



KOLOSNIK PUANSON MODELINI CAD YORDAMIDA TAYYORLASH.

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Anotatsiya. Biz yangi turdagi kolosnik puanson modelini CAD yordamida tayyorlash uchun NX1.2 dasturidan foydalanib har qanday buyum narsa, extiyot qismlar va ishlab chiqarish uchun uni qayerda ishlatilishiga qarab yaratishga erishish.

Kalit so'zlar. Kolosnik, 3d modeli, NX1.2 dasturi, sketch, curve, extrude, faska, patten geometriy, trim body.

ПОДГОТОВКА МОДЕЛИ ПУАНСОНА КОЛОСНИКА С ИСПОЛЬЗОВАНИЕМ CAD.

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Аннотация. Мы используем программу NX1.2 для подготовки модели колосника пуансона нового типа в CAD, чтобы добиться создания любого продукта, запасных частей и производства в зависимости от того, где он используется.

Ключевые слова. Колосник, 3d модель, программа NX1.2, эскиз, кривая, выдавливание, фаска, геометрия выкройки, обрезка тела.

PREPARATION OF THE GRATE PUNCH MODEL USING CAD.

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Annotation. We use the NX1.2 program to prepare a new type of punch grate CAD model to achieve any product, spare parts and production, depending on where it is used.

Keywords. Grid, 3d model, NX1.2 program, sketch, curve, extrusion, chamfer, pattern geometry, trimming of the body.

Kirish. Respublikamizda paxta xomashyosini chukur qayta ishlash asosida yuqori qo'shimcha qiymatli tayyor maxsulot ishlab chiqarishni ko'paytirish, mamlakat paxta tozalash sanoati tuzilmasini takomillashtirish, texnik va texnologik qayta kurish asosida paxta maxsulotlari tannarxini kamaytirish va sifat kursatkichlarini yaxshilash orqali uning raqobatbardoshligini ta'minlashga aloxida e'tibor karatilmoqda[1]. Ushbu vazifani bajarishda paxta xomashyosi chigitini ajratishda jin mashinasi ishchi kamerasi takomillashtirish xisobiga jinlash jarayoni samaradorligini oshirish muxim



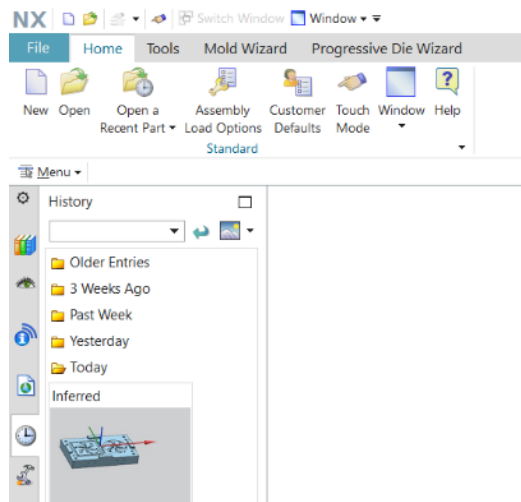


masalalardan xisoblanadi[2]. Shuningdek, arrali jin samadorligini oshirishning asosiy yullari xomashyo valigining toladorligini oshirish, tozalangan chigitlarni tezlik bilan chikarib tashlash va bir tekisda uning zichligini kamaytirishdan iborat deb xisoblaydilar[3].

Nazariy tadqiqotlar.

Kolosnik puanson modelini NX1.2 dasturi yordamida tayyorlash(rasm-1). Har qanday buyum narsa, extiyot qismlar va hokazo barchasini ishlab chiqarish uchun birinchi uni qayerga ishlatilishiga qarab yaratish kerak. Buning uchun uni modelini tayyorlash kerak. So'ngra uni turli maqsadlarda qo'llash uchun seriyalab ishlab chiqarish mumkin[4-5].

Biz yangi turdagi kolosnikni qanday tayyorlaymiz? Buning uchun biz 3d dasturida uni modelini tayyorlaymiz. Avvalo kolosnikni 3d modelini tayyorlash kerak buning uchun biz NX1.2 dasturidan foydalanamiz[6-7].



