EFHK/HEL SINKI, FINLAND
VANTAA 19 OCT 07 10-1P Eff 25 Oct AIRPORT BRIEFING

1. GENERAL

1.1. ATIS

D-ATIS Arrival 135.07 D-ATIS Departure 114.2

1.2. NOISE ABATEMENT PROCEDURES

1.2.1. GENERAL

In order to reduce ACFT noise impact on residential areas in the vicinity of Helsinki APT the following procedures will be applied:

Flights below 2000' over the city of Helsinki must be avoided unless lower altitude is necessary for take-off or landing.

1.2.2. PREFERENTIAL RUNWAY SYSTEM

LANDINGS

1. Rwy 15 2. Rwy 22L 3. Rwy 04L 4. Rwy 04R 5. Rwy 22R 6. Rwy 33

1. Rwy 22R 2. Rwy 22L 3. Rwy 04R 4. Rwy 33 5. Rwy 04L 6. Rwy 15

Selection of RWY-in-use is based on safety aspects and temporary restrictions concerning RWY availability.

RWY 15 is not used for departures and RWY 33 for landings, except between 0600-2300LT for turbo-props and other propeller-driven ACFT.

1.2.3. NIGHTTIME RESTRICTIONS

In order to reduce ACFT noise and emissions between 2300-0600LT, ATC may give clearances for continuous descent approaches (CDA), situation permitting. ACFT may be vectored to ILS approach from IAF LAKUT and ORM in order to reduce noise impact.

1.2.4. RUN-UP TESTS

Scheduled maintenance run-ups, excluding idle power, must be performed on the runup area and shall be avoided between 2200-0700LT and on Sundays. Exceptions only as agreed with the TWR.

1.2.5. REVERSE THRUST

Pilots are recommended to avoid reverse thrust except idle thrust after landings.

1.2.6. AUXILIARY POWER UNIT (APU)

The use of APU shall be restricted only to unavoidable situations.

1.3. LOW VISIBILITY PROCEDURES (LVP)

1.3.1. **GENERAL**

- All RWYs are approved for LVP for take-offs when the RVR is 550m or less.
- Low Visibility Procedures become effective when TDZ RVR decreases to 600m or the ceiling decreases below 200'.
- The application of LVP will be informed to the pilots via ATIS or by ATC.
- ATC will always report the TDZ RVR. Mid RVR and roll-out RVR will only be reported
 if they are less than the TDZ RVR and below 800m, or when less than 400m, or
 requested by pilot.
- In case the APT is unable to comply with LVP, pilots are informed either via ATIS or by ATC:

"Airport unable to comply with Low Visibility Procedures."

1.3.2. ARRIVAL

After landing pilots shall maintain on Tower frequency and report "RUNWAY VACATED" not until the ACFT has either completely passed the CAT II/III holding position sign or is on the TWY parallel to RWY.

1.3.3. DEPARTURE

Departing ACFT taxiing on manoeuvring area shall not pass CAT II/III holding positions and stop bar lights unless cleared by ATC and stop bar lights are switched off.

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EFHK/HEL SINKI, FINLAND
VANTAA 19 OCT 07 10-1P1 Eff 25 Oct AIRPORT BRIEFING

1. GENERAL

1.3.4. CAT II APPROACHES

P-RNAV approved ACFT may intercept the ILS LOC by own navigation using RNAV transition, or may request radar vectoring. Other ACFT will be vectored so, that the intercept of ILS LOC is not less than 10 NM before touchdown.

1.4. TAXI PROCEDURES

1.4.1. GENERAL

CHANGES: New page.

For wingspan restrictions refer to 10-9 charts.

Reduced wingtip clearances exist between ACFT on parallel TWYs as well as between ACFT and objects including parked ACFT and vehicles on service roads. Adhere strictly to TWY centerline markings.

Taxiing on apron is always subject to clearances and instructions given by Ground. ATC issues clearances for taxiing only within area of Apron Control competence. ACFT taxiing on the apron shall follow the yellow taxi guidance lines. No deviations or shortcuts are permitted except under guidance of a Follow-Me car or after special instructions by ATC.

ACFT taxiing on TWYs W, Y and Z shall give priority to ACFT vacating RWY.

1.4.2. APRON SPOT COORDINATION POINTS

Apron spots (An orange circle with two digits, painted DAY markings only) will be used as coordination points for traffic to and from aprons. Apron spots will not be used if the markings are temporarily covered by ice or snow. Apron spots shall not be used as parking stands.

1.5. PARKING INFORMATION

Stands 12 thru 33 equipped with docking guidance system.

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9 NOV 07

10-1P2)

Eff 22 Nov

HELSINKI, FINLAND AIRPORT BRIEFING

2. ARRIVAL

2.1. SPEED RESTRICTIONS

Unless otherwise instructed by ATC, the ACFT shall follow speed limit MAX 250 KT at HEL 30 DME.

Speed restrictions for RNAV STARs are published on charts concerned.

2.2. NOISE ABATEMENT PROCEDURES

Standard Arrival Routes depicted on Helsinki STAR charts are also minimum noise routings.

Due to VFR traffic flying below IFR traffic an ACFT carrying out visual approach shall maintain an altitude of at least 2000' until 7 DME HEL, and established on final. The final stage of a visual approach shall be performed at descent profile equivalent to at least 3°.

2.3. CAT II OPERATIONS

RWYs 04L and 22L approved for CAT II operations, special aircrew and ACFT certification required.

2.4. RUNWAY OPERATIONS

2.4.1. MINIMUM RWY OCCUPANCY TIME

Pilots are reminded that rapid exit from the RWY enables ATC to apply minimum spacing on final approach that will achieve maximum RWY utilisation and will minimize the occurence of go-arounds.

The ACFT vacating RWY has priority to other taxiing traffic.

Pilots should prepare their landings so that they are able to vacate the RWYs in accordance with the following table when RWY conditions permit:

	Preferred turn-offs						
RWY	TWY	Dist from THR to turn-off	Class				
04L	WK	5620′/1713m	AU				
04R	ZG	4833′/1473m	All				
	ZD	6657′/2029m	Heavy				
15	YF	5066′/1544m	Medium Jet Medium Prop/Light				
	ΥH	6102′/1860m	II				
	YL	7927′/2416m	Heavy				
22L	ZH	4967′/1514m	All				
	ZJ	5856′/1785m	Heavy				
22R	WL	3484'/1062m	Medium Prop/Light				
	WP	4478′/1365m	All				
	WS	5807′/1770m	Heavy				
33	YF	3812'/1162m	Medium Prop/Light				
	Z	6804′/2074m	Heavy Medium Jet				

In order to ensure minimum RWY occupancy time, it is recommended to name the expected turn-off during the approach briefing.

CHANGES: Minimum rwy occupancy time.

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9 NOV 07 (10-1P3) Eff 22 Nov AIRPORT BRIEFING

2. ARRIVAL

2.5. TAXI PROCEDURES

2.5.1. **GENERAL**

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ACFT landed at RWY 22L shall not vacate via TWY ZG unless otherwise instructed by ATC.

ACFT using RWY 04R/22L or 15/33 shall contact Ground immediately after vacating the RWY for taxi clearance within area of Apron Control competence.

ACFT vacating RWY 04L/22R shall maintain the appropriate Tower frequency unless otherwise instructed.

If no other instruction than ACFT stand is given, ACFT shall use the TWY parallel to the RWY to the TWY closest to the assigned ACFT stand.

2.5.2. APRON SPOT COORDINATION POINTS

After receiving taxi instruction to an apron spot proceed to the appropriate apron spot. Hold ACFT nose on the spot until further taxi instructions have been issued by ATC.

2.6. OTHER INFORMATION

CHANGES: Simultaneous operations.

2.6.1. SIMULTANEOUS OPERATIONS

Dependent parallel approaches will be used on RWYs 04L/R or 22L/R. ATIS broadcast will contain the following information: "Simultaneous dependent ILS approaches in progress on runways 22R and 22L (04R and 04L)."

Independent parallel approaches will be used on RWYs 04L/R or 22L/R. ATIS broadcast will contain the following information: "Simultaneous independent ILS approaches in progress on runways 22R and 22L (04R and 04L)."

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HELSINKI, FINLAND

AIRPORT BRIEFING

3. DEPARTURE

3.1. DE-ICING

3.1.1. **GENERAL**

ACFT de-icing may only be carried out in areas specifically designated by the APT. De-icing may also be performed on Remote De-icing Apron (Apron 6).

De-icing must always be requested through HELSINKI De-icing Coordinator on 131.8. The de-icing coordinator will then inform the pilot of which de-icing stand or area to use and will forward the request to the de-icing company. Pilots are recommended to monitor the de-icing coordinator's frequency.

All queries regarding de-icing requests shall initially be made direct to the de-icing coordinator.

Pilots must always request route clearance from ATC before de-icing begins (when the ACFT is ready to begin de-icing). This requirement also applies when de-icing is to be carried out in ACFT parking areas.

When requesting route clearance, pilots must also tell ATC which de-icing stand has been allocated by the de-icing coordinator. If pilots are directed to the Remote De-icing Apron for de-icing they should notify this as Apron 6.

3.1.2. SPECIAL PROCEDURES FOR REMOTE DE-ICING APRON (APRON 6)

When de-icing is performed on the Remote De-icing Apron (Apron 6), ATC will hand over the ACFT at the perimeter of the apron to the Remote De-icing Coordinator (normally on 121.75).

When notifying the coordinator, pilots shall use their ACFT tail number for identification. The coordinator will direct the ACFT to one of the de-icing stands 601 thru 608.

The Remote De-icing Apron (Apron 6), including its entry and exit taxi lines, lies outside the normal manoeuvring area. Pilots are reminded to proceed with extreme CAUTION within this area so as not to endanger other personnel or vehicles operating in the area.

Pilots must avoid using excessive power when taxiing within this apron.

De-icing is complete when the pilot has received final notification (in accordance with the AEA anti-icing code) by radio. In the Remote De-icing Apron, the final notification is considered as including the "all clear" signal. The anti-icing code cannot be given unless all the conditions of the "all clear" signal have been met. Pilots must remain on the coordinator's frequency until the anti-icing code has been received and the pilot has received instructions to contact ATC again. In the initial call to ATC the pilot shall notify them of the flight's radio call sign and

In the initial call to ATC the pilot shall notify them of the flight's radio call sign and the de-icing stand number being used. The ACFT must not move until taxiing instructions have been received from ATC and acknowledged.

3.2. START-UP, PUSH-BACK & TAXI PROCEDURES

3.2.1. **GENERAL**

Departing flights will receive ATC clearance as follows:

- 0600-2400LT: HELSINKI Delivery
- 2400-0600LT: HELSINKI Ground

Route clearance shall be requested from appropriate ATC unit not earlier than 10 minutes before the estimated start-up. However, the route clearance must always be requested before de-icing begins. Type of ACFT, ATIS received and (when appropriate) the request to use other RWY than the RWY in use shall be stated.

3.2.2. START-UP & PUSH-BACK

Contact Ground for start-up and push-back clearance. The stand of the ACFT shall be stated in the initial contact with the ATC unit.

3.2.3. TAXIING

Unless otherwise instructed ACFT shall use shortest possible way to TWY parallel to the RWY.

ACFT leaving apron to manoeuvring area shall give priority to the ACFT taxiing on $TWYs\ Y$ and Z.

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EFHK/HEL SINKI, FINLAND
VANTAA 9 NOV 07 10-1P5 Eff 22 Nov AIRPORT BRIEFING

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3. DEPARTURE

3.2.4. APRON SPOT COORDINATION POINTS

After receiving taxi instruction to enter an apron spot proceed to the appropriate apron spot and hold ACFT nose on the spot. Do not enter a TWY until a further taxi clearance has been issued by ATC.

3.3. SPEED RESTRICTIONS

MAX 250 KT up to 4000 ' unless otherwise instructed by ATC.

3.4. NOISE ABATEMENT PROCEDURES

After take-off ACFT shall climb as rapidly as practicable to at least 2000'. Standard Instrument Departure Routes depicted on Helsinki SID charts are also minimum noise routings.

Moderately quiet jets (ACFT with take-off noise level less than 89 EPNdB according to ICAO Annex 16, Chapter 3) are allowed to use some PROP/TURBOPROP SID routes. These routes are indicated on the charts concerned.

3.5. RWY OPERATIONS

3.5.1. MINIMUM RWY OCCUPANCY TIME

On receipt of line-up clearance pilots should ensure, commensurate with safety and standard operating procedures, that they are able to taxi into correct position at the hold and line-up on the RWY as soon as the preceding ACFT has commenced its take-off roll or landing run.

Pilots shall ensure that cockpit checks have been completed prior to line-up and that they are able to commence the take-off roll immediately after clearance for departure has been issued.

Pilots not able to comply with these requirements should notify ATC.

3.6. OTHER INFORMATION

CHANGES: New page.

Due to jetblast hazard, ACFT departing RWY 22L from TWY Y or ZD intersection shall use idle power until clearance for departure has been issued.

