

HOW TO PACK A SPACECRAFT



1
00:00:08,110 --> 00:00:02,490
foreign

2
00:00:12,169 --> 00:00:08,120
[Music]

3
00:00:14,390 --> 00:00:12,179
Voyage from JPL to Indian space research

4
00:00:15,470 --> 00:00:14,400
organization in Bangalore India that

5
00:00:17,390 --> 00:00:15,480
means that we're going to have to suit

6
00:00:18,830 --> 00:00:17,400
up and go on to the clean room floor

7
00:00:20,510 --> 00:00:18,840
where my team and I have been working

8
00:00:24,110 --> 00:00:20,520
for the past three years to get this

9
00:00:34,209 --> 00:00:24,120
thing built come on let's go

10
00:00:38,270 --> 00:00:36,229
shouldn't be too surprising what we're

11
00:00:40,910 --> 00:00:38,280
doing we're getting into the airlock

12
00:00:42,290 --> 00:00:40,920
then we're going into high Bay one this

13
00:00:46,450 --> 00:00:42,300

is the direction that we're going to be

14

00:00:49,549 --> 00:00:46,460

in when we lift it in the container

15

00:00:51,830 --> 00:00:49,559

okay the whole thing is a Precision

16

00:00:54,290 --> 00:00:51,840

instrument later on we are going to have

17

00:00:57,350 --> 00:00:54,300

to assemble this thing basically pick up

18

00:01:00,650 --> 00:00:57,360

a two-ton load and put it together with

19

00:01:06,770 --> 00:01:04,189

so what is nysar it is the NASA ISRO

20

00:01:08,450 --> 00:01:06,780

synthetic aperture radar this is the

21

00:01:09,950 --> 00:01:08,460

radar payload in the engineering panel

22

00:01:12,170 --> 00:01:09,960

so it's effectively the heart and brains

23

00:01:14,030 --> 00:01:12,180

of the mission nysar will use two

24

00:01:15,410 --> 00:01:14,040

powerful Radars that can detect very

25

00:01:17,570 --> 00:01:15,420

small changes in the Earth's surface

26

00:01:19,670 --> 00:01:17,580

this allows the mission to observe a

27

00:01:21,410 --> 00:01:19,680

wide range of Earth processes from the

28

00:01:22,670 --> 00:01:21,420

flow rates of glaciers and ice sheets to

29

00:01:24,170 --> 00:01:22,680

the Dynamics of earthquakes and

30

00:01:26,510 --> 00:01:24,180

volcanoes

31

00:01:27,950 --> 00:01:26,520

along with our Indian colleagues we've

32

00:01:30,350 --> 00:01:27,960

been building nysar here in this

33

00:01:32,149 --> 00:01:30,360

facility for the last three years and it

34

00:01:35,510 --> 00:01:32,159

took a whole crew so

35

00:01:37,609 --> 00:01:35,520

they're not flying to Bangalore

36

00:01:39,469 --> 00:01:37,619

Ator crew from the mechanical team

37

00:01:40,789 --> 00:01:39,479

that's going it takes an army to get us

38

00:01:42,649 --> 00:01:40,799

there

39

00:01:45,170 --> 00:01:42,659

when I first came under the project this

40

00:01:47,749 --> 00:01:45,180

was just a shell of a payload we had the

41

00:01:49,969 --> 00:01:47,759

aluminum titanium structure with

42

00:01:51,830 --> 00:01:49,979

basically nothing in it and then they've

43

00:01:53,929 --> 00:01:51,840

been popular with electronics and with

44

00:01:56,990 --> 00:01:53,939

the radar payload we brought in a

45

00:02:00,590 --> 00:01:57,000

instrument from India the SR so that's

46

00:02:03,410 --> 00:02:00,600

the s-band radar to our elsar our l-band

47

00:02:05,270 --> 00:02:03,420

radar since then we've been testing it

48

00:02:07,249 --> 00:02:05,280

and today we're getting ready to put it

49

00:02:08,270 --> 00:02:07,259

in the shipping container to send it on

50

00:02:11,809 --> 00:02:08,280

to India

51

00:02:12,720 --> 00:02:11,819

[Music]

52

00:02:18,770 --> 00:02:12,730

tight fit

53

00:02:20,510 --> 00:02:18,780

[Music]

54

00:02:22,490 --> 00:02:20,520

so we're going to be working over the

55

00:02:24,770 --> 00:02:22,500

next year with our Indian Partners to do

56

00:02:27,410 --> 00:02:24,780

the final stages of assembly and test

57

00:02:29,089 --> 00:02:27,420

thank you for joining us today uh it's

58

00:02:31,640 --> 00:02:29,099

been a pleasure being your guide and I

59

00:02:34,670 --> 00:02:31,650

hope to see you when we launch next year