SPIN

Applicazioni Magnetiche S.r.l.

BPM Overlay – IM Overlay

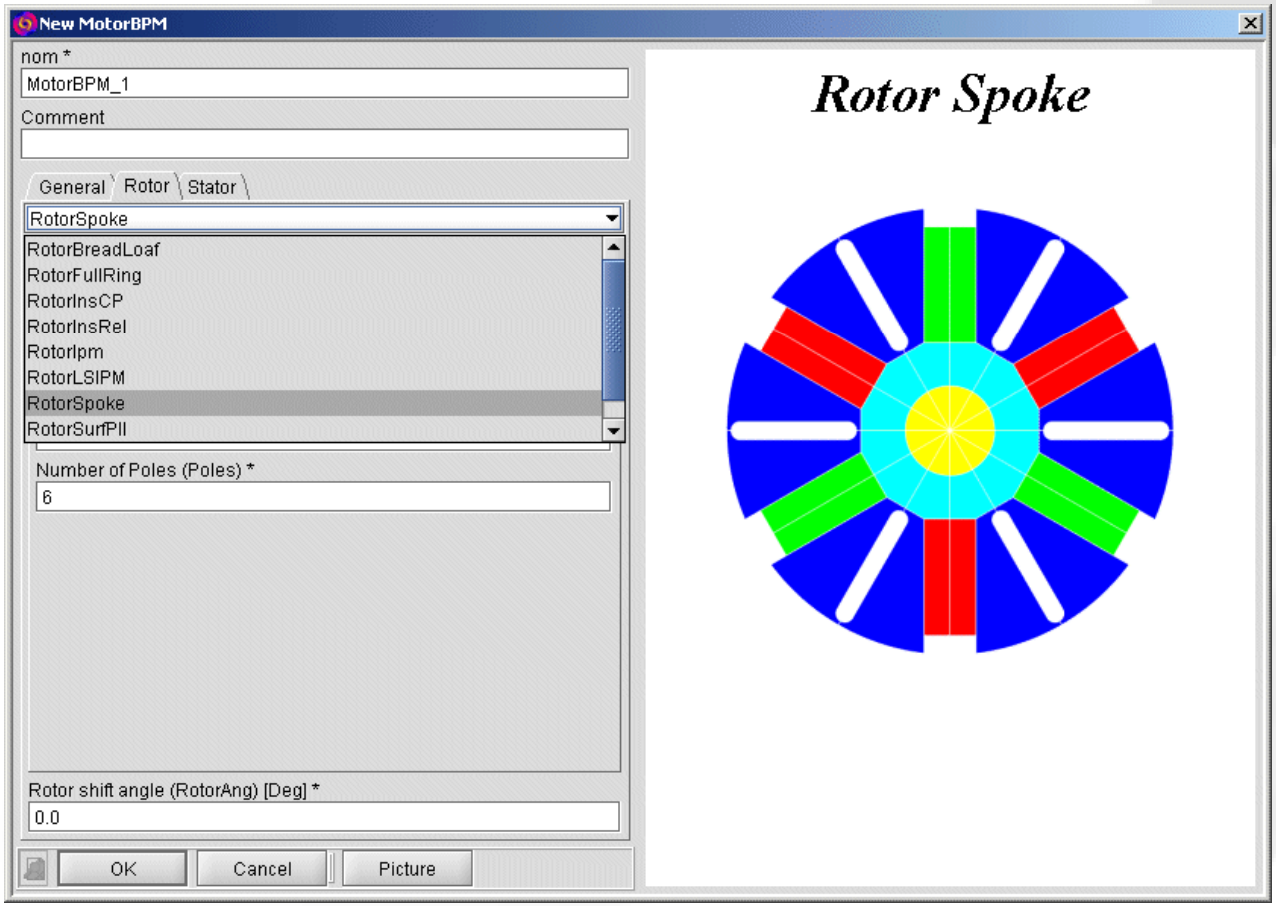
Uno strumento per l'analisi di motori brushless e ad induzione mediante il programma FEM *FLUX*

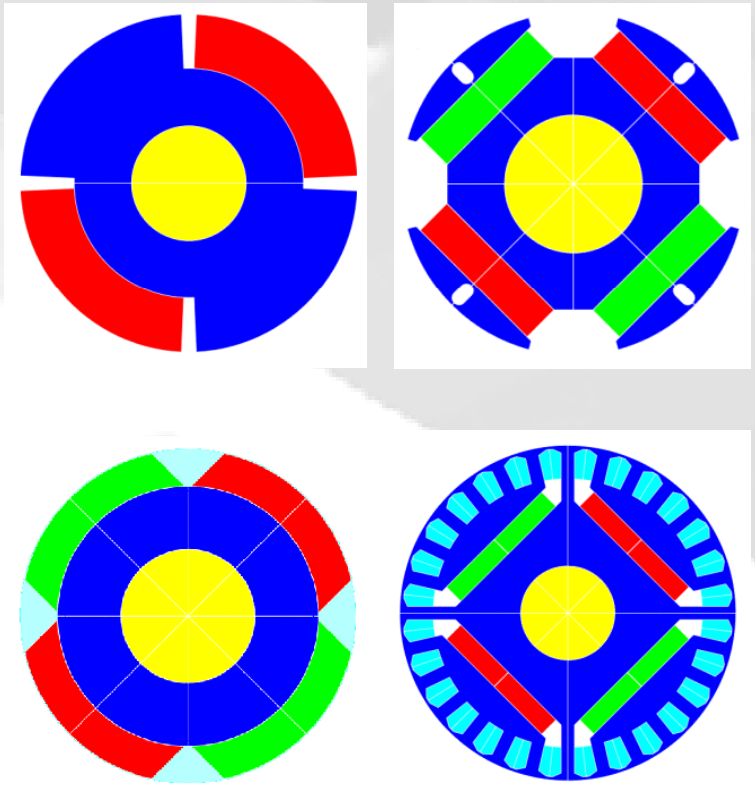
Obiettivi

- Creare il modello del motore brushless da analizzare con FLUX attraverso l'inserimento di un limitato numero d'informazioni
- Ottenere la mesh automatica del modello
- Assegnare correttamente le fasi dell'avvolgimento alle regioni del modello

