

What's new in QuickField 6.3



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New features overview



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QuickField live demonstration



QuickField 6.3

	Magnetic analysis suite	y †	
Magnetic Problems	Magnetostatics	<u> </u>	plane-parallel
	AC Magnetics		
	Transient Magnetics	rţ	
	Electric analysis suite		
Electric Problems	Electrostatics and DC Conduction		axisymmetric
	3D Electrostatics + 3D DC Conduction		
	AC Conduction	y _† All	
	Transient Electric field		0.0
Th	nermo-structural analysis suite	X X	3D extrusion
Thermal and mechanical problems	Steady-State Heat transfer z		
	3D Steady-State Heat transfer		
	Transient Heat transfer		3D import
	Stress analysis		

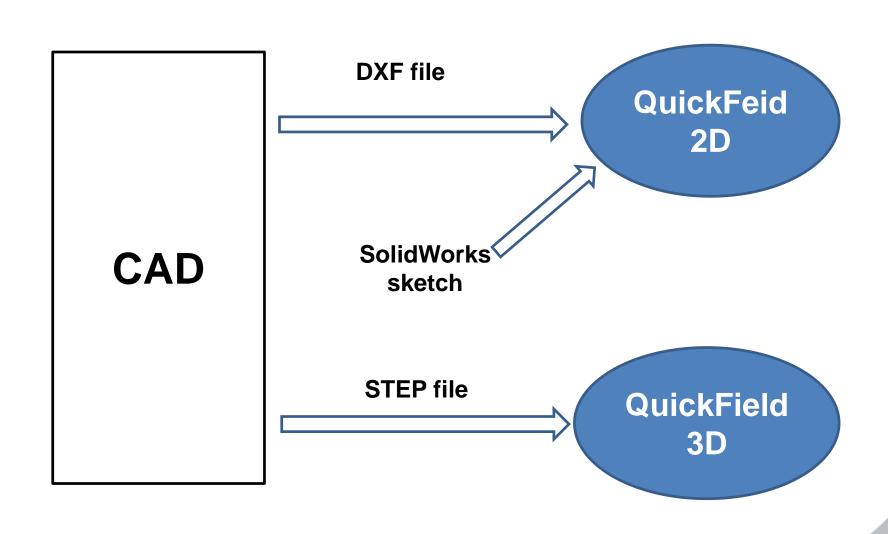


QuickField 6.3

	Magnetic analysis suite	y †	
Magnetic Problems	Magnetostatics	(2221) x	plane-parallel
	AC Magnetics		•
	Transient Magnetics	rţ	
	Electric analysis suite		
Electric Problems	Electrostatics and DC Conduction	 	axisymmetric
	3D Electrostatics + 3D DC Conduction		
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Thermal and mechanical problems	Steady-State Heat transfer z		
	3D Steady-State Heat transfer 🖈		
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	Stress analysis		

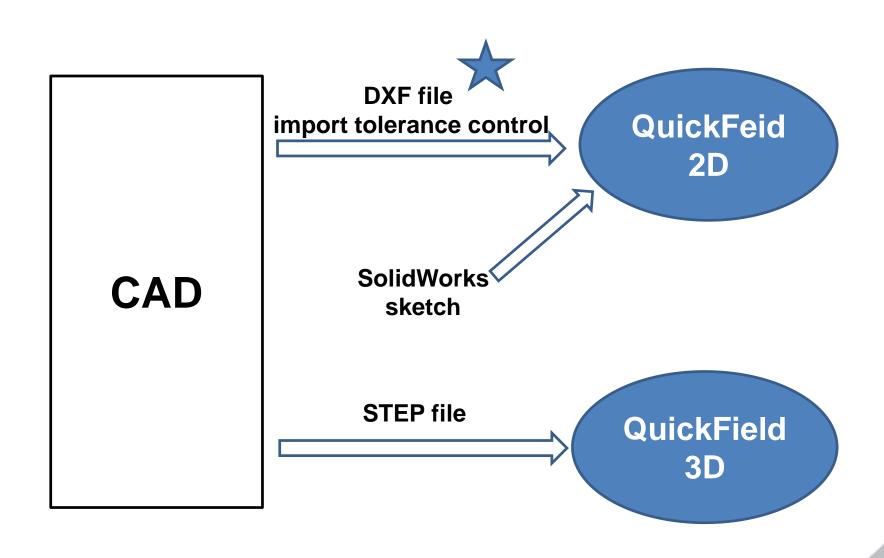


Geometry model import





Geometry model import





What's new in QuickField 6.3

- (2D) Initial temperature setting in the transient heat transfer problems.
- (2D) Tolerance control for the geometry import from DXF.
- (3D) Extended list of the integrals calculated in 3D postprocessors.
- (3D) Arbitrary contours in the 2D sections of 3D bodies.