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HELSINKI, FINLAND

11 NOV 05 (10-2) Eff 24 Nov

ARRIVAL INSTRUCTIONS

1. HOLDINGS

If traffic situation demands, holdings may be performed as specified in the table below:

IDENT & POSITION	LEVEL	INBOUND COURSE	TURN DIRECTION	MAX SPEED	TIME
ESPOO N60 14.9 E024 47.8	3000'-FL140	041°	LEFT	230 KT	1 MIN
INTOR (TALLINN FIR) N59 49.7 E025 11.2	FL100-FL140 FL150-FL200	016° 016°	RIGHT RIGHT	230 KT 240 KT	1 MIN 1.5 MIN
KORSO N60 22.3 E025 04.1	3000'-FL140	220°	LEFT	230 KT	1 MIN
LAKUT	FL70-FL140	077°	LEFT	230 KT	1 MIN
N60 26.3 E023 52.6	FL150-FL200	077°	LEFT	240 KT	1.5 MIN
ORIMAA	FL100-FL140	212°	RIGHT	230 KT	1 MIN
N60 50.0 E025 45.7	FL150-FL200	212°	RIGHT	240 KT	1.5 MIN
PEXEN	FL100-FL140	060°	RIGHT	230 KT	1 MIN
N59 54.8 E023 49.5	FL150-FL200	060°	RIGHT	240 KT	1.5 MIN
PORVOO	3000'-FL140	220°	LEFT	230 KT	1 MIN
N60 17.7 E025 35.3	FL150-FL160	220°	LEFT	240 KT	1.5 MIN

2. FPL/DESCENT CLEARANCE

FPL for inbound IFR traffic to EFHK shall be closed on the following IAFs:

INTOR, LAKUT, ORIMAA, PEXEN or PORVOO.

If unable to comply inform ATC immediately.

Traffic inbound IAF LAKUT, ORIMAA or PEXEN: ACC will normally give descent clearance to FL100.

Traffic inbound IAF PORVOO:

ACC/APP will normally give descent clearance to FL100 (from GOGLA and LEDUN to FL160). If flight level given in FPL is lower than FL100 aircraft shall be cleared to maintain FL90.

Traffic inbound from TALLINN airspace:

TALLINN ACC/APP will normally give descent clearance via IAF INTOR to FL100. If the flight level given in FPL is lower than FL100 aircraft shall be cleared to maintain FL90.

Other directions:

ACC will normally give descent clearance to FL100.

3. SPEED RESTRICTIONS

Speed restrictions to all aircraft:

Unless otherwise instructed by ATC the aircraft shall follow speed limit MAX 250 KT at HEL 30 DME.

Speed restrictions for RNAV STARs are published on charts concerned.

4. ALTITUDE RESTRICTIONS.

Unless otherwise cleared by ATC the descent profile shall be planned so that clearance altitude can be reached at HEL 30 DME. Licensed to Elefant air. Printed on 27 Feb 2008. NOTICE: PRINTED FROM AN EXPIRED REVISION. Disc 23-2007 JEPPESEN JeppView 3.5.2.0

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HELSINKI, FINLAND

11 NOV 05 (10-2A) Eff 24 Nov

ARRIVAL INSTRUCTIONS

5. INITIAL CONTACT

At first contact with HELSINKI Approach state

- designator of the last received ATIS broadcast
- type of aircraft
- level
- RNAV STAR or radar heading given by ATC

To avoid frequency congestion when changing from **HELSINKI** Radar to **HELSINKI** Arrival state: HELSINKI Arrival + call sign

When changing from Approach Control frequency to Tower frequency state: HELSINKI Tower + call sign + runway

6. RNAV STAR

Final approach can not be performed without appropriate clear-

ATC will give descent clearances.

7. INBOUND CLEARANCE

Arriving traffic will be cleared normally to follow RNAV STAR serving the runway in use. An aircraft unable to utilize the given RNAV STAR shall inform ATC immediately ("NEGATIVE P-RNAV APPROVAL") and will then be cleared by ATC to leave IAF on radar heading.

8. VISUAL APPROACH PROCEDURES

Due to VFR traffic flying below IFR traffic an aircraft carrying out visual approach shall maintain an altitude of at least 2000' until HEL 7 DME and established on final.

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JeppView 3.5.2.0 NOTICE: PRINTED FROM AN EXPIRED REVISION. Disc 23-2007 HELSINKI, FINLAND I JEPPESEN EFHK/HEL RNAV (GNSS -11 NOV 05 (10-2B) Eff 24 Nov VANTAA RNAV STAR DME/DME) Alt Set: hPa Trans level: By ATC Trans alt: 5000' 1. ATC vectors the aircraft to final approach if traffic situation Apt Elev D-ATIS requires or the aircraft is unable to utilize given RNAV STAR. 135.07 2. STARs must be flown according to the defined waypoint sequence until the last waypoint. Separate clearance to inbound is INTOR 1B [INTO 1B], ORM 1B, PVO 1B 1900' 1800' RWY 04L RNAV ARRIVALS P-RNAV APPROVAL REQUIRED OTHERWISE ADVISE ATC 2300' 1600' FROM NORTH, EAST & SOUTH MSAHEL VOR **KUVAK** N60 43.8 E025 35.5 At or above FL100 MAX 250 KT ^D117.3 ORM N60 50.0 E025 45.3 At or above Restrictions for use of GNSS: FL100 Class A GNSS shall not be used More than 2 DME inputs cannot be guaranteed at all times. - HELSINKI -114.2 HEL *HK807* N60 25.1 E025 25.2 N60 20.3 E024 57.2 **PODOM** N60 12.3 E024 40.2 At or above NOT TO SCALE 2300' PVO 1B HK711 N60 16.3 E025 05.9 PORVOO-HK801 112.8 PVO N60 10.3 E024 35.8 N60 17.7 E025 35.3 **HK80**4 N60 06.1 E024 43.5 - **HK806** N59 58.8 E025 19.0 At or above 3000' **BALTI** N59 54.3 E025 15. **MAX 220 KT** At or above FL80 INTOR **MAX 250 KT** STAR ROUTING INTOR - BALTI (FL80+; K250-) - HK806 - HK804 (3000'+; K220-) - HK801 -INTOR 1B ORM 1B ORM (FL100+) - KUVAK (FL100+: K250-) - HK807 - HK711 - HK804 (3000'+: K220-) - HK801 - PODOM (2300'+).

PVO - HK711 - HK804 (3000'+; K220-) - HK801 - PODOM (2300'+).

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PVO 1B

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HELSINKI, FINLAND I JEPPESEN EFHK/HEL RNAV (GNSS -11 NOV 05 (10-2C) Eff 24 Nov RNAV STAR VANTÁA DME/DME) Alt Set: hPa Trans level: By ATC Trans alt: 5000' 1. ATC vectors the aircraft to final approach if traffic situation D-ATIS Apt Elev requires or the aircraft is unable to utilize given RNAV STAR. 135.07 2. STARs must be flown according to the defined waypoint sequence until the last waypoint. Separate clearance to inbound is not required. INTOR 1G [INTO1G], ORM 1G, PVO 1G 1900 1800' **RWY 22R RNAV ARRIVALS** P-RNAV APPROVAL REQUIRED OTHERWISE ADVISE ATC 2300' 1600' FROM NORTH, EAST & SOUTH MSA**KUVAK** N60 43.8 E025 35.5 At or above (IAF) FL100 ORIMAA-**MAX 250 KT** 117.3 ORM N60 50.0 E025 45.7 At or above Restrictions for use of GNSS: FL100 Class A GNSS shall not be used. More than 2 DME inputs cannot be guaranteed at all times. HK831 N60 25.4 E025 26.0 At or above 3000' N60 27.6 E025 13. MAX 220 KT 3000 D 114.2 HEL N60 20.3 E024 57.2 PORVOO-112.8 PVO N60 17.7 E025 35.3 NOT TO SCALE . **HK806** N59 58.8 E025 19.0 **BALTI** N59 54.3 E025 15.1 At or above FL80 MAX 250 KT STAR ROUTING **INTOR 1G** INTOR - BALTI (FL80+; K250-) - HK806 - HK832 (3000'+; K220-) - HK831 -RIGRI (3000'+). ORM 1G ORM (FL100+) - KUVAK (FL100+; K250-) - HK831 - RIGRI (3000'+). PVO - HK832 (3000'+; K220-) - HK831 - RIGRI (3000'+).

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HELSINKI, FINLAND I JEPPESEN EFHK/HEL RNAV (GNSS -11 NOV 05 (10-2D) Eff 24 Nov RNAV STAR VANTÁA DME/DME) Alt Set: hPa Trans level: By ATC Trans alt: 5000' 1. ATC vectors the aircraft to final approach if traffic situation Apt Elev D-ATIS requires or the aircraft is unable to utilize given RNAV STAR. 135.07 2. STARs must be flown according to the defined waypoint sequence until the last waypoint. Separate clearance to inbound is INTOR 1J [INTO1J], ORM 1J, PVO 1J 1900' 1800 RWY 22L RNAV ARRIVALS 2300' P-RNAV APPROVAL REQUIRED OTHERWISE ADVISE ATC 1600' FROM NORTH, EAST & SOUTH MSA**KUVAK** N60 43.8 E025 35.5 HEL VOR At or above FL100 **MAX 250 KT** ORIMAA-117.3 ORM N60 50.0 E025 45. HK829 N60 33.3 E025 28.6 At or above FL100 At or above 3000' **MAX 250 KT** *HK827* N60 23<u>.9 E025 22.</u>8 *VASUK* N60 25.6 E025 11.5 At or above E025 16.0 3000' At or above **MAX 220 KT** 2000' D 114.2 HEL PORVOO -112.8 PVO N60 17.7 E025 35.3 Restrictions for use of GNSS: Class A GNSS shall not be used. NOT TO SCALE More than 2 DME inputs cannot be guaranteed at all times. - **HK806** N59 58.8 E025 19.0 At or above FL80 MAX 250 KT STAR ROUTING INTOR - BALTI (FL80+; K250-) - HK806 - HK827 (3000'+; K220-) - HK826 -INTOR 1J ORM 1J ORM (FL100+) - KUVAK (FL100+: K250-) - HK829 (3000'+: K250-) - HK826 -VASUK (2000'+).

PVO - HK827 (3000'+; K220-) - HK826 - VASUK (2000'+).

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JEPPESEN JeppView 3.5.2.0 NOTICE: PRINTED FROM AN EXPIRED REVISION. Disc 23-2007 HELSINKI, FINLAND I JEPPESEN EFHK/HEL RNAV (GNSS -11 NOV 05 (10-2F) Eff 24 Nov RNAV STAR VANTÁA DME/DME) Alt Set: hPa Trans level: By ATC Trans alt: 5000' 1. ATC vectors the aircraft to final approach if traffic situation Apt Elev D-ATIS requires or the aircraft is unable to utilize given RNAV STAR. 135.07 2. STARs must be flown according to the defined waypoint sequence until the last waypoint. Separate clearance to inbound is INTOR 1R [INTO1R], ORM 1R, PVO 1R 1900' 1800' RWY 04R RNAV ARRIVALS P-RNAV APPROVAL REQUIRED OTHERWISE ADVISE ATC 2300' 1600' FROM NORTH, EAST & SOUTH MSA HEL VOR **KUVAK** N60 43.8 E025 35.5 At or above FL100 MAX 250 KT D117.3 ORM N60 50.0 E025 45.7 At or above Restrictions for use of GNSS: FL100 Class A GNSS shall not be used. More than 2 DME inputs cannot be guaranteed at all times. - HELSINKI – D 114.2 HEL **HK807** N60 25.1 E025 25.2 N60 20.3 E024 57.2 GEDLÓ NOT TO SCALE N60 10.3 E024 37.8 At or above PVO 1R 3300' *HK711* N60 16.3 E025 05.9 PORVOO-P112.8 PV0 HK811 N60 17.7 E025 35.3 E024 33.4 HK814 HK806 N60 04.5 E024 40.1 N59 58.8 E025 19.0 At or above 3300 **BALTI** N59 54.3 E025 15.1 MAX 220 KT At or above FL80 INTOR **MAX 250 KT** ROUTING STAR INTOR - BALTI (FL80+; K250-) - HK806 - HK814 (3300'+; K220-) - HK811 -INTOR 1R ORM 1R ORM (FL100+) - KUVAK (FL100+: K250-) - HK807 - HK711 - HK814 (3300'+: K220-) - HK811 - GEDLO (3300'+). PVO 1R PVO - HK711 - HK814 (3300'+; K220-) - HK811 - GEDLO (3300'+).

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HELSINKI, FINLAND # JEPPESEN EFHK/HEL RNAV (GNSS -11 NOV 05 (10-2G) Eff 24 Nov RNAV STAR VANTÁA DME/DME) Alt Set: hPa Trans level: By ATC Trans alt: 5000' 1. ATC vectors the aircraft to final approach if traffic situation D-ATIS Apt Elev requires or the aircraft is unable to utilize given RNAV STAR. 135.07 2. STARs must be flown according to the defined waypoint sequence until the last waypoint. Separate clearance to inbound is INTOR 1W [INTO 1W], ORM 1W, PVO 1W 1900 1800' RWY 33 RNAV ARRIVALS P-RNAV APPROVAL REQUIRED OTHERWISE ADVISE ATC 2300' 1600' FROM NORTH, EAST & SOUTH MSA**KUVAK** N60 43.8 E025 35.5 At or above FL100 ORIMAA -**MAX 250 KT** ^D117.3 ORM N60 50.0 E025 45.7 At or above FL100 Restrictions for use of GNSS: Class A GNSS shall not be used. More than 2 DME inputs cannot be guaranteed at all times. PORVOO-D112.8 PVO N60 17.7 E025 35.3 · HELSINKI HK736 N60 20.1 114.2 HEL NOT TO SCALE N60 20.3 E024 57.2 F025 08 8 INKLIŃ N60 09.7 E025 08. At or above HK837 N60 09.4 E025 20.2 At or above 3000' *HK836* N60 07.1 E025 11.3 MAX 220 KT . **HK806** N59 58.8 E025 19.0 **BALTI** N59 54.3 E025 15.1 At or above FL80 INTOR **MAX 250 KT** STAR ROUTING INTOR 1W INTOR - BALTI (FL80+; K250-) - HK806 - HK836 - INKUN ORM 1W ORM (FL100+) - KUVAK (FL100+: K250-) - HK736 - HK837 (3000'+: K220-) -HK836 - INKUN (3000'+). PVO - HK837 (3000'+; K220-) - HK836 - INKUN (3000'+).

