



**Chicago
Pneumatic**



**People.
Passion.
Performance.**

Portable Diesel Compressors
Built for Reliable Performance

ROBUST AND READY FOR THE MOST DEMANDING CONDITIONS

Demanding conditions demand power you can count on. Chicago Pneumatic portable compressors are built to deliver that power. From the smallest construction units to the largest models for high pressure drilling, CP offers a full range to fit your needs. These robust models are designed for dependable performance in a wide variety of applications. They're also easy to maintain and operate, which helps keep productivity high.



**Chicago
Pneumatic**



Reliable. Flexible.

Easy to Maintain. Simple to Use.

When you need portable jobsite power, you can count on CP compressors. Every model in the line shares the same dependable design and smart features to enhance productivity. These units are an excellent partner for pneumatic tools such as rock drills, breakers, air guns, wrenches, dewatering pumps and abrasive blasting equipment. They can also provide backup power on the jobsite during power cuts and electrical failures.

EASY ACCESS

Canopy doors open up and out of the way for convenient routine maintenance

STURDY DESIGN

Ensures long-term reliability and durability

LOW NOISE LEVEL

Compressors are equipped with an efficient noise-dampening canopy



FUEL AUTONOMY

No need to refuel during a work shift, even when running non-stop at full load

**LATEST SCREW
ELEMENT TECHNOLOGY**

Asymmetric rotors allow for increased efficiency. In addition, a low rotor speed and few moving parts minimize wear and tear for reliable performance and long service life.

LARGE COOLING SURFACE

Allows optimal use in high-temperature environments

CLEAN INTAKE AIR

A high performance two-stage air intake filter prevents dust and dirt particles from entering the compressor and engine. A service indicator on the filter tells you when it needs replacement.

**FULLY AUTOMATIC
STEP-LESS SPEED
REGULATOR**

Adapts engine speed to air demand



EFFICIENT FUEL FILTER

High-efficiency multi-step fuel filtration with water separator isolates and traps contaminants to protect the engine



**USER-FRIENDLY
CONTROL PANEL**

Convenient and straightforward controls are grouped on a single panel for easy monitoring and operation



REPUTABLE ENGINE BRANDS

Every model has a powerful engine from a well-known and respected brand under its solid, weatherproof hood

AVAILABLE OPTIONS

- After cooler and water separator¹
- Heavy-duty air intake filter for compressor and diesel engine²
- Full ASME, MOM, AS1210 approval
- Cold weather pack for operating in temperatures below -10° C
- Available as a fixed unit or with a towable undercarriage³

¹ Not available for CPS 90, CPS 820-17 and CPS 770-21

² Not available for CPS 90, CPS 130 and CPS 185

³ Not available for 1200-23, 1100-21 and CPS 1000-19

General Construction

From residential and commercial construction to demolition and road maintenance, compressed air is essential on the job site to power the necessary tools. CP offers compressors in a wide range of sizes to fit the airflow and pressure requirements of the job — all designed to be robust and reliable to meet the needs of tough, demanding construction environments.

APPLICATIONS: On construction sites, CP portable air compressors are typically used to power hand-held pneumatic breakers, air guns, shotcrete equipment, pneumatic wrenches, nut runners and more. They are commonly used in applications such as building sites, road maintenance, bridges, tunnels, concrete pumping and shotcreting.

RECOMMENDED MODELS:

CPS 90, CPS 130, CPS 185, CPS 275 and CPS 400

Nominal Working Pressure: 7 bar (100 psi)

Free Air Delivery Range: 2.5 to 12 m³/min (88 to 424 cfm)

Maximum Ambient Air Temperature: 50 °C (122 °F)

Other models are also used in specific construction applications. See pages 12-13 for complete technical data.



ENGINEERED FOR HIGH PERFORMANCE
CP offers a full line of handheld pneumatic tools for renovation and construction jobs.



Dimension Stone Quarrying and Stabilization

Dimension stone quarries, stabilization projects and foundation excavation demand equipment that can stand up to hot, dust-filled working conditions. CP compressors are designed to do just that. High-power engines deliver the power margin to work in tough environments. Large fuel tanks allow uninterrupted operation for a full work shift. Plus, an oversized cooler pack helps ensure reliable performance in high ambient temperatures. Mechanical compressor controls and mechanically controlled engines also make CP compressors easy to use and service, which helps operators get to work fast and stay productive.

