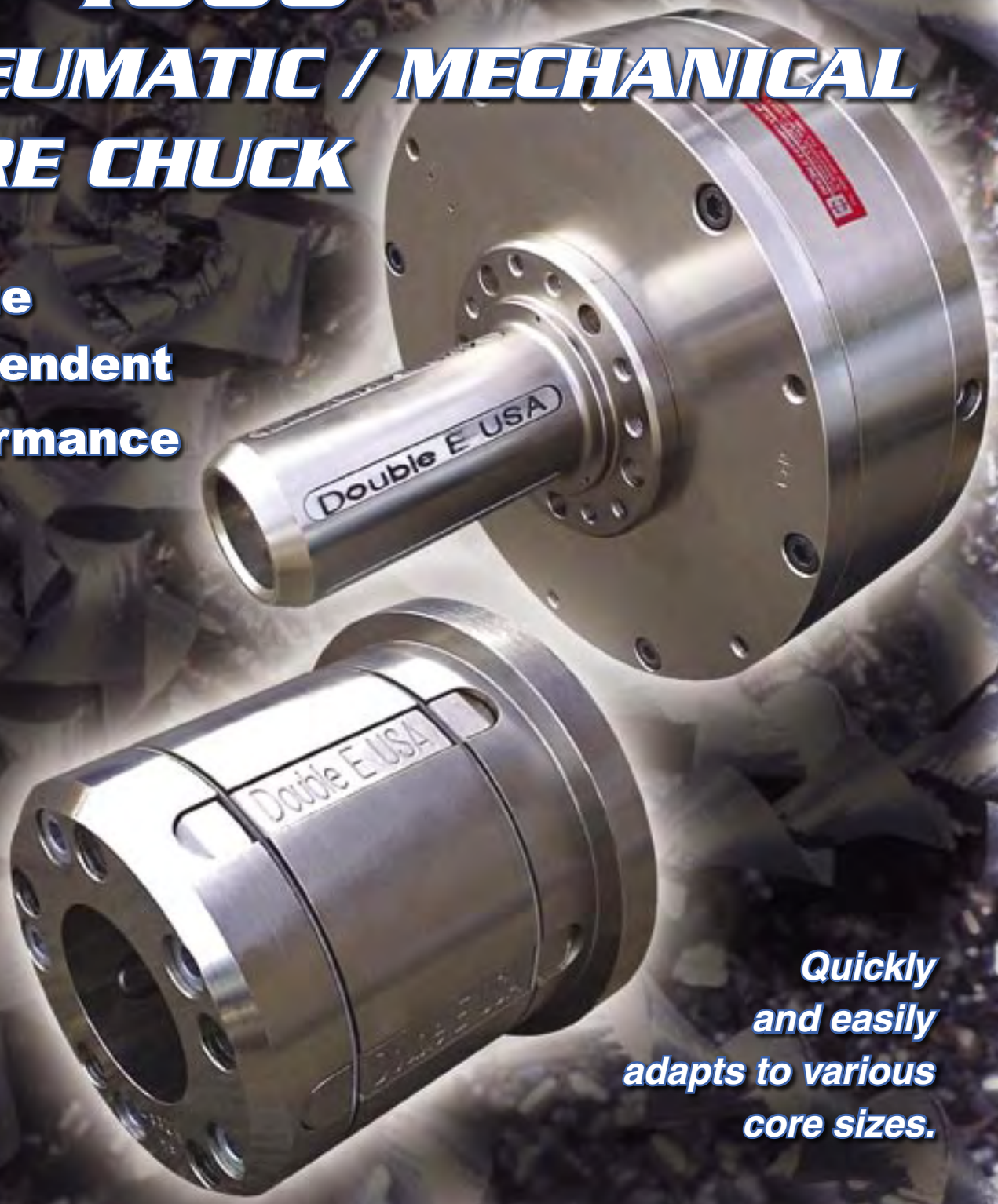
PC-4000
PNEUMATIC / MECHANICAL CORE CHUCK

Torque
Independent
Performance



Quickly and easily adapts to various core sizes.

DOUBLE E COMPANY, LLC

Excellence in Engineering

THE PC–4000 CORE CHUCK

The PC-4000 adapts easily to fit various core sizes.

