



Chicago Pneumatic



CP3850

THE ULTIMATE MATERIAL REMOVAL TOOL

**UNIQUE
FEATURES**
Premium Tool



- ✓ **High productivity**
- ✓ **Great ergonomics**
- ✓ **Innovative features**



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People. Passion. Performance.

CP3850

THE ULTIMATE MATERIAL REMOVAL TOOL



High Productivity

- Powerful CP governed motor offers a higher torque at maximum operating speed, increasing productivity
- Highest power to weight ratio 2.8 HP for 5.1 lbs / 2,100 W for 2.7 kg
- Spindle lock button, for single tool abrasive replacement
- Autobalancer optimizes contact between abrasive and application, increasing the productivity by 15%

SUPERIOR COMFORT

Curved design positions operator's wrist straight to ease holding position

ERGONOMIC DOUBLE ACTION SAFETY LEVER

Durable solution eases tool's grip, and reduces risk of mishandling

360° AIR EXHAUST MUFFLER INTEGRATED

Improves operator comfort and extends constant use keeping the noise level, as low as 84 dB(A)

MULTI-POSITION GUARD

The 220° multi-position robust guard provides durable operator protection, flexibility and comfort

FAST AND EASY DISC CHANGE

The spindle lock button allows a quicker abrasive replacement

BEST PRODUCTIVITY IN ITS CLASS

Powerful governed 2.8 HP (2100W) motor for maximum power at the right speed

MULTI-POSITION VIBRATION DAMPING SIDE HANDLE

Adjustable 360° side handle, left and right, for greater operator comfort

LOW PROFILE ANGLE HEAD

Allows grinding in restricted areas and improves operator's view on abrasive



CP MAGNET

Collects debris and extends life of bevel gear

AUTOBALANCER (OPTIONAL)

Compensates abrasive vibration and optimizes the contact between the abrasive and application for a material removal rate increased up to +15%

SUPER DURABLE SPIRAL BEVEL GEAR

The spiral shaped teeth of the helical bevel gear and pinion engage gradually to reduce vibration and stress of torque transmission resulting in up to 2000 hours durability

Grinding, sanding & cutting applications

- Foundries, Metalworking
- Shipyards, Rolling stock
- Oil, Gas & Petrochemical Maintenance
- Composite materials



Type	Model	Part #	Free speed RPM	Wheel / Pad max capacity		Spindle thread	Power		Tool weight		Air cons. @ load				Air inlet in. NPT	Sound pressure ISO 15744 dB(A)	Sound power ISO 15744 dB(A)	Vibration ISO 28927 m/s ² (k)
				in.	mm		hp	W	lbs	kg	at free speed		at max output					
GRINDER	CP3850-85AB7VE	615 170 4920	8,500	7 x 3/8 x 7/8	180 x 9.5 x 22.2	5/8-11	2.8	2,100	5.9	2.7	36	17	77	36	1/2	87	98	5.7 (1.1)
GRINDER	CP3850-85AH7VE	615 170 4930	8,500	7 x 3/8 x 7/8	180 x 9.5 x 22.2	HEX	2.8	2,100	5.9	2.7	36	17	77	36	1/2	93	104	5.4 (1)
GRINDER	CP3850-65AB9VE	615 170 4940	6,500	9 x 1/4 x 3/8	230 x 6.4 x 22.2	5/8-11	2.8	2,100	6.4	2.9	44	21	80	38	1/2	93	104	5.7 (1.1)
GRINDER	CP3850-65AH9VE	615 170 4950	6,500	9 x 1/4 x 3/8	230 x 6.4 x 22.2	HEX	2.8	2,100	6.4	2.9	44	21	80	38	1/2	93	104	5.4 (1)
SANDER	CP3850-85ABVE	615 170 4970	8,500	7	180	5/8-11	2.8	2,100	5.1	2.3	36	17	77	36	1/2	87	98	<2.5
SANDER	CP3850-65ABVE	615 170 4980	6,500	9	230	5/8-11	2.8	2,100	5.1	2.3	44	21	80	38	1/2	89	100	<2.5

Listed specifications are for reference only. Please check documents in each tool.

CP3850 RANGE

ACCESSORIES INCLUDED FOR THE ALL RANGE	PART #
Vibration damping side handle	615 576 0660
Nipple 1/2"	615 704 0140

2 ANGLE GRINDERS



CP3850-85AB7VE
CP3850-85AH7VE

7" (180mm) @ 8,500 RPM



CP3850-65AB9VE
CP3850-65AH9VE

9" (230mm) @ 6,500 RPM

ACCESSORIES INCLUDED IN 7" GRINDERS	PART #
7" (180mm) disc guard	615 504 2115

ACCESSORIES INCLUDED IN 9" GRINDERS	PART #
9" (230mm) disc guard	615 504 2125

ACCESSORIES INCLUDED IN 85AB7VE & 65AB9VE (5/8-11 spindle thread grinders)	PART #
Autobalancer	615 950 1810
Front flange	615 502 0670
Safety screw	615 614 0760
Wrench	69773
Pin spanner	615 802 0100