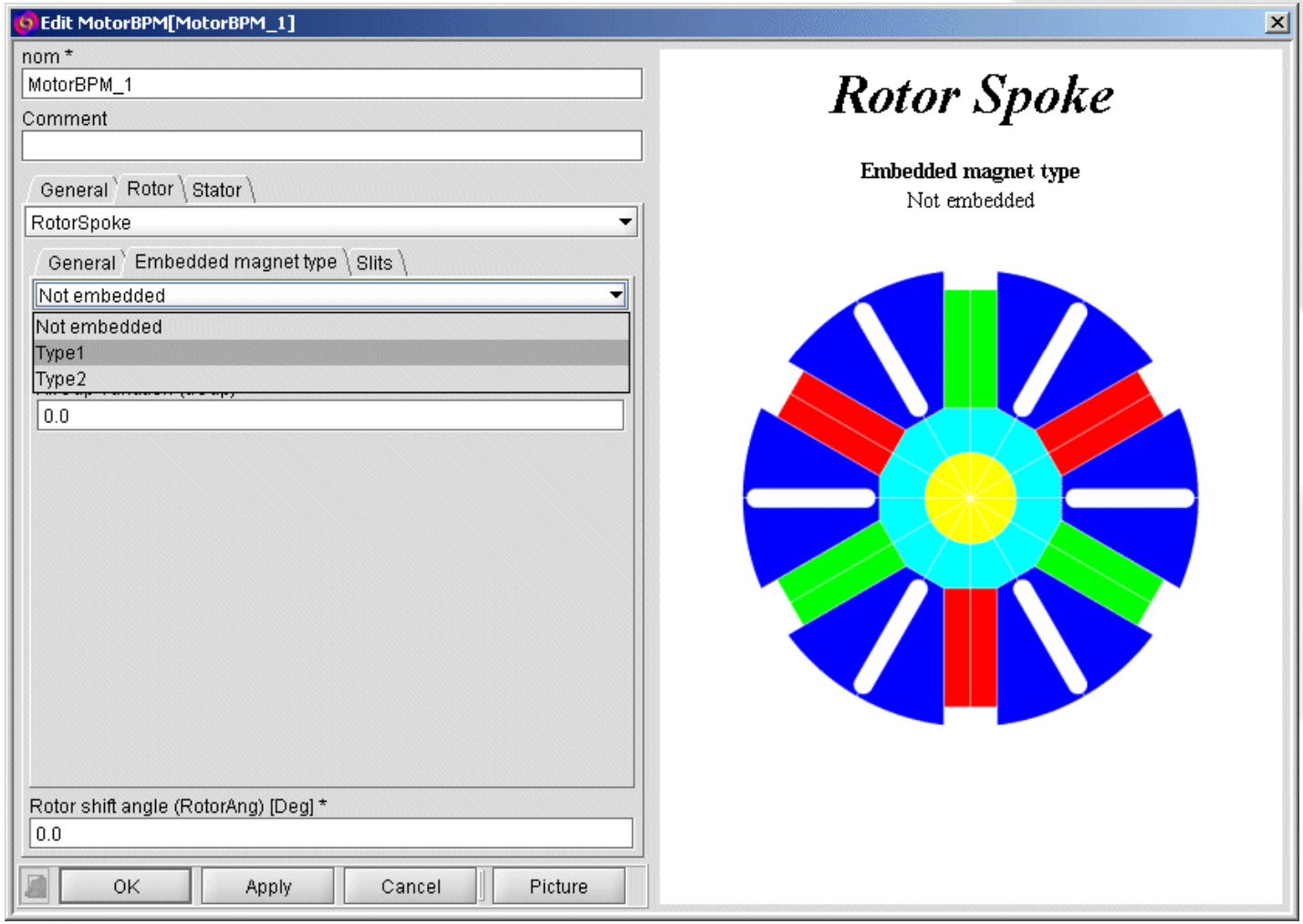
Creazione di un nuovo modello

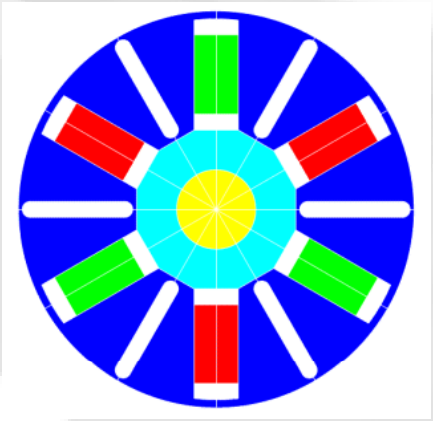
9 tipologie di rotore

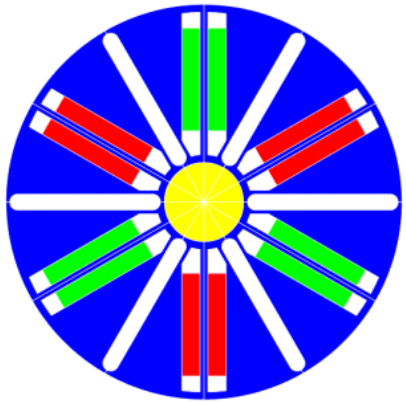




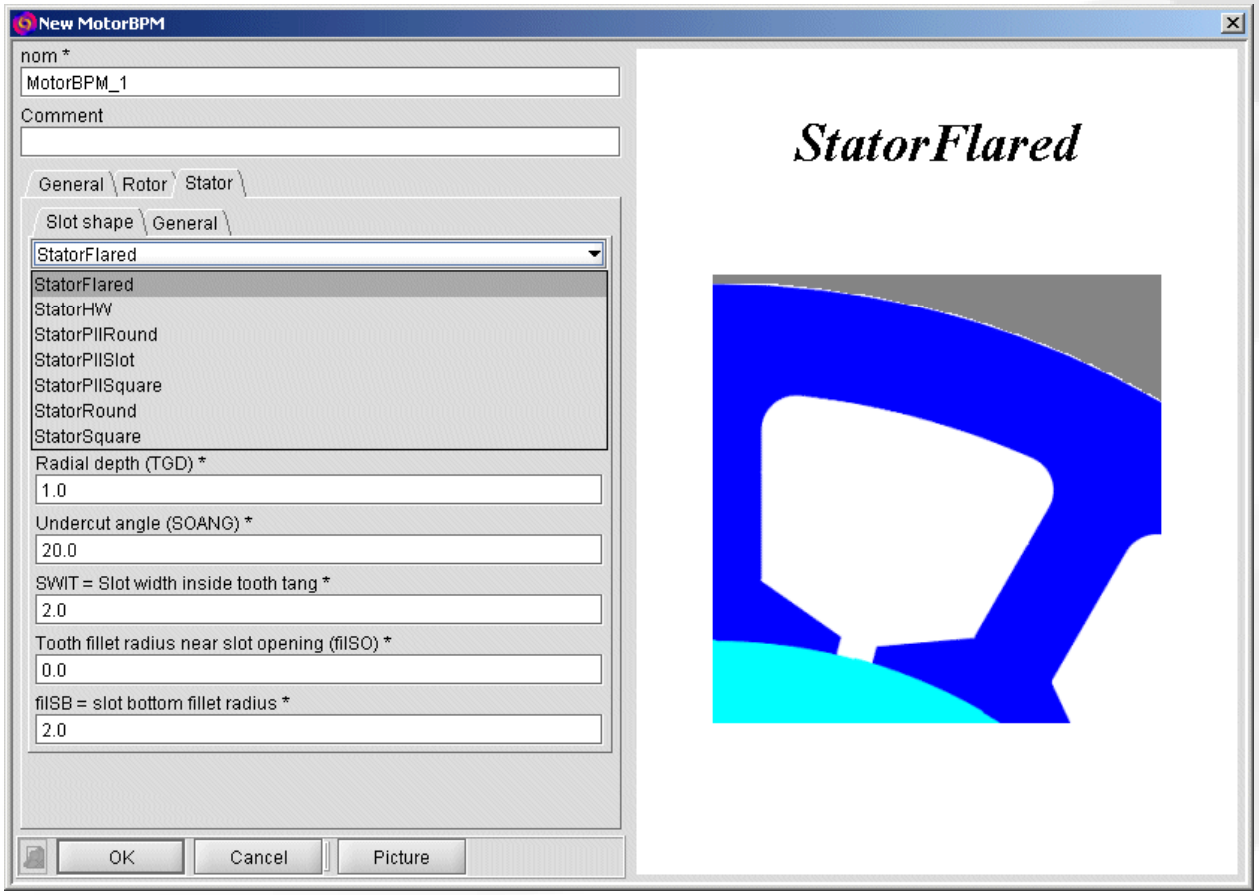
e diverse opzioni di magneti embedded per ogni tipologia

