

**“To’raqo’rg’on IES qurish direksiyasi” UK
KS BGQ sehi smena boshlig’i Yuldashev
Akmaljonning texnik o’quv mashg’uloti
uchun tayyorlagan
TAQDIMOTI**



Reja:

- ▶ “M701F4” Gaz turbinasining ishlash prinsipi va texnik harakteristikasi.
- ▶ “NOOTER ERIKSEN” qozon utilizatorining konstruksiyasi va texnik harakteristikasi.
- ▶ “TC 2F-40.5” Bug’ turbinasining ishlash prinsipi va texnik harakteristikasi.
- ▶ Gaz siquv kompressorini ishlash prinsipi va texnik harakteristikasi.

“M701F4” Gaz turbinasining ishlash prinsipi va texnik harakteristikasi.

GT ning texnik harakteristikasi:

- ▶ Marka: M701F4
- ▶ Vallar soni: 1
- ▶ Nominal aylanishlar soni: 3000 ay/min
- ▶ Nominal quvvat: 336.6 mW
- ▶ Xalqaro standartlar (ISO) uchun gaz turbinaning quvvat ko'rsatkichlari odatda havo harorati 15 °C, nisbiy namlik 60% beriladi.



Gaz turbinasi ishlash prinsipi

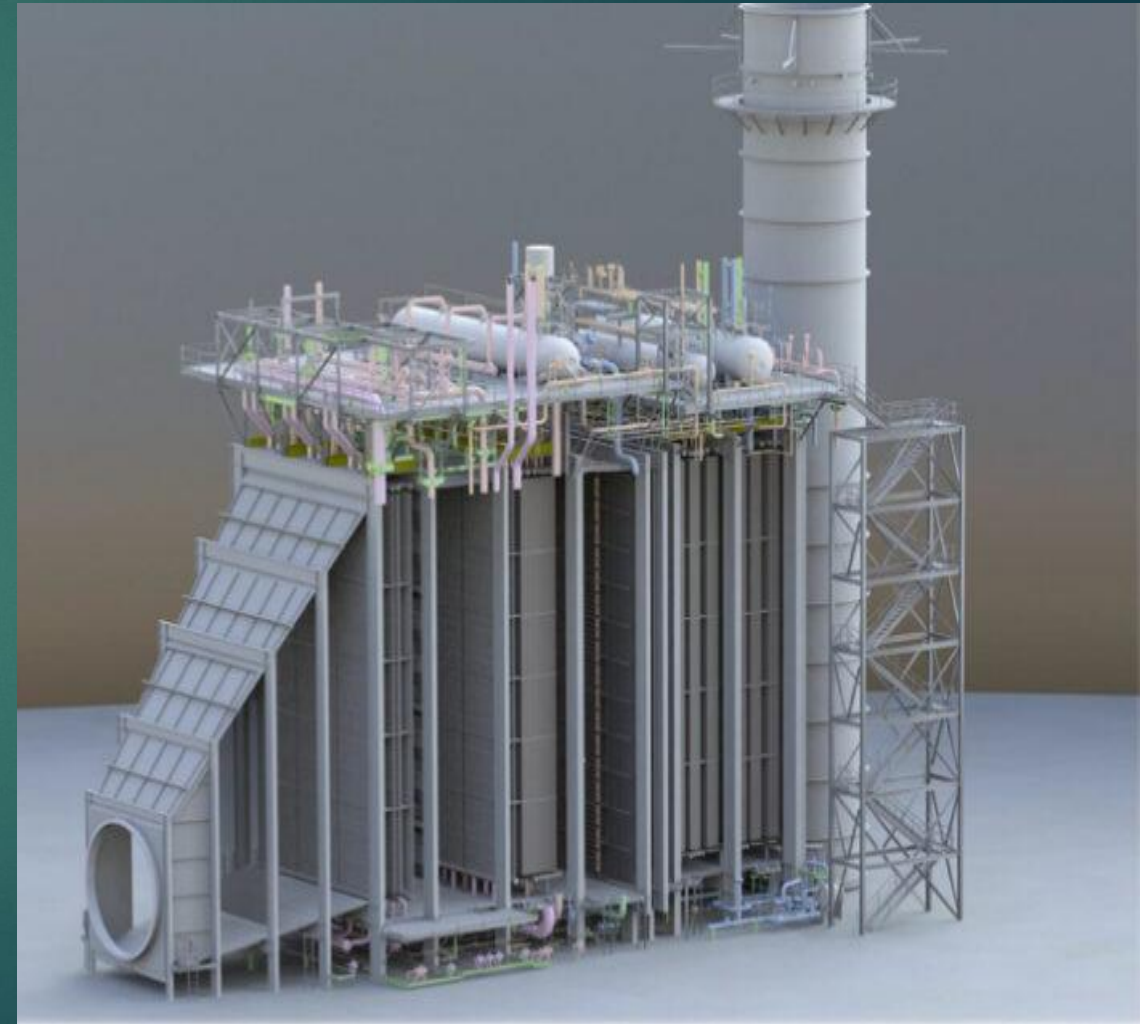
- ▶ Gaz turbinasi bu toza xavo va tabiiy gazni aralashtirib yondirish natijasida ajraladigan issiqlik energiyasini mexanik energiyaga aylantirib beruvchi qurilmadir.



