	20
Lever Throttle												
6LH1	6000	23	2.6	7.91	201	2.13	.95	1/4	6	51/64	21	20
6LJ1	5100	27	3.1	7.91	201	2.13	.95	1/4	6	51/64	21	20
6LJJ1	3950	35	4.0	7.91	201	2.13	.95	1/4	6	51/64	21	20
6LK1	3100	45	5.1	7.91	201	2.13	.95	1/4	6	51/64	21	20
6LL1	2150	64	7.3	7.91	201	2.13	.95	1/4	6	51/64	21	20
6LR3	500	220	25.1	9.19	233	2.94	1.33	3/8	10	51/64	21	20

Air Inlet = 1/4" NPT

Recommended Hose = 3/8" (10mm)

Performance figures are at 90 psi (620 kPa)

Spindle = 3/8" x 24

Sound Level = Approx. 74 dBA

To order without chuck delete last digit.

Production Drills

Series 7

- 600 - 20,000 rpm
- .75 HP
- Chuck capacity 1/4" to 1/2"

Features

- Double row ball bearing construction assures maximum TIR of .005" for precise, concentric holes
- Variable speed control permits slow speed starting and high speed for fast drilling
- Skinsulate housing for operator comfort and productivity
- Cantilever-mounted planetary gears are easily accessible without need to press from gear frame; simplifies maintenance

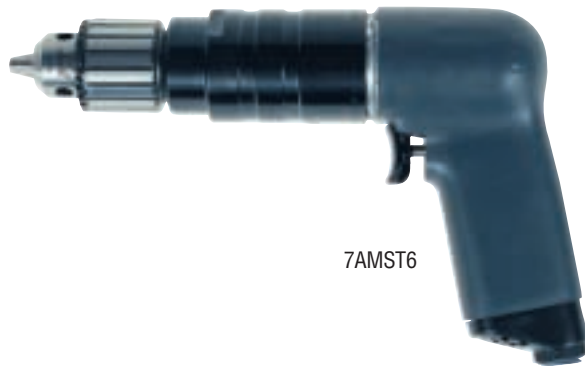
Standard Equipment

- Drill chuck and key
- Vertical hanger
- Horizontal hanger
- Dead handle on N and Q ratio models

Accessories

- R1A-48 Dead handle and 7A-49 Dead handle adapter (2 adapters required)
- For D, H, J, JJ, and K ratio models
7AH-K309 Chuck shield kit
- 7RA-A366 Horizontal hanger

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7AMST6

Model	Free Speed rpm	Stall Torque		Length with Chuck		Weight with Chuck		Chuck Capacity		Side to Center Distance		CFM
		in.-lb.	Nm	in.	mm	lb.	kg	in.	mm	in.	mm	
Pistol-Grip												
7ADST4	20,000	10	1.13	7.44	189	2.25	1.02	1/4	6	7/8	22	25
7AHST4	6000	33	3.73	7.44	189	2.31	1.05	1/4	6	7/8	22	25
7AJST4	4800	40	4.52	7.44	189	2.31	1.05	1/4	6	7/8	22	25
7AJJST4	4000	47	5.53	7.44	189	2.31	1.05	1/4	6	7/8	22	25
7AKST6	3200	58	6.55	7.63	194	2.38	1.08	3/8	10	7/8	22	25
7ALST6	2400	78	8.81	7.44	198	2.69	1.22	3/8	10	7/8	22	25
7AMST6	1400	130	14.69	8.50	216	2.94	1.33	3/8	10	7/8	22	25
7ANST8	900	185	20.91	8.75	222	3.19	1.45	1/2	13	7/8	22	25
7AQST8	600	270	30.51	8.75	222	3.25	1.47	1/2	13	7/8	22	25

Air Inlet = 1/4" NPT

Recommended Hose = 5/16" (8mm)

Performance figures are at 90 psi (620 kPa)

Spindle = 3/8" x 24

Sound Level = Approx. 82 dBA

Production Angle Drills

Series Q2, 5, 6, and 7

- 500 - 6000 rpm
- 1/4" x 28" Female threaded spindle

Features

- Maximum TIR runout of .005" ensures precision holes for critical applications
- Infinitely variable speed allows slow speed starting and high speed drilling
- Angle head may be rotated 360° to allow ideal orientation with the throttle
- Ergonomically designed housing provides a secure surface for operator grip
- Modular design allows maximum parts interchangeability and easy, low cost maintenance