JEPPESEN JeppView 3.5.2.0

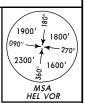
HELSINKI, FINLAND M JEPPESEN EFHK/HEL RNAV (GNSS -11 NOV 05 (10-2H) Eff 24 Nov RNAV STAR VANTÁA DME/DME)

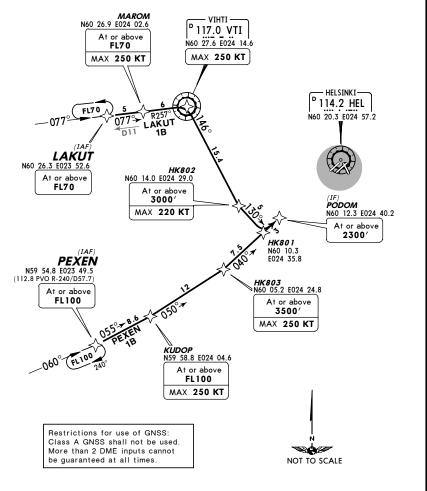
Apt Elev D-ATIS 135.07 179'

Alt Set: hPa Trans level: By ATC Trans alt: 5000' 1. ATC vectors the aircraft to final approach if traffic situation requires or the aircraft is unable to utilize given RNAV STAR. 2. STARs must be flown according to the defined waypoint sequence until the last waypoint. Separate clearance to inbound is

LAKUT 1B [LAKU1B], PEXEN 1B [PEXE1B] RWY 04L RNAV ARRIVALS

P-RNAV APPROVAL REQUIRED OTHERWISE ADVISE ATC FROM WEST





STAR	ROUTING		
LAKUT 1B	LAKUT (FL70+) - MAROM (FL70+; K250-) - VTI (K250-) - HK802 (3000'+; K220-) - HK801 - PODOM (2300'+).		
PEXEN 1B	PEXEN (FL100+) - KUDOP (FL100+; K250-) - HK803 (3500'+; K250-) - HK801 - PODOM (2300'+).		

CHANGES: New chart.

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JEPPESEN

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STAR ROUTING LAKUT 1G LAKUT (FL70+) - MAROM (FL70+; K250-) - VTI (K250-) - HK833 (3000'+; K220-) - HK831 - RIGRI (3000'+). PEXEN (FL100+) - KUDOP (FL100+; K250-) - HK804 - HK832 (3000'+; K220-) -PEXEN 1G HK831 - RIGRI (3000'+).

CHANGES: New chart.

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DME/DME)

JEPPESEN JeppView 3.5.2.0

HELSINKI, FINLAND 11 NOV 05 (10-2K) Eff 24 Nov RNAV STAR

Apt Elev D-ATIS 135.07 179'

EFHK/HEL RNAV (GNSS -

VANTÁA

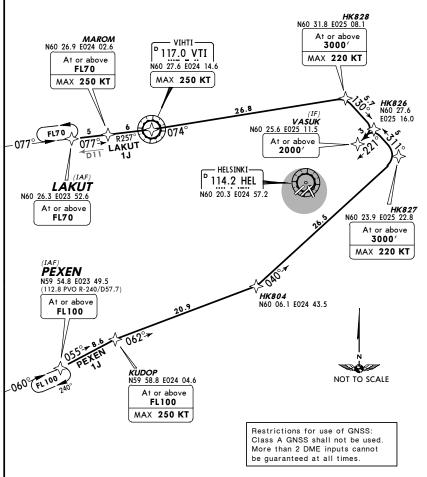
Alt Set: hPa Trans level: By ATC Trans alt: 5000' 1. ATC vectors the aircraft to final approach if traffic situation requires or the aircraft is unable to utilize given RNAV STAR. 2. STARs must be flown according to the defined waypoint sequence until the last waypoint. Separate clearance to inbound is not required.

LAKUT 1J [LAKU1J], PEXEN 1J [PEXE1J] **RWY 22L RNAV ARRIVALS**

P-RNAV APPROVAL REQUIRED OTHERWISE ADVISE ATC FROM WEST

M JEPPESEN





STAR	ROUTING
LAKUT 1J	LAKUT (FL70+) - MAROM (FL70+; K250-) - VTI (K250-) - HK828 (3000'+; K220-) - HK826 - VASUK (2000'+).
PEXEN 1J	PEXEN (FL100+) - KUDOP (FL100+; K250-) - HK804 - HK827 (3000'+; K220-) - HK826 - VASUK (2000'+).

CHANGES: New chart.

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HELSINKI, FINLAND # JEPPESEN EFHK/HEL RNAV (GNSS -11 NOV 05 (10-2L) Eff 24 Nov RNAV STAR VANTAA DME/DME)

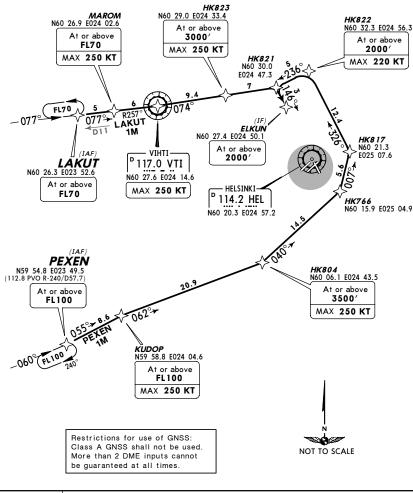
Apt Elev D-ATIS 135.07

Alt Set: hPa Trans level: By ATC Trans alt: 5000' 1. ATC vectors the aircraft to final approach if traffic situation requires or the aircraft is unable to utilize given RNAV STAR. 2. STARs must be flown according to the defined waypoint sequence until the last waypoint. Separate clearance to inbound is not required.

LAKUT 1M [LAKU1M], PEXEN 1M [PEXE1M] **RWY 15 RNAV ARRIVALS**

P-RNAV APPROVAL REQUIRED OTHERWISE ADVISE ATC FROM WEST





JEPPESEN

JeppView 3.5.2.0

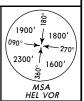
HELSINKI, FINLAND M JEPPESEN EFHK/HEL RNAV (GNSS -11 NOV 05 (10-2M) Eff 24 Nov RNAV STAR VANTÁA DME/DME)

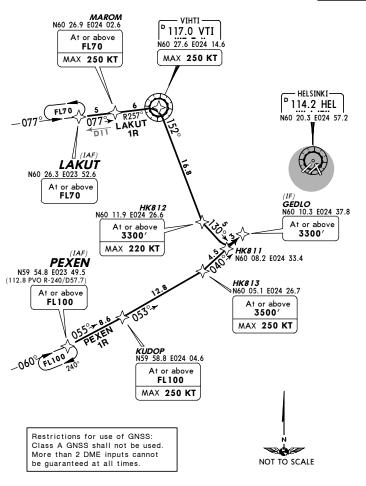
Apt Elev D-ATIS 135.07 179'

Alt Set: hPa Trans level: By ATC Trans alt: 5000' 1. ATC vectors the aircraft to final approach if traffic situation requires or the aircraft is unable to utilize given RNAV STAR. 2. STARs must be flown according to the defined waypoint sequence until the last waypoint. Separate clearance to inbound is

LAKUT 1R [LAKU1R], PEXEN 1R [PEXE1R] RWY 04R RNAV ARRIVALS

P-RNAV APPROVAL REQUIRED OTHERWISE ADVISE ATC FROM WEST





STAR	ROUTING		
LAKUT 1R	LAKUT (FL70+) - MAROM (FL70+; K250-) - VTI (K250-) - HK812 (3300'+; K220-) - HK811 - GEDLO (3300'+).		
PEXEN 1R	PEXEN (FL100+) - KUDOP (FL100+; K250-) - HK813 (3500'+; K250-) - HK811 -		

CHANGES: New chart.

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HELSINKI, FINLAND # JEPPESEN EFHK/HEL RNAV (GNSS -11 NOV 05 (10-2N) Eff 24 Nov RNAV STAR VANTAA DME/DME) Alt Set: hPa Trans level: By ATC Trans alt: 5000' 1. ATC vectors the aircraft to final approach if traffic situation Apt Elev D-ATIS requires or the aircraft is unable to utilize given RNAV STAR. 135.07 2. STARs must be flown according to the defined waypoint sequence until the last waypoint. Separate clearance to inbound is not required. LAKUT 1W [LAKU1W], PEXEN 1W [PEXE1W] 1900 1800' **RWY 33 RNAV ARRIVALS** 090° ₹ 270° P-RNAV APPROVAL REQUIRED OTHERWISE ADVISE ATC 2300' 1600' FROM WEST MSAHEL VOR Restrictions for use of GNSS: Class A GNSS shall not be used. More than 2 DME inputs cannot be guaranteed at all times. MAROM – VIHTI – NOT TO SCALE N60 26.9 E024 02.6 [™] 117.0 VTI At or above N60 27.6 E024 14.6 FL70 MAX 250 KT MAX 250 KT - HELSINKI — D 114.2 HEL FL70 N60 20.3 E024 57.2 **HK742** N60 21.3 E024 44.8 LAKUT INKUN N60 09.7 E025 08.5 At or above At or above FL70 3000' PEXEN HK836 N59 54.8 E023 49.5 N60 07.1 (112.8 PVO R-240/D57.7) E025 11.3 At or above FL100 HK838 N60 04.7 E025 02.5 At or above **KUDOP** N59 58.8 E024 04.6 3500 MAX 220 KT At or above FL100 MAX 250 KT STAR ROUTING LAKUT 1W LAKUT (FL70+) - MAROM (FL70+; K250-) - VTI (K250-) - HK742 - HK838 (3500'+; K220-) - HK836 - INKUN (3000'+). PEXEN (FL100+) - KUDOP (FL100+; K250-) - HK838 (3500'+; K220-) - HK836 -PEXEN 1W

INKUN (3000'+).

JEPPESEN JeppView 3.5.2.0

HELSINKI, FINLAND

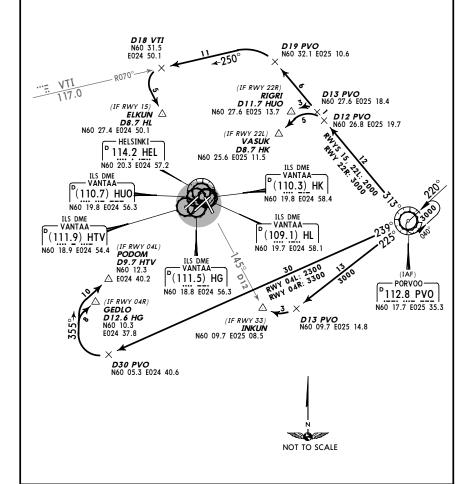
I JEPPESEN EFHK/HEL 11 NOV 05 (10-2P) Eff 24 Nov VANTAA Apt Elev Alt Set: hPa 135.07 179' Trans level: By ATC Trans alt: 5000

RWYS 04L/R, 15, 22L/R, 33 NON-RNAV LOST COMM PROCEDURES

DME AND VOR REQUIRED

CONVENTIONAL INITIAL APCH PROCEDURE FROM PVO FOR ALL RWYS





LOST COMM ROUTING

If RNAV STAR has been given and acknowledged follow STAR to the respective RWY and execute instrument approach and land

During radar vectoring after IAF proceed to PVO holding at last assigned and acknowledged altitude/FL or MHA if higher. Leave holding at 3000' (RWY 04R: 3300') according to current flight plan ETA and execute instrument approach for last acknowledged RWY.

Aircraft equipped with onboard telephone dial +358 9 8277 3324

RNAV aircraft use RNAV STAR to join instrument approach.

CHANGES: New chart.

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Apt Elev

179'

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EFHK/HEL VANTAA

I JEPPESEN 30 DEC 05 (10-3)

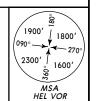
HELSINKI, FINLAND

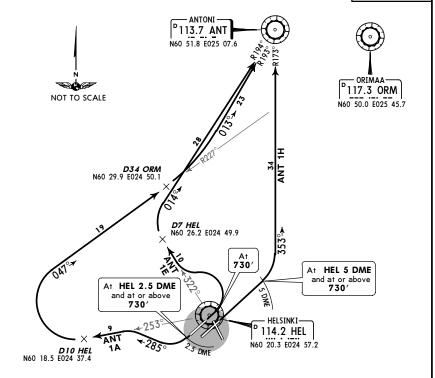
1. Maintain Tower fre-

HELSINKI Radar 129.85

Trans level: By ATC Trans alt: 5000' quency until passing 1500', then contact HELSINKI Radar. contact with HELSINKI Radar report SID or radar heading given by ATC and level. 3. SIDs are also minimum noise routings. 4. Instructions containing deviations from SID (temporary altitude restrictions, etc) may be included in the ATC clearance prior to take-off. 5. RWYS 22R, 04R; EXPECT close-in obstacles.

ANT 1A, ANT 1E, ANT 1H RWYS 22R, 04L/R DEPARTURES MAX 250 KT UP TO 4000' UNLESS OTHERWISE INSTRUCTED BY ATC





These SIDs require a minimum climb gradient

304' per NM (5%) up to 4000' due to airspace restrictions.

Gnd Speed-KT	75	100	150	200	250	300
304' per NM	380	506	760	1013	1266	1519

Initial climb clearance 4000' or assigned altitude if lower, climb to higher level only when cleared by ATC.

After take-off	After take-off climb as rapidly as possible to at least 2000'.					
SID	RWY	ROUTING				
RIGHT, 285° track, intercept HEL		Climb on runway track to HEL 2.5 DME and at or above 730', turn RIGHT, 285° track, intercept HEL R-253 to D10 HEL, turn RIGHT, intercept ORM R-227 inbound to D34 ORM, turn LEFT, intercept ANT R-193 inbound to ANT.				
ANT 1E	04L	Climb on runway track to 730', turn LEFT, intercept HEL R-322 to D7 HEL, turn RIGHT, intercept ANT R-194 inbound to ANT.				
ANT 1H	04R	Climb on runway track to HEL 5 DME and at or above 730', turn LEFT,				

CHANGES: SID ANT 1H text description.