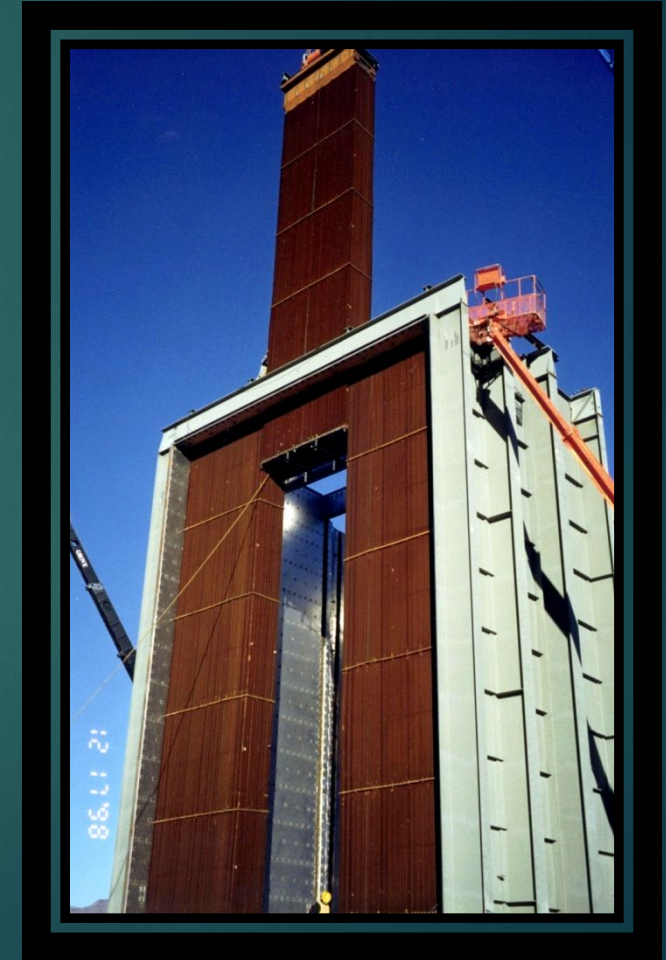
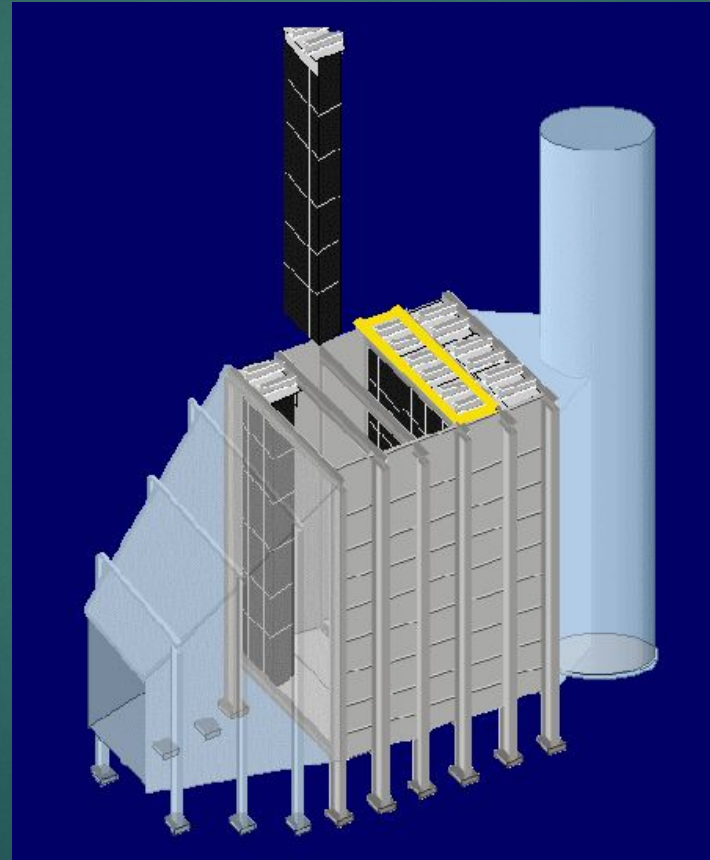
“NOOTER ERIKSEN” qozon utilizatorining konstruksiyasi va texnik harakteristikasi