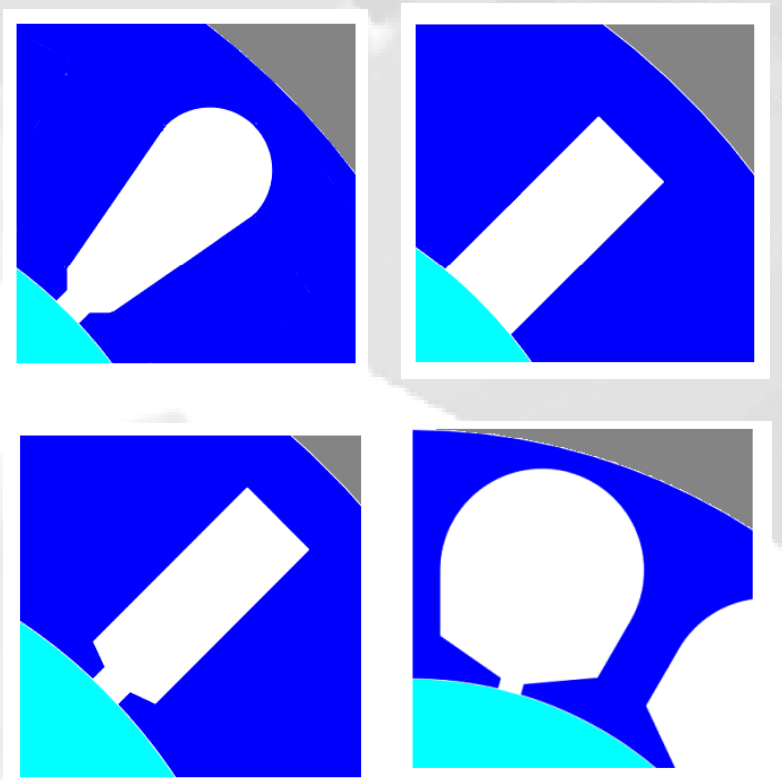




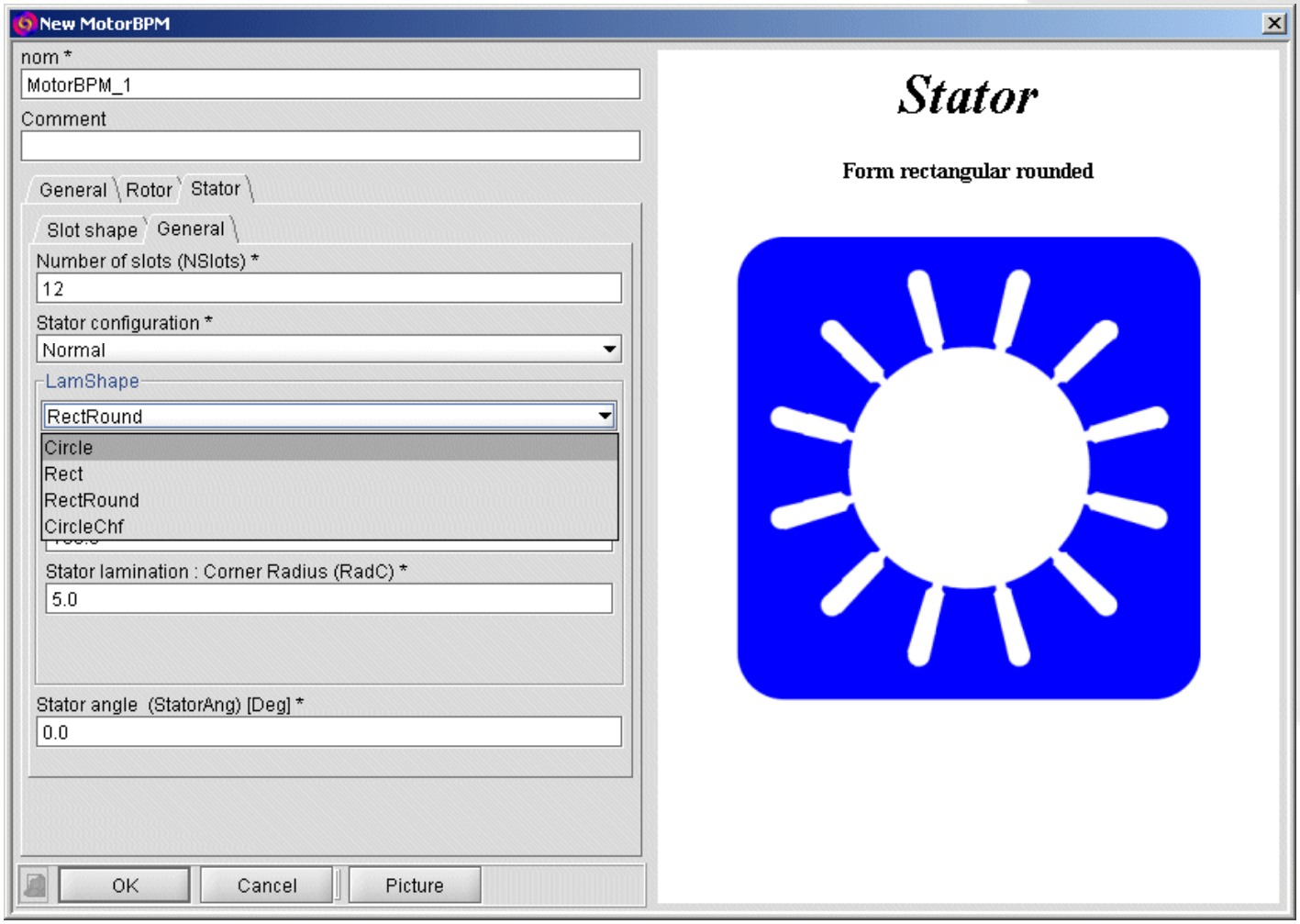


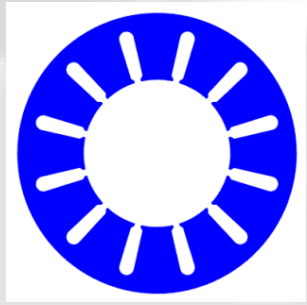
8 tipologie di cave

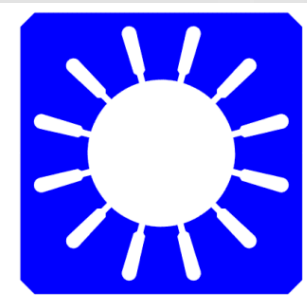