Accessories

- For all series
7L-365 Vertical hanger
- For Series 5, 6, and 7
6WS-366 Horizontal hanger
- For Series 5, 6, and 7
7L-K284 Piped-away exhaust kit



QA3519



QA2759

Q2 Series Model Builder for All Available Versions

Model Number Sequence

Style	Speed	Chuck/Spindle Options	Angle Head	Options			
				Inlet Style	Electronics		

Q2 Angle Drills

Q	Angle	A	Speed	Chuck/Spindle Options	Angle Head	Inlet Style	Electronics
			3500	35 1/4" Chuck (large head, 90 degree only, standard)	1 90 Degrees	9 1/4-19 BSP	B Dallas Chip D
			2700	27 3/8" Chuck (large head, 90 degree only)	2 45 Degrees		
			2100	21 3/16" Collet with 1/2" - 40 Thread (small head, all configurations)	3 90 x 90 Degree		
			1750	17 1/4" - 28 Female Thread (small head, all configurations, standard)	5		
			1270	12 3/8" - 24 Male Thread (large head, 90 degrees only)	7		
			850	08			
			500	05			

Performance Specifications – Large Angle Head Drills, 90 Degree

RPM	Stall Torque		Length with 1/4" Chuck		Weight with 1/4" Chuck		Side to Center Distance of Angle Head		Height of Head with 1/4" Chuck	
	in.-lbs.	Nm	in.	mm	lbs.	kg	in.	mm	in.	mm
3500	14.4	1.6	9.35	238	2.07	0.94	0.538	16.3	3.06	78
2700	19.4	2.2	9.35	238	2.07	0.94	0.538	16.3	3.06	78
2100	24.5	2.8	9.35	238	2.07	0.94	0.538	16.3	3.06	78
1750	18.3	2.1	9.35	238	2.07	0.94	0.538	16.3	3.06	78
1270	43.2	4.9	9.35	238	2.07	0.94	0.538	16.3	3.06	78
850	64.8	7.4	9.35	238	2.07	0.94	0.538	16.3	3.06	78
500	110.1	12.5	9.35	238	2.07	0.94	0.538	16.3	3.06	78

Drills

Production Angle Drills

Production Angle Drills Model Specifications

Includes examples of popular Q2 Series Models

Model	Free Speed rpm	Stall Torque		Length with Chuck		Weight with Chuck		Chuck Capacity		Side to Center Distance		CFM
		in.-lb.	Nm	in.	mm	lb.	kg	in.	mm	in.	mm	
Lever Throttle Angle Drills (90 Degree Angle Head)												
QA3519	3500	14.4	1.6	9.35	238	2.07	0.94	¼	6.35	0.538	13.6	16
QA2719	2700	19.4	2.2	9.35	238	2.07	0.94	¼	6.35	0.538	13.6	16
QA2729	2700	19.4	2.2	9.98	241	2.29	1.04	⅜	9.5	0.718	18	16
QA2119	2100	24.5	2.8	9.35	238	2.07	0.94	¼	6.35	0.538	13.6	16
QA1719	1750	18.3	2.1	9.35	238	2.07	0.94	¼	6.35	0.538	13.6	16
QA1219	1270	43.2	4.9	9.35	238	2.07	0.94	¼	6.35	0.538	13.6	16
QA0819	850	64.8	7.4	9.35	238	2.07	0.94	¼	6.35	0.538	13.6	16
QA0519	500	110.1	12.5	9.35	238	2.07	0.94	¼	6.35	0.538	13.6	16
6LH1A1	6000	23	2.6	9.69	246	1.13	28	2.13	.95	2 ¹ / ₆₄	8	20
7LH1A1	6000	31	3.5	10.38	263	1.13	28	2.25	1.02	2 ¹ / ₆₄	8	26
6LJ1A1	5100	27	3.1	9.69	246	1.13	28	2.13	.95	2 ¹ / ₆₄	8	20
5LH1A1	4800	20	2.3	9.81	249	1.13	28	2.19	1.00	2 ¹ / ₆₄	8	15
7LJ1A1	4800	40	4.5	10.38	263	1.13	28	2.25	1.02	2 ¹ / ₆₄	8	26
6LJJ1A1	3950	35	4.0	9.69	246	1.13	28	2.13	.95	2 ¹ / ₆₄	8	20
7LK1A1	3200	57	6.4	10.38	263	1.13	28	2.25	1.02	2 ¹ / ₆₄	8	26
6LK1A1	3100	45	5.1	9.69	246	1.13	28	2.13	.95	2 ¹ / ₆₄	8	20
5LK1A1	3000	31	3.5	9.81	249	1.13	28	2.19	1.00	2 ¹ / ₆₄	8	15
5LL1A1	2200	40	4.5	9.81	249	1.13	28	2.19	1.00	2 ¹ / ₆₄	8	15
6LL1A1	2150	64	7.3	9.69	246	1.13	28	2.13	.95	2 ¹ / ₆₄	8	20
Lever Throttle Angle Drills (45 Degree Angle Head)												
5LH1B1	4800	20	2.2	9.75	248	1.27	32	2.13	1.00	2 ¹ / ₆₄	9	15
5LK1B1	3000	31	3.5	9.75	248	1.27	32	2.13	1.00	2 ¹ / ₆₄	9	15