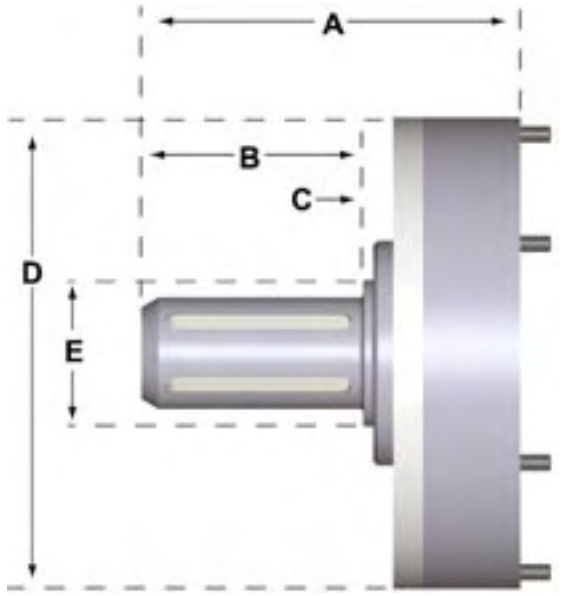
The PC-4000 Pneumatic/Mechanical Core Chuck delivers constant gripping force to any core material regardless of torque magnitude or direction. It works without operator intervention, and is typically designed for constant air supply to enhance grip reliability.

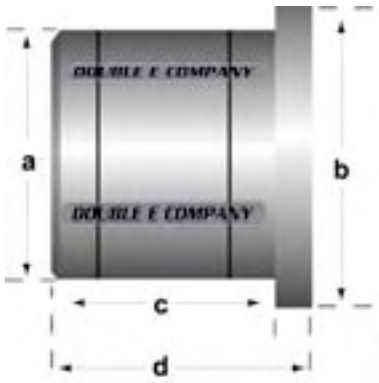
This chuck is ideal for unwind or rewind systems that feature non-conventional brakes or drives (surface drive, regenerative brakes, or turret systems that drive and then brake the roll).

GENERAL SPECIFICATIONS

Adapters for the PC–4000

Type in. [mm]	Core Size In. [mm]	Body Type	Weight * Lb. [kg]	Expansion Range In. [mm]	a in. [mm]	b in. [mm]	c in. [mm]	d in. [mm]
3 - 5 [76.2 - 127]	5 [127]	steel	18 [8.2]	4.82 ~ 5.21 [122.5 ~ 132]	4.82 [122]	5.70 [145]	5.60 [142]	6.35 [161.3]
3 - 6 [76.2 - 152.4]	6 [152.4]	steel	33 [15]	5.82 ~ 6.21 [148 ~ 157.5]	5.82 [148]	6.70 [170]	5.60 [142]	6.35 [161.3]
3 - 8 [76.2 - 203]	8 [203]	alum	35 [16]	7.82 ~ 8.21 [199 ~ 208]	7.82 [199]	8.69 [220.7]	5.60 [142]	6.35 [161.3]
3 - 10 [76.2 - 254]	10 [254]	alum	55 [25]	9.82 ~ 10.21 [249.5 ~ 259]	9.82 [250]	10.69 [271.5]	5.60 [142]	6.35 [161.3]
6 - 8 [152.4 - 203]	8 [203]	steel	42 [19]	7.82 ~ 8.21 [199 ~ 208]	7.82 [199]	9.50 [241]	6.00 [152.4]	6.75 [171.5]
6 - 10 [152.4 - 254]	10 [254]	alum	50 [23]	9.82 ~ 10.21 [250 ~ 259]	9.82 [250]	10.75 [273]	6.00 [152.4]	6.75 [171.5]
6 - 12 [152.4 - 304.8]	12 [304.8]	alum	62 [28]	11.77 ~ 12.16 [290 ~ 309.7]	11.77 [299]	12.75 [324]	6.00 [152.4]	6.75 [171.5]





PC–4000 Base Chuck

Core I.D. In. [mm]	Piston Size In. [mm]	Weight* Lb. [kg]	Torque Per Chuck Max. in.-lb. [NM]	Max. Roll Weight Lb. [kg]	Expansion Range in. [mm]	Gripping Lug Quantity	A in. [mm]	B in. [mm]	C in. [mm]	D in. [mm]	E in. [mm]
3 [76.2]	6 [152.4]	43* [19.5]	2200 [250]	4500 [2040]	2.75 ~ 3.15 [70 ~ 80]	5	9.55 [243]	5.60 [142]	0.75 [19]	7.98 [202.7]	3.60 [91.4]
3 [76.2]	8 [203.2]	55* [25]	3600 [400]	7000 [3200]	2.75 ~ 3.15 [70 ~ 80]	5	9.55 [243]	5.60 [142]	0.75 [19]	9.55 [242.6]	3.60 [91.4]
3 [76.2]	10 [254]	72* [32.7]	5600 [630]	11000 [5000]	2.75 ~ 3.15 [70 ~ 80]	5	9.55 [243]	5.60 [142]	0.75 [19]	11.6 [294.6]	3.60 [91.4]
3 [76.2]	12 [304.8]	107* [48.5]	8000 [900]	15000 [6800]	2.75 ~ 3.15 [70 ~ 80]	5	9.55 [243]	5.60 [142]	0.75 [19]	13.6 [345.4]	3.60 [91.4]
6 [152.4]	10 [254]	98 [44.5]	11000 [1240]	11000 [5000]	5.75 ~ 6.15 [146 ~ 156]	8	9.55 [243]	5.56 [141]	0.75 [19]	11.6 [294.6]	7.50 [190.5]
6 [152.4]	12 [304.8]	122 [55.8]	16000 [1800]	15000 [6800]	5.75 ~ 6.15 [146 ~ 156]	8	9.55 [243]	5.56 [141]	0.75 [19]	13.78 [350]	7.50 [190.5]

