

Frank Robinson 1930-2022



Working on the Mojave seats



Hoist rig with engine



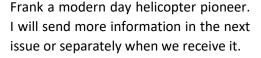
New Phrog battery



New Mil Mi-26 model

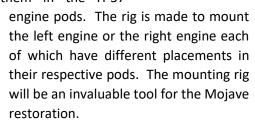
Rotorheads

It's good to be back at the keyboard putting together another issue. Restoration work at the museum has been kind of dry for the third quarter of 2022. We did, however, get some work done on the Mojave and Phrog as well as many things done in other areas, including an unusual number of tours. continue, we received the sad news the Frank Robinson passed away on November 12. We consider

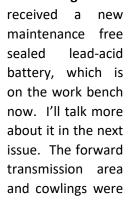


The Sikorsky CH-37 Mojave had work done on the cabin troop seats. The seats are original and very fragile, requiring careful work. We received windows for the 37 and an engine hoist rig for the P&W R2800 from

Pratt & Whitney. windows are wrapped and set aside for future use. The engine hoist rig was cleaned and painted then hung above the engine. It is specifically designed to lift the R2800 to the required position to mount them in the H-37





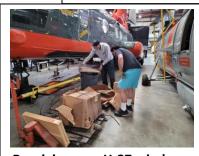




Lending 46 parts



Robinson Helicopters



Receiving new H-37 windows



Cleaning the engine hoist rig



R2800 hoist rig



Checking the 46 transmission



Securing the forward cowling

inspected and cleaned. We loaned some critical H-46 parts to the National United States Armed Forces

Museum in Houston, TX.



Mi-24 Hind model



Civil 235 and military H-47

Other project action took place with the model room, more pictorial displays, the video game and the gift shop. The **Model Room** has new Mil Mi-



a historical collage of Igor Sikorsky. New





Northrup MQ-8B model



Boeing 297 HLH model



Sikorsky helicopter timeline



Hanging pioneer displays



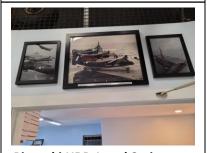
Gift Shop pioneer video



Leonardo da Vinci and Screw



Leonardo, Goodland, Sikorsky



Piasecki HRP 1 and 2 pictures



Replacing connector



Video game working

replacing some electrical connectors. It is quite popular with

our young (and some older) visitors. The **Gift Shop** has a new feel with the addition of a constantly running helicopter history video where guests can relax while watching helo history in action. Some significant

Donations this period include the MQ-8B drone models, a hole press tool from the Flying Leathernecks

sensor and new sewer pump. It gets quite hot on the upper display deck in the summer, so a sensor was placed there with dual readouts in the gift shop for the top floor and the gift shop. We pride ourselves on the condition of our

restrooms, which we have separate for

men and women including disabled access. Our sewer pump failed, requiring replacement including cutting a new







Sorting donated parts MQ-8B models loaded to move

and a proposed 18 ft long Mil Mi-24D Hind from the Western Museum of Flight; the Hind to arrive at a future date.

Infrastructure work included a temperature



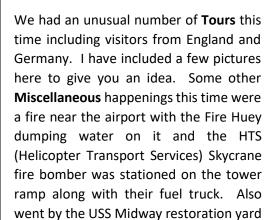
Hole punch loaded to move

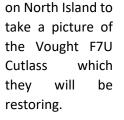


Upper deck temp sensor



Gift shop temp readout





For history this time we're going to look at some early helicopter

speedsters.

sewer plate cover.



Tour at the HUK

Tour at the Roton Rocket



Tour at the Helipod





Installing new sewer pump



Tour inside of the HH-46E

Helicopters are not go-fast machines. Although the blade tips approach supersonic speeds, it's just not possible to get the rest of the machine much faster than about 180 knots due to aerodynamic phenomena of retreating blade stall and advancing blade compressibility. This has

not stopped designers and engineers from seeking to push helicopters past 200 kt with such aircraft as



Huey fire bombing at airport



Vought F7U Cutlass



Bell Boeing V-22 Osprey



Bell 533 compound

the Sikorsky S-97 Raider and the Bell Boeing V-22 Osprey. Two early attempts were the Bell 533 and Sikorsky S-69 (XH-59 military designation) ABC compound helicopters. The Bell 533 was a high speed helicopter based on a highly drag-reduced Huey airframe, including removing the stab-bar and incorporating a variable tilt rotor mast, from 1962 to 1969. Further modifications included 3 and 4-bladed rotor systems, two fuselage mounted turbojets and wings enabling the 533 to break 200 kt in 1964, the first helicopter to do so, and with more powerful turbojets 274 kt in 1969. It is on display at the Army Museum at Fort Eustis, VA. The Sikorsky S-69 ABC (Advancing Blade Concept) was a coaxial rotor high speed helicopter test aircraft which feathered the retreating blade to avoid blade stall with the lift only produced on the advancing blade. When two turbojets were attached to the fuselage it was able to achieve a speed of 263 kt. The ABC concept was played ahead to the Sikorsky X-2 in 2008 and S-97 in 2015. The S-69 is on display at the Army Aviation Museum at Fort Rucker, AL.

In September of 1959, Igor Sikorsky states, "The helicopter is probably the most versatile instrument ever invented by man. It approaches closer than any other to fulfillment of mankind's ancient dreams of the flying horse and the magic carpet." We hope you had a great Thanksgiving and



HTS Skycrane and fuel truck



Midway restoration yard



Sikorsky S-97 Raider



Sikorsky S-69 ABC compound

want to wish you and your families the very best for the holidays fast approaching. Before the holidays hit us, hop on your personal flying horse for a trip to the museum so you can see what we have been working on in person. We look forward to seeing you soon. Until then, stay safe and healthy, keep your turns up and always look for a safe place to land.

Chip out.

Short 2 min video of the Model Room https://youtu.be/6WB6YmsdTmk

The Western Museum of Flight https://www.wmof.com/