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JEPPESEN JeppView 3.5.2.0

M JEPPESEN EFHK/HEL 30 DEC 05 (10-3A) VANTÁA

HELSINKI, FINLAND

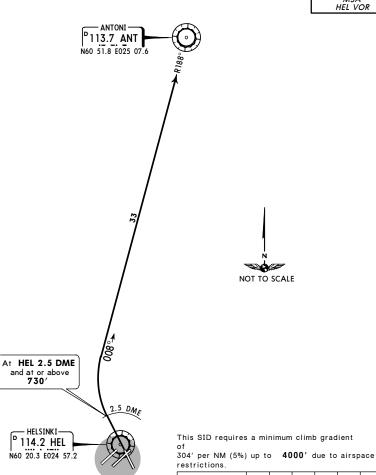
HELSINKI Rada 129.85

Apt Elev

Trans level: By ATC Trans alt: 5000' 1. Maintain Tower frequency until passing 1500', then contact HELSINKI Radar. contact with HELSINKI Radar report SID or radar heading given by ATC and level. 3. SIDs are also minimum noise routings. 4. Instructions containing deviations from SID (temporary altitude restrictions, etc) may be included in the ATC clearance prior to take-off.

ANT 1V **RWY 33 DEPARTURE** 523397 MAX 250 KT UP TO 4000' UNLESS OTHERWISE INSTRUCTED BY ATC





This SID requires a minimum climb gradient

75 100 150 200 250 300 Gnd Speed-KT 380 506 760 1013 1266 1519 304' per NM

Initial climb clearance 4000' or assigned altitude if lower, climb to higher level only when cleared by ATC.

After take-off climb as rapidly as possible to at least 2000'.

730

ROUTING

Climb on runway track to HEL 2.5 DME and at or above 730', turn RIGHT, intercept ANT R-188 inhound to ANT

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EFHK/HEL VANTAA

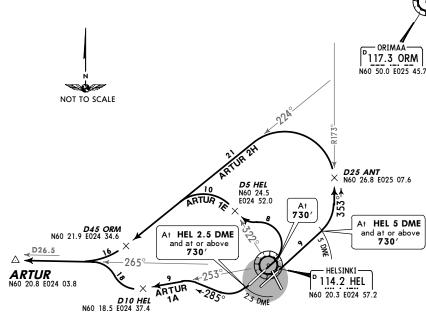
I JEPPESEN 10 NOV 06 (10-3B) Eff 23 Nov HELSINKI, FINLAND

1800'

1600'

Trans level: By ATC Trans alt: 5000' 1. Maintain Tower frequency until passing 1500', then contact HELSINKI Radar. contact with HELSINKI Radar report SID or radar heading given by HELSINKI Radar Apt Elev ATC and level. 3. SIDs are also minimum noise routings. 4. Instruc-179' 129.85 tions containing deviations from SID (temporary altitude restrictions, etc) may be included in the ATC clearance prior to take-off. 5. RWYS 22R, 04R; EXPECT close-in obstacles.

ARTUR 1A [ARTU1A], ARTUR 1E [ARTU1E] 1900' ARTUR 2H [ARTU2H] RWYS 22R, 04L/R DEPARTURES 2300' S2339 MAX 250 KT UP TO 4000' UNLESS OTHERWISE INSTRUCTED BY ATC MSA HEL VOR D113.7 ANT N60 51.8 E025 07.6



These SIDs require a minimum climb gradient

304' per NM (5%) up to 4000' due to airspace restrictions

100 | 150 | 200 | 250 | 300 Gnd Speed-KT 75 304' per NM 380 506 760 1013 1266 1519

Initial climb clearance 4000' or assigned altitude if lower, climb to higher level only when cleared by ATC

After take-off	climb as	rapidly as possible to at least 2000'.
SID	RWY	ROUTING
ARTUR 1A	22R	Climb on runway track to HEL 2.5 DME and at or above 730', turn RIGHT, 285° track, intercept HEL R-253 to D10 HEL, turn RIGHT, intercept HEL R-265 to ARTUR.
ARTUR 1E	04L	Climb on runway track to 730', turn LEFT, intercept HEL R-322 to D5 HEL, turn LEFT, intercept ORM R-224 to D45 ORM, turn RIGHT, intercept HEL R-265 to ARTUR.
ARTUR 2H	04R	Climb on runway track to HEL 5 DME and at or above 730', turn LEFT, intercept ANT R-173 inbound to D25 ANT, turn LEFT, intercept ORM R-224 to D45 ORM, turn RIGHT, intercept HEL R-265 to ARTUR.

JEPPESEN

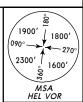
JeppView 3.5.2.0

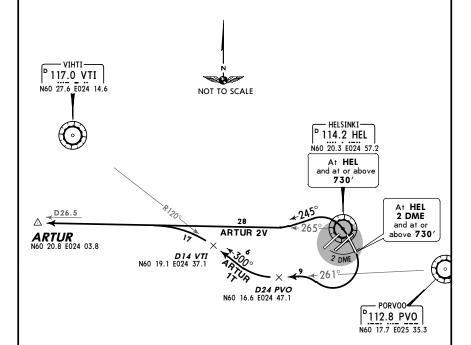
HELSINKI, FINLAND M JEPPESEN EFHK/HEL 10 NOV 06 (10-3C) Eff 23 Nov VANTÁA

HELSINKI Radar Apt Elev 129.85

Trans level: By ATC Trans alt: 5000' 1. Maintain Tower frequency until passing 1500', then contact HELSINKI Radar. contact with HELSINKI Radar report SID or radar heading given by ATC and level. 3. SIDs are also minimum noise routings. 4. Instructions containing deviations from SID (temporary altitude restrictions, etc) may be included in the ATC clearance prior to take-off. 5. RWY 15: EXPECT close-in obstacles.

ARTUR 1T [ARTU1T], ARTUR 2V [ARTU2V] RWYS 15, 33 DEPARTURES MAX 250 KT UP TO 4000' UNLESS OTHERWISE INSTRUCTED BY ATC





These SIDs require a minimum climb gradient

304' per NM (5%) up to 4000' due to airspace restrictions.

Gnd Speed-KT	75	100	150	200	250	300
304' per NM	380	506	760	1013	1266	1519

Initial climb clearance 4000' or assigned altitude if lower, climb to higher level only when cleared by ATC

After take-off climb as rapidly as possible to at least 2000'.					
SID	RWY	ROUTING			
ARTUR 1T	15	Climb on runway track to HEL 2 DME and at or above 730', turn RIGHT, intercept PVO R-261 to D24 PVO, turn RIGHT, intercept VTI R-120 inbound to D14 VTI, turn LEFT, intercept HEL R-265 to ARTUR.			
ARTUR 2V	33	Climb on runway track to HEL and at or above 730', turn LEFT, 245° track, intercept HEL R-265 to ARTUR.			

CHANGES: SID ARTUR 1V renumbered 2V, crossing withdrawn. © JEPPESEN SANDERSON, INC., 2002, 2006. ALL RIGHTS RESERVED. Licensed to Elefant air. Printed on 27 Feb 2008. NOTICE: PRINTED FROM AN EXPIRED REVISION. Disc 23-2007 **JEPPESEN** JeppView 3.5.2.0

EFHK/HEL VANTAA

I JEPPESEN 16 NOV 07 (10-3D) Eff 22 Nov HELSINKI, FINLAND

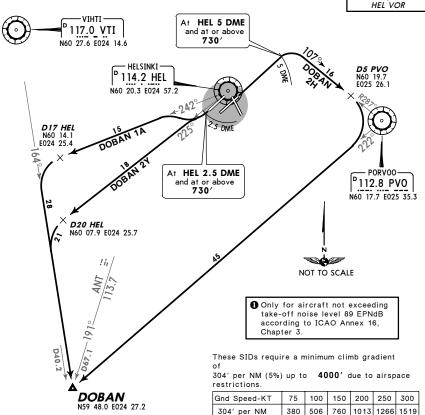
Apt Elev HEI SINKI Radar 179' 119.1

Trans level: By ATC Trans alt: 5000' 1. Maintain Tower frequency until passing 1500', then contact HELSINKI Radar. contact with HELSINKI Radar report SID or radar heading given by ATC and level. 3. SIDs are also minimum noise routings. 4. Instructions containing deviations from SID (temporary altitude restrictions, etc) may be included in the ATC clearance prior to take-off. 5. EXPECT close-in obstacles.

DOBAN 1A [DOBA1A], DOBAN 2H [DOBA2H] DOBAN 2Y [DOBA2Y] RWYS 22R, 04R DEPARTURES MAX 250 KT UP TO 4000'

UNLESS OTHERWISE INSTRUCTED BY ATC





Initial climb clearance 4000' or assigned altitude if lower, climb to higher level only when cleared by ATC

After take-off	After take-off climb as rapidly as possible to at least 2000'.					
SID	RWY	ROUTING				
DOBAN 1A	22R	Climb on runway track to HEL 2.5 DME and at or above 730', turn RIGHT, intercept HEL R-242 to D17 HEL, turn LEFT, intercept VTI R-164 to DOBAN.				
DOBAN 2H	04R	Climb on runway track to HEL 5 DME and at or above 730', turn RIGHT, intercept PVO R-287 inbound to D5 PVO, turn RIGHT, intercept PVO R-222 to DOBAN.				
DOBAN 2Y	22R	Climb on runway track to HEL 2.5 DME and at or above 730', turn RIGHT, intercept HEL R-225 to D20 HEL, turn LEFT, intercept VTI R-164 to DOBAN				

CHANGES: None.

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JEPPESEN JeppView 3.5.2.0

EFHK/HEL

VANTÁA

HELSINKI Radar

119.1

JEPPESEN HELSINKI, FINLAND

Trans level: By ATC Trans alt: 5000' 1. Maintain Tower frequency until passing 1500', then contact HELSINKI Radar. 2. At fir. contact with HELSINKI Radar report SID or radar heading given by ATC and level. 3. SIDs are also minimum noise routings. 4. Instructions containing deviations from SID (temporary altitude restrictions, etc) may be included in the ATC clearance prior to take-off.

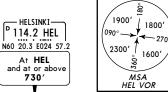
DOBAN 1T [DOBA1T]
DOBAN 2V [DOBA2V]

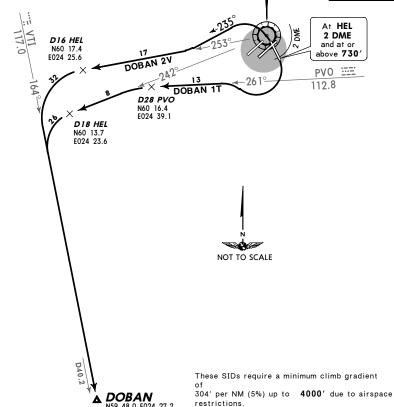
etc) may be included in the ATC clearance price

5. RWY 15: EXPECT close-in obstacles.

HELSINKI—
P 114.2 HEL

RWYS 15, 33 DEPARTURES
SERRE MAX 250 KT UP TO 4000'
UNLESS OTHERWISE INSTRUCTED BY ATC





Gnd Speed-KT 75 100 150 200 250 300 304' per NM 380 506 760 1013 1266 1519

Initial climb clearance **4000**° or assigned altitude if lower, climb to higher level only when cleared by ATC.

After take-off	After take-off climb as rapidly as possible to at least 2000'.					
SID	RWY	ROUTING				
DOBAN 1T	15	Climb on runway track to HEL 2 DME and at or above 730', turn RIGHT, intercept PVO R-261 to D28 PVO, turn LEFT, intercept HEL R-242 to D18 HEL, turn LEFT, intercept VTI R-164 to DOBAN.				
DOBAN 2V	33	Climb on runway track to HEL and at or above 730', turn LEFT, 235° track, intercept HEL R-253 to D16 HEL, turn LEFT, intercept VTI R-164 to D08AN.				

CHANGES: SID DOBAN 1K withdrawn.

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Apt Elev

179'

JEPPESEN JeppView 3.5.2.0

EFHK/HEL

⅓ JEPPESEN16 NOV 07 (10-3F) Eff 22 Nov

HELSINKI, FINLAND

HELSINKI Radar 119.1 Trans level: By ATC Trans alt: 5000' 1. Maintain Tower frequency until passing 1500', then contact HELSINKI Radar. 2. At fir contact with HELSINKI Radar report SID or radar heading given by ATC and level. 3. SIDs are also minimum noise routings. 4. Instruc-

tions containing deviations from SID (temporary altitude restrictions,

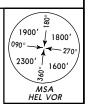
etc) may be included in the ATC clearance prior to take-off. **5.** EXPECT close-in obstacles.

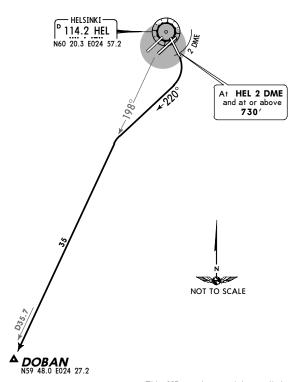
DOBAN 1L [DOBA1L] RWY 15 DEPARTURE

PROP/TURBOPROP ONLY

ONLY FOR ACFT NOT EXCEEDING TAKE-OFF NOISE LEVEL 89 EPNDB
ACCORDING TO ICAO ANNEX 16, CHAPTER 3

SHEET MAX 250 KT UP TO 4000'
UNLESS OTHERWISE INSTRUCTED BY ATC





This SID requires a minimum climb gradient of

Gnd Speed-KT	75	100	150	200	250	300
304' per NM	380	506	760	1013	1266	1519

Initial climb clearance **4000**' or assigned altitude if lower, climb to higher level only when cleared by ATC.

