step-by-step September 2011

IVNGWC 2011 IVNGWC.org

Anleitung zur Erstellung des Modells zur Aufgabe des Inventor News Group World Cup September 2011.
Die Erstellung des Modells in Autodesk Inventor wird Schritt für Schritt an Hand von Screen-Shots und einer kurzen Beschreibung erklärt.
Viel Spaß und
„happy inventoring“,
Bernhard Fetzer

Instructions for creating the model for the task of the Inventor newsgroup World Cup September 2011.
The creation of the model in Autodesk Inventor is explained step by step on the basis of screen-shots and a short description.
Have fun and
„happy inventoring“,
Bernhard Fetzer

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Alle Längenmaße in "mm", Projektion 1-E, metrische Vorlage benutzen !
All linear dimensions are "mm", projection 1-E, use metric Template !
Nota: Dimensões em "mm", projeção 1-E, usar metric Template!

IVNGWC 2011
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September/*September*/Setembro

Kardangelenk
universal joint
junta universal

Modell/*model*/Modelo: Bernhard Fetzer

Zeichnung/*drawing*/Desenho: Bernhard Fetzer

Volumen/*volume*/Volume: 2910016,008357 mm^3

Kommentar/*comment*/Comentários: Idea by Alberto Fernández, muchocatia.es

Zeichnungs-Nr./*drawing no*/Nº Desenho: IVNGWC-2011-09

Blatt/*sheet*/Folha: 1 / 1

Maßstab/*scale*/Escala: 1:2

Format/*size*/Formato: A3

CAD: Inventor

step 1

Skizze auf XY-Ebene

Sketch on XY-Plane

step 2

Extrudieren um 20mm

Extrude up to 20mm

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step 3

Bohrung von unten

Hole from bottom

step 4

Bohrung von oben

Hole from top

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step 5

Runde Anordnung um Z-Achse

Circular arrangement around Z-axis

step 6

Skizze auf XZ-Ebene

Sketch on the XZ plane

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step 7

Umdrehung durch Z-Achse

Revolving around Z-axis

step 8

Skizze auf YZ-Ebene

Sketch on YZ-plane

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step 9

Drehung als Differenz um Z-Achse

Revolving around Z-axis as difference

step 10

Skizze auf YZ-Ebene

Skecht on YZ plane

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step 11

Drehung als Differenz

Revolving as difference

step 12

Spiegelung über XZ-Ebene

Mirroring on XZ plane

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step 13

Fase 1,5mm

1.5 mm chamfer

step 14

Skizze auf YZ-Ebene

Sketch on YZ plane

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step 15

Drehung als Differenz

Revoliving as difference

step 16

Beidseitige Extrusion unter Verwendung des Parameters der getriebenen Bemaßung

Extrusion both sides *by using the parameter of the driven dimension*

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step 17

Spiegelung über XZ-Ebene

Mirroring on XZ plane

step 18

Arbeitsebene parallel zu XY-Ebene durch Achsen der seitlichen Bohrungen

Working plane parallel to XY plane through the axis of the side holes

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step 19

step 20

3D-Skizze mit 3D-Schnittkurve (Innenfläche und Arbeitsebene)

3D Sketch with 3D intersection curve (inner surface and the working plane)

Skizze auf Arbeitsebene, 3D-Schnittkurve projizieren und Enden mit Linien verbinden

Sketch on working plane, projecting the 3D-Curves and close there ends with lines

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step 21

Extrusion als Differenz durch alle

Extrusion as difference through all

step 22

Skizze auf XZ-Ebene

Sketch on XZ plane

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step 23

step 24

Extrusion beidseitig als Differenz durch alle

Extrusion both sides as differenz through all

Spiegelung über XZ-Ebene, fertig

Mirroring on XZ plane, ready

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