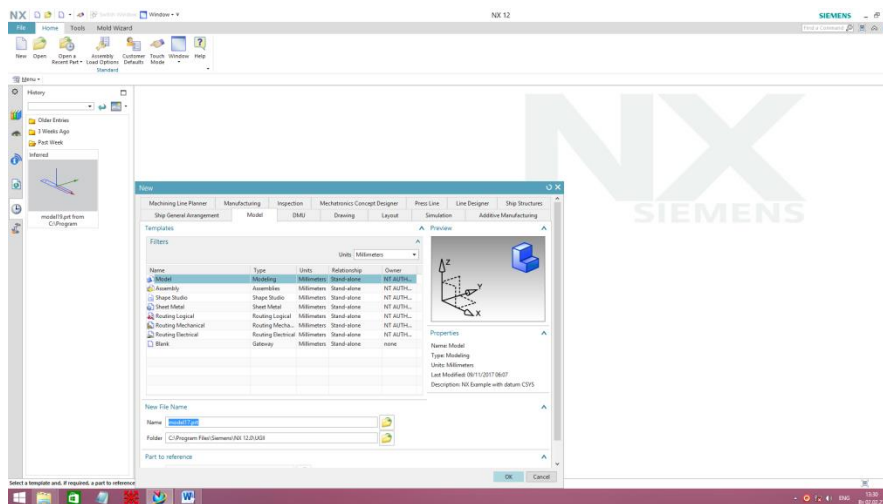
1-rasm: NX1.2 dasturi.

Kompyuterimizning ish oynasidan NX1.2 dasturiga kiramiz(2-rasm).



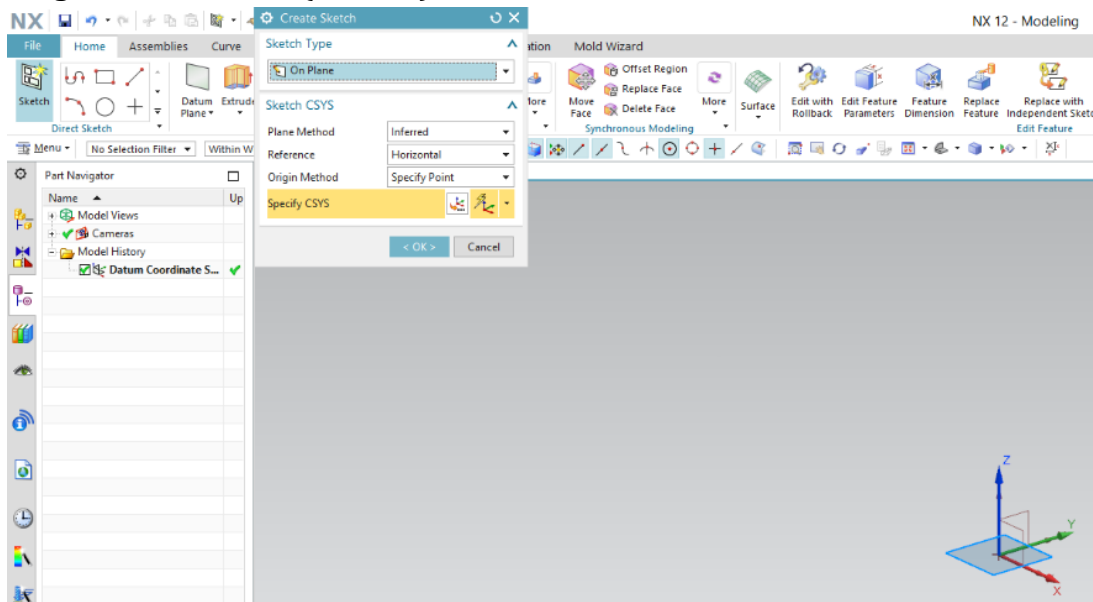
2-rasm: Kompyuterimizning ish oynasidan NX1.2 dasturiga kiramiz. Shundan so'ng NX1.2 dasturi ish oynasi ochiladi(3-rasm).