After take-off climb as rapidly as possible to at least 2000'.

ROUTING

Climb on runway track to HEL 2 DME and at or above 730', turn RIGHT, 220° track, intercept HEL R-198 to DORAN

CHANGES: SID DOBAN 1X withdrawn.

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JeppView 3.5.2.0

HELSINKI, FINLAND

HELSINKI Radar 129.85 Apt Elev

EFHK/HEL

VANTÁA

Trans level: By ATC Trans alt: 5000′ 1. Maintain Tower frequency until passing 1500′, then contact HELSINKI Radar. 2. At first contact with HELSINKI Radar report SID or radar heading given by ATC and level. 3. SIDs are also minimum noise routings. 4. Instructions containing deviations from SID (temporary altitude restrictions, etc) may be included in the ATC clearance prior to take-off. 5. RWYS 22R. 04R: EXPECT close-in obstacles.

ELMUT 1A [ELMU1A], ELMUT 1E [ELMU1E]

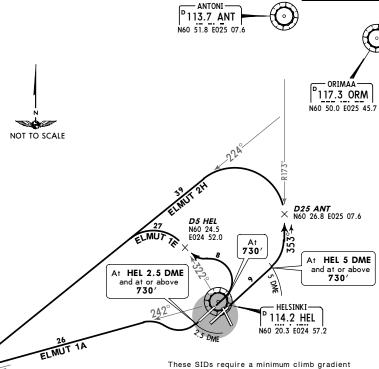
ELMUT 2H [ELMU2H]

DWYS 22D 041/P DEPARTURES

RWYS 22R, 04L/R DEPARTURES

ENDING MAX 250 KT UP TO 4000'
UNLESS OTHERWISE INSTRUCTED BY ATC





climb to higher level only when cleared by ATC.

restrictions.

After take-off climb as rapidly as possible to at least 2000'. SID RWY ROUTING ELMUT 1A 22R Climb on runway track to HEL 2.5 DME and at or above RIGHT, intercept HEL R-242 to ELMUT. Climb on runway track to 730', turn LEFT, intercept HEL R-322 to D5 ELMUT 1E 04L HEL, turn LEFT, intercept ORM R-224 to ELMUT. **ELMUT 2H** 04R Climb on runway track to HEL 5 DME and at or above intercept ANT R-173 inbound to D25 ANT, turn LEFT, intercept ORM R-224 to ELMUT.

CHANGES: None.

ELMUT

N60 10.2 E024 06.0

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304' per NM (5%) up to 4000' due to airspace

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EFHK/HEL VANTAA JEPPESEN

10 NOV 06 (10-3H) Eff 23 Nov

HELSINKI, FINLAND

HELSINKI Radar
129.85

Trans level: By ATC Trans alt: 5000' 1. Maintain Tower frequency until passing 1500', then contact HELSINKI Radar. 2. At first contact with HELSINKI Radar report SID or radar heading given by ATC and level. 3. SIDs are also minimum noise routings. 4. Instructions containing deviations from SID (temporary altitude restrictions, etc) may be included in the ATC clearance prior to take-off.

5. RWY 15: EXPECT Close-in obstacles.

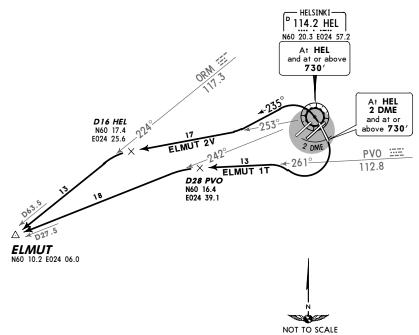
ELMUT 1T [ELMU1T], ELMUT 2V [ELMU2V]

RWYS 15, 33 DEPARTURES

ELHO MAX 250 KT UP TO 4000'

UNLESS OTHERWISE INSTRUCTED BY ATC





These SIDs require a minimum climb gradient

304' per NM (5%) up to 4000^{\prime} due to airspace restrictions.

 Gnd Speed-KT
 75
 100
 150
 200
 250
 300

 304' per NM
 380
 506
 760
 1013
 1266
 1519

Initial climb clearance 4000' or assigned altitude if lower, climb to higher level only when cleared by ATC.

After take-off	climb as	rapidly as possible to at least 2000'.
SID	RWY	ROUTING
ELMUT 1T	15	Climb on runway track to HEL 2 DME and at or above 730', turn RIGHT, intercept PVO R-261 to D28 PVO, turn LEFT, intercept HEL R-242 to ELMUT.
ELMUT 2V	33	Climb on runway track to HEL and at or above 730', turn LEFT, 235° track, intercept HEL R-253 to D16 HEL, turn LEFT, intercept ORM R-224 to FLMILT

JEPPESEN JeppView 3.5.2.0

HELSINKI, FINLAND MJEPPESEN

EFHK/HEL (10-3J) Eff 23 Nov VANTAA 10 NOV 06 Trans level: By ATC Trans alt: 5000' 1. Maintain Tower fre-HELSINKI Rada quency until passing 1500', then contact HELSINKI Radar. MILSI 1A: contact with HELSINKI Radar report SID or radar heading given by Apt Elev 129.85 ATC and level. 3. SIDs are also minimum noise routings. 4. Instructions containing deviations from SID (temporary altitude restrictions, MILSI 1H: etc) may be included in the ATC clearance prior to take-off. 119.1 5. EXPECT close-in obstacles. MILSI 1A [MILSIA] 1800, 1600 MILSI 1H [MILS1H] RWYS 22R, 04R DEPARTURES S2330 MAX 250 KT UP TO 4000 D5 5. 250 300 1266 1519 **UNLESS OTHERWISE** INSTRUCTED BY ATC These SIDs require a minimum climb gradient 200 100 150 506 760 rack to HEL 2.5 DME and at or above ; 285° track, intercept HEL R-253 to 3HT, intercept ORM R-227 inbound to GHT, intercept VII R-078 to MLSI. Tack to HEL 5 DME and at or RIGHT, intercept HEL R-064 to MILSI. 5 DME **D37 ORM** N60 28.1 E024 45.3 t HEL 2.5 DME and at or above 730' Climb on r **730**', tur D10 HEL, D37 ORM,

078

CHANGES: None.

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D10 I

climb climb

Initial

SID

04B

MILSI

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EFHK/HEL VANTÁA

I JEPPESEN 16 NOV 07 (10-3K) Eff 22 Nov HELSINKI, FINLAND

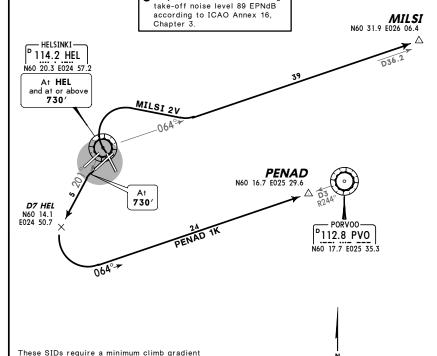
HELSINKI Radar Apt Elev 119.1 179'

Trans level: By ATC Trans alt: 5000' 1. Maintain Tower frequency until passing 1500', then contact HELSINKI Radar. contact with HELSINKI Radar report SID or radar heading given by ATC and level. 3. SIDs are also minimum noise routings. 4. Instructions containing deviations from SID (temporary altitude restrictions, etc) may be included in the ATC clearance prior to take-off. 5. RWY 22L: EXPECT close-in obstacles.

MILSI 2V [MILS2V], PENAD 1K [PENA1K] • RWYS 33, 22L DEPARTURES 12111 MAX 250 KT UP TO 4000 UNLESS OTHERWISE INSTRUCTED BY ATC

Only for aircraft not exceeding





Initial climb clearance 4000' or assigned altitude if lower, climb to higher level only when cleared by ATC.

100 | 150 | 200 | 250 | 300

380 506 760 1013 1266 1519

		3 ,
After take-off	climb as	rapidly as possible to at least 2000'.
SID	RWY	ROUTING
MILSI 2V	33	Climb on runway track to HEL and at or above 730', turn RIGHT, intercept HEL R-064 to MILSI.
PENAD 1K	22L	Climb on runway track to 730', turn LEFT, intercept HEL R-201 to D7 HEL, turn LEFT, intercept PVO R-244 inbound to PENAD.

restrictions

Gnd Speed-KT

304' per NM

304' per NM (5%) up to 4000' due to airspace

NOT TO SCALE

JEPPESEN

JeppView 3.5.2.0

EFHK/HEL VANTÁA

HELSINKI Radar

129.85

M JEPPESEN (10-3L) Eff 22 Nov HELSINKI, FINLAND

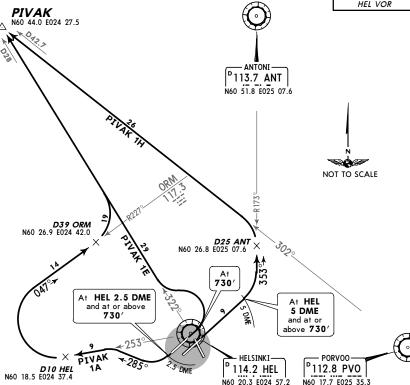
Apt Elev

Trans level: By ATC Trans alt: 5000' 1. Maintain Tower frequency until passing 1500', then contact HELSINKI Radar. contact with HELSINKI Radar report SID or radar heading given by ATC and level. 3. SIDs are also minimum noise routings. 4. Instructions containing deviations from SID (temporary altitude restrictions, etc) may be included in the ATC clearance prior to take-off. 5. RWYS 22R, 04R; EXPECT close-in obstacles.

PIVAK 1A [PIVA1A], PIVAK 1E [PIVA1E] PIVAK 1H [PIVA1H]

RWYS 22R, 04L/R DEPARTURES MAX 250 KT UP TO 4000' UNLESS OTHERWISE INSTRUCTED BY ATC





These SIDs require a minimum climb gradient 304' per NM (5%) up to 4000' due to airspace

75 100 150 200 250 300 Gnd Speed-KT 304' per NM 380 506 760 1013 1266 1519

Initial climb clearance 4000' or assigned altitude if lower, climb to higher level only when cleared by ATC.

After take-o	ff climb	as rapidly as possible to at least 2000'.
SID	RWY	ROUTING
PIVAK 1A	22R	Climb on runway track to HEL 2.5 DME and at or above 730', turn RIGHT, 285° track, intercept HEL R-253 to D10 HEL, turn RIGHT, intercept ORM R-227 inbound to D39 ORM, turn LEFT, intercept HEL R-322 to PIVAK.
PIVAK 1E	04L	Climb on runway track to 730', turn LEFT, intercept HEL R-322 to PIVAK.
PIVAK 1H	04R	Climb on runway track to HEL 5 DME and at or above 730', turn LEFT, intercept ANT R-173 inbound to D25 ANT, turn LEFT, intercept PVO R-302 to PIVAK.

CHANGES: None.

restrictions

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I JEPPESEN 11 NOV 05 (10-3M) Eff 24 Nov HELSINKI, FINLAND

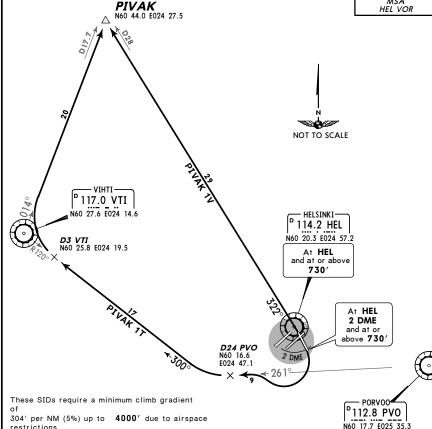
HELSINKI Radar 129.85

Apt Elev 179'

Trans level: By ATC Trans alt: 5000' 1. Maintain Tower frequency until passing 1500', then contact HELSINKI Radar. contact with HELSINKI Radar report SID or radar heading given by ATC and level. 3. SIDs are also minimum noise routings. 4. Instructions containing deviations from SID (temporary altitude restrictions, etc) may be included in the ATC clearance prior to take-off. 5. RWY 15: EXPECT close-in obstacles.

PIVAK 1T [PIVA1T], PIVAK 1V [PIVA1V] RWYS 15, 33 DEPARTURES **SPEED!** MAX 250 KT UP TO 4000' UNLESS OTHERWISE INSTRUCTED BY ATC





304' per NM (5%) up to 4000' due to airspace restrictions. Gnd Speed-KT 75 | 100 | 150 | 200 | 250 | 300 304' per NM 380 | 506 | 760 | 1013 | 1266 | 1519

> Initial climb clearance 4000' or assigned altitude if lower, climb to higher level only when cleared by ATC.

After take-off	climb as	rapidly as possible to at least 2000'.
SID	RWY	ROUTING
PIVAK 1T	15	Climb on runway track to HEL 2 DME and at or above 730', turn RIGHT, intercept PVO R-261 to D24 PVO, turn RIGHT, intercept VTI R-120 inbound to D3 VTI, turn RIGHT, intercept VTI R-014 to PIVAK.
PIVAK 1V	33	Climb on runway track to HEL and at or above 730', HEL R-322 to PIVAK.

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HELSINKI Radar

PVO 1A:

129.85

PVO 1H:

119.1

M JEPPESEN 11 NOV 05 (10-3N) Eff 24 Nov

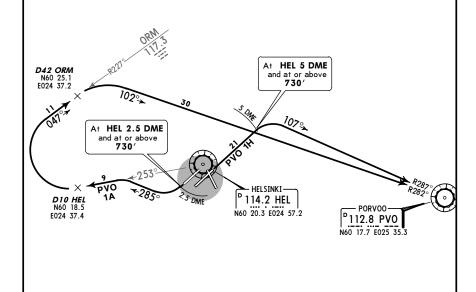
HELSINKI, FINLAND

Apt Elev

Trans level: By ATC Trans alt: 5000' 1. Maintain Tower frequency until passing 1500', then contact HELSINKI Radar. 2. At first contact with HELSINKI Radar report SID or radar heading given by ATC and level. 3. SIDs are also minimum noise routings. 4. Instructions containing deviations from SID (temporary altitude restrictions, etc) may be included in the ATC clearance prior to take-off. 5. EXPECT close-in obstacles.