- ▶ HRSG ning texnik harakteristikasi:
- ▶ Marka: HRSG for M701F4
- ▶ Seriya nomer: 170500
- ▶ Bug' ishlab chiqarish quvvati:
- ▶ Y/B bug' bosimi: 126.4 Bar
- ▶ Y/B bug' : 306 t/soat
- ▶ O'/B bug' bosimi: 32.8 Bar
- ▶ O'/B bug' : 71.6 t/soat
- ▶ P/B bug' bosimi: 5.4 Bar
- ▶ P/B bug' : 53.4 t/soat

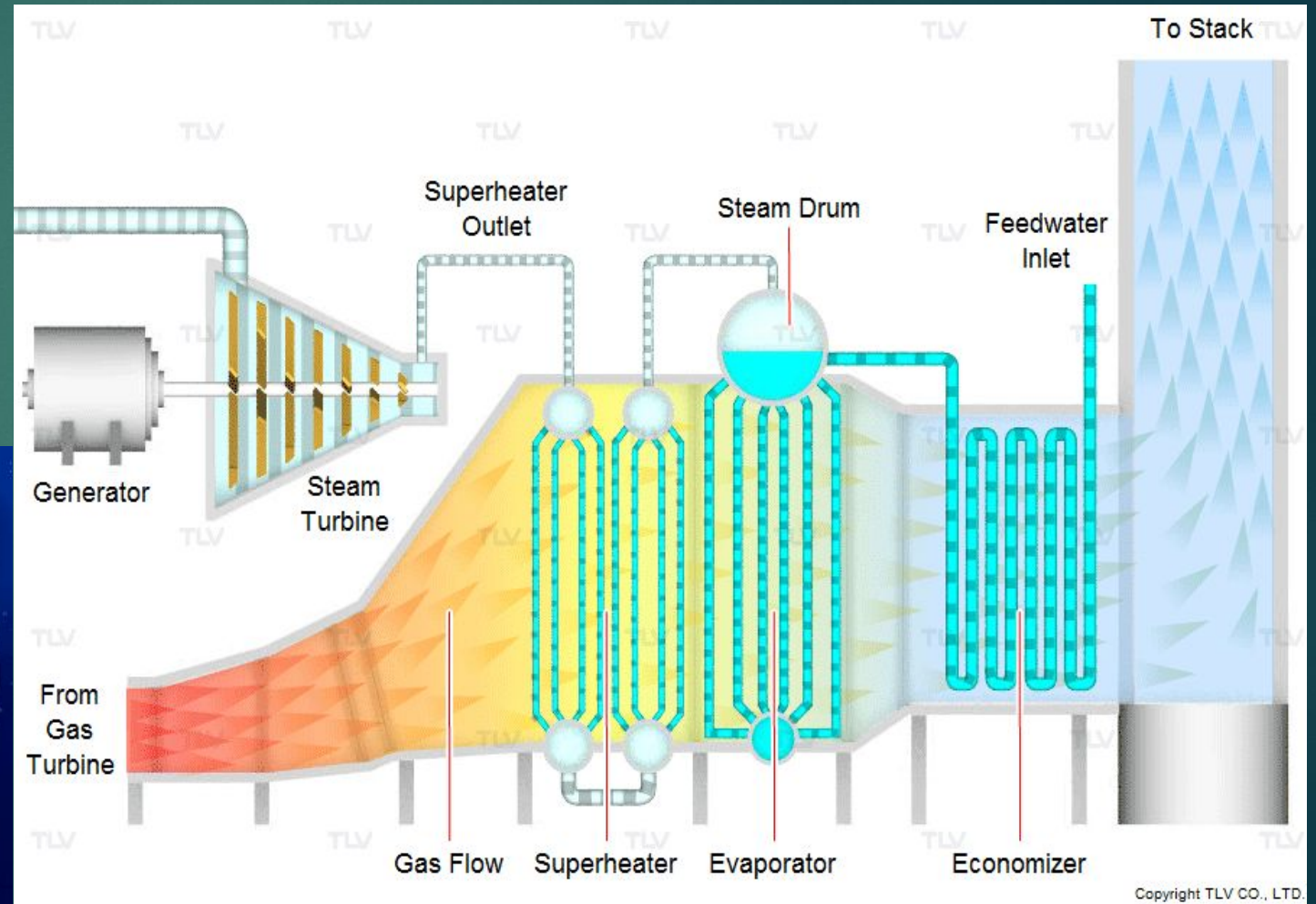
NOOTER/ERIKSEN



“NOOTER ERIKSEN” qozon utilizatorining konstruksiyasi



Gaz turbinasi va Qozon utilizatorining ishlash prinsipi sodda ko'rinishda



“TC 2F-40.5” Bug’ turbinasining ishlash prinsipi va texnik harakteristikasi.

▶ BT ning texnik harakteristikasi:

▶ Marka: TC 2F-40.5

▶ Nominal aylanishlar soni: 3000 ay/min

▶ Nominal quvvat: 167.5 mW

▶ Y/B bug’ bosimi: 123.4 Bar

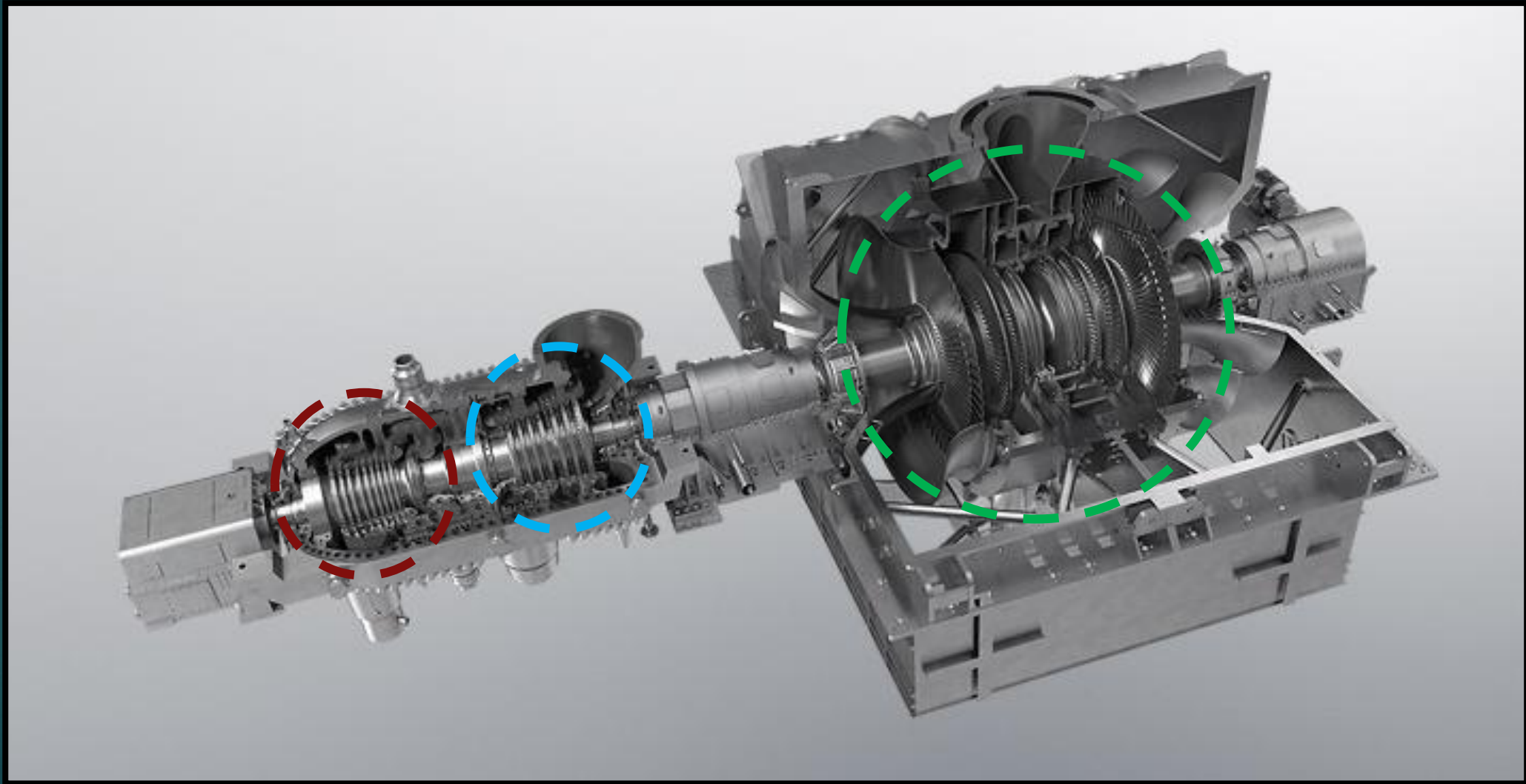
▶ Y/B bug’ xarorati: 560.4 C

▶ O’/B bug’ bosimi: 29.6 Bar