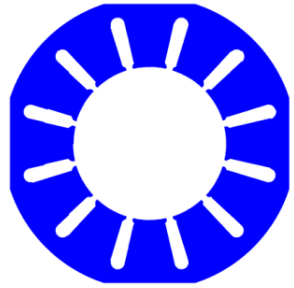


4 sagome del lamierino di statore

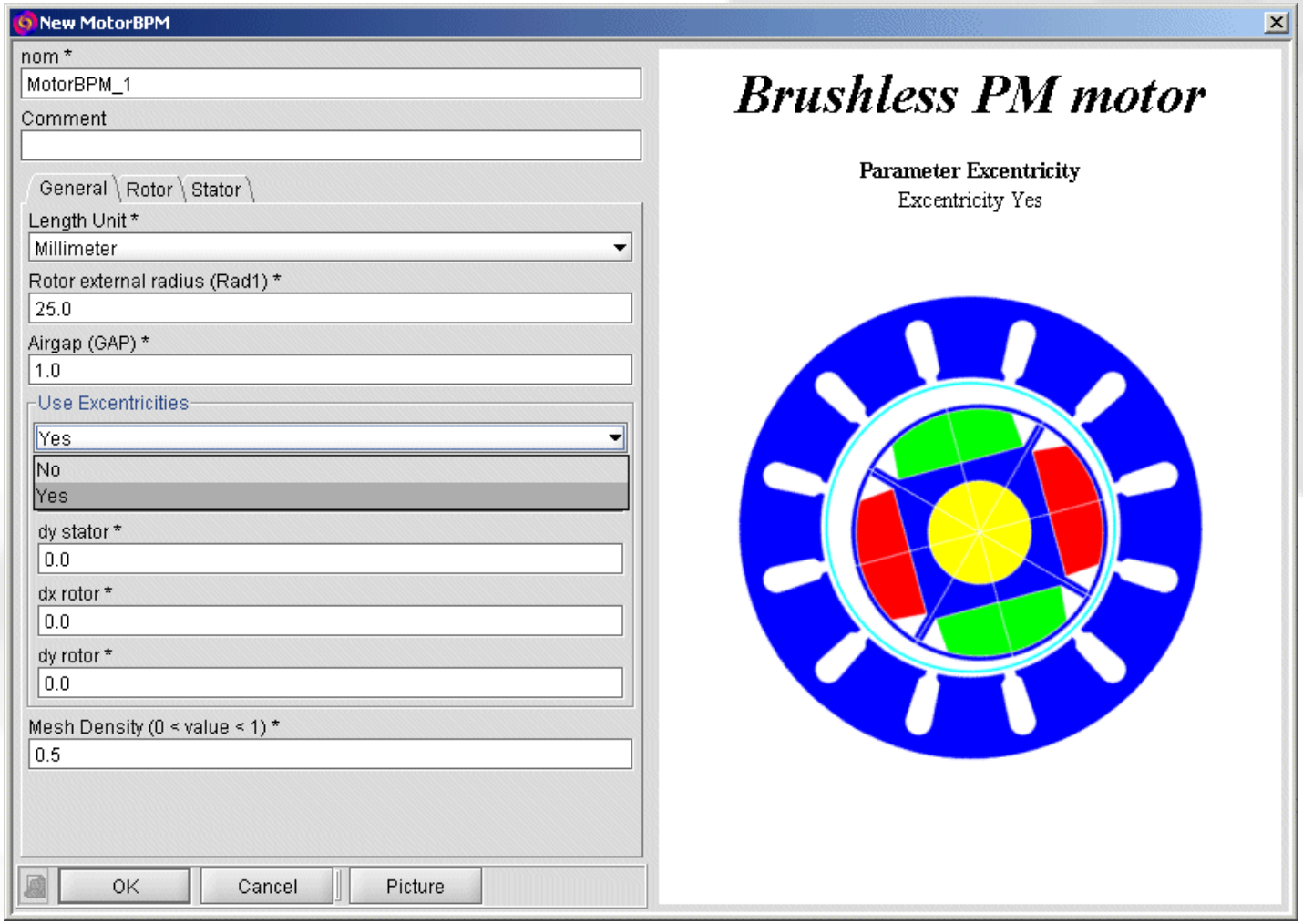




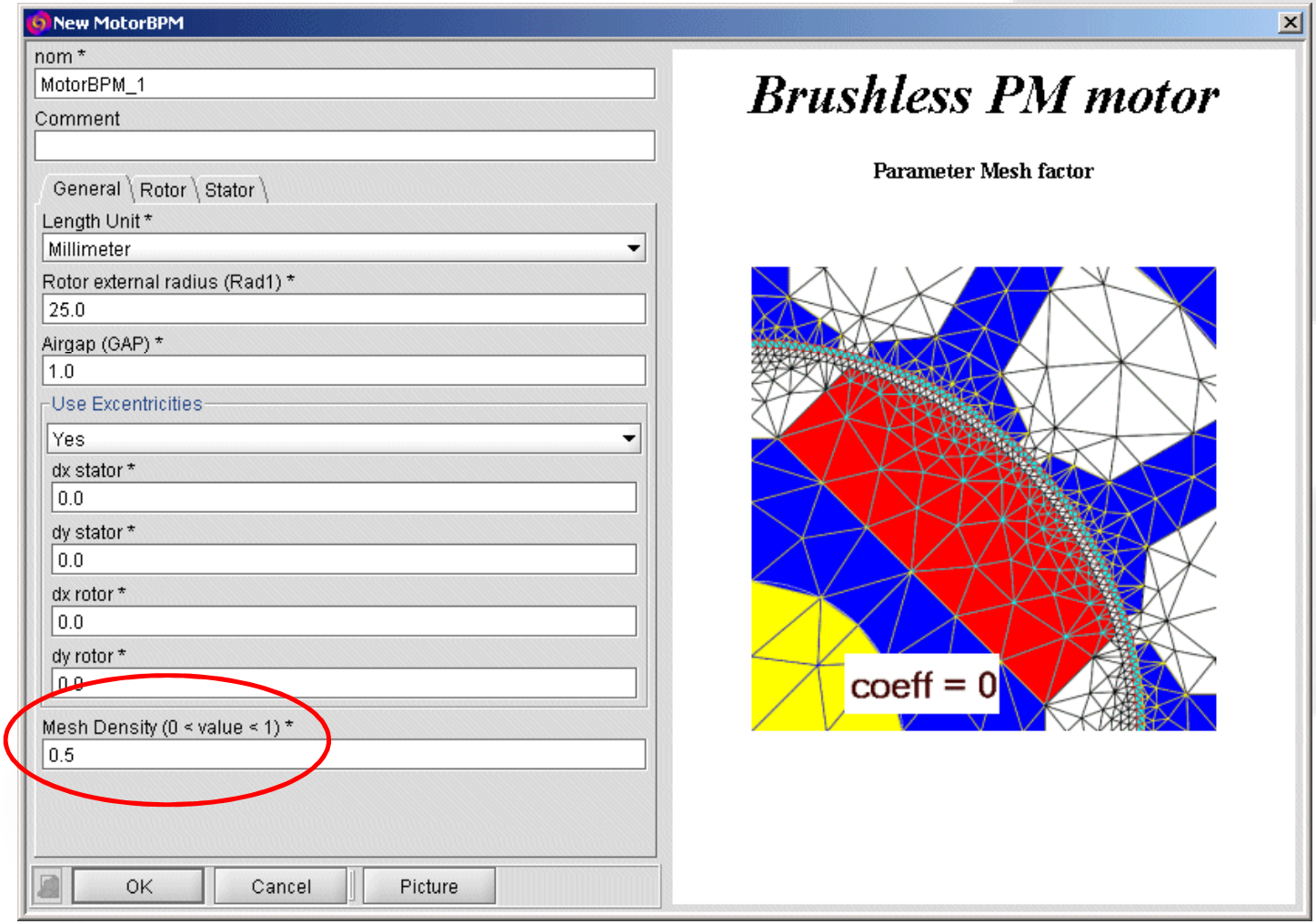