PVO 1A, PVO 1H RWYS 22R, 04R DEPARTURES MAX 250 KT UP TO 4000' UNLESS OTHERWISE INSTRUCTED BY ATC





These SIDs require a minimum climb gradient 304' per NM (5%) up to 4000' due to airspace

Gnd Speed-KT	75	100	150	200	250	300
304' per NM	380	506	760	1013	1266	1519

Initial climb clearance 4000' or assigned altitude if lower, climb to higher level only when cleared by ATC.

After take-of	f climb as	rapidly as possible to at least 2000'.			
SID RWY ROUTING					
PVO 1A	22R	Climb on runway track to HEL 2.5 DME and at or above 730', turn RIGHT, 285° track, intercept HEL R-253 to D10 HEL, turn RIGHT, intercept ORM R-227 inbound to D42 ORM, turn RIGHT, intercept PVO R-282 inbound to PVO.			
PVO 1H	04R	Climb on runway track to HEL 5 DME and at or above 730', turn RIGHT, intercept PVO R-287 inbound to PVO.			

CHANGES: SIDs completely revised.

restrictions.

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NOT TO SCALE

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Apt Elev

179'

JEPPESEN JeppView 3.5.2.0

EFHK/HEL VANTAA

HELSINKI Radar

119.1

I JEPPESEN

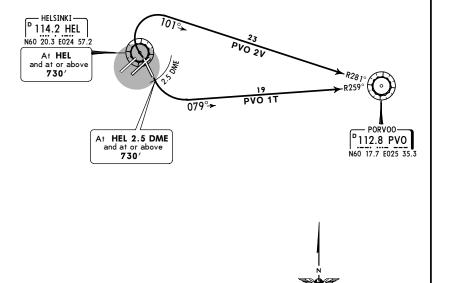
HELSINKI, FINLAND

16 NOV 07 (10-3P) Eff 22 Nov

Trans level: By ATC Trans alt: 5000' 1. Maintain Tower frequency until passing 1500', then contact HELSINKI Radar. 2. At first contact with HELSINKI Radar report SID or radar heading given by ATC and level. 3. SIDs are also minimum noise routings. 4. Instructions containing deviations from SID (temporary altitude restrictions, etc) may be included in the ATC clearance prior to take-off. 5. RWY 15: EXPECT close-in obstacles.

PVO 1T, PVO 2V RWYS 15, 33 DEPARTURES **SPEED!** MAX 250 KT UP TO 4000' UNLESS OTHERWISE INSTRUCTED BY ATC





Initial climb clearance 4000' or assigned altitude if lower, climb to higher level only when cleared by ATC

		crimb to higher level only when creares	d by ATO.	
After take-off	climb as	rapidly as possible to at least 2000'.		
SID	RWY	ROUTING		
PVO 1T	15	Climb on runway track to HEL 2.5 DME and at	or above	730 ', turn LEFT,
		intercept PVO R-259 inbound to PVO.		
PVO 2V	33	Climb on runway track to HEL and at or above	730 ′, tu	rn RIGHT, inter-

restrictions

Gnd Speed-KT

304' per NM

These SIDs require a minimum climb gradient

304' per NM (5%) up to 4000' due to airspace

75 | 100 | 150 | 200 | 250 | 300

380 506 760 1013 1266 1519

NOT TO SCALE

JEPPESEN JeppView 3.5.2.0

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Apt Elev

EFHK/HEL VANTAA

HELSINKI Radar

119.1

JEPPESEN

HELSINKI, FINLAND

16 NOV 07

10-3Q Eff 22 Nov

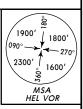
1. Maintain Tower fre-

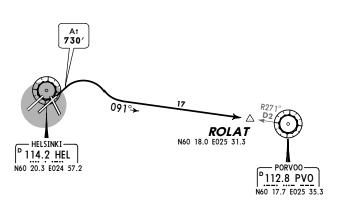
Trans level: By ATC Trans alt: 5000' 1. Maintain Tower frequency until passing 1500', then contact HELSINKI Radar. 2. At fir contact with HELSINKI Radar report SID or radar heading given by ATC and level. 3. SIDs are also minimum noise routings. 4. Instructions containing deviations from SID (temporary altitude restrictions, etc) may be included in the ATC clearance prior to take-off. 5. EXPECT close-in obstacles.

ROLAT 1X [ROLA1X] RWY 04R DEPARTURE

PROP/TURBOPROP ONLY

ONLY FOR ACFT NOT EXCEEDING TAKE-OFF NOISE LEVEL 89 EPNDB
ACCORDING TO ICAO ANNEX 16, CHAPTER 3
ENGRED MAX 250 KT UP TO 4000'
UNLESS OTHERWISE INSTRUCTED BY ATC







This SID requires a minimum climb gradient of

304' per NM (5%) up to 4000' due to airspace restrictions.

Gnd Speed-KT	75	100	150	200	250	300
304' per NM	380	506	760	1013	1266	1519

Initial climb clearance **4000'** or assigned altitude if lower, climb to higher level only when cleared by ATC.

After take-off climb as rapidly as possible to at least 2000'.

ROUTING

Climb on runway track to 730', turn RIGHT, intercept PVO R-271 inbound to ROLAT.

CHANGES: SID PVO 2X replaced by ROLAT 1X.

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EFHK/HEL JO NOV 06 10-35 Eff 23 Nov SID

HELSINKI Radar
129.85

Trans level: By ATC Trans alt: 5000' 1. Maintain Tower frequency until passing 1500', then contact HELSINKI Radar. 2. At first contact with HELSINKI Radar report SID or radar heading given by ATC and level. 3. SIDs are also minimum noise routings. 4. Instructions containing deviations from SID (temporary altitude restrictions, etc) may be included in the ATC clearance prior to take-off.

5. RWYS 22R, 04R: EXPECT close-in obstacles.

RUNEN 1A [RUNE1A], RUNEN 1E [RUNE1E]

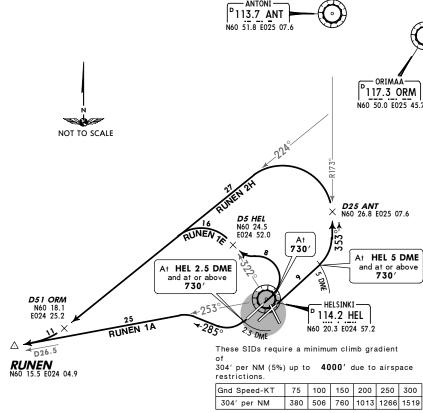
RUNEN 2H [RUNE2H]

RWYS 22R, 04L/R DEPARTURES

SIZER MAX 250 KT UP TO 4000'

UNLESS OTHERWISE INSTRUCTED BY ATC





Initial climb clearance 4000' or assigned altitude if lower, climb to higher level only when cleared by ATC.

After take-off climb as rapidly as possible to at least SID RWY ROUTING **RUNEN 1A** 22R Climb on runway track to HEL 2.5 DME and at or above RIGHT, 285° track, intercept HEL R-253 to RUNEN. **RUNEN 1E** Climb on runway track to 730', turn LEFT, intercept HEL R-322 to D5 HEL, turn LEFT, intercept ORM R-224 to D51 ORM, turn RIGHT, intercept HEL R-253 to RUNEN. Climb on runway track to HEL 5 DME and at or above **RUNEN 2H** intercept ANT R-173 inbound to D25 ANT, turn LEFT, intercept ORM R-224 to D51 ORM, turn RIGHT, intercept HEL R-253 to RUNEN.

CHANGES: SID RUNEN 1H renumbered 2H, crossing withdrawn. © JEPPESEN SANDERSON, INC., 2002, 2006. ALL RIGHTS RESERVED.

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EFHK/HEL VANTÁA

HELSINKI Radar

129.85

M JEPPESEN 10 NOV 06 (10-3T) Eff 23 Nov HELSINKI, FINLAND

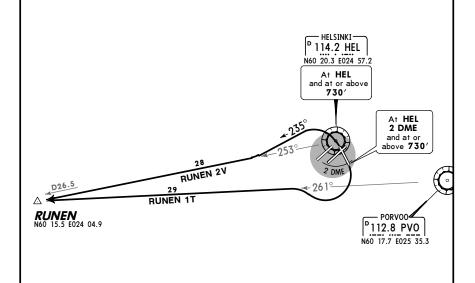
Apt Elev

Trans level: By ATC Trans alt: 5000'

1. Maintain Tower frequency until passing 1500', then contact HELSINKI Radar. 2. At first contact with HELSINKI Radar report SID or radar heading given by ATC and level. 3. SIDs are also minimum noise routings. 4. Instructions containing deviations from SID (temporary altitude restrictions, etc) may be included in the ATC clearance prior to take-off. 5. RWY 15: EXPECT close-in obstacles.

RUNEN 1T [RUNE1T], RUNEN 2V [RUNE2V] RWYS 15, 33 DEPARTURES MAX 250 KT UP TO 4000' UNLESS OTHERWISE INSTRUCTED BY ATC







These SIDs require a minimum climb gradient

304' per NM (5%) up to 4000' due to airspace restrictions.

Gnd Speed-KT	75	100	150	200	250	300
304' per NM	380	506	760	1013	1266	1519

Initial climb clearance 4000' or assigned altitude if lower, climb to higher level only when cleared by ATC.

After take-off	climb as	rapidly as possible to at least 2000'.	
SID	RWY	ROUTING	
RUNEN 1T	15	Climb on runway track to HEL 2 DME and at or above intercept PVO R-261 to RUNEN.	730', turn RIGHT,
RUNEN 2V	33	Climb on runway track to HEL and at or above 730'	, turn LEFT, 235°

CHANGES: SID RUNEN 1V renumbered 2V, crossing withdrawn. © JEPPESEN SANDERSON, INC., 2002, 2006. ALL RIGHTS RESERVED. Licensed to Elefant air. Printed on 27 Feb 2008. NOTICE: PRINTED FROM AN EXPIRED REVISION. Disc 23-2007 JEPPESEN JeppView 3.5.2.0

EFHK/HEL VANTAA

I JEPPESEN

HELSINKI, FINLAND

16 NOV 07 (10-3U) Eff 22 Nov

1. Maintain Tower fre-

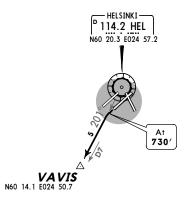
HELSINKI Radar Apt Elev 179' 119.1

Trans level: By ATC Trans alt: 5000' quency until passing 1500', then contact HELSINKI Radar. 2. At first contact with HELSINKI Radar report SID or radar heading given by ATC and level. 3. SIDs are also minimum noise routings. 4. Instructions containing deviations from SID (temporary altitude restrictions, etc) may be included in the ATC clearance prior to take-off. 5. EXPECT close-in obstacles.

VAVIS 1K [VAVI1K] **RWY 22L DEPARTURE**

ONLY FOR ACFT NOT EXCEEDING TAKE-OFF NOISE LEVEL 89 EPNDB ACCORDING TO ICAO ANNEX 16, CHAPTER 3 **SPEEDS** MAX 250 KT UP TO 4000' UNLESS OTHERWISE INSTRUCTED BY ATC







This SID requires a minimum climb gradient

304' per NM (5%) up to 4000' due to airspace restrictions.

Gnd Speed-KT	75	100	150	200	250	300
304' per NM	380	506	760	1013	1266	1519

Initial climb clearance 4000' or assigned altitude if lower, climb to higher level only when cleared by ATC.

After take-off climb as rapidly as possible to at least 2000'.

ROUTING

Climb on runway track to 730', turn LEFT, intercept HEL R-201 to VAVIS.

CHANGES: SID MATUD 1K replaced by VAVIS 1K. © JEPPESEN SANDERSON, INC., 2006, 2007. ALL RIGHTS RESERVED.

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EFHK/HEL
Apt Elev 179'
N60 19.0 E024 57.8
D-ATIS Departure HELSINKI, FINLAND **MALEPPESEN** 19 OCT 07 (10-9) Eff 25 Oct VANTAA *HELSINKI Delivery Tower 118.12 121.65 114.2 121.8 118.6 118.85 RUNWAY INCURSION HOTSPOTS See 10-9A for ription of Hot 24-59
Trees
Up to 212/© Letr AIRPORT BRIEFING er to 10-1P pages € 263′ 24-57.2 RWY 04L/22R

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CHANGES: Notes transferred to 10-1P pages. Twys.