Tool Series	Sound Approx. dBa	Air Inlet NPT	Hose Recommended
Q2	75	¼"	¼" (6mm)
5	75	¼"	¼" (6mm)
6	74	¼"	¼" (6mm)
7	81	¼"	¼" (6mm)

Repeated stalling of these models is not recommended.
Performance figures are at 90 psi (620 kPa) air pressure.

Series 5, 6, and 7

- 400 - 3250 rpm
- 1/4"-1/2" Chuck capacity

Features

- Maximum TIR runout of .005" ensures precision holes for critical applications
- Infinitely variable speed allows slow speed starting and high speed drilling
- Angle head may be rotated 360° to allow ideal orientation with the throttle
- Ergonomically designed housing provides a secure surface for operator grip
- Modular design allows maximum parts interchangeability and easy, low cost maintenance

Accessories

- 7L-365 Vertical hanger
- 6WS-366 Horizontal hanger
- 7L-K284 Piped-away exhaust kit



6LL2A42



7LN3A44

Model	Free Speed rpm	Stall Torque		Length with Chuck		Height of Head with Chuck		Weight with Chuck		Chuck Capacity		Side to Center Distance		CFM
		in.-lb.	Nm	in.	mm	lb.	kg	lb.	kg	in.	mm	in.	mm	
7LJ2A41	3250	51	5.6	10.00	254	2.97	75	3.00	1.36	1/4	6	17/32	14	26
5LK2A41	2000	45	5.1	9.41	240	2.97	75	2.63	1.20	1/4	6	17/32	14	15
6LK2A41	2000	65	7.3	9.47	240	2.97	75	2.75	1.25	1/4	6	17/32	14	20
7LL3A42	1550	112	12.7	10.38	263	3.66	93	3.44	1.56	3/8	10	11/16	18	26
5LL2A41	1500	60	6.8	9.41	240	2.97	75	2.63	1.20	1/4	6	17/32	14	15
6LL2A42	1400	95	10.7	9.53	242	3.19	81	2.81	1.27	3/8	10	17/32	14	20
7LM3A43	900	170	18.7	11.06	281	3.91	99	4.00	1.79	3/8	10	11/16	18	26
5LN2A43	700	120	13.6	10.19	258	3.59	91	3.44	1.60	3/8	10	17/32	14	15
6LP3A43	600	190	21.7	10.63	270	3.91	99	3.75	1.70	3/8	10	11/16	18	20
7LN3A44	600	255	28.1	11.06	281	4.13	105	4.19	1.90	1/2	12	11/16	18	26
6LR3A44	400	320	36.2	10.69	271	4.13	105	4.00	1.81	1/2	13	11/16	18	20

Air Inlet = 1/4" NPT

Recommended Hose = 1/4" (6mm)

Spindle = 3/8" x 24

Performance figures are at 90 psi (620 kPa)

Precision Angle Drills



QA0559



QA2755

Q2 Series Model Builder for All Available Versions

Model Number Sequence

Style	Speed	Chuck/Spindle Options	Angle Head	Options			
				Inlet Style	Electronics		

