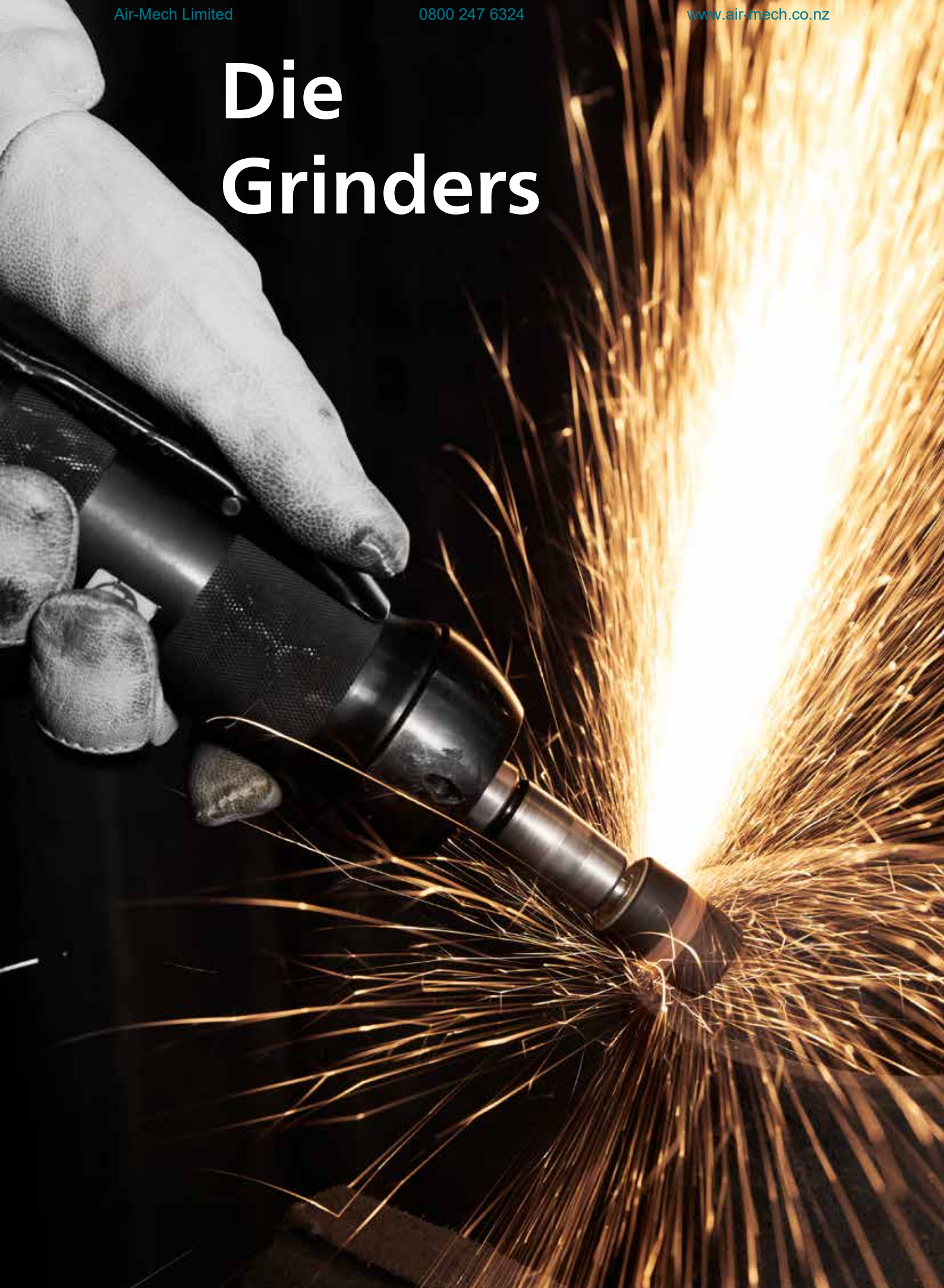


Die Grinders



Die Grinders



G2412-1

G24-series

PRO die grinders are robust tools for grinding and finishing work in general industry.

G2414/G2424 are equipped with speed governors for optimal process speed together with a unique dampening system that are reducing the vibrations for the operator. Extreme working conditions place high demands on tools being used. We offer

G2417/G2427 with a heavy duty, all-steel body that will fulfil these requirements.