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EFHK/HEL

M JEPPESEN

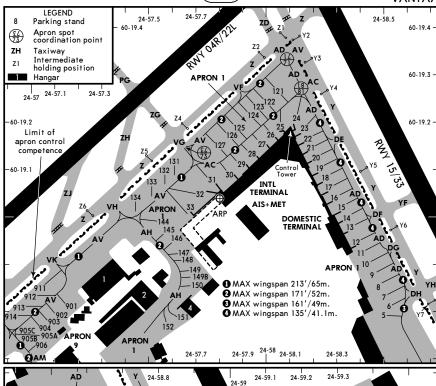
HELSINKI, FINLAND

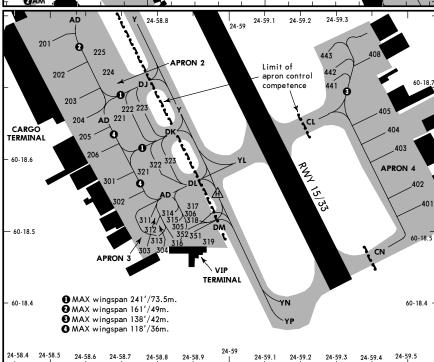
	11					
	17	9 ост 07 (10-9	A) Eff 25 Oc	t	VA	ANTA
	ΑI	DDITIONAL RUNW	Y INFORMATION	I LENGT	ıc	
			- LANDING	USABLE LENGTH G BEYOND ——	15	
RWY			Threshold	Glide Slope	TAKE-OFF	WIDTH
	CL (15m) HIALS-II TD		VR	9045' 2757m	0	197'
	CL (15m) HIALS PAPI	-L (3.0°) R	VR 9843′ 3000m	8806' 2684m		60m
S (red) also availa						
TAKE-OFF RUN A RWY 04L:			RWY 22R:			
From rwy head	10,039' (3060	Om)	From rwy head	10,039' 9662'	(3060m)	
twy ŴY int twy WS int	9682' (2951 6371' (1942	im) 2m)	twy WH int	6089'	(2945m) (1856m)	
twy WP int	5689' (1734	4m)	·		,	
HIRL (60m)	CL (15m) HIALS PAP	I-L (3.0°) R	VR 10,499' 3200m	9527' 2904m		197'
	CL (15m) HIALS-II TE			10,314' <i>3144m</i>	0	60m
S (red) also availa	ble		•			
TAKE-OFF RUN A	VAILABLE		DWW OOL			
RWY 04R: From rwy head	11,286' (3440	Om)	RWY 22L: From rwy head	11,286'	(3440m)	
twy ZS int	10,771' (3283 10,499' (3200	Sm)	twy ZB int	10,994' 9505'	3351m)	
twy ZR int twy ZL int	8432' (2570	Om)	twý ZC int DEP point T	92551	2821m)	
twy ZJ int	6591' (2009	9m)	twy Y int	8196′	(2498m)	
twy ZH int twy ZG int	5604' (1708 5374' (1638	Bm)	twy ZD int	7808° 5991′	(2380m) (1826m)	
	,				,	
	CL (15m) HIALS TDZ		VR VR	8523' 2598m	6	197' 60m
33 HIRL (60m) 5 (red) also availa	CL(15m) HIALS PAF	PI-L (3.5°) K	VR			00111
TAKE-OFF RUN A						
RWY 15:			<u>RWY 33:</u>			
From rwy hea			From rwy head twy YL/CL int	9518° 8281°	(2901m) (2524m)	
DEF point	V 6376 (1730	om)	twy YJ int twy YF int	6499'	(2524m) (1981m) (1652m)	
			twy YF int	5420	(1652m)	
	DUNIVA	AV INCLIBE	ON //HOT	TROTS!/		
		AY INCURSI				
(Fol	RUNW				ons.)	
HS1 Frequency	r information or	nly, not to be c	onstrued as A	TC instructi	,	
HS1 Frequency		nly, not to be c	onstrued as A	TC instructi	,	I
HS1 Frequency HS2 be receive	r information or y change before ed before proces	nly, not to be c crossing runwa eding over the r	onstrued as A y. An explicit unway.	TC instructi	arance shal	
HS1 Frequency HS2 be receive	r information or	nly, not to be c crossing runwa eding over the r	onstrued as A y. An explicit unway.	TC instructi	arance shal	
HS1 Frequency HS2 be receive	r information or y change before ed before proces	nly, not to be c crossing runwa eding over the r	onstrued as A y. An explicit unway.	TC instructi	arance shal	
HS1 Frequency HS2 be receive	r information or y change before ed before proces	nly, not to be c crossing runwa eding over the r	onstrued as A y. An explicit unway.	TC instructi	arance shal	
HS1 Frequency HS2 be receive	r information or y change before ed before proces	nly, not to be c crossing runwa eding over the r	onstrued as A y. An explicit unway.	TC instructi	arance shal	
HS1 Frequency HS2 be receive	r information or y change before ed before proces	nly, not to be c crossing runwa eding over the r	onstrued as A y. An explicit unway.	TC instructi	arance shal	
HS1 Frequency HS2 be receive	r information or y change before ed before proces	nly, not to be c crossing runwa eding over the r	onstrued as A y. An explicit unway.	TC instructi	arance shal	
HSI Frequency HS2 be receiv HS3 Wide apro	r information or y change before ed before proces	nly, not to be c crossing runwa eding over the r	onstrued as A y. An explicit unway.	TC instructi	arance shal	
HSI Frequency HS2 be receiv HS3 Wide apro	r information or y change before ed before proces	nly, not to be c crossing runwa eding over the r	onstrued as A y. An explicit unway. efore runway	TC instructi	arance shal	
HSI Frequency HS2 be receiv HS3 Wide apro	r information or y change before ed before proces on. Make sure of	nly, not to be corossing runwa eding over the r f correct turn b	onstrued as A y. An explicit unway. efore runway	TC instructi	arance shal	
HSI Frequency HS2 be receiv HS3 Wide apro	r information or y change before ed before proces	nly, not to be corossing runwa eding over the r f correct turn b	onstrued as A y. An explicit unway. efore runway	TC instructi	arance shal	
HSI Frequency HS2 be receiv HS3 Wide apri	r information or y change before ed before proces on. Make sure of	nly, not to be corossing runwa eding over the r f correct turn b	onstrued as A y. An explicit unway. efore runway	TC instructi crossing cle when taxiing	arance shal	
HSI Frequency HS2 be receiv HS3 Wide apri R-OPS Approved Operators HIRL CL	r information or y change before ed before proces on. Make sure of	nly, not to be c crossing runwa eding over the r f correct turn b TAKE- Page in Force	onstrued as A y. An explicit unway. efore runway DFF Rwys RCLM (DAY only)	TC instructi crossing cle when taxiing	arance shal	R.
HS3 Frequency be receiv HS3 Wide apro	r information or y change before ed before proces on. Make sure of	nly, not to be corossing runwa eding over the r f correct turn b	onstrued as A y. An explicit unway. efore runway DFF Rwys	TC instructi crossing cle when taxiing	arance shal	R.
HS1 Frequency HS2 be receiv HS3 Wide apro AR-OPS Approved Operators HIRL, CL & mult. RVR req	r information or y change before ed before procee on. Make sure of LVP must b	TAKE- Take in Force	onstrued as A y. An explicit unway. efore runway DFF Rwys RCLM (DAY only) or RL	TC instructi crossing cle when taxiing RCLM (DAY on or RL	arance shal	IL only)
HSI Frequency HS2 be receiv HS3 Wide apro	r information or y change before ed before proces on. Make sure of	nly, not to be c crossing runwa eding over the r f correct turn b TAKE- Page in Force	onstrued as A y. An explicit unway. efore runway DFF Rwys RCLM (DAY only)	TC instructi crossing cle when taxiing	arance shal	IL only)

■ Operators applying U.S. Ops Specs: CL required below 300m; approved guidance system required below 150m.

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EFHK/HEL HELSINKI, FINLAND **JEPPESEN** 19 OCT 07 (10-9B) Eff 25 Oct **VANTAA**





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24-58.8 24-58.9

CHANGES: Notes transferred to 10-1P pages. Stands. Twys.

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EFHK/HEL

I JEPPESEN 19 OCT 07 (10-9C) Eff 25 Oct HELSINKI, FINLAND VANTAA

INS COORDINATES									
STAND No.	COORDINATES	ELEV	STAND No.	COORDINATES	ELEV				
5 thru 8	N60 18.8 E024 58.5	148	221 thru 223	N60 18.7 E024 58.7	148				
9	N60 18.9 E024 58.5	149	224, 225	N60 18.7 E024 58.7	147				
10	N60 18.9 E024 58.4	149	301	N60 18.6 E024 58.7	148				
11, 12	N60 18.9 E024 58.4	151	302	N60 18.5 E024 58.7	149				
13	N60 19.0 E024 58.4	151	303, 304	N60 18.5 E024 58.8	152				
14	N60 19.0 E024 58.3	151	305	N60 18.5 E024 58.9	151				
15	N60 19.0 E024 58.3	152	306	N60 18.5 E024 58.9	150				
16	N60 19.0 E024 58.3	154	311 thru 313	N60 18.5 E024 58.8	152				
17	N60 19.0 E024 58.3	155	314	N60 18.5 E024 58.8	151				
18	N60 19.1 E024 58.2	156	315	N60 18.5 E024 58.8	151				
19 thru 21	N60 19.1 E024 58.2	157	316	N60 18.5 E024 58.9	151				
22 thru 24	N60 19.2 E024 58.1	158	317	N60 18.5 E024 58.9	149				
25, 26	N60 19.2 E024 58.0	158	318	N60 18.5 E024 58.9	150				
27	N60 19.1 E024 58.0	158	319	N60 18.5 E024 58.9	151				
28, 29	N60 19.1 E024 57.9	158	321	N60 18.6 E024 58.8	151				
30, 31	N60 19.1 E024 57.8	158	322	N60 18.6 E024 58.8	150				
32	N60 19.0 E024 57.7	159	323	N60 18.6 E024 58.8	149				
33	N60 19.0 E024 57.7	161	351	N60 18.5 E024 58.9	151				
121	N60 19.3 E024 58.0	156	352	N60 18.5 E024 58.9	150				
122, 123	N60 19.2 E024 58.0	156	401	N60 18.5 E024 59.6	144				
124	N60 19.2 E024 57.9	156	402	N60 18.6 E024 59.6	144				
125	N60 19.2 E024 57.9	155	403, 404	N60 18.6 E024 59.5	144				
126	N60 19.2 E024 57.8	155	405	N60 18.7 E024 59.5	144				
127	N60 19.1 E024 57.8	156	408	N60 18.8 E024 59.4	145				
131	N60 19.1 E024 57.6	161	441	N60 18.7 E024 59.3	142				
132	N60 19.1 E024 57.5	160	442, 443	N60 18.7 E024 59.3	142				
133	N60 19.1 E024 57.5	159	801	N60 18.5 E024 56.4	150				
134	N60 19.0 E024 57.4	160	802, 803	N60 18.5 E024 56.5	150				
144, 145	N60 19.0 E024 57.6	160	901	N60 18.8 E024 57.2	158				
146	N60 18.9 E024 57.6	159	902, 903	N60 18.8 E024 57.1	158				
147	N60 18.9 E024 57.6	157	904, 905A	N60 18.7 E024 57.1	157				
148	N60 18.9 E024 57.7	156	905B, 905C	N60 18.7 E024 57.0	156				
149	N60 18.9 E024 57.7	155	906	N60 18.7 E024 57.1	157				
149B	N60 18.9 E024 57.7	154	911	N60 18.9 E024 57.0	160				
150	N60 18.9 E024 57.7	155	912	N60 18.8 E024 57.0	158				
151 152 201 thru 203 204, 205 206	N60 18.8 E024 57.6 N60 18.7 E024 57.6 N60 18.7 E024 58.5 N60 18.6 E024 58.6 N60 18.6 E024 58.6	157 156 149 149 148	913 914	N60 18.8 E024 56.9 N60 18.8 E024 56.9	156 153				

CHANGES: Notes transferred to 10-1P pages. Stands.

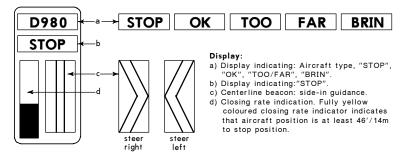
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EFHK/HEL

M JEPPESEN 19 OCT 07 (10-9D) Eff 25 Oct HELSINKI, FINLAND VANTAA

VISUAL NOSE-IN DOCKING GUIDANCE SYSTEM

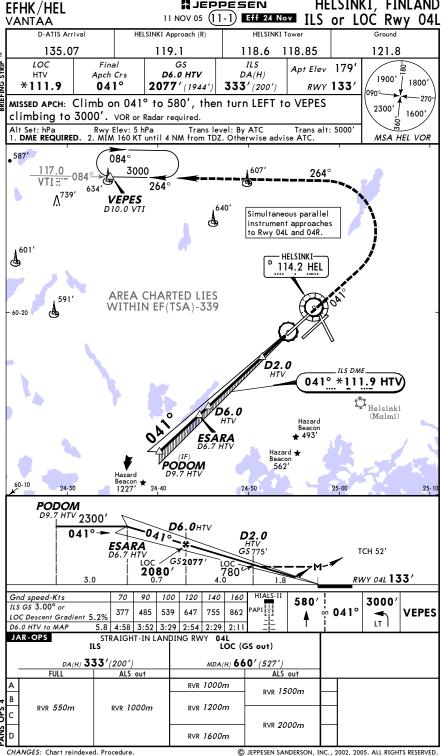


Instructions:

- 1. Follow taxi-in line and the centerline beacon guidance.
- 2. Check correct aircraft type is flashing. MAX approach speed is 11 km/h(3m/sec). If exceeded, display indicates "SLOW DOWN".
- 3. Fully yellow coloured closing rate indicator indicates that aircraft position is at least 46'/14m to stop position. When distance is 43'/13m to stop position the yellow coloured closing rate indication starts to shorten from the bottom.
- 4. When stop position is reached, display indicates "STOP". Correct parking is indicated as "OK".
- 5. If aircraft overshoots the limit for correct parking, display indicates "TOO/FAR".
- 6. "BRIN": Bridge not in parking position
- 7. Display automatically shuts down after parking.
- 8. In case of malfunction in the docking guidance system interrupt taxiing and contact HELSINKI Apron.