APPLICATIONS: CP compressors provide portable power for pneumatic rock drills, block cutters, dewatering pumps and hand-held pneumatic breakers. They are suited for stabilization projects on roads and building sites, as well as basement and foundation excavation for apartment blocks and other buildings.

RECOMMENDED MODELS:

CPS 350-10, CPS 350-12 and CPS 650-12

Nominal Working Pressure: 10 to 12 bar (150 to 170 psi)

Free Air Delivery Range: 10 to 18.4 m³/min (353 to 650 cfm)

Maximum Ambient Air Temperature: 50 to 53 °C (122 to 127 °F)

Other models are also used in specific dimensional stone quarrying and stabilization applications. See pages 12-13 for complete technical data.



Abrasive Blasting

For large abrasive blasting jobs in shipyards and industrial sites, robust equipment is a must. Demanding applications such as sandblasting ships and steel require a high volume of air and equipment with extended working time. CP compressors are the perfect match, with a range that's tuned to different blasting nozzle applications. Large fuel tanks also allow longer periods of uninterrupted operation, and an aftercooler option is available for moisture-free operation in dry ice blasting applications.



APPLICATIONS: CP compressors are suitable for abrasive blasting applications such as deburring and preparing surfaces for painting, anodizing, welding and other processes that require a clean surface. They are often used on shipyards, steel construction and large renovation jobs.

RECOMMENDED MODELS:

CPS 400, CPS 850, CPS 830-9, CPS 750-10 and CPS 950-10

Nominal Working Pressure: 7 to 10 bar (100 to 150 psi)

Free Air Delivery Range: 12 to 26.8 m³/min (424 to 946 cfm)

Maximum Ambient Air Temperature: 50 to 53 °C (122 to 127 °F)

*Other models also used in specific abrasive blasting applications.
See pages 12-13 for complete technical data.*



Blast Hole Drilling

From aggregate to cement to metal ore, blast hole drilling jobs are often located in tough, remote areas. These conditions require rugged equipment that's up to the task, and CP has the solution. CP compressors feature high-power engines to run reliably in high-temperature environments. Low ambient temperature and high-altitude starting aid options are available as well. Large fuel tanks also allow extended periods of uninterrupted operation, and the mechanical controls and components are easy to use and service for maximum uptime.

APPLICATIONS: CP compressors provide portable power for rock drills, dewatering pumps and hand-held breakers. Common applications include aggregate production for construction stabilization, cement production in limestone quarries and open pit mining.

RECOMMENDED MODELS:

CPS 750-10, CPS 650-12, CPS 580-14, CPS 950-10 and CPS 900-12

Nominal Working Pressure: 10 to 14 bar (150 to 200 psi)

Free Air Delivery Range: 16.1 to 26.8 m³/min (569 to 946 cfm)

Maximum Ambient Air Temperature: 53 °C (127 °F)

*Other models are also used in specific blast hole drilling applications.
See pages 12-13 for complete technical data.*



High Pressure Drilling

Water wells and geotechnical applications that require very deep drilling depend on high-powered air compressors to drive the drill rig. CP compressors are designed to get the job done. They feature an efficient, fast-reacting speed regulator that delivers consistent outlet pressure for stable hammer/drill operation and a high penetration rate. High pressure ensures faster operation, while high flow ensures larger drill diameter. And high ambient temperature operation is standard for reliable performance in demanding conditions, job after job.

**HIGHER
PRESSURE**
**DEEPER
HOLES**

APPLICATIONS: The CP range is suitable for Down The Hole (DTH) and rotary drilling, offering a comfortable operating zone for drill hole diameters from 4.5 to 8 in (11.4 to 20.3 cm). Common applications include drilling for water wells and foundations for high-rise buildings, as well as geotechnical/geothermal applications.