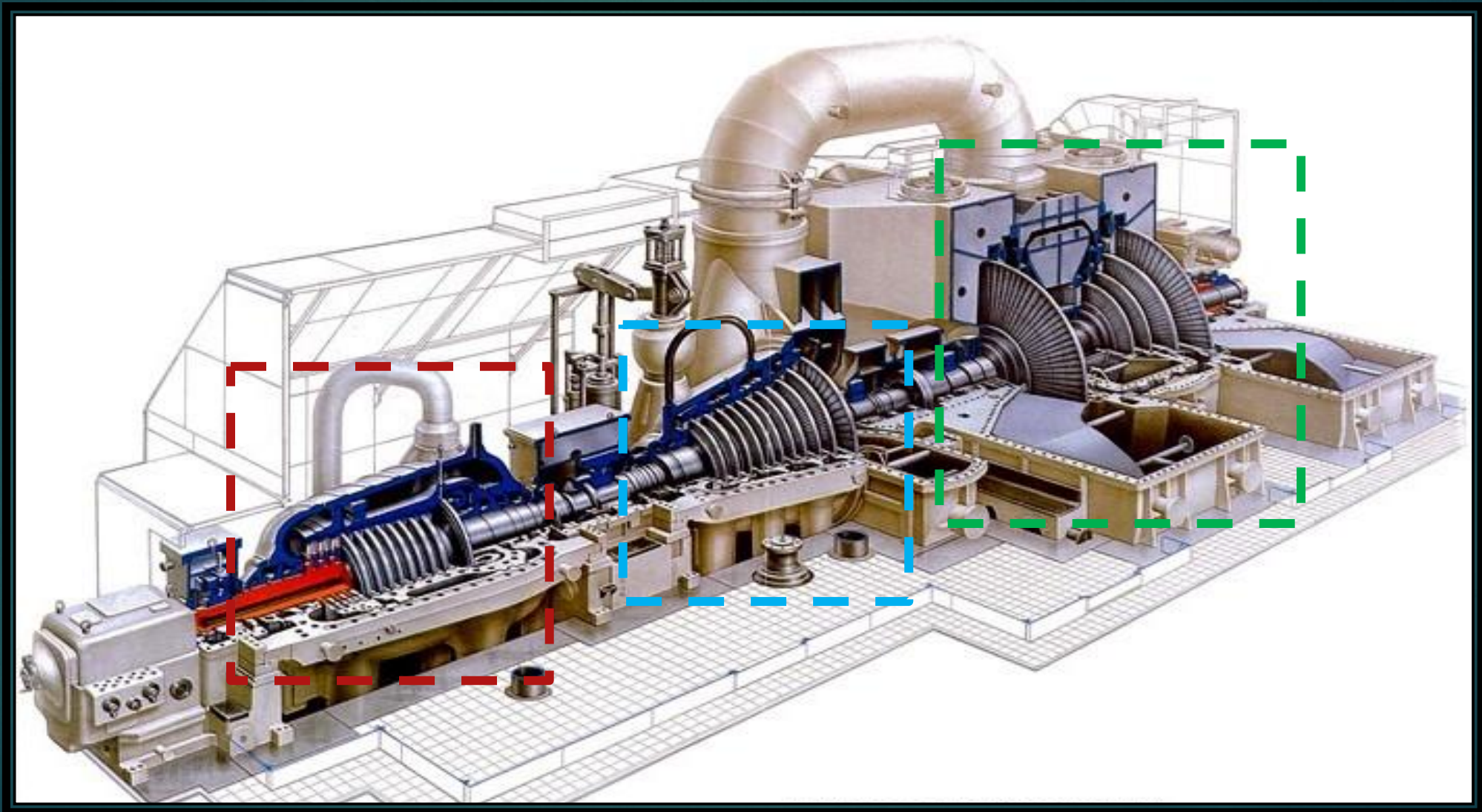
▶ O’/B bug’ xarorati: 565.8 C

▶ Bug’ turbinasi bug’ning potentsial energiyasini kinetik energiyaga, so’ngra aylanuvchi valning mexanik energiyasiga aylantiruvchi turbina. Qozonlarda