G2422-1



G2414



G2417

Model	Max free speed r/min	Max output kW	Length mm	Weight kg	Air cons. at max output l/s	Air cons.at free speed l/s	Rec. hose size mm	Air inlet thread BSP	6 mm	1/4"	Ordering No.
Straight - Standard											
G2412-1	20000	0.35	178	0.5	10.3	13.0	10	1/4"	•	•	8423 0312 21
G2414-S085	8500	0.50	215	0.8	13.0	4.2	13	3/8"	•	•	8423 0312 58
G2414 S120	12000	0.75	215	0.8	16.0	5.3	13	3/8"	•	•	8423 0312 57
G2414 S150	15000	0.85	215	0.8	18.0	7.2	13	3/8"	•	•	8423 0312 56
G2414 S200	20000	0.90	215	0.8	19.0	9.0	13	3/8"	•	•	8423 0312 30
G2414 S250	25000	0.95	215	0.8	21.0	14.5	13	3/8"	•	•	8423 0312 29
Straight - All steel body											
G2417-S120	12000	0.66	213	1.2	13.8	4.0	13	3/8"	•	-	8423 0312 84
G2417-S180	18000	0.82	213	1.2	17.4	7.0	13	3/8"	•	-	8423 0312 83
G2417-S250	25000	0.86	213	1.2	18.5	11.0	13	3/8"	•	-	8423 0312 82
Straight extended											
G2422-1	20000	0.35	277	0.7	10.3	13.0	13	1/4"	•	•	8423 0312 47
G2424-S085	8500	0.44	315	1.0	13.0	4.2	13	3/8"	•	•	8423 0312 61
G2424 S120	12000	0.70	315	1.0	16.0	5.3	13	3/8"	•	•	8423 0312 60
G2424 S150	15000	0.75	315	1.0	18.0	7.2	13	3/8"	•	•	8423 0312 59
G2424 S200	20000	0.85	315	1.0	19.0	9.0	13	3/8"	•	•	8423 0312 55
G2424 S250	25000	0.90	315	1.0	21.0	14.5	13	3/8"	•	•	8423 0312 62
Straight extended - All steel body											
G2427-S250	25000	0.86	338	1.6	18.5	11.0	13	3/8"	•	-	8423 0312 86
G2427-S180	18000	0.82	338	1.6	17.4	7.0	13	3/8"	•	-	8423 0312 87
G2427-S120	12000	0.66	338	1.6	13.8	4.0	13	3/8"	•	-	8423 0312 88
Straight - Standard - Low Speed											
G2440	4300	0.55	216	0.9	5.7	7.0	10	1/4"	•	•	8423 0312 20



G2451

G2451 is a lightweight, high-speed die grinder for light grinding and precision work. It has a robust aluminum housing with a plastic cover and comes with an exhaust air hose.

Model	Max free speed r/min	Max output kW	Length mm	Weight kg	Air cons. at free speed l/s	Rec. hose size mm	Air inlet thread BSP	Collet size		Ordering No.
								3 mm	1/8"	
G2451	80000	0.080	140	0.48	2.7	5	1/4"	•	•	8423 0313 01

Hose included

Accessories

For model G2412, G2414, G2422, G2424	Ordering No.
3 mm	4150 1049 81
6 mm	4150 1049 83*
8 mm	4150 1049 84
1/8"	4150 1049 85
1/4"	4150 1049 88*

*Collet included with tool

For model G2451	Ordering No.
3 mm	4112 1380 00*
1/8"	4112 1381 00*
1/12"	4112 1381 01

*Collet included with tool

For model G2417, G2427	Ordering No.
Collets	
Collet Ø 1/4"	4150 0076 00
Collet Ø 3 mm	4150 0081 00
Collet Ø 5 mm	4150 0075 01
Collet Ø 6 mm	4150 0075 00
Collet Ø 8 mm	4150 0074 00
Collet nut	4150 0760 00
Collet holder and collet nut	4110 0844 90
Extension 75 mm (3")	4150 0674 00

Productivity Kits

Model	Economical air flow	Hose, 5 m	Coupling	Lubrication	Ordering No.
For percussive tools and grinders with 3/8" BSP air inlet incl. whip hose					
MIDI Optimizer F/RD EQ10-R13-W		21 l/s	Rubber 13 mm	ErgoQIC 10	8202 0850 14
For percussive tools and grinders, incl. whip hose, no tool nipple included					
MIDI Optimizer F/RD EQ10-R13-W		21 l/s	Rubber 13 mm	ErgoQIC 10	8202 0850 15
For grinders and nutrunners with 3/8" BSP air inlet					
MIDI Optimizer F/RD EQ10-T13		21 l/s	Turbo 13 mm	ErgoQIC 10	8202 0850 17
For grinders and nutrunners with 1/2" BSP air inlet					
MIDI Optimizer F/R EQ10-T13		21 l/s	Turbo 13 mm	ErgoQIC 10	8202 0850 04
MIDI Optimizer F/RD EQ10-T13		21 l/s	Turbo 13 mm	ErgoQIC 10	8202 0850 13

Die Grinders

Reference table

Tools and abrasives for normal grinding applications

Grinding applications	Grinders					
	Die grinders	Vertical grinders	Geared turbine grinders	Angle grinders	Straight grinders	Sanders
Die grinding with:						
• Rotary burr	•					
• mounted point	•					
Rough grinding with:						
• straight-sided wheel					•	
• depressed-center wheel		•	•	•		
• cup wheel		•	•			
• cutting-off wheel		•	•	•		
• mounted point	•					
• cone wheel					•	
Surface grinding with:						
• coated abrasive, dry sanding		•	•	•		
• coated abrasive, wet sanding				•		•
• nylon-coated abrasive	•	•		•		
• lambswool bonnet, etc.				•		
• wire brushes		•	•			

Productivity and grinding economy

Manpower and abrasives together account for about 90% of the total cost of grinding with handheld equipment. Wages alone make up the major part of manpower costs: often as much as 80%, or nearly half of total costs. Time is definitely money. In other words, the time taken to complete the grinding task is crucially important. Reducing this time will lead to increased productivity and cost savings.

The main factors affecting grinding time are:

- Grinder output
- Feed force
- Operator stress and physical strain
- Time spent replacing worn abrasives
- Accessibility.

Grinder output is vital for high material removal, and is thus probably the single most important factor in total grinding economy. Yet actual performance that really exploits full grinder output or power, requires high feed force and good operator technique.

This, in turn, presupposes the correct use of quality abrasives for maximum material removal and minimum wheel wear. The ratio of material removal to abrasive wear depends on the right choice here. Based on the materials involved and tool output, it's possible to work out in advance which abrasive is needed.

There is therefore a direct correlation between good overall grinding economy and the right choice of equipment: quality tools and abrasives suited to the job in hand. This equipment should be seen as an investment in long-term productivity, not as a short-term cost. Ergonomic tool design can greatly contribute to this.