RECOMMENDED MODELS:

CPS 820-17, CPS 770-21, CPS 1200-23, CPS 1100-21 and CPS 1000-19

Nominal Working Pressure: 17 to 23 bar (250 to 330 psi)

Free Air Delivery Range: 21.8 to 34 m³/min (770 to 1,308 cfm)

Maximum Ambient Air Temperature: 50 to 56 °C (122 to 133 °F)

NOTE: Units CPS 1200-23, CPS 1100-21 and CPS 1000-19 require an external fuel tank and are not available with a wheeled undercarriage because they are specifically designed to be part of a larger installation. They are typically mounted on a truck or trailer with a hydraulic or pneumatic drill and ancillary equipment to create a complete drill rig. This design reduces the compressor footprint and increases efficiency, since all of the equipment on the rig can use a common fuel tank.



Technical Specifications and Application Data

DIESEL COMPRESSORS	CPS 90	CPS 130	CPS 185	CPS 275	CPS 400	CPS 350-10	CPS 350-12	CPS 850*	CPS 830-9*
Nominal Working Pressure bar (psi)	7 (100)	7 (100)	7 (100)	7 (100)	7 (100)	10 (150)	12 (170)	7 (100)	8.6 (125)
Free Air Delivery l/s cfm m ³ /min	42 88 2.5	58 124 3.5	88 187 5.3	132 279 7.9	200 424 12	173 367 10.4	167 353 10	398 844 23.9	387 819 23.2
Minimum Engine Speed rpm	2,400	1,850	1,850	1,400	1,500	1,500	1,500	1,400	1,400
Maximum Engine Speed rpm	3,000	2,400	2,750	2,000	2,300	2,300	2,300	2,200	2,100
Compressor Oil Capacity l (gal)	5.5 (1.5)	8.8 (2.3)	8.8 (2.3)	20 (5.3)	24 (6.3)	24 (6.3)	24 (6.3)	60 (15.9)	60 (15.9)
Air Outlet Valves	2xG ³ / ₄ "	2xG ³ / ₄ "	3xG ³ / ₄ "	1xG ¹ / ₂ " + 3xG ³ / ₄ "	1xG ¹ / ₂ " + 3xG ³ / ₄ "	1xG ¹ / ₂ " + 3xG ³ / ₄ "	1xG ¹ / ₂ " + 3xG ³ / ₄ "	1xG ² " + 1xG ³ / ₄ "	1xG ² " + 1xG ³ / ₄ "
Engine									
Engine Brand	Kubota	Deutz	Deutz	Cummins	Cummins	Cummins	Cummins	Cummins	Cummins
Engine Model	D1105	F3M2011	F3M2011	4BT3.9-C80	4BTAA3.9-C130	4BTAA3.9-C130	4BTAA3.9-C130	6CTAA8.3-C240	6CTAA8.3-C240
Engine Power kW (hp)	18.2 (24)	32.5 (44)	36 (48)	60 (80)	97 (130)	97 (130)	97 (130)	179 (240)	179 (240)
Engine Cooling	GenCool	Oil / Air	Oil / Air	GenCool	GenCool	GenCool	GenCool	GenCool	GenCool
Electrical System V	12	12	12	24	24	24	24	24	24
Engine Oil Capacity l (gal)	5.1 (1.3)	6.5 (1.7)	6.5 (1.7)	9 (2.4)	9 (2.4)	9 (2.4)	9 (2.4)	19 (5.0)	19 (5.0)
Fuel Tank Capacity l (gal)	32 (8.5)	80 (21.1)	80 (21.1)	185 (48.9)	185 (48.9)	185 (48.9)	185 (48.9)	350 (92.5)	350 (92.5)
Fuel Autonomy at 100% Load hr	8	16	12	15	10	10	10	11	11
Dimensions									
Transport Dimensions without Undercarriage									
Length mm (in)	1,580 (62)	1,980 (78)	1,980 (78)	2,235 (88)	2,235 (88)	2,235 (88)	2,235 (88)	3,281 (129)	3,281 (129)
Width mm (in)	1,050 (41)	1,167 (46)	1,167 (46)	1,180 (46)	1,180 (46)	1,180 (46)	1,180 (46)	1,670 (66)	1,670 (66)
Height mm (in)	918 (36)	978 (39)	978 (39)	1,623 (64)	1,623 (64)	1,623 (64)	1,623 (64)	1,868 (74)	1,868 (74)
Operational Weight kg (lb)	475 (1,047)	800 (1,764)	800 (1,764)	1,400 (3,086)	1,580 (3,483)	1,580 (3,483)	1,580 (3,483)	2,725 (6,008)	2,725 (6,008)
Transport Dimensions with Undercarriage									
Length mm (in)	2,100 (83)	2,300 (91)	2,300 (91)	2,862 (113)	2,862 (113)	2,862 (113)	2,862 (113)	3,525 (139)	3,525 (139)
Width mm (in)	1,310 (52)	1,400 (55)	1,400 (55)	1,790 (70)	1,790 (70)	1,790 (70)	1,790 (70)	1,770 (70)	1,770 (70)
Height mm (in)	1,205 (47)	1,280 (50)	1,280 (50)	1,908 (75)	1,908 (75)	1,908 (75)	1,908 (75)	2,292 (90)	2,292 (90)
Operational Weight kg (lb)	556 (1,226)	960 (2,116)	960 (2,116)	1,500 (3,307)	1,680 (3,704)	1,680 (3,704)	1,680 (3,704)	3,500 (7,716)	3,500 (7,716)