3-Rasm: NX1.2 dasturi ish oynasi.

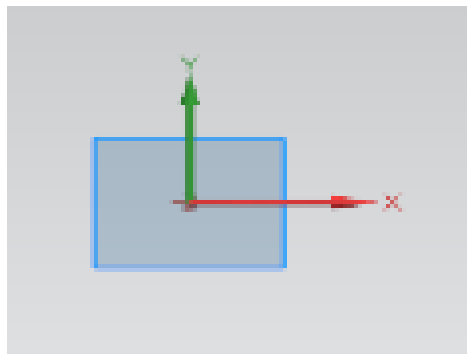
Ctrl+N tugmasini bosib yangi oyna ochamiz, so'ng modelingni tanlab OK yoki Enter tugmasini bosamiz(4-rasm).



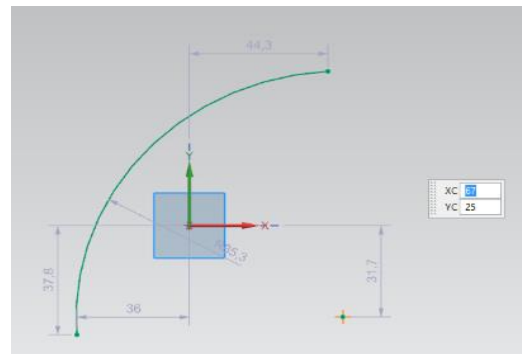
4-Rasm: NX1.2 dasturini yangi oynasi.

Sketch yordamida X,Y va Z tekisliklardan keraklisini tanlab olamiz(5-rasm).

"Curve" ni bosib 2 o'lchamli kolosnik modelini chizib olamiz(6-rasm).



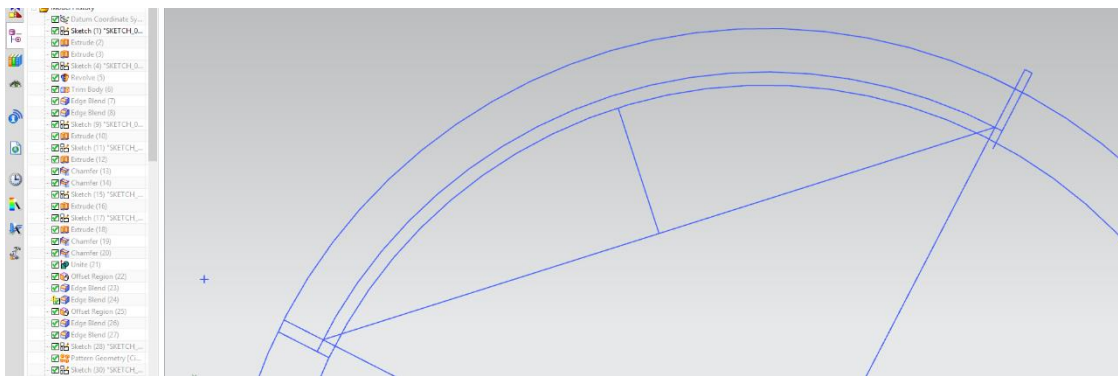
5-Rasm: X,Y va Z tekisliklar.



6-Rasm: 2 o'lchamli kolosnik modelini chizish.

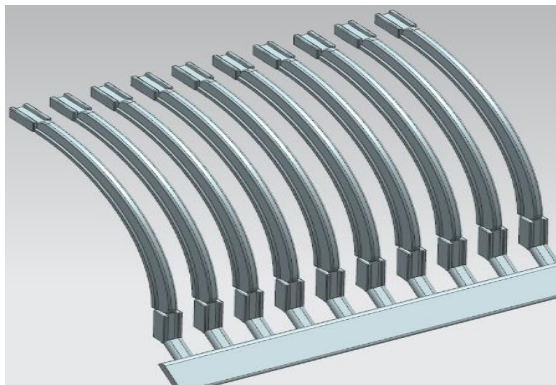
2 o'lchamli kolosnik modelini chizish(rasm-6.1).





