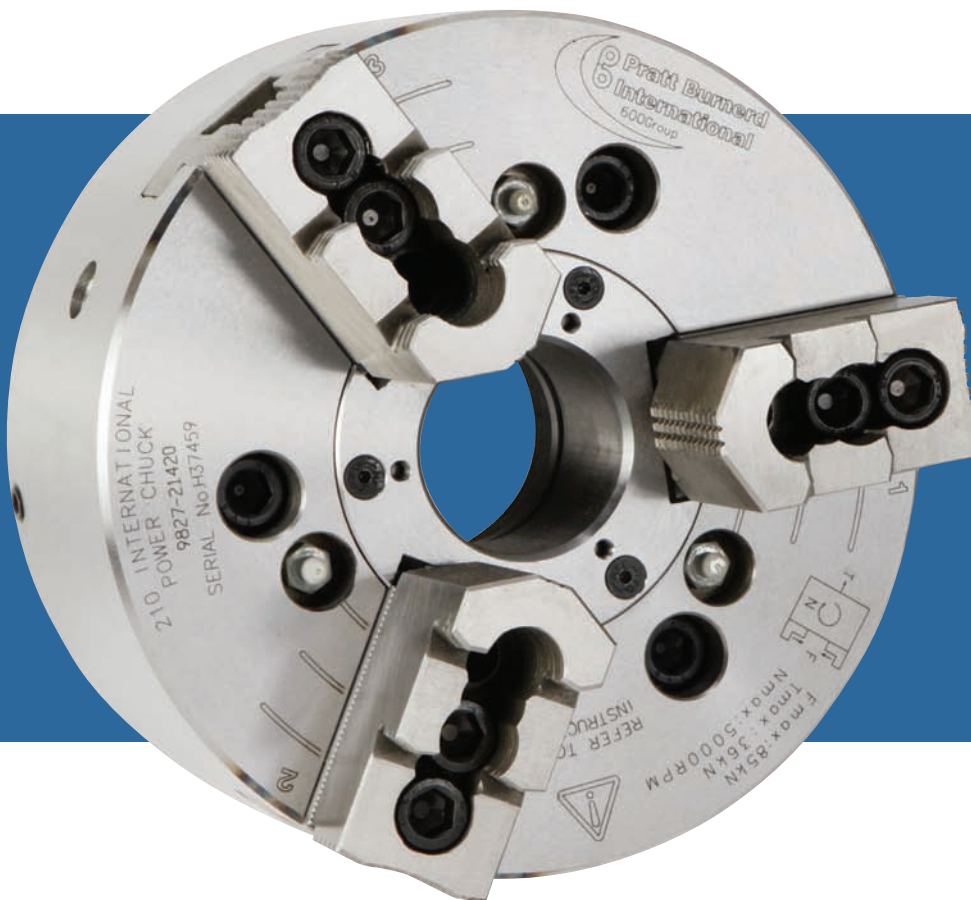




# Pratt Burnerd

World leading Chucks and Chucking Systems



POWER CHUCKS



# International Power Chucks

**The International Power Chuck from Pratt Burnerd.**

**The ideal chuck for conventional and high speed applications.**

The design and quality of the Independent Power Chuck makes it ideal for both conventional and high speed applications, where operating costs are reduced because of larger through bores, wide jaw movement and high operating speeds.

## Key features:

- High tensile steel body
- Repeatability of  $\pm 12 \mu\text{m}$
- 120 $\mu\text{m}$  adjustable Setrite feature built into the chuck body, allowing the user to adjust workpiece centrality to virtually zero, saving time and extending top jaw life
- Ideal for high chucking speed operations – up to 6000 rpm
- Extra large bores to accommodate bar/pipe work and supplied with cover plate for closed centre
- Utilises the lathes' existing actuating cylinder, including short stroke versions
- 1.5mm x 60° or 1/16 x 90° jaw serrations available, to suit existing top tooling
- Easily removable blank sleeve connector in the chuck allows you to bore and thread to the existing drawtube or bar, on any type of lathe
- 12 month warranty

Chuck Dia (mm)	Max speed (RPM)	Chuck body width Max (mm)	Jaw Movement (mm)	Sleeve Stroke (mm)	Bore (mm)	Bar Capacity (mm)	Operating Force (KN)	Grip Force (KN)	Approx Weight (Kg)
125	8000	75	3.1	12	27	25.4	18	42	5
150	6000	72	3.1	12	43	41.3	24	57	8
165	6000	111	4.3	16	43	41.3	24	57	13
170	6000	93	4.3	16	52	41.3	24	57	13
210	5000	102	4.3	16	52	51.8	36	85	22
210KB	5000	93	4.3	16	65	63.5	39	92	20
254	4200	108	4.9	18.5	65	63.5	48	114	36
265	4200	108.5	4.9	18.5	77	76.2	48	114	40
305	3300	121	4.9	18.5	90	88.9	60	142	57
380	2500	148	5.3	20	126	123.8	75	177	98
460	2000	196	9.5	36	141	139.7	100	237	175
530	1800	196	9.5	36	141	139.7	120	285	210
610	1500	205	9.5	36	166	165.1	120	285	285



## Self Contained Power Chucks

**Pratt Burnerd offers a range of pneumatically-operated power chucks with an incorporated cylinder.**

The Self Contained Power Chuck simply bolts onto the lathe spindle nose - no rear mounted cylinder or drawtube is required, just airline connections from the control unit.