ishlab chiqarilgan yuqori bosimli bug’, bug’ turbinasining ishchi parraklariga yo’naltirilishi xisobiga turbina ish bajaradi.

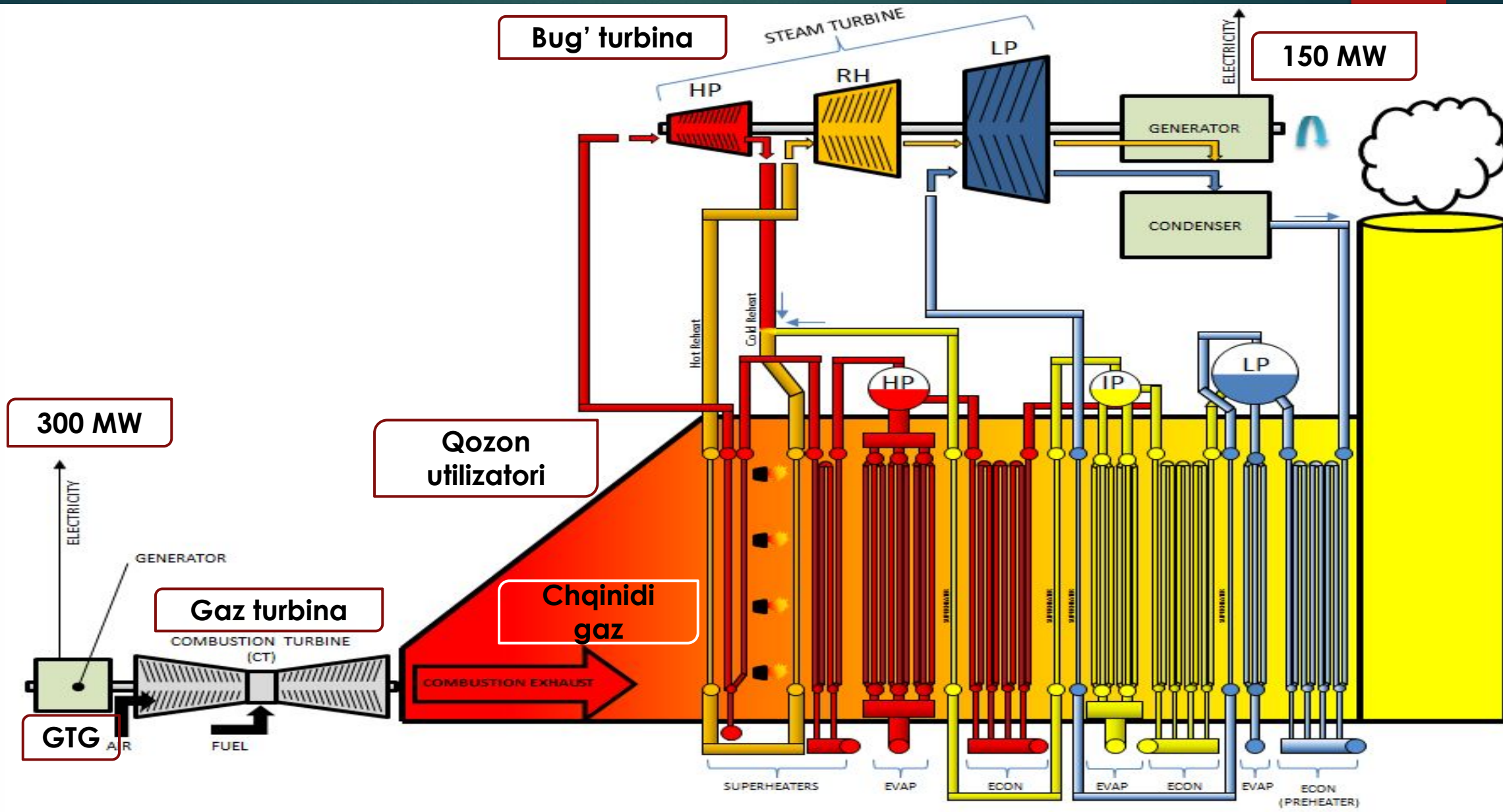
“TC 2F-40.5” Bug’ turbinasining ko’rinishi