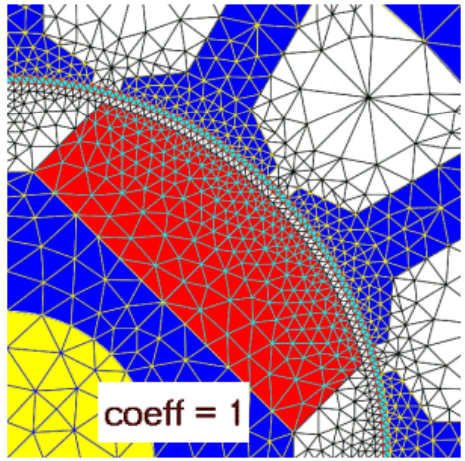


È possibile considerare l'eccentricità del motore



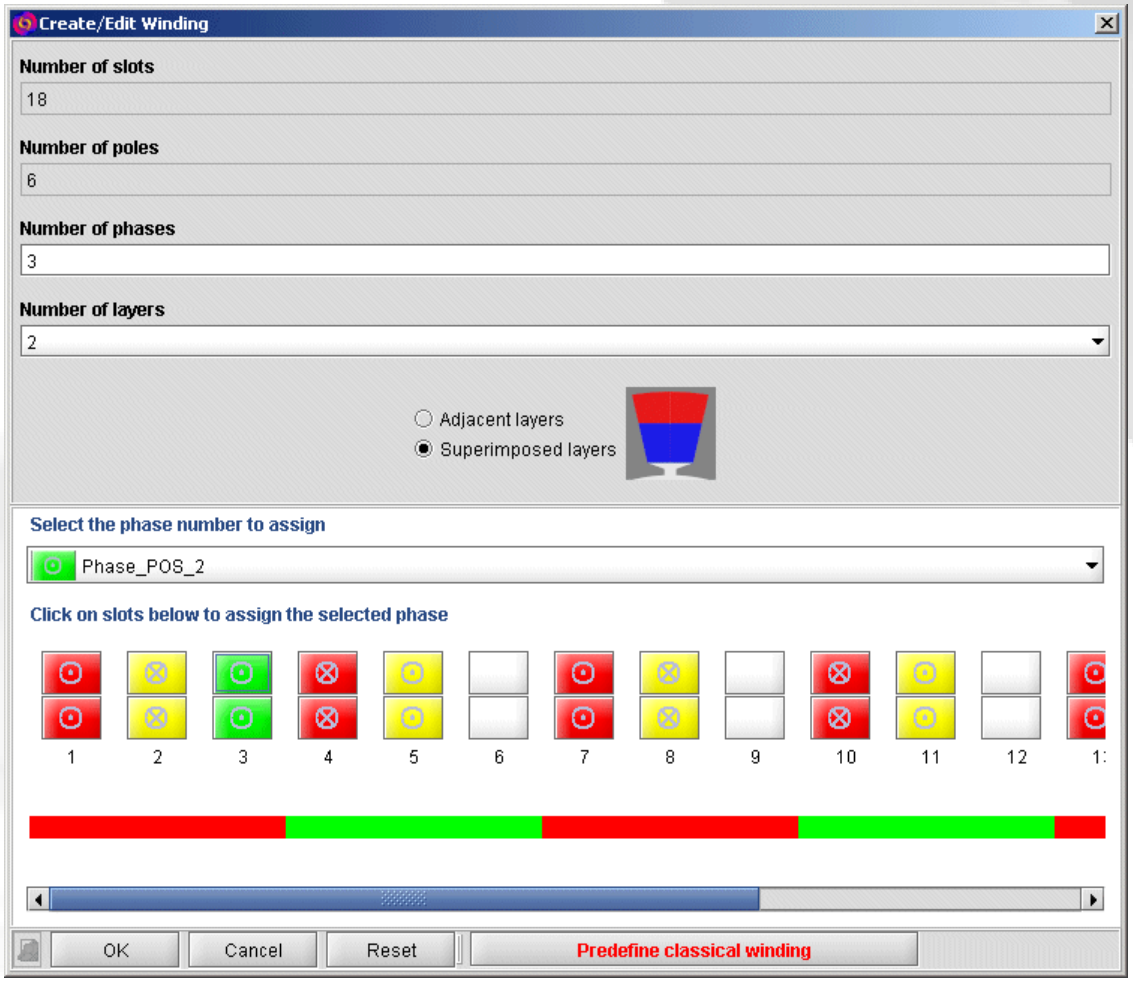
Un solo parametro definisce la densità della mesh