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HELSINKI, FINLAND



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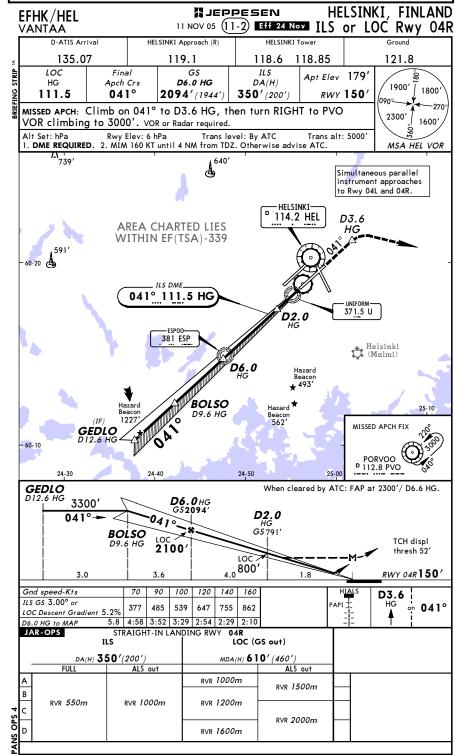
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NOTICE: PRINTED FROM AN EXPIRED REVISION. Disc 23-2007 HELSINKI, FINLAND JEPPESEN EFHK/HEL 11 NOV 05 (11-1A) Eff 24 Nov CAT II ILS Rwy 04L VANTAA HELSINKI Approach (R) HELSINKI Tower D-ATIS Arrival 135.07 119.1 118.6 118.85 121.8 CAT II ILS LOC Final GS Apt Elev 179 RA/DA(H) HTV Apch Crs D6.0 HTV 1900' Refer to 1800' 041° *111.9 2077' (1944' RWY 133 Minimums MISSED APCH: Climb on 041° to 580', then turn LEFT to VEPES 2300' climbing to 3000'. VOR or Radar required 1600' Alt Set: hPa Rwy Elev: 5 hPa Trans level: By ATC Trans 1. **DME REQUIRED.** 2. MIM 160 KT until 4 NM from TDZ. Otherwise advise ATC. 3. Special Aircrew & Aircraft Certification Required. MSA HEL VOR 587' 084° 117.0 3000 264° ∆^{739'} **VEPES** 640' Simultaneous parallel D10.0 VTI instrument approaches to Rwy 04L and 04R. 601 ₫ □ 114.2 HEL AREA CHARTED LIES WITHIN EF(TSA)-339 60-20 ILS DME. 041° *111.9 HTV Helsinki (Malmi) Hazard ± 493′ **ESÄRA** Hazard 🛊 Beacon 562 1227' 24-50 25-00 25-1 **PODOM** D9.7 HTV 2300' **D6.0**HTV 0410 041° EŞARA TCH 52' GS 2077 RWY 04L 133' 3.0 0.7 70 90 100 120 140 160 HIALS-II Gnd speed-Kts 580 3000 377 485 539 647 755 862 3.00° **VEPES** 041° LT JAR-OPS STRAIGHT-IN LANDING RWY 04L CAT II ILS ABC RA 105' RA 108 DA(H) 233'(100' DA(H) 236'(103') RVR 300m 1 Operators applying U.S. Ops Specs: Autoland or HGS required below RVR 350m.

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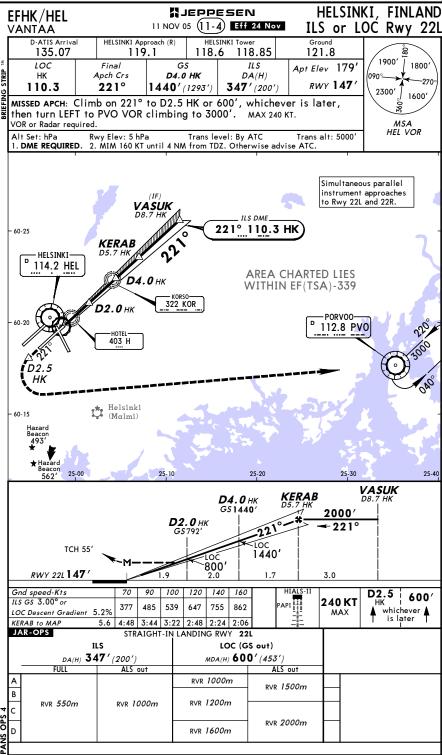
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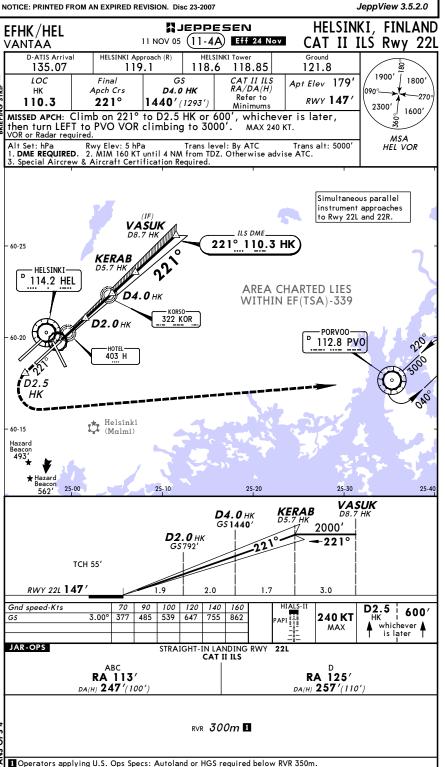
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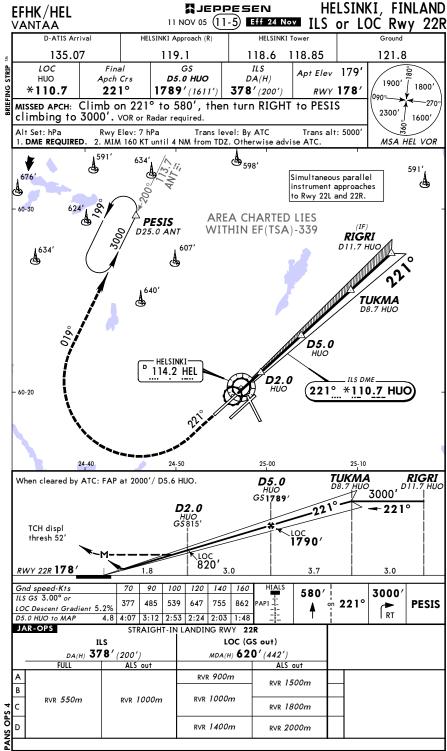
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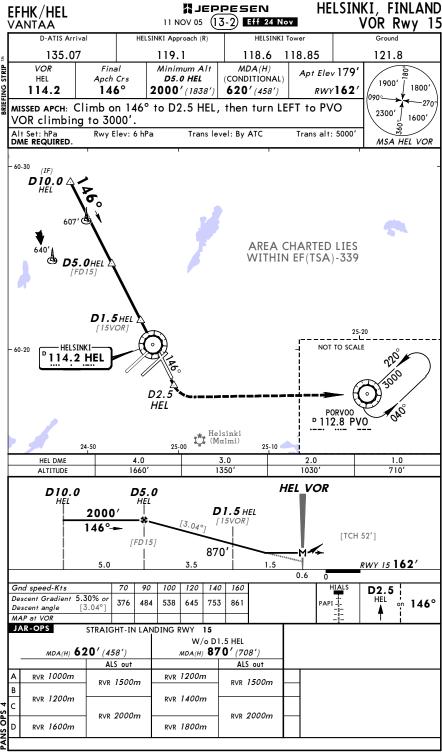
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HELSINKI, FINLAND MJEPPESEN EFHK/HEL 11 NOV 05 (13-1) Eff 24 Nov VOR Rwy 04L VANTAA HELSINKI Approach (R) HELSINKI Tower D-ATIS Arrival Ground 118.6 118.85 121.8 135.07 119.1 VOR Final Minimum Alt MDA(H) Apt Elev 179 HEL Apch Crs D8.0 HEL (CONDITIONAL) 1900' | 1800' 040° 550'(417') 114.2 2060' (1927') RWY133 **←** 270° MISSED APCH: Climb on 040° to D2.0 HEL, then turn LEFT to VEPES 2300' 1600' climbing to 3000' Alt Set: hPa Rwy Elev: 5 hPa Trans level: By ATC
1. DME REQUIRED. 2. Final approach track offset 1° from rwy centerline. Alt Set: hPa Trans alt: 5000' MSA HEL VOR 587' 084° 3000 264° VTI ::: ^^{739′} **VEPES** 640 D10.0 VTI 60-25 601 HELSINKI-ຝ 114.2 HEL D2.0 HEL AREA CHARTED LIES WITHIN EF(TSA)-339 60-20 **D4.0** HEL Helsinki 60-15 **D8.0** HEL Hazard Beacon ★ 493' [FDØ4L] Beacon 562' D13.0 HEL A [CDØ4L 24-30 24-40 24-50 25-00 25-10 HEL DME 7.0 6.0 5.0 4.0 ALTITUDE 1740' 1430' 1110' 790 HEL VOR D13.0 2300 D8.0 **D4.0** HEL D2.1 2060 [40VOR] [CDØ4L] [TCH 52'] [FDØ4L] 660 RWY 04L 133' 5.0 4.0 1.9 Gnd speed-Kts 70 90 100 120 140 160 D2.0 Descent Gradient 5.24% or 372 478 531 637 743 849 on 040° Descent angle [3.00°] MAP at D2.1 HEL JAR-OPS STRAIGHT-IN LANDING RWY 04L W/o D4.0 HEL MDA(H) 550' (417') MDA(H) 660' (527') ALS out ALS out RVR 900m RVR 1000m RVR 1500m RVR 1500m RVR 1000m RVR 1200m RVR 1800m RVR 2000m RVR 1400m RVR 2000m RVR 1600m

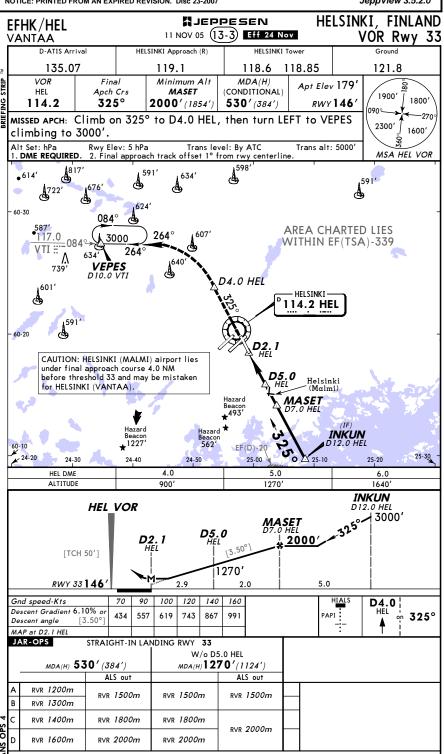
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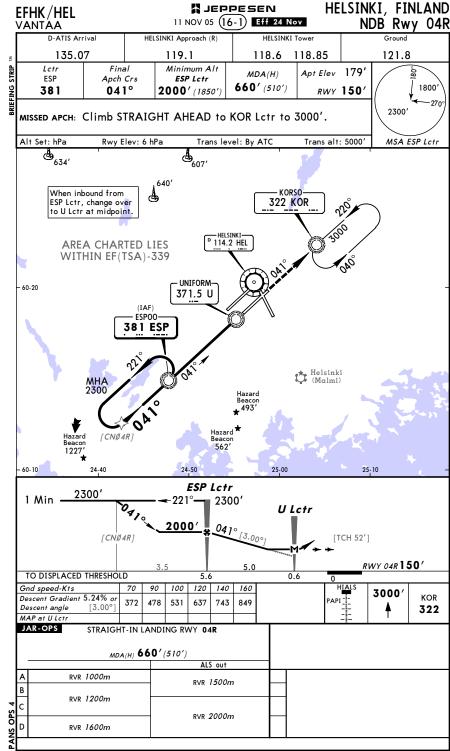


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JEPPESEN Licensed to Elefant air. Printed on 27 Feb 2008. JeppView 3.5.2.0 NOTICE: PRINTED FROM AN EXPIRED REVISION. Disc 23-2007 HELSINKI, FINLAND #JEPPESEN EFHK/HEL 11 NOV 05 (16-2) Eff 24 Nov NDB Rwy 22L VANTAA D-ATIS Arrival HELSINKI Approach (R) HELSINKI Tower Ground 118.6 118.85 135.07 119.1 121.8 Minimum Alt Lctr Final Apt Elev 179' MDA(H) KOR Apch Crs D6.0 [′]1900′ **620**′ (473′) 1800' 322 220° 2000' (1853' RWY 147 MISSED APCH: Climb STRAIGHT AHEAD to ESP Lctr to 3000'. 2300' 1600' Rwy Elev: 5 hPa Trans level: By ATC Trans alt: 5000 MSA KOR Letr DME REQUIRED. **4**634' **4**607' 640 (IAF) When inbound from - KORSO-KOR Lctr, change over 322 KOR **D6.0** [FQ22L] to H Lctr at midpoint. MHA 2000 HELSINKI-D 114.2 HEL - 60-20 - HOTEL-403 H AREA CHARTED LIES WITHIN EF(TSA)-339 Helsinki (Malmi) Hazard Beacon +493' — ESPOO— 381 ESP Hazard Beacon 1227' Hazard Beacon 562' 24-40 24-50 25-00 KOR Lctr 2000′ 1½ Min H Lctr [TCH 55'] D6.0 1360' [FQ22L] RWY 22L 147' 0.6 Gnd speed-Kts 70 90 100 120 140 160 3000 ESP Descent Gradient 5.24% or 372 637 743 849 478 531 Descent angle [3.00°] 381 5.7 4:53 3:48 3:25 2:51 2:27 2:08 D6.0 to MAP JAR-OPS STRAIGHT-IN LANDING RWY 22L MDA(H) 620' (473') RVR 1000m RVR 1500m RVR 1200m RVR 2000m RVR 1600m CHANGES: Procedure.