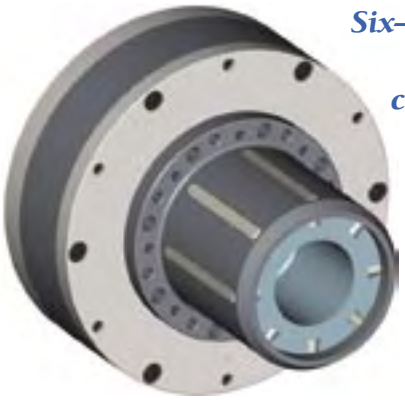
Non-standard base chucks and adapters can be made according to customer requirements.

* The weight is for the base chuck only, and does not include the customer's adapter seal plate.

DOUBLE E COMPANY

DESIGN

- **Activating piston**
  Uses precision guide pins to locate it during operation, reducing friction and wear on the lugs and housing.



Six–inch base chuck

- **Gripping lugs**
  More lugs help reduce core distortion and improve torque capacity. Double E's three-inch base chuck has five lugs while the six-inch model uses eight.

- **Heat–treated sliding parts**
  Help to ensure positive lug retraction and easy maintenance.

UNIQUE FEATURES OF THE PC–4000 PNEUMATIC CHUCK

Torque independent in either direction.

Concentric expansion and gripping force.

Easy and inexpensive to maintain.

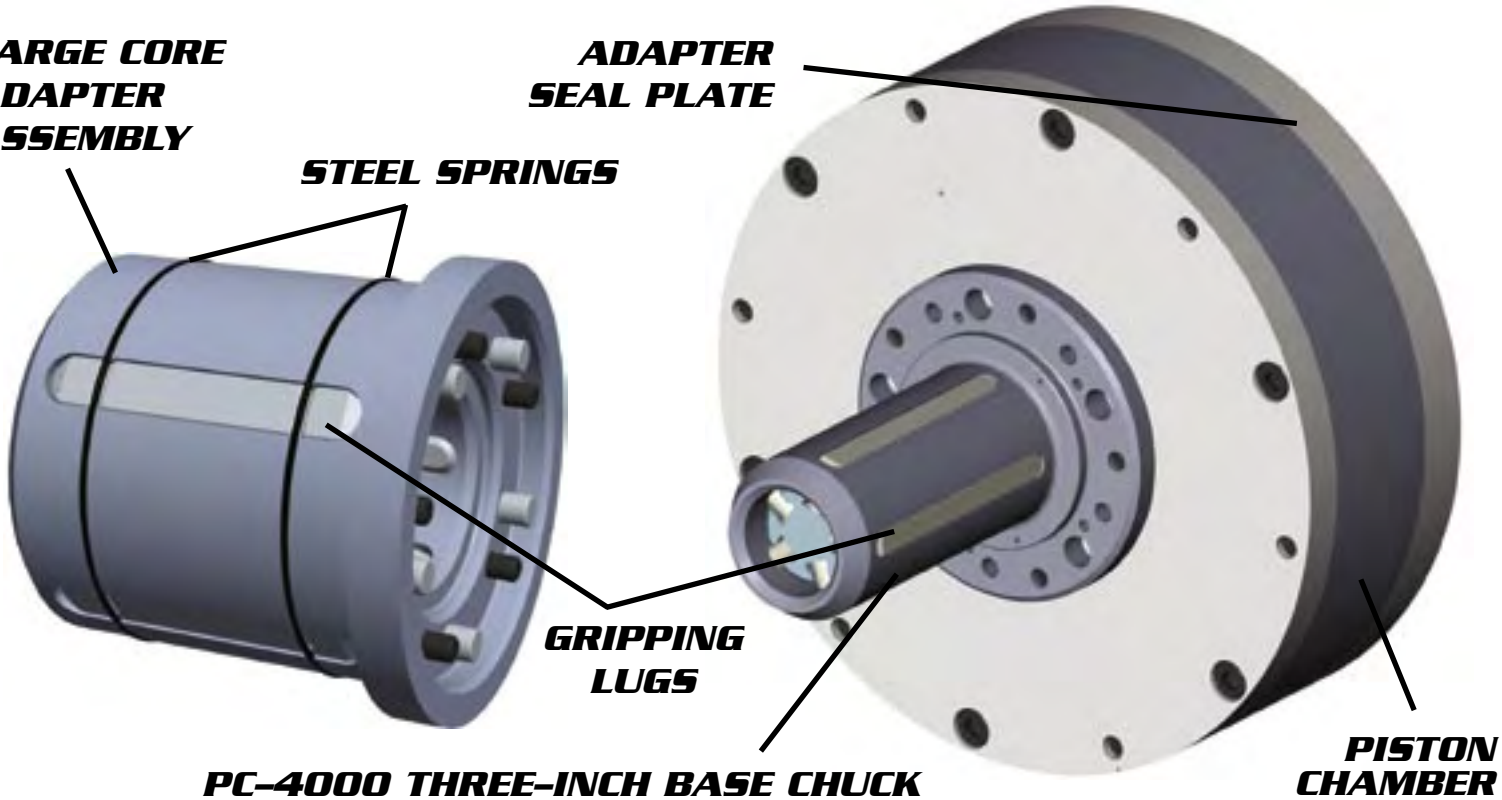
Compact, low-inertia design.