Q2 Angle Drills

Q	Angle	A	Speed	Chuck/Spindle Options	Angle Head	Inlet Style	Electronics		
			3500	35 1/4" Chuck (large head, 90 degree only, standard)	1 90 Degrees	1/4-19 BSP	B	Dallas Chip	D
			2700	27 3/8" Chuck (large head, 90 degree only)	2 45 Degrees				
			2100	21 3/16" Collet with 9/32" - 40 Thread (small head, all configurations)	3 90 x 90 Degree				
			1750	17 1/4" - 28 Female Thread (small head, all configurations, standard)	5				
			1270	12 3/8" - 24 Male Thread (large head, 90 degrees only)	7				
			850	08					
			500	05					

Performance Specifications (Small Angle Head Drills, 90 Degree)

RPM	Stall Torque		Length		Weight		Side to Center Distance		Height of Head with ¼" - 28 Thread	
	in.-lbs.	Nm	in.	mm	lbs.	kg	in.	mm	in.	mm
3500	15.9	1.8	8.69	221	1.37	0.62	0.373	9.5	1.06	27
2700	20.1	2.3	8.69	221	1.37	0.62	0.373	9.5	1.06	27
2100	15.1	1.7	8.69	221	1.37	0.62	0.373	9.5	1.06	27
1750	31.9	3.6	8.69	221	1.37	0.62	0.373	9.5	1.06	27
1270	39.3	4.5	8.69	221	1.37	0.62	0.373	9.5	1.06	27
850	66.9	7.6	8.69	221	1.37	0.62	0.373	9.5	1.06	27
500	113.7	12.8	8.69	221	1.37	0.62	0.373	9.5	1.06	27

Performance Specifications (Small Angle Head Drills, 45 Degree)

RPM	Stall Torque		Length		Weight		Side to Center Distance		Height of Head with ¼" - 28 Thread	
	in.-lbs.	Nm	in.	mm	lbs.	kg	in.	mm	in.	mm
3500	13.5	1.5	10.55	268	1.47	0.67	0.325	8.3	1.325	33.6
2700	17.0	1.9	10.55	268	1.47	0.67	0.325	8.3	1.325	33.6
2100	27.0	3.1	10.55	268	1.47	0.67	0.325	8.3	1.325	33.6
1750	33.3	3.8	10.55	268	1.47	0.67	0.325	8.3	1.325	33.6
1270	45.0	5.1	10.55	268	1.47	0.67	0.325	8.3	1.325	33.6
850	56.7	6.4	10.55	268	1.47	0.67	0.325	8.3	1.325	33.6
500	96.3	10.9	10.55	268	1.47	0.67	0.325	8.3	1.325	33.6

Performance Specifications (Small Angle Head Drills, 90 x 90 Degree)

RPM	Stall Torque		Length (¼ - 28 Thread)		Weight		Side to Center Distance		Height of Head (Lower Head, ¼ - 28 Thread)		Height over both Heads	
	in.-lbs.	Nm	in.	mm	lbs.	kg	in.	mm	in.	mm	in.	mm
3500	13.9	1.6	9.03	229	1.6	0.73	0.365	9.3	1.05	26.7	2.83	72
2700	18.8	2.1	9.03	229	1.6	0.73	0.365	9.3	1.05	26.7	2.83	72
2100	23.6	2.7	9.03	229	1.6	0.73	0.365	9.3	1.05	26.7	2.83	72
1750	37.5	4.3	9.03	229	1.6	0.73	0.365	9.3	1.05	26.7	2.83	72
1270	46.3	5.3	9.03	229	1.6	0.73	0.365	9.3	1.05	26.7	2.83	72
850	62.5	7.1	9.03	229	1.6	0.73	0.365	9.3	1.05	26.7	2.83	72
500	106.3	12.1	9.03	229	1.6	0.73	0.365	9.3	1.05	26.7	2.83	72