Bug' turbinasining soddalashtirilgan ko'rinishi.

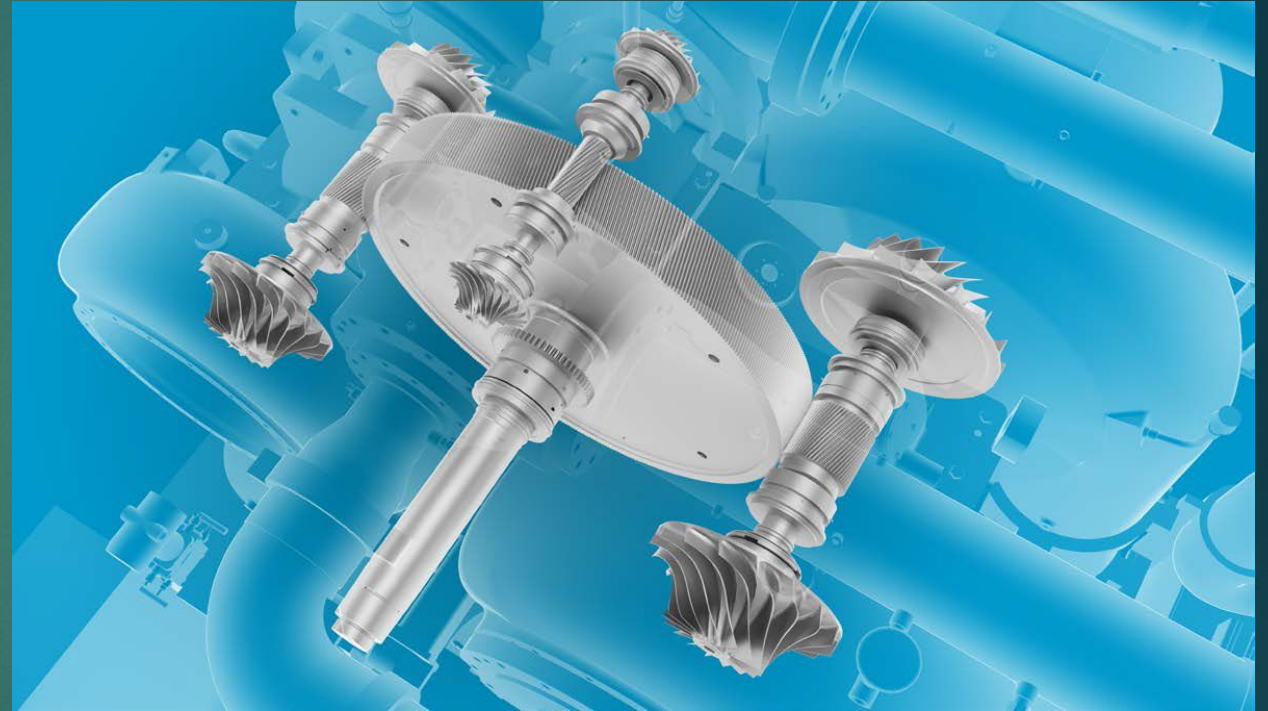


C/C da Energoblokning ishlash prinsipi

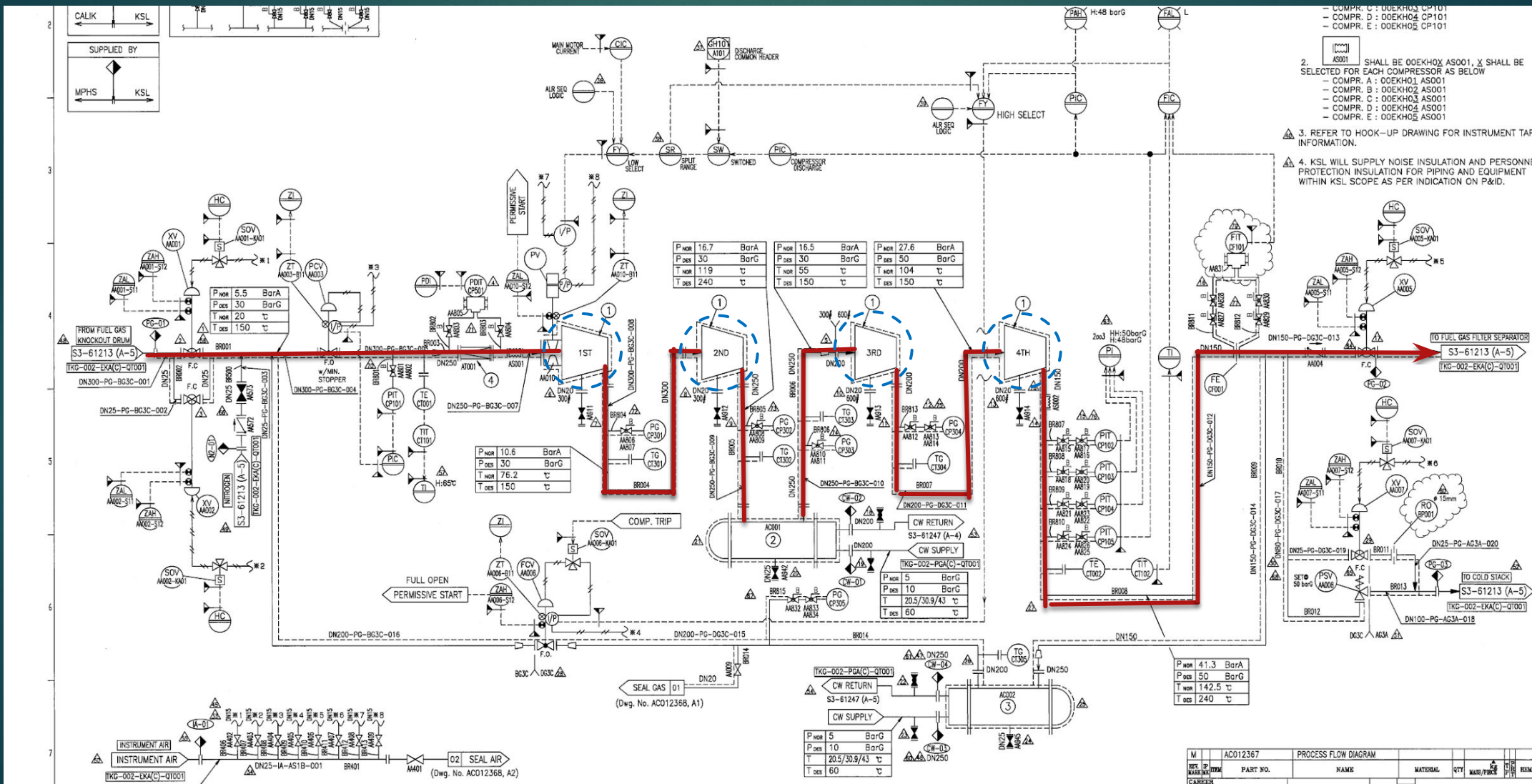


Gaz siquv kompressorini ishlash prinsipi va texnik harakteristikasi.

- ▶ GK Kobelco ning texnik harakteristikasi:
- ▶ Marka: VGSP150 (Four stage)
- ▶ Aylanishlar soni (1&2St/ 3&4St):
20500/22960 ayl/min
- ▶ Nominal quvvat: 4.6 mW
- ▶ Kiruvchi gaz bosimi: 5.8 – 9.0 Bar
- ▶ Stupenlardan chiquvchi gaz bosimi va xarorati:
- ▶ 1st chiqish: 10.6 Bar T=76 C
- ▶ 2st chiqish: 16.7 Bar T=119 C / 55 C
- ▶ 3st chiqish: 27.6 Bar T=104 C
- ▶ 4st chiqish: 41.3 Bar T=142 C



Gaz siquuv kompressorini ishlash prinsipi



**E'tiboringiz uchun
rahmat!**