ACCESSORIES INCLUDED IN 85AH7VE & 85AH9VE (hexagonal spindle thread grinders)	PART #
Autobalancer	615 900 1940
Rear flange	615 503 1640
Front flange	615 502 0850
Wrench	615 802 0560



CP3850 grinders are designed for 7" or 9" grinding wheels, flap wheels & cutting wheels

2 ANGLE SANDERS



CP3850-85ABVE

7" (180mm) @ 7,700 RPM



CP3850-60AB

9" (230mm) @ 6,000 RPM

ACCESSORIES INCLUDED IN SANDERS	PART #
Autobalancer	615 990 1950

OPTIONAL ACCESSORIES	PART #
Rear flange	615 503 1070
Pad 7" (180mm) + front flange	615 990 1330
Rigid pad 7" (180mm) + front flange	615 990 1340
Spiracool pad 7" (180mm) + front flange	S 091 836
Pin spanner 1-3/8 (35mm)	615 802 0100
Dust extracting kit for sanding 7" (180mm)	205 055 3563
Dust extracting for diamond disc 7" (180mm)	205 055 3573
Diamond cutting blade 7" (180mm)	615 811 1450

ACCESSORIES INCLUDED	PART #
Autobalancer	615 990 1950

OPTIONAL ACCESSORIES	PART #
Rear flange	615 503 1070
Pad 9" (180mm) + front flange	615 990 1410
Pin spanner 1-3/8 (35mm)	615 802 0100



CP dust extracting kit 7" (180mm) for sanding applications & CP diamond cutter blade 7" (180mm) for cutting applications

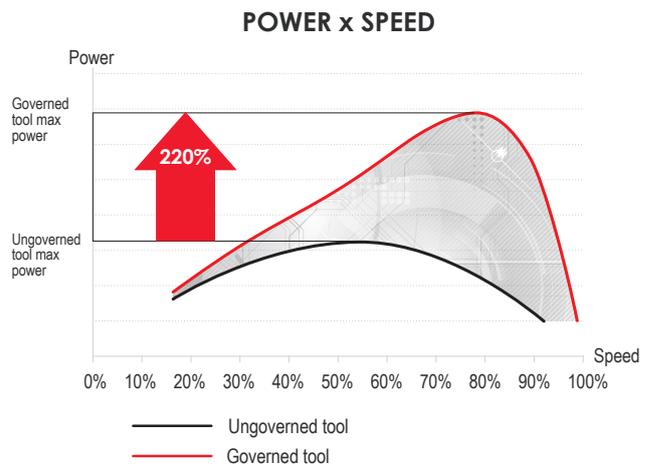
Listed specifications are for reference only. Please check documents in each tool.

WHY CUSTOMERS PREFER THE CP3850?

The power of a governed motor

The CP governed motor delivers its maximum torque close to the free speed of the tool, prevents over speed and reduces air consumption.

With a skilled operator, the CP governed motor can reach up to 220% more power than an ungoverned motor!

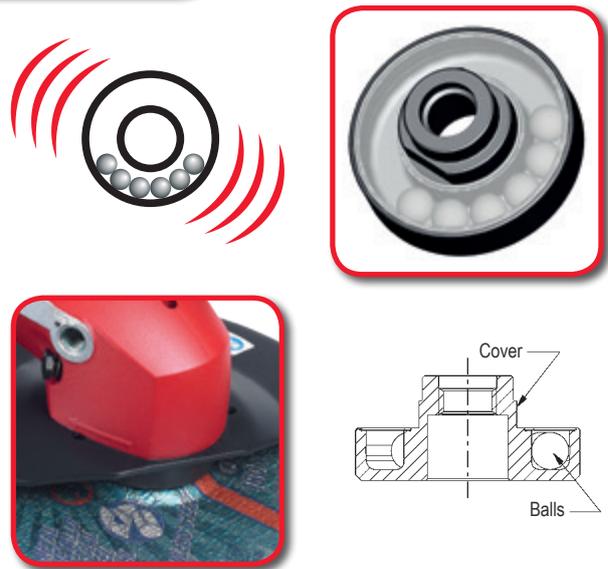


The productivity increased by the autobalancer

The autobalancer contains free spheres: their momentum counterbalances the abrasive's vibrations caused by its structural imperfections. The autobalancer can reduce these vibrations by 20%. The contact between the abrasive and the application is therefore optimized, resulting in a material removal rate increased up to 15% vs. a tool without an autobalancer.

Save up to 1,000 USD a month by working 4 hours a day with the CP3850 equipped with the autobalancer.