*Also available with a Cummins 6LTA8.9-C240 (8900 cc) engine.

APPLICATIONS	CPS 90	CPS 130	CPS 185	CPS 275	CPS 400	CPS 350-10	CPS 350-12	CPS 850	CPS 830-9
General Construction	●	●	●	●	●	○	○	○	○
Dimension Stone Quarries						●	●		
Stabilization						●			○
Abrasive Blasting			○	○	●			●	●
Dry Ice Blasting							●		
Blast Hole Drilling									
High Pressure Drilling									

● = Common Application ○ = Special Application

In addition to specialized applications, most of the CP compressor range can also be used for backup power in industrial applications, such as during power cuts or service work on electric-driven industrial compressors. They can also be installed on service trucks to power pneumatic tools such as nut runners and torque wrenches for roadside maintenance.

CPS 750-10	CPS 650-12	CPS 580-14	CPS 950-10	CPS 900-12	CPS 820-17	CPS 770-21	CPS 1200-23	CPS 1100-21	CPS 1000-19
10 (150)	12 (170)	14 (200)	10 (150)	12 (170)	17 (250)	21 (300)	23 (330)	21 (300)	19 (275)
337 713 20.2	307 650 18.4	268 569 16.1	447 946 26.8	410 869 24.6	385 816 23.1	363 770 21.8	567 1,200 34	519 1,100 31.1	490 1,308 29.4
1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,900	1,800	1,800
2,200	2,200	2,200	2,000	2,000	2,000	2,000	1,200	1,200	1,200
60 (15.9)	60 (15.9)	60 (15.9)	65 (17.2)	65 (17.2)	70 (18.5)	70 (18.5)	72 (19)	72 (19)	72 (19)
1xG2" + 1xG ³ / ₄ "	1xG2" + 1xG ³ / ₄ "	1xG2" + 1xG ³ / ₄ "	1xG2" + 1xG ³ / ₄ "	1xG2" + 1xG ³ / ₄ "	1xG2" + 1xG ³ / ₄ "	1xG2" + 1xG ³ / ₄ "	1xG2"	1xG2"	1xG2"
Cummins	Cummins	Cummins	Cummins	Cummins	Cummins	Cummins	Cummins	Cummins	Cummins
6CTAA8.3-C240	6CTAA8.3-C240	6CTAA8.3-C240	6LTAA8.9-C315	6LTAA8.9-C315	6LTAA8.9-C315	6LTAA8.9-C315	NTA855 BC III	NTA855 BC III	NTA855 BC III
179 (240)	179 (240)	179 (240)	232 (311)	232 (311)	232 (311)	232 (311)	321 (430)	309 (415)	295 (395)
GenCool	GenCool	GenCool	GenCool	GenCool	GenCool	GenCool	GenCool	GenCool	GenCool
24	24	24	24	24	24	24	24	24	24
19 (5.0)	19 (5.0)	19 (5.0)	28 (7.4)	28 (7.4)	28 (7.4)	28 (7.4)	32 (8.5)	32 (8.5)	32 (8.5)
350 (92.5)	350 (92.5)	350 (92.5)	430 (114)	430 (114)	512 (135.3)	512 (135.3)	No fuel tank available (external tank needed)	No fuel tank available (external tank needed)	No fuel tank available (external tank needed)
11	11	11	12	12	13	13	-	-	-
3,281 (129)	3,281 (129)	3,281 (129)	3,984 (157)	3,984 (157)	3,984 (157)	3,984 (157)	4,200 (165)	4,200 (165)	4,200 (165)
1,670 (66)	1,670 (66)	1,670 (66)	1,800 (71)	1,800 (71)	1,800 (71)	1,800 (71)	2,200 (87)	2,200 (87)	2,200 (87)
1,868 (74)	1,868 (74)	1,868 (74)	2,200 (87)	2,200 (87)	2,200 (87)	2,200 (87)	2,800 (110)	2,800 (110)	2,800 (110)
2,725 (6,008)	2,725 (6,008)	2,725 (6,008)	4,245 (9,359)	4,245 (9,359)	5,010 (11,045)	5,010 (11,045)	4,300 (9,480)	4,300 (9,480)	4,300 (9,480)
3,525 (139)	3,525 (139)	3,525 (139)	4,210 (166)	4,210 (166)	4,210 (166)	4,210 (166)	-	-	-
1,770 (70)	1,770 (70)	1,770 (70)	1,800 (71)	1,800 (71)	1,800 (71)	1,800 (71)	-	-	-
2,292 (90)	2,292 (90)	2,292 (90)	2,631 (104)	2,631 (104)	2,631 (104)	2,631 (104)	-	-	-
3,500 (7,716)	3,500 (7,716)	3,500 (7,716)	4,600 (10,141)	4,600 (10,141)	5,365 (11,828)	5,365 (11,828)	-	-	-

