

Magneta Simplatorque magnetic particle brakes

Type 14.512

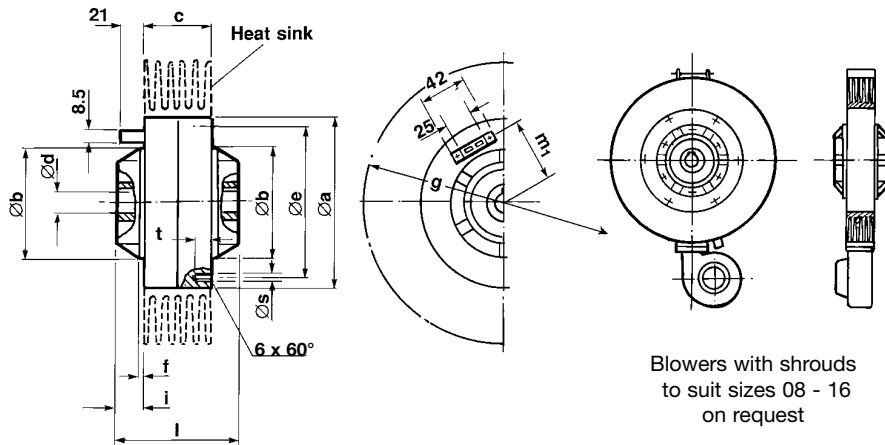
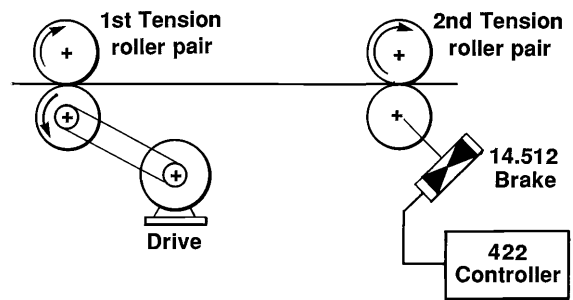
Special magnetic powder energised by an electromagnetic coil generates a braking torque from the stationary housing to the shaft.

Torque controllable proportional to applied current

Suits continuous slip on unwinds and pinch rolls, also small dynamometers

Smooth, shock free torque

Torque accuracy of 1 – 2% possible with use of the 422 controller



Shafts must be horizontal.

Ask for product catalogue 2/99.
Brochures:
392888 – Operating instructions
and
393017 – Controller operating instructions

Simplatorque brakes operate best at speeds above 15 r/min.

Blowers with shrouds to suit sizes 08 - 16 on request

Size	Rated torque Nm	Bore* dH7	P 20°C W	Stockline No.		a ₆₇	b ₁₇	c	e	g	i	l	m ₁	s	t	Heat dissipation W**	
				without heat sink	with heat sink											without heat sink	with heat sink
01	10	14	11	B2-70 778	B2-70 76X	100	70	45	90	160	20	85	39	M5	10	25	85
02	20	20	16	B2-70 751	B2-70 743	120	80	50	110	200	24	98	47	M6	10	40	120
04	40	24	19	B2-70 735	B2-53 57X	150	96	60	135	250	24	108	58	M6	10	60	220
08	80	35	16	B2-70 727	B2-70 89X	200	135	65	185	320	33.5	132	82.5	M8	12	100	280
16	160	42	26	B2-70 881	B2-53 868	250	180	70	235	400	28	126	106	M10	14	130	400
32	320	60	28	B2-70 865	B2-70 857	320	235	80	300	480	35	150	137	M10	16	210	630

* Other bores on request, keyways to BS4235

** Blowers increase heat dissipation by 2.5 times

Stockline numbers in black – delivery time on request.

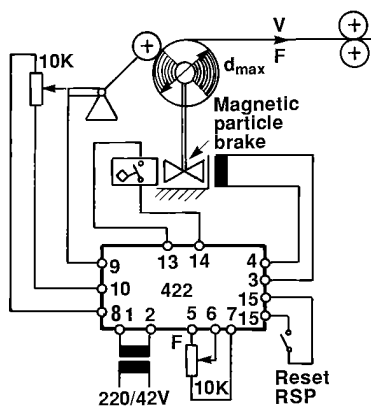
Unit weights are as for clutches

For common dimensions see also facing page

Ordering example

(3) off Simplatorque magnetic particle brakes with heat sink, Model 14.512.04, 35mm bore

Stockline No. **B3-53 57X**



Brake and controller used in roll follower arm tension control system

Thermal selection

It is essential that Simplatorque brakes are not damaged by overheating. Heat generated on an unwind is defined by:

$$\text{Heat (W)} = \text{Pull (N)} \times \text{Line speed (m/s)}$$

The steady state dissipation figures above are for guidance only. Always check from the detailed catalogue, available on request.

Current controllers

The 422 current controllers suit all sizes of Simplatorque clutches and brakes. They are supplied complete with transformer for mains 220/240V connection and accept control voltage signals or 10k Ω potentiometer control.

Controller Type	Stockline number
422 open	B2-18 500

CLUTCHES & BRAKES