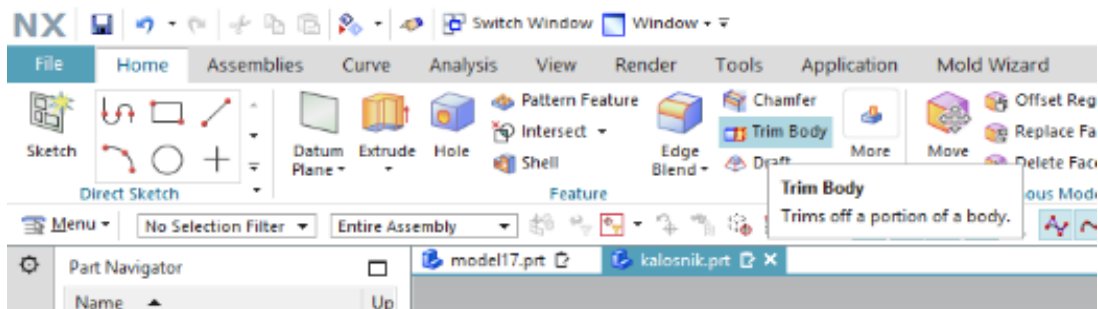
6.1-Rasm: 2 o'lchamli kolosnik modelini chizish.

Undan so'ng "extrude" yordamida uni 3 o'lchamli holatga o'tkazamiz va qirralariga "faska" qilamiz(7-rasm). "Patten geometriy" yordamida uni ko'paytiramiz. So'ngra uni ishlab chiqarishga moslashtirish uchun matritsa va punasonga ajratamiz. 3 d holatda matritsa va puansonga aylantirish bu mushkulroq ish. Chunki matritsa va puanson birlashganda bizga kerakli bo'lgan model hosil bo'lishi kerak[8-9].



7-Rasm: "extrude" yordamida uni 3 o'lchamli holatga o'tkazib va qirralariga "faska" qilamiz.

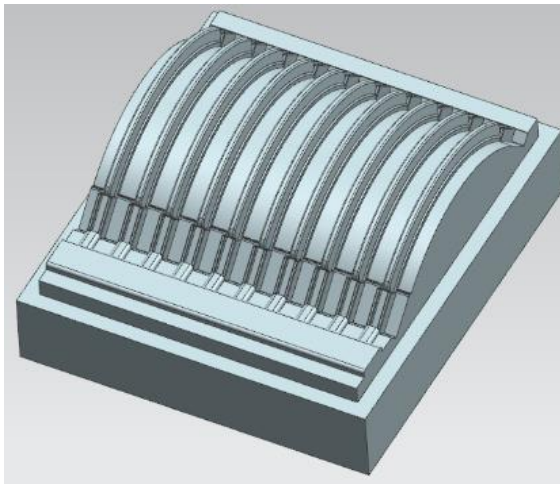
"Patten geometriy" yordamida uni ko'paytirish(8-rasm).



8-rasm: "Patten geometriy" yordamida uni ko'paytirish.

Matritsa va puansonga ajratish uchun biz "trim body" dan foydalanamiz(9-rasm).





9-rasm: Matrisa va puansonga ajratish uchun biz “trim body” komandasi.

Biz kolosnikni quyma usulda olishni rejalashtirganimiz uchun model yani panson va matrisa shunga moslanadi. Yuqorida suratda puanson modeli hosil qilingan 3d holati[13-14].

Xulosa

Kolosnik puanson modelini CAD yordamida tayyorlash uchun NX1.2 dasturi yordamida tayyorlash. Bu tayyorlagan maxsulotimiz har qanday buyum narsa, extiyot qismlar va hokazo barchasini ishlab chiqarish uchun qayerda ishlatilishiga qarab yaratish. Buning uchun uni modelini tayyorlash, so'ngra uni turli maqsadlarda qo'llash uchun seriyalab ishlab chiqarishdir.

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