The chuck's simplicity allows rapid interchangeability with standard manual chucks or collet chucks and is perfect for small and medium batch component production on conventional lathes and all models of CNC machines for either bar or chucking work.

These easy retrofit self contained power chucks can quickly help you turn your existing manual lathe into a production machine.

### Key features:

- Precision manufactured to fit types A and D spindles and adaptor mounting
- Suitable for all bar and chucking work
- Repetitive gripping within 25µm TIR
- Failsafe – chuck operates independently of air supply when gripping
- No separate actuating cylinder is required
- No drawtube to restrict bore
- Less overhang and lighter in weight
- Quick, simple lever or foot pedal operation
- Minimum of maintenance is required
- Sizes 160mm to 350mm available
- Optional top jaws available
- 1/16" x 90° serrated master jaws supplied as standard
- 12 month warranty

Chuck Dia	Part number Recess mount		Cam lock		American Short taper
160	9760-01710	D1-3	9762-21710	—	
		D1-4	9762-31710	—	
		D1-5	9762-41710	A2-5	9761-31710
		D1-6	9762-51710	A2-6	9761-41710
200	9760-02110	D1-4	9762-32110	—	
		D1-5	9762-42110	A2-5	9761-32110
		D1-6	9762-52110	A2-6	9761-42110
250	9760-02610	D1-5	9762-42610	—	
		D1-6	9762-52610	A2-6	9761-42610
		D1-8	9762-62610	A2-8	9761-52610
315	9760-03210	D1-8	9762-63210	A2-8	9761-53210
		D1-11	9762-73210	A2-11	9761-63210
350	9760-03510	D1-8	9762-63510	A2-8	9761-53510
		D1-11	9762-73510	A2-11	9761-63510



# Gripfast Power Chucks

## Key features:

- Quick change jaw system that allows base and top jaw sets to be exchanged in **under 30 seconds**, utilising either hard or machined soft jaws or your existing library of special top jaws, 60°, 90° or cross tenon etc
- Replaces a Collet chuck. The base jaws are ground to accept Collet pads within the chuck body for accuracy and increased gripping performance
- Setrite feature for finite adjustment ensures better and more consistent surface finish of the component
- Optional mandrel attachment allows internal gripping without necessity to remove and replace the chuck
- The Top Jaw Setting Fixture allows the operator to prepare top tooling for his next job while the machine is cutting metal
- The unique in-built anti-centrifugal counterbalance mechanism reduces loss of grip at high speeds
- **Average payback time of less than 6 months**

Gripfast Chuck Model	Body Dia (mm)	Mount Size	Speed (RPM)	Jaw Movement (mm)	Sleeve Movement (mm)	Chuck Bore (mm)	Collet pad bar capacity diameter (mm)	Tooling holes	Operating force (KN)	Gripping force (KN)	Chuck Weight (Kg)
9131-217**	160	A2-4	6000	3.5	16	42	38	5/16 UNC	24	47	18
9131-317**	160	A2-5	6000	3.5	16	42	38	5/16 UNC	24	47	17
9131-417**	160	A2-6	6000	3.5	16	42	38	5/16 UNC	24	47	16
9131-321**	210	A2-5	5500	3.5	16	52	51	5/16 UNC	24	66	30
9131-421**	210	A2-6	5500	3.5	16	52	51	5/16 UNC	24	66	29
9131-522**	210	A2-8	5500	3.5	16	52	51	5/16 UNC	24	66	28
9131-422**	210KB	A2-6	5500	3.5	16	66	63	5/16 UNC	24	66	28
9131-426**	254	A2-6	5000	4	18.5	66	63	3/8 UNC	32	88	42
9131-526**	254	A2-8	5000	4	18.5	66	63	3/8 UNC	32	88	41
9131-527**	265KB	A2-8	5000	4	18.5	77	76	3/8 UNC	32	88	51
9131-531**	305	A2-8	4200	4	18.5	90	76	3/8 UNC	44	121	68
9131-631**	305	A2-11	4200	4	18.5	90	76	3/8 UNC	44	121	67
9131-532**	315KB	A2-8	4200	4	18.5	102	101.6	3/8 UNC	44	121	70
9131-632**	315KB	A2-11	4200	4	18.5	102	101.6	3/8 UNC	44	121	69
9131-538**	380	A2-8	3000	5	20	125	114	3/8 UNC	60	139	135
9131-638**	380	A2-11	3000	5	20	125	114	3/8 UNC	60	139	134
9131-645**	450	A2-11	2500	6	25	142	139	1/2 UNC	69	170	145
9131-646**	460	A2-11	2500	6	25	142	139	1/2 UNC	69	170	144
9131-650**	500	A2-11	2500	6	25	142	139	1/2 UNC	69	250	160
9131-750**	500	A2-15	2500	6	25	142	139	1/2 UNC	69	250	159
9131-661**	610	A2-11	1800	6	25	160	158	1/2 UNC	92	345	180
9131-761**	610	A2-15	1800	6	25	160	158	1/2 UNC	92	345	179

\*\* For base jaws with 60deg serration part number ends 23

\*\* For base jaws with 90deg serration part number ends 10

\*\* For base jaws with cross tenon part number ends

Larger diameters and bore sizes available on request.

2 jaw chuck also available on request.

Larger sizes available on request



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