CPS 750-10	CPS 650-12	CPS 580-14	CPS 950-10	CPS 900-12	CPS 820-17	CPS 770-21	CPS 1200-23	CPS 1100-21	CPS 1000-19
○	●		○	○					
○			○						
●			●						
	●	●	○						
●	●	●	●	●	○				○
					●	●	●	●	●

Parts and Accessories

Trust Chicago Pneumatic for all the quality parts and lubricants you need to extend the life of your compressor and eliminate the risk of costly breakdowns. Choose from a full selection of lubricants, coolants and maintenance kits. These kits provide all the parts you need for scheduled maintenance in one box, which can help save time and worries.



MAINTENANCE KITS	Service Packs	Oil Separator Service Kits
CPS 90	250 Hours or Yearly – 1625 0010 41 500 Hours or Yearly – 1625 0010 42	1625 0010 56
CPS 130	500 Hours or Yearly – 1625 0010 44	1625 0010 57
CPS 185	500 Hours or Yearly – 1625 0010 45	1625 0010 57
CPS 275	500 Hours or Yearly – 2912 4554 05 1,000 Hours or Yearly – 2912 4555 06	2911 0160 00
CPS 400, CPS 350-10, CPS 350-12	200 Hours or Yearly – 2205 5193 10 1,000 Hours or Yearly – 2205 5193 11	2205 4065 22
CPS 850, CPS 830-9, CPS 750-10, CPS 650-12, CPS 580-14	200 Hours or Yearly – 2205 5193 17 1,000 Hours or Yearly – 2205 5193 18 2,000 Hours or Every Two Years – 2205 5193 19	Included in 2,000 Hour Kit
CPS 950-10, CPS 900-12	200 Hours or Yearly – 2205 5193 17 1,000 Hours or Yearly – 2205 5193 18 2,000 Hours or Every Two Years – 2205 5193 19	Included in 2,000 Hour Kit
CPS 820-17, CPS 770-21	200 Hours or Yearly – 2205 5193 17 1,000 Hours or Yearly – 2205 5193 24 2,000 Hours or Every Two Years – 2205 5193 25	Included in 2,000 Hour Kit
CPS 1200-23, CPS 1100-21, CPS 1000-19	1,000 Hours or Yearly – 9096 9404 10 2,000 Hours or Every Two Years – 9096 9404 11	9096 9404 13