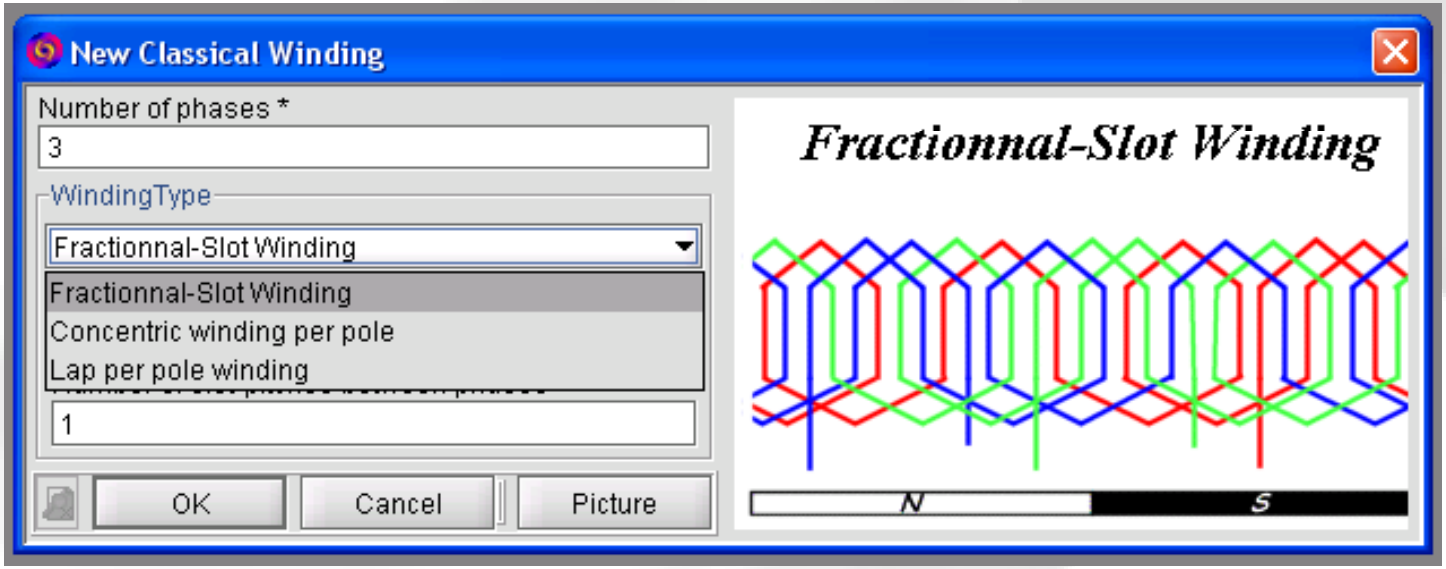
Rappresentazione dell'avvolgimento

1) manuale

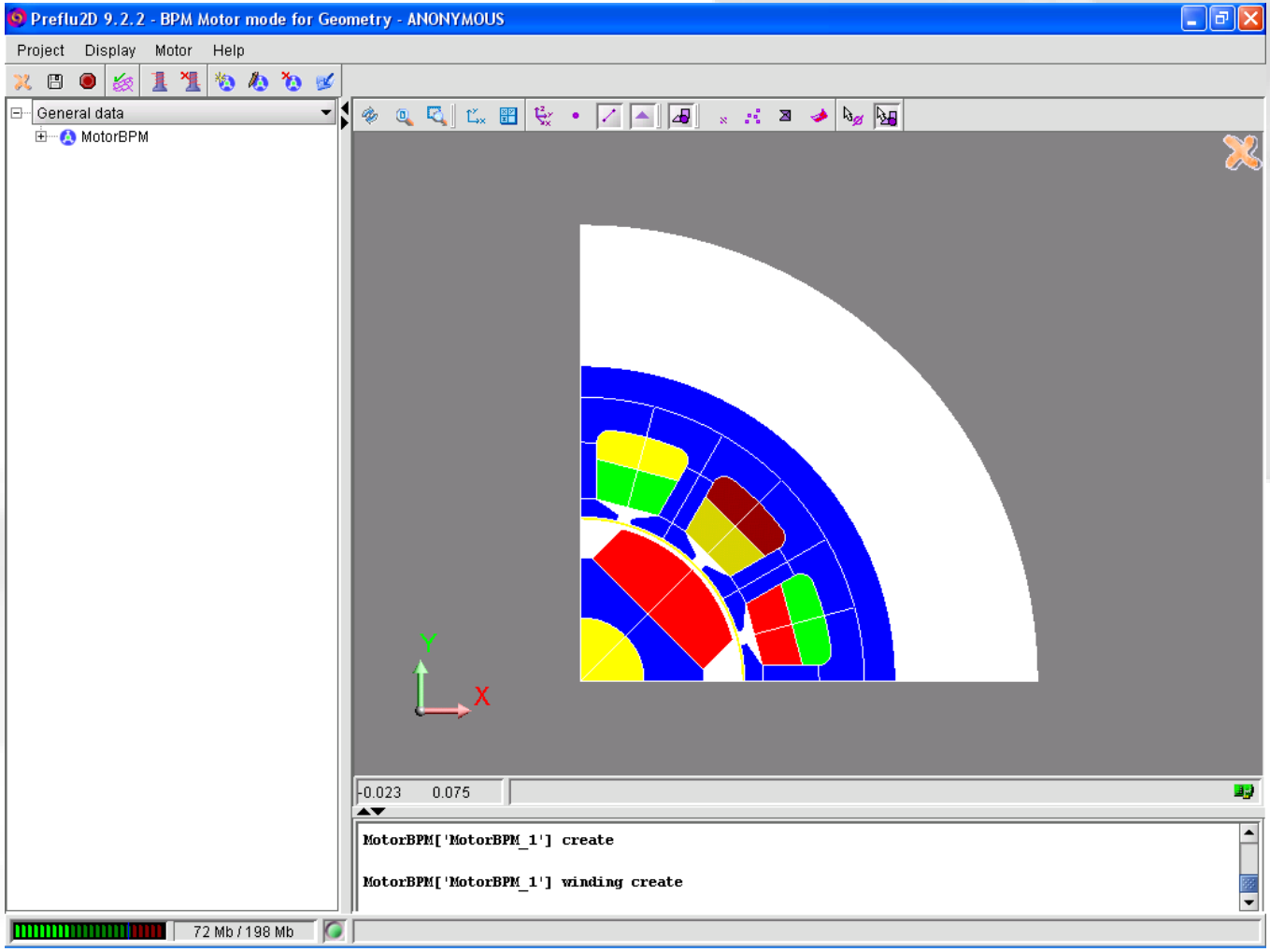


Rappresentazione dell'avvolgimento

2) attraverso 3 maschere predefinite per avvolgimenti standard



Il modello viene aggiornato con le Face Region dell'avvolgimento