Drills

Precision Angle Drills

Q2 Series/Aircraft Angle Drills

Examples of Popular Models

Model	Free Speed rpm	Stall Torque		Spindle	Weight		Length		Side to Center Distance		Head Height		CFM
		in.-lb.	Nm		lb.	kg	in.	mm	in.	mm	in.	mm	
Lever Throttle Angle Drills (90 Degree Small Angle Head)													
QA3539	3500	15.9	1.8	3/16" collet with 3/32" - 40 thread	1.37	0.62	8.69	221	0.373	9.5	1.06	27	16
QA3559	3500	15.9	1.8	1/4" - 28 female thread	1.37	0.62	8.69	221	0.373	9.5	1.06	27	16
QA2759	2700	20.1	2.3	1/4" - 28 female thread	1.37	0.62	8.69	221	0.373	9.5	1.06	27	16
QA2159	2100	15.1	1.7	1/4" - 28 female thread	1.37	0.62	8.69	221	0.373	9.5	1.06	27	16
QA1759	1750	31.9	3.6	1/4" - 28 female thread	1.37	0.62	8.69	221	0.373	9.5	1.06	27	16
QA1239	1270	39.3	4.5	3/16" collet with 3/32" - 40 thread	1.37	0.62	8.69	221	0.373	9.5	1.06	27	16
QA1259	1270	39.3	4.5	1/4" - 28 female thread	1.37	0.62	8.69	221	0.373	9.5	1.06	27	16
QA0859	850	66.9	7.6	1/4" - 28 female thread	1.37	0.62	8.69	221	0.373	9.5	1.06	27	16
QA0559	500	113.7	12.8	1/4" - 28 female thread	1.37	0.62	8.69	221	0.373	9.5	1.06	27	16
Lever Throttle Angle Drills (45 Degree Small Angle Head)													
QA3534	3500	13.5	1.5	3/16" collet with 3/32" - 40 thread	1.47	0.67	10.55	268	0.325	8.3	1.325	33.6	16
QA2734	2700	17	1.9	3/16" collet with 3/32" - 40 thread	1.47	0.67	10.55	268	0.325	8.3	1.325	33.6	16
QA2754	2700	17	1.9	1/4" - 28 female thread	1.47	0.67	10.55	268	0.325	8.3	1.325	33.6	16
QA2154	2100	27	3.1	1/4" - 28 female thread	1.47	0.67	10.55	268	0.325	8.3	1.325	33.6	16
QA1754	1750	33.3	3.8	1/4" - 28 female thread	1.47	0.67	10.55	268	0.325	8.3	1.325	33.6	16
QA1234	1270	45	5.1	3/16" collet with 3/32" - 40 thread	1.47	0.67	10.55	268	0.325	8.3	1.325	33.6	16
QA1254	1270	45	5.1	1/4" - 28 female thread	1.47	0.67	10.55	268	0.325	8.3	1.325	33.6	16
QA0854	850	56.7	6.4	1/4" - 28 female thread	1.47	0.67	10.55	268	0.325	8.3	1.325	33.6	16
QA0554	500	96.3	10.9	1/4" - 28 female thread	1.47	0.67	10.55	268	0.325	8.3	1.325	33.6	16
Lever Throttle Angle Drills (90 x 90 Degree Small Angle Head)													
QA3535	3500	13.9	1.6	3/16" collet with 3/32" - 40 thread	1.6	0.73	9.03	229	0.365	9.3	1.05	26.7	16
QA3555	3500	13.9	1.6	1/4" - 28 female thread	1.6	0.73	9.03	229	0.365	9.3	1.05	26.7	16
QA2755	2700	18.8	2.1	1/4" - 28 female thread	1.6	0.73	9.03	229	0.365	9.3	1.05	26.7	16
QA2135	2100	23.6	2.7	3/16" collet with 3/32" - 40 thread	1.6	0.73	9.03	229	0.365	9.3	1.05	26.7	16
QA2155	2100	23.6	2.7	1/4" - 28 female thread	1.6	0.73	9.03	229	0.365	9.3	1.05	26.7	16
QA1755	1750	37.5	4.3	1/4" - 28 female thread	1.6	0.73	9.03	229	0.365	9.3	1.05	26.7	16
QA1235	1270	46.3	5.3	3/16" collet with 3/32" - 40 thread	1.6	0.73	9.03	229	0.365	9.3	1.05	26.7	16
QA1255	1270	46.3	5.3	1/4" - 28 female thread	1.6	0.73	9.03	229	0.365	9.3	1.05	26.7	16
QA0855	850	62.5	7.1	1/4" - 28 female thread	1.6	0.73	9.03	229	0.365	9.3	1.05	26.7	16
QA0555	500	106.3	12.1	1/4" - 28 female thread	1.6	0.73	9.03	229	0.365	9.3	1.05	26.7	16