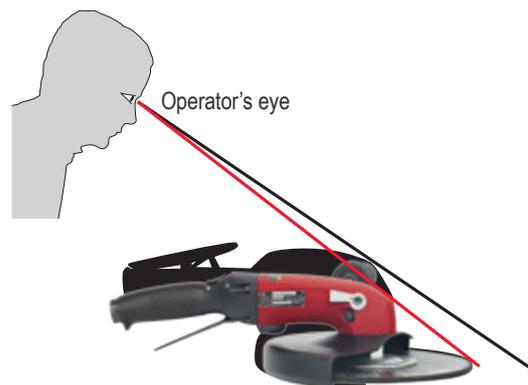
The tool will pay for itself !



The angle view of the CP3850

The low profile angle head of the CP3850 allows grinding in restricted areas and enlarges operator's angle of view on application.

This angle enhances operator's precision and increases productivity.

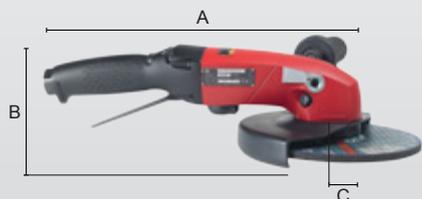




Over 110 years of experience

Since 1901 the Chicago Pneumatic (CP) name has represented reliability and attention to customer needs, with construction, maintenance and production tools and compressors designed for specific industrial applications. Today, CP has a global reach, with local distributors around the world.

Our people start every single day with a passion to research, develop, manufacture and deliver new products that are meant to meet your needs not only today, but tomorrow as well. To learn more, visit www.cp.com.



DIMENSIONS

A		B		C	
in.	mm	in.	mm	in.	mm
13.4	340	4.21	107	1.14	29

TUNE-UP KITS

MODEL	PART #
MOTOR SERVICE KIT	205 055 3543
SPINDLE SERVICE KIT	205 055 3553
GLOBAL SERVICE KIT	205 055 3433

AIR LINE ACCESSORIES SELECTION

AIR FLEX Improve the ergonomcy by preventing hose kinks

PART # NPT	615 804 7510	PART # BSP	615 804 7510
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FILTER-REGULATOR-LUBRICATORS

PART # NPT	PART # BSP	SIZE	TYPE	MAX. FLOW RATE	
				cfm	l/sec
894 016 8517	894 016 8480	1/2"	2 stage	110	50
894 016 8519	894 016 8483	3/4"	2 stage	220	100

FRL units will improve the productivity and life of your CP3850.

EFFI MAX WHIPS

PART # NPT	PART # BSP	HOSE DIAM.		THREAD SIZE	AIR FLOW	
		in.	mm	in.	ft	m
CA 049 270	615 811 1930	1/2	13	1/2	2.0	0.6
615 811 2660	615 811 2650	5/8	16	1/2	2.0	0.6

Always use a hose whip between the tool and the air supply hose. It provides safety and longer tool air inlet life.



EFFI MAX HOSES Light weight and flexible rubber hoses

PART #	DIMENSIONS (IDxOD)		LENGTH		MAX WORKING PRESSURE	AIR FLOW		WEIGHT PER 65.6 ft / 20m	
	in.ID	mm	ft	m	PSI (bar)	cfm	ls	lb	kg
615 810 9010	5/8	16x22.5	65.6	20	232 (16)	91.1	43	10.6	4.8
615 810 9020	3/4	20x26.1	65.6	20	232 (16)	159	75	11.9	5.4



EASY FLOW COUPLINGS & NIPPLES Optimal productivity with the lowest pressure drop

SIZE		MALE THREAD		FEMALE THREAD		HOSE CONNECTION	
in.	mm	PART # ISO 6150B ⁽¹⁾	PART # Europe ⁽²⁾	PART # ISO 6150B ⁽¹⁾	PART # Europe ⁽²⁾	PART # ISO 6150B ⁽¹⁾	PART # Europe ⁽²⁾
Easy Flow Couplings							
3/8	10	615 810 5090	615 810 6390	615 810 5110	615 810 6420	615 810 5460	615 810 6510
1/2	13	615 810 5100	615 810 6400	615 810 5120	615 810 6430	615 810 5470	615 810 6520
5/8	16	-	-	-	-	615 810 5480	615 810 6530
3/4	19	615 810 6350	615 810 6410	615 810 6370	615 810 6440	615 810 5490	615 810 6540
Nipples							
3/8	10	615 810 5840	615 810 6650	615 810 5860	615 810 6710	615 810 6180	615 810 6770
1/2	13	615 810 5850	615 810 6660	615 810 5870	615 810 6720	615 810 6190	615 810 6780
5/8	16	-	-	-	-	615 810 6200	615 810 6790
3/4	19	615 810 6920	615 810 6670	615 810 6940	615 810 6730	615 810 6210	615 810 6800

⁽¹⁾ ISO 6150B (11 mm) used in North America and France

⁽²⁾ Europe (10.4 mm) for all the other countries