

DOSSIER TECHNIQUE



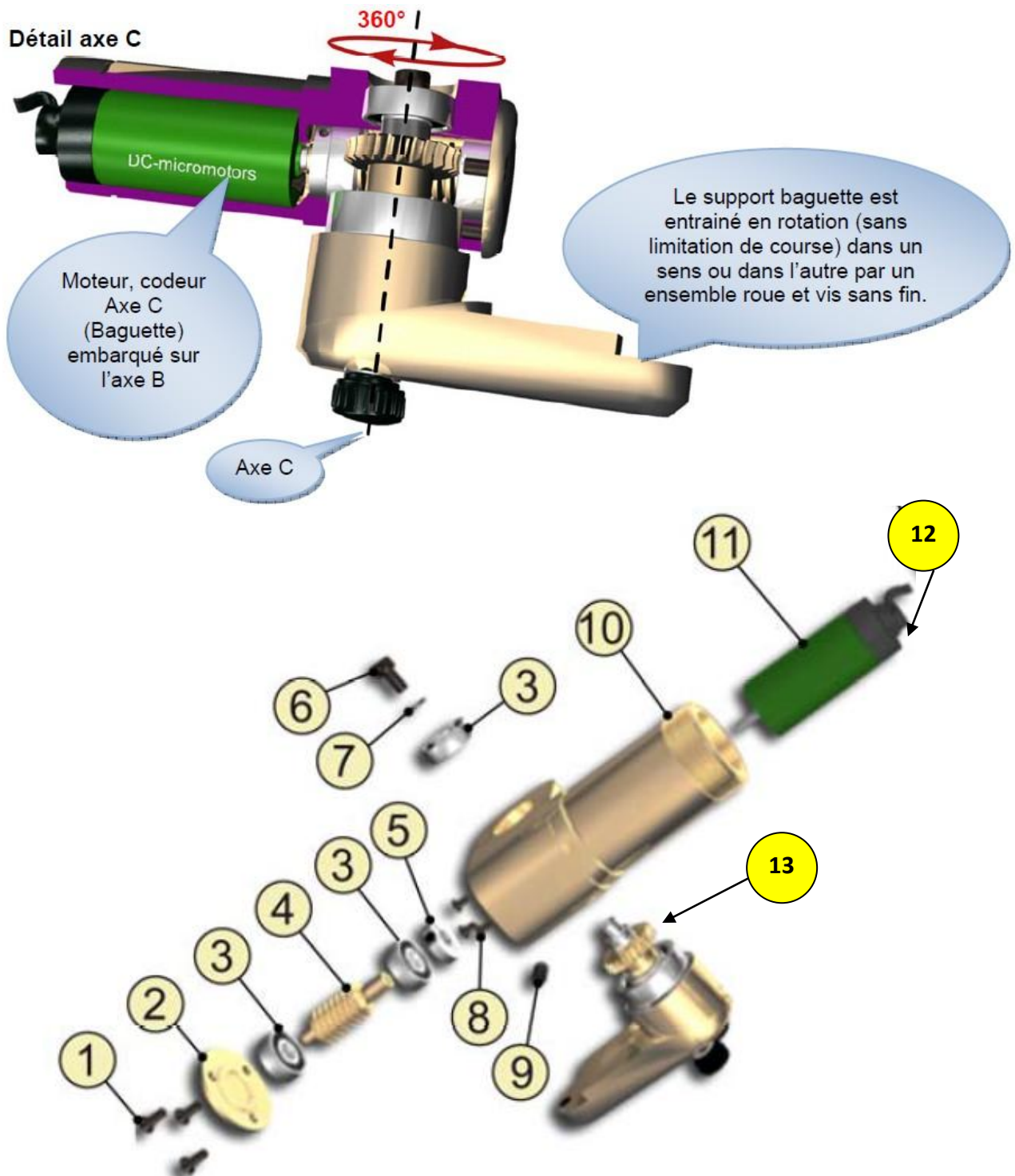
STRUCTURE GENERALE DE L'AXE BAGUETTE.....2