SERVICE KITS	CPS 90	CPS 130 CPS 185	CPS 275 CPS 400 CPS 350-10 CPS 350-12	CPS 850 CPS 830-9 CPS 750-10 CPS 650-12 CPS 580-14	CPS 950-10 CPS 900-12	CPS 820-17 CPS 770-21	CPS 1200-23 CPS 1100-21 CPS 1000-19
Road Axle Bearings Braked	1625 0010 05	1625 0010 07	—	—	—	—	—
Road Axle Bearings Non Braked	—	1625 0010 08	—	—	—	—	—
Unloading Valve	2911 0051 00	2911 0051 00	2911 0074 00	2910 3003 00	2910 3003 00	2910 3003 00	2910 3003 00
Speed Regulator	2911 0052 00	2911 0052 00	2911 0052 00	2911 0052 00	2911 0052 00	2911 0052 00	2910 3606 00
Brake Shoes	2911 0067 00	1625 0010 06	—	—	—	—	—
Element Mounting	2911 0147 00	2911 0141 00	—	—	—	2910 4041 00 2911 0120 00	—
Air Temperature Switch	1605 0636 00	1605 0636 00	—	2205 1767 56	1605 0636 00	2205 1769 92	—
Cooling Water Temperature Switch	—	—	2205 1765 82	1605 0636 00	2205 1767 52	2205 1767 52	—
Engine Oil Pressure Switch	—	—	2205 1764 16	2205 1764 18	2205 1764 18	2205 1764 18	—
Regulating Valve	—	—	2911 0090 00	2910 3005 00	2910 3005 00	2910 3005 00	2910 3005 00
Minimum Pressure Valve	—	—	2205 4905 97	2205 4905 98	2205 4905 98	2254 4905 98	2914 8345 00
Thermostatic Valve	—	—	—	2205 5265 20	2205 5265 20	2205 5265 20	1202 5869 05
Oil Stop Valve	—	—	—	2205 5193 92	2906 0094 00	2911 0118 00	2911 0118 00

FLUID CAPACITIES	Engine Oil L (gal)	Compressor Oil L (gal)
CPS 90	5.1 (1.3)	5.5 (1.5)
CPS 130, CPS 185	6.5 (1.7)	8.8 (2.3)
CPS 275	9 (2.4)	20 (5.3)
CPS 400, CPS 350-10, CPS 350-12	9 (2.4)	24 (6.3)
CPS 850, CPS 830-9, CPS 750-10 CPS 650-12, CPS 580-14	19 (5.0)	60 (15.9)
CPS 950-10, CPS 900-12	28 (7.4)	65 (17.2)
CPS 820-17, CPS 770-21	28 (7.4)	75 (19.8)
CPS 1200-23, CPS 1100-21, CPS 1000-19	32 (8.5)	72 (19)

LUBRICANTS (All models)	Size	Part Number
GENOIL – Standard Engine Oil	5 Liter Can	1626 2262 00
GENOIL – Standard Engine Oil	20 Liter Can	1626 2263 00
GENOIL – Cold Start Engine Oil	5 Liter Can	1626 2258 00
GENOIL – Cold Start Engine Oil	20 Liter Can	1626 2259 00
GENOIL – M Standard Compressor Oil	5 Liter Can	1626 2260 00
GENOIL – M Standard Compressor Oil	20 Liter Can	1626 2261 00
GENOIL – S Cold Start Compressor Oil	20 Liter Can	1630 0175 00

COOLANTS (All models except CPS 130 and CPS 185)	Size	Part Number
Gencool EG	5 Liter Can	1626 2255 00
Gencool EG	20 Liter Can	1626 2256 00
Gencool Concentrate	5 Liter Can	1626 2257 00



Over 100 Years of Experience

Since 1901 the Chicago Pneumatic name has represented high-performance tools and equipment designed for an extensive range of applications. Today, Chicago Pneumatic has a global reach, with local customer centers around the world. Chicago Pneumatic tools and air compressors are tailored to the needs of the industrial, vehicle service, and construction markets. Every day we develop and manufacture new products that are meant to meet your demands not only today, but tomorrow as well.

For more information, please contact your CP partner:

Use only authorized parts. Any damage or malfunction caused by the use of unauthorized parts is not covered by Warranty or Product Liability.