Lightweight Riveters

Lightweight Riveters

For driving 1/8"- 3/8" (3-10mm) rivets

Features

- Accurate and easily controlled tease throttle
- Standard beehive retainer – allows use of a wide variety of accessories
- Built-in power regulators on A1 and B1 Models – the operator can change power on the job with no downtime
- Model 772 – Unitized “easy-out” throttle valve assembly
- Model 772 – Furnished with two retainers for use with a wide variety of accessories

Accessories

See IRAX accessories catalog, Form 52225-G



Model	Cold Rivet Capacity		Dural & Soft Iron		Handle	Length Less Accessory		Weight Less Accessory		Piston Stroke		Blows per Minute	Bore		For Use with Rivet Set Shank Diameter	CFM
	Aluminum in.	mm	in.	mm		in.	mm	lb.	kg	in.	mm		in.	mm		
Industrial/Aerospace																
AVC10A1	1/8	3	1/8	3	Pistol	6	152	2 ³ / ₁₆	1.28	1 ⁷ / ₈	48	3200	9/16	14	.401	12
AVC10C1	1/8	3	1/8	3	Straight	6 ²⁵ / ₃₂	172	2 ¹ / ₁₆	.94	1 ⁷ / ₈	48	3200	9/16	14	.401	12
AVC12A	13/16	5	3/16	5	Pistol	7 ³ / ₄	197	3 ³ / ₈	1.53	3	76	2100	9/16	14	.401	13
AVC13A1	1/4	6	1/4	6	Pistol	8 ³ / ₄	222	3 ¹¹ / ₁₆	1.67	4	101	1725	9/16	14	.401	13
AVC26A1	3/8	10	5/16	8	Pistol	11 ⁵ / ₁₆	287	5 ¹ / ₈	2.32	6	152	1120	3/4	19	.498	14
AVC26B1	3/8	10	5/16	8	Goose Neck	13 ¹⁵ / ₁₆	354	7	3.18	6	152	1120	3/4	19	.498	14
General Purpose																
772	For light duty cutting & hammering				Pistol	7 ³ / ₈	187	3 ⁵ / ₈	1.64	2 ¹ / ₄	57	3000	3/4	19	.401	–

Air Inlet = 1/4" NPT

Recommended Hose = 5/16" (8mm)

AVC 26 use 1/2" (13mm)

Performance figures are at 90 psi (620 kPa)

Drills

Tappers

- 1/4" and 1/2" Capacity



QP1S10D8



7RAQT4

Features

- Air-thrown reverse valve for instant reversal
- Ergonomically designed for operator comfort and high production
- Variable throttle for maximum control and minimum tap breakage
- Modular design makes servicing easy and economical

Standard Equipment

- Dead handle assembly for Model 7RAQT4: RIA-A48 handle
7A-49A adapter (two required)

Accessories

See IRAX accessories catalog, Form 52225-G

Q2 Series Model Builder for All Available Versions

Model Number Sequence

Style	Rotation	Throttle	Speed	Clutch	Bit Holder/Drive	Options			
						Inlet Location	Grip Size	Inlet Style	Electronics

Q2 Pistol-Grip Tapper

Q	Pistol	P	Rev	1	Trigger Start	S	1000	10	Direct Drive	D	Tapper	8	Top	T	Small	A	1/4-19 BSP	B	Dallas Chip	D
							500	05												

Performance Specifications

RPM	Chuck Capacity	Tapping Capacity	Weight with Chuck	dBa	Vibration	Length	Side to Center Distance
1000	1/4 in./6 mm	1/4 in./6 mm	1.79 lbs/0.82 kg	75	<2m/s ²	7.38 in/187 mm	0.58 in/14.7 mm
500	1/4 in./6 mm	1/4 in./6 mm	1.79 lbs/0.82 kg	75	<2m/s ²	7.38 in/187 mm	0.58 in/14.7 mm

Tappers

Examples of Popular Models

Model	Free Speed rpm	Chuck Capacity		Tapping Capacity		Weight		Length		Side to Center Distance		CFM
		in.	mm	in.	mm	lb.	kg	in.	mm	in.	mm	
QP1S10D8	1000	.25	6	1/4	6	1.79	.85	7.2	183	.58	14.7	16
7RAQT4	475	.383	13	1/2	3	3.38	1.5	11.81	300	.875	22	27

Tool Series	Sound Approx. dBa	Air Inlet NPT	Hose Size	Horse Power
Q2	75	1/4"	1/4"	.28
7	79	1/4"	5/16"	.50

Performance figures are at 90 psi (6.2 BAR) air pressure.