MOTEUR de L'AXE BAGUETTE3

CODEUR DE L'AXE BAGUETTE4

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STRUCTURE GENERALE DE L'AXE BAGUETTE

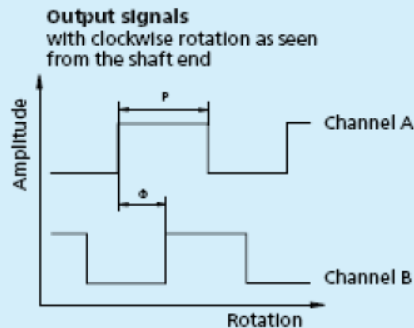


Repère	Intitulé	Description
11	Moteur axe baguette	Référence : 2657 W012 CR
12	Codeur	Référence : IE2-64
4	Vis sans fin	N=1 filet
13	Roue dentée	Z=25 dents

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CODEUR DE L'AXE BAGUETTE

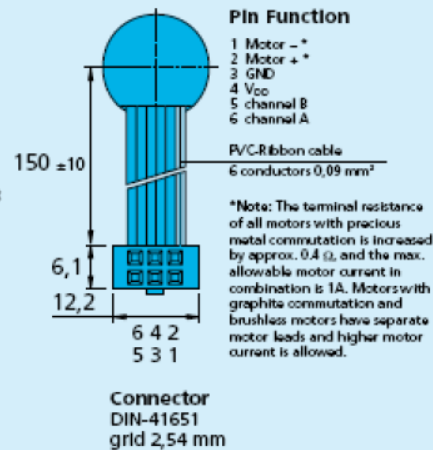
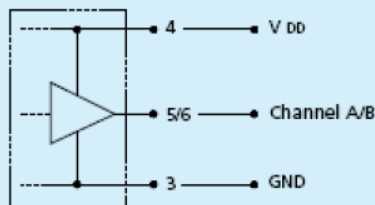
Output signals / Circuit diagram / Connector Information



Admissible deviation of phase shift:

$$\Delta\Phi = \left| 90^\circ - \frac{\Phi}{P} \times 180^\circ \right| \leq 45^\circ$$

Output circuit



Series IE2 – 512

		IE2 – 64	IE2 – 128	IE2 – 256	IE2 – 512	
Lines per revolution	N	64	128	256	512	channels
Signal output, square wave		2				V DC
Supply voltage	V _{DD}	4,5 ... 5,5				mA
Current consumption, typical (V _{DD} = 5 V DC)	I _{DD}	typ. 6, max. 12				mA
Output current, max. ¹⁾	I _{OUT}	5				°e
Pulse width	P	180 ± 45				°e
Phase shift, channel A to B	Φ	90 ± 45				μs
Signal rise/fall time, max. (C _{LOAD} = 50 pF)	tr/tf	0,1 / 0,1				kHz
Frequency range ²⁾ , up to	f	20	40	80	160	gcm ²
Inertia of code disc ³⁾	J	0,09				°C
Operating temperature range		- 25 ... + 85				

¹⁾ V_{DD} = 5 V DC: Low logic level < 0,5 V, high logic level > 4,5 V: CMOS and TTL compatible

²⁾ Velocity (rpm) = f (Hz) × 60/N

³⁾ For the brushless DC-Servomotors 1628 ... B, 2036 ... B and 2444 ... B the inertia of code disc is J = 0,14 gcm²

Ordering Information

Encoder	number of channels	lines per revolution	In combination with:
IE2 – 64	2	64	DC-Micromotors series 1336 ... C, 1516 ... SR, 1524 ... SR, 1717 ... SR, 1724 ... SR, 1727 ... C, 2224 ... SR, 2232 ... SR, 2342 ... CR, 2642 ... CR, 2657 ... CR, 3242 ... CR, 3257 ... CR, 3863 ... C
IE2 – 128	2	128	
IE2 – 256	2	256	
IE2 – 512	2	512	
			Brushless DC-Servomotors series 1628 ... B, 2036 ... B, 2057 ... B, 2444 ... B