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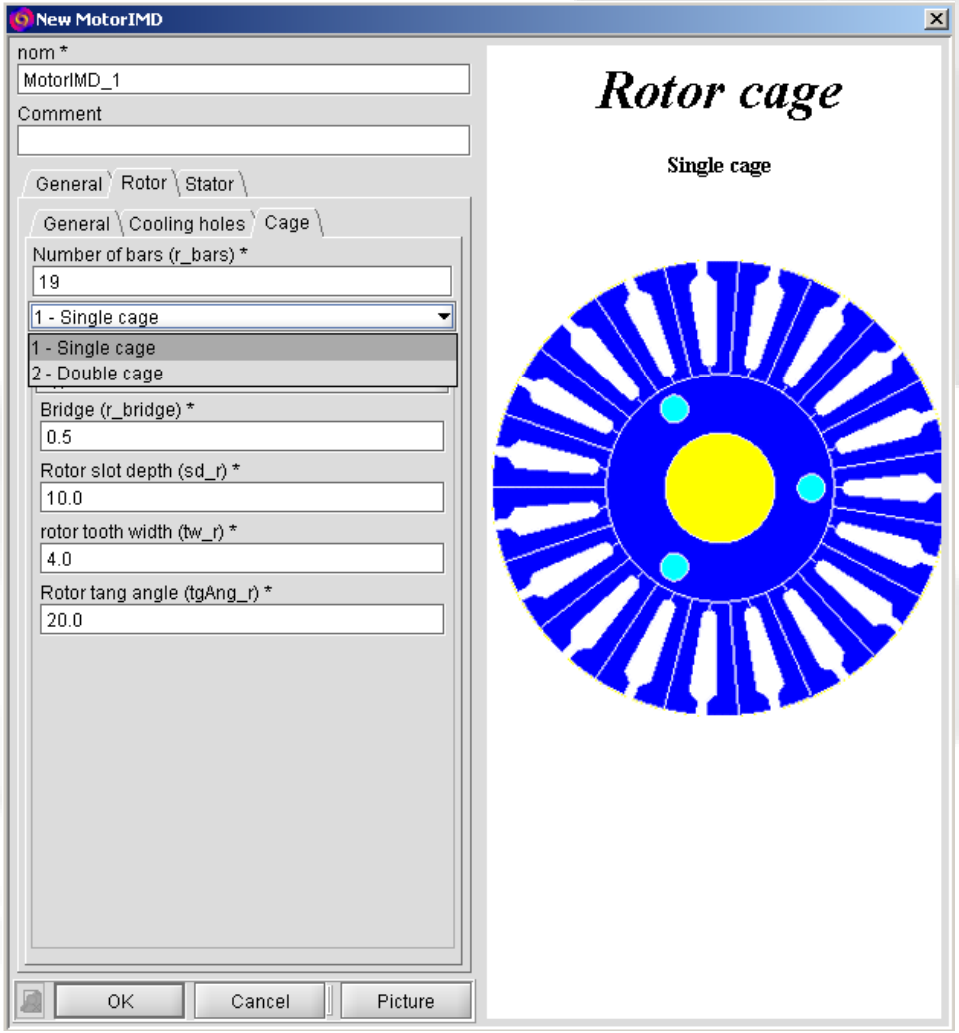
Applicazioni Magnetiche S.r.l.

Novità della release 9.3

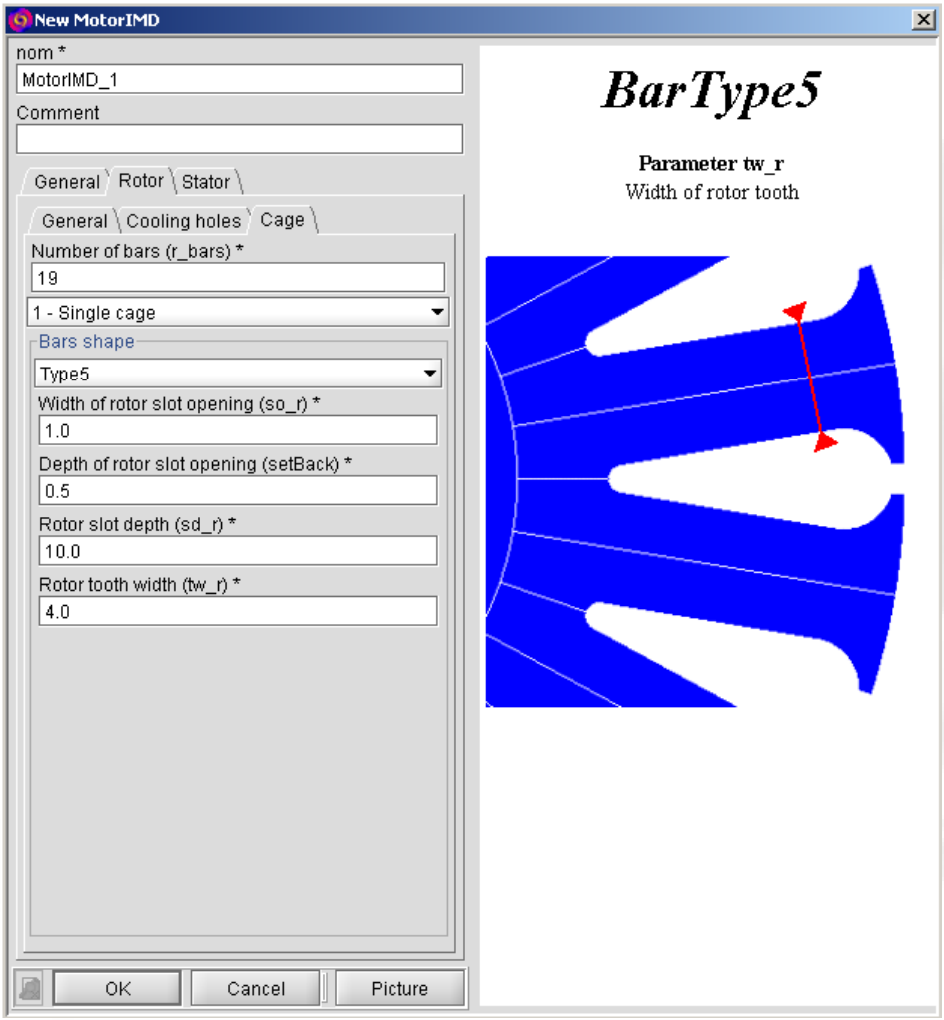
IM Overlay

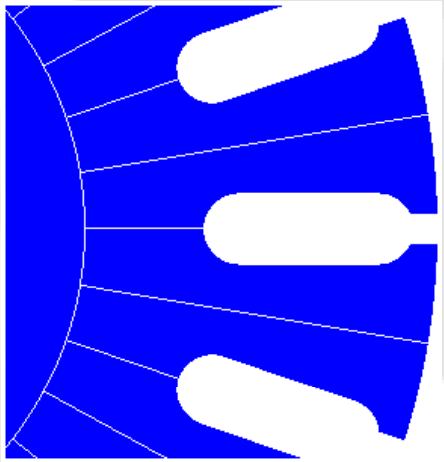
per l'analisi di motori ad induzione con FLUX