Consistent and reliable gripping capacity.

Quick-change between multiple core sizes.

- **Compact, proprietary packaging**
- **Comprehensive one–year warranty**
- **Adapters for multiple core sizes**
  Slide–on adapters make it easy to switch among core sizes.

COMPONENTS OF THE PC–4000



PC-4000 SPECIFICATIONS

Please fax the following information to (508) 580-2915; we'll contact you with a formal quotation.

Company: _____ Date: _____

Name: _____ Title: _____

Address: _____

City/State/ZIP: _____

Telephone: _____ Fax: _____ E-mail: _____

CORE SPECIFICATIONS

Core Material: Steel ❑ Aluminum ❑ Plastic ❑ Fiber ❑ Steel Capped ❑ EE Composite ❑ Other: _____

Core Inside Diameter: _____ Core I. D. Tolerance ±: _____ Number of Core Reuses: _____

Comments: _____

ROLL SPECIFICATIONS

Max. Roll Weight: _____ Max. Roll Diameter: _____ Max. Roll Width: _____

Max. Web Tension (lb./linear in.): _____ Max Web Speed (ft./min.): _____ Web Thickness/Wt.: _____

Web Material: Board ❑ Paper ❑ Film ❑ Foil ❑ Other: _____

Min. Emer. Stopping Time: _____ Acceleration Time: _____ Deceleration Time: _____

ROLL STAND SPECIFICATIONS

Roll Stand Manufacturer: _____ Model Number: _____ Approximate Age: _____

Max. Throw (max. distance between left & right spindle flange surfaces): _____ Air Pressure (PSI): _____

Type of Wind: Unwind ❑ Rewind ❑ Single Brake/Drive ❑ Dual Brake/Drive ❑

Inlet Air Location / Type: Rotary Union at Center ❑ Air Valve at Side ❑

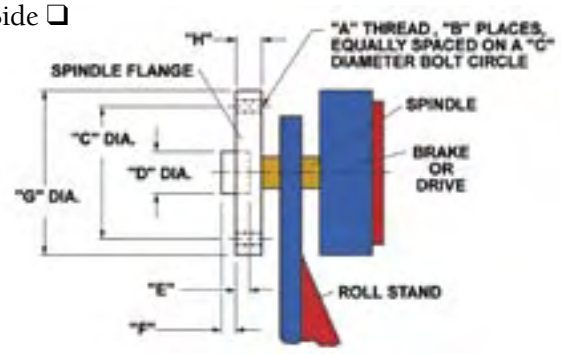
SPECIFICATIONS FOR STANDARD FLANGE MOUNTED CHUCK

"A" Thread Size: _____ "B" Places Equally Spaced: _____

"C" Diameter Bolt Circle: _____ "D" Arbor Pilot Diameter: _____

"E" Pilot Depth Female: _____ "F" Pilot Width Male: _____

"G" Spindle Flange O.D.: _____ "H" Spindle Flange Width: _____



www.doubleeusa.com

DOUBLE E COMPANY, LLC

319 Manley Street, West Bridgewater, MA 02379 U.S.A.
Tel: (508) 588-8099 / Fax: (508) 580-2915
e-mail: doublee@doubleeusa.com

The SR71 was first introduced in 1965 as a state-of-the-art spy plane. At the time, it revolutionized aerodynamic technology, and to this day it represents superior engineering, speed, strength, and being the best. The Double E Company is proud to have the consent of Lockheed Aircraft to use the SR71 as its corporate symbol.