QuickField 6.3 Editions

	QuickField Student Edition	QuickField Lite Edition	QuickField Professional Edition
Mesh size limit	2D: 255 nodes 3D: 4000 nodes	2D: about 4000 nodes 3D: No artificial restrictions	No artificial restrictions
Cost	FREE	Online quote may be generated at QuickField.com>Product>Order	
License term	Permanent	per year	per year or permanent
Network licensing availability	single-user only	unlimited number of concurrent	Single-user and agreed number of floating network licenses are available
Licensing requirements	no restrictions	Academic only	No restrictions, however, commercial and academic licensing terms are different



QuickField 6.3 pricing

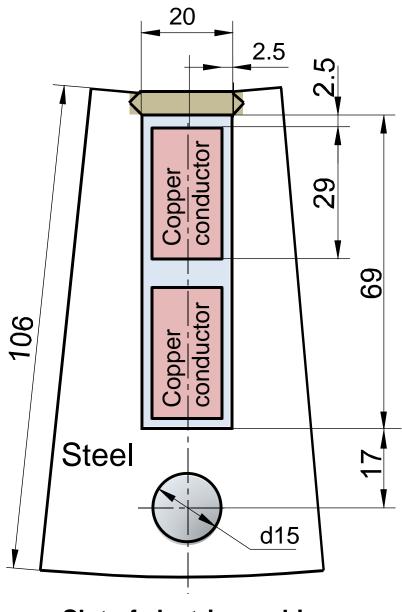
- Commercial and academic prices are same as for 6.2
- Customers under maintenance get 6.3 for free
- Older licenses may be updated for 40% of the current cost of compatible configuration. One year maintenance is included.
- 12 months maintenance extension costs 16.5%

Prices depend on the set of analysis options, number of seats and region. Automatic quote generator at

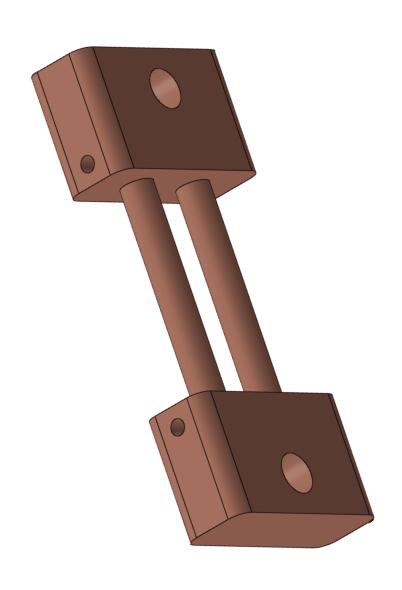
QuickField.com > Product > Order



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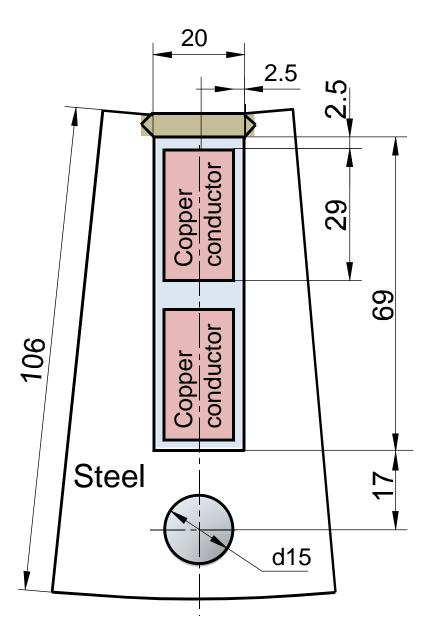
Slot of electric machine

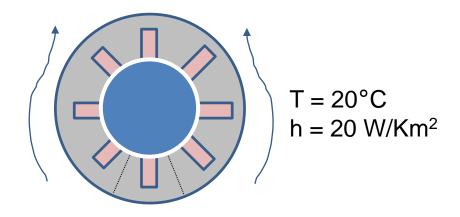


DC shunt resistance



Slot of electric machine





Problem specification:

Heat loss in load mode $Q = \rho \cdot j^2 = 360 \text{ [mW/cm}^3\text{]}$

Task:

Calculate temperature distribution during load period and after switching off

http://quickfield.com/advanced/theat1.htm

on terminals

DC shunt resistance