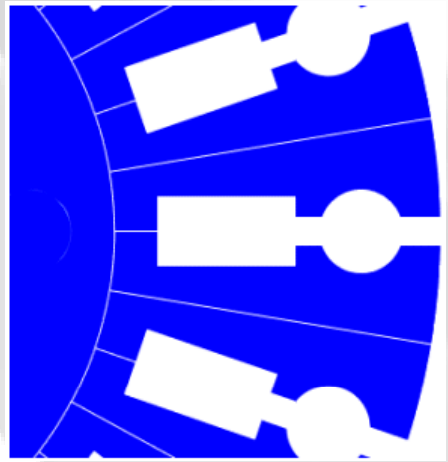
Gabbie singole o doppie – condotti di raffreddamento

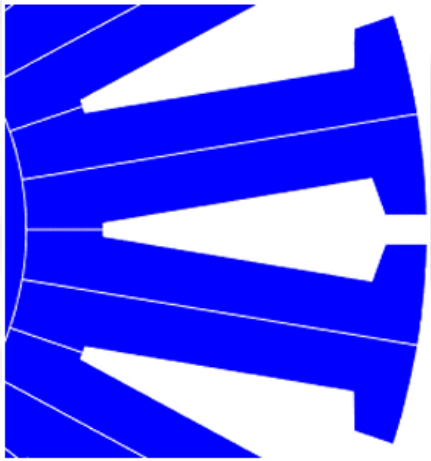


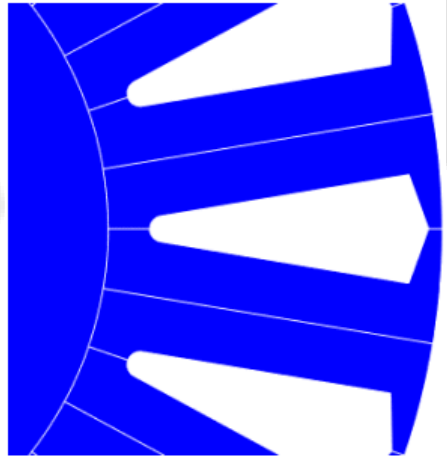
13 tipologie di barre (singole, doppie, aperte, chiuse)











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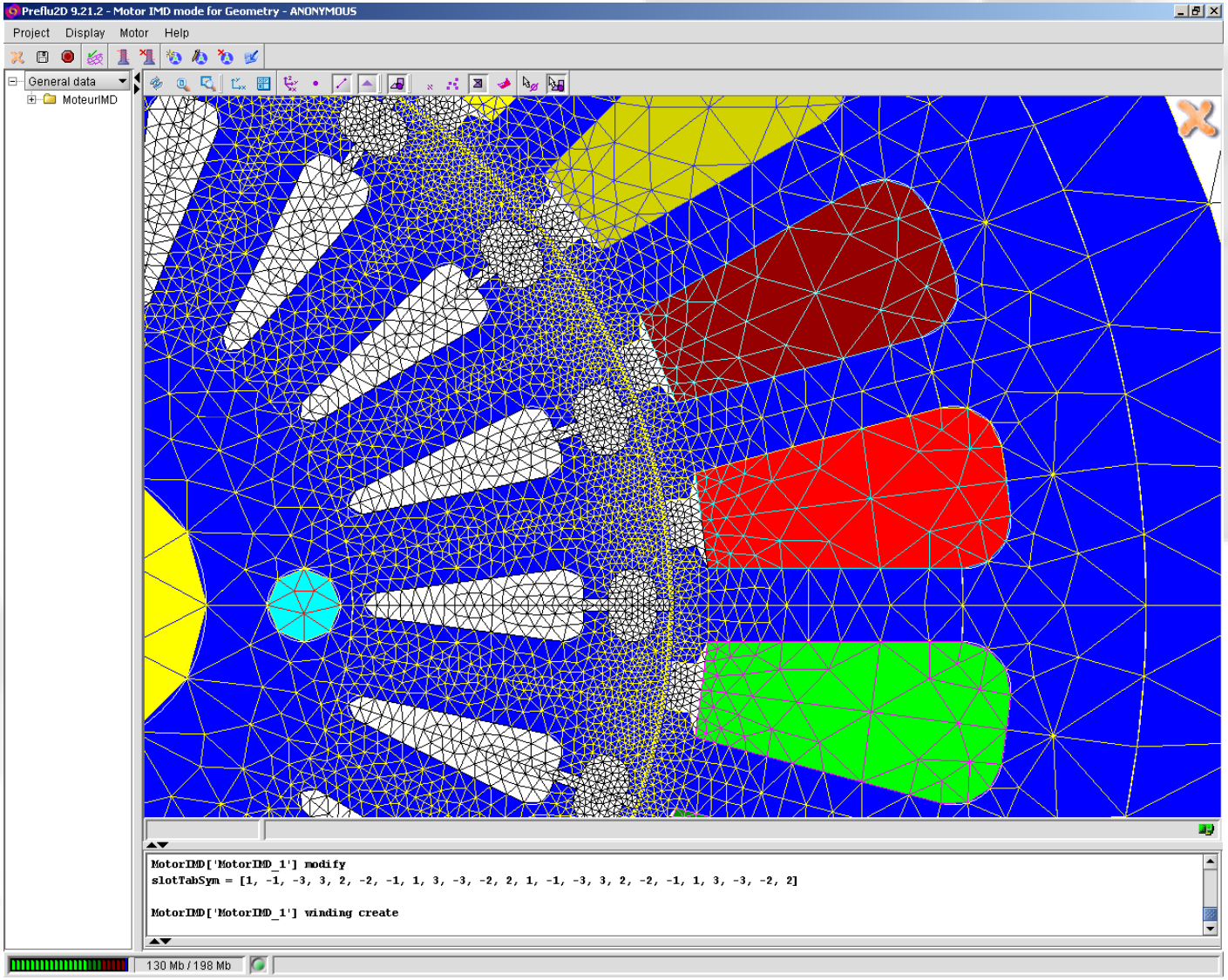

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