Drills

Maintenance Drills

- 1250 to 3800 rpm
- 0.5 HP

Models with keyless chucks now available!



Features

- Powerful and economical
- Excellent for general purpose applications

Standard Equipment

- Dead handle assembly on Model 728NA3

Accessories

Pages 84, 133

Model	Free Speed rpm	Stall Torque		Length with Chuck		Weight with Chuck		Chuck Capacity		Side to Center Distance		CFM
		in.-lb.	Nm	in.	mm	lb.	kg	in.	mm	in.	mm	
728JA1	3800	30	3.4	7.0	177	2.4	1.1	3/8	8	29/32	23	19
728LA2	2550	54	6.1	7.3	184	2.5	1.2	3/8	10	29/32	23	19
728NA3	1250	120	14.0	8.4	212	3.1	1.4	1/2	13	29/32	23	19
728J6K	3800	30	3.4	7.0	177	2.4	1.1	3/8	13	29/32	23	19
728L6K	2550	54	6.1	7.3	184	2.5	1.2	3/8	10	29/32	23	19
728N8K	1250	120	14.0	8.4	212	3.1	1.4	1/2	13	29/32	23	19

Air Inlet = 1/4" NPT

Recommended Hose = 1/4" (6mm)

Spindle = 3/8" x 24

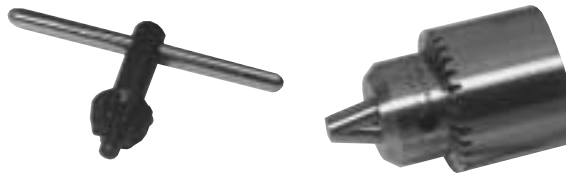
Performance figures are at 90 psi (620 kPa) air pressure.

Keyless Chucks – 3/8" Part # 728-99-KC5

1/2" Part # 728-99-KC8

Drills

Drill Accessories Please also see the IRAX Accessories catalog, Form 52225-G



Drill Chucks

Chuck Size	Part Number	Thread	Key Part Number	Standard Equipment on Air Drills
0 - 1/4" (6mm) Medium Duty	ROH-99	3/8" x 24	R1H-J253	5A, 5L (D,H,J,K,K2,L,L2), 7L (J2)
0 - 1/4" (6mm) Heavy Duty	ROA-99	3/8" x 24	R00A-J253	6A (K,H,J,JJ,K,L), 6L (H,J,JJ,K,K2,L), 7A (D,H,J,JJ)
0 - 3/8" (10mm) Heavy Duty	6A-99	3/8" x 24	R0J-J253	6A (M,P), 6L (L2,M,M2,P), 7A (K), 7L (L3), 728JA1, 5A, 5L (N,N2), 5R, 6A (R,S), 6L (P3,R), 7A (L,M), 7L (M3)
0 - 3/8" (10mm) Standard Duty	7801-99-6	3/8" x 24	728N-253	728LA2
0 - 3/8" Keyless (10 mm)	728-99-KC5	3/8" x 24	—	728J6K, 728L6K
0 - 1/2"	7803-99	3/8" x 24	R1T-J253	—
0 - 1/2" (13mm) Standard Duty	7806-99-8	3/8" x 24	728N-253	728NA3, 7806
0 - 1/2" Keyless (13mm)	728-99-KC8	3/8" x 24	—	728N8K
5/64" - 1/2" (2-13mm) Heavy Duty	ROK-99	3/8" x 24	R1T-J253	5R, 7A (N,Q), 7L (N3)



Square Drive Adapter

Chuck Size	Part Number	Thread
3/8"	RH-P212-38	3/8" x 24

Q2 Series Chuck Guard Kits

Chuck Size	Part Number
1/4"	TRD-A961-S
3/8"	TRD-A961

Use with straight and pistol drills



Quick Change Screwdriver Bit Adapter

Hexagon Drive Size	Part Number	Thread
1/4"	RH-A925-4	3/8" x 24