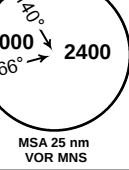


STANDARD ARRIVAL CHART
INSTRUMENT (STAR) - ICAOTRANSITION LEVEL: by ATC
TRANSITION ALTITUDE: 6000Alt set: - hPa (mm on req)
- QNH (QFE on req)

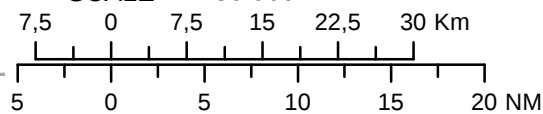
MINSK APP	125.900
MINSK RADAR	125.250
MINSK TOWER RWY 13R/31L	118.300
MINSK TOWER RWY 13L/31R	130.400
MINSK-2 ATIS	128.850 EN 135.850 RUS

MINSK-2
RNAV RWY 13LDAKWI2E, KIZIR2E,
KOLOS2E, LENOK2E,
PENAL2E, RAFMA2E,
RUHAL2E, TIWOK2EDIST IN NM
BEARINGS ARE MAGNETIC
ALTITUDES AND ELEV IN FT
VAR 9° E 2025UMR258, UMR 269 & UMR291 ARE NOT
APPLICABLE FOR AIRCRAFT'S PERFORM TAKE
OFF AND LANDING AT AERODROME MINSK-2MSA 25 nm
VOR MNS

- RNAV 1 approval required. Otherwise advise ATC.
- ALT / FL / SPEED restrictions must always be followed as published unless explicitly cancelled by ATC. If unable to comply restrictions report at first contact with MINSK APP.
- Descent planning: expect base turn normally abeam 10-15 NM final. Actual descent clearance will be as directed by ATC.
- Expect direct routing/shortcuts by ATC whenever possible (especially during off-peak hours).
- Holdings at GIFLI, DUZIK used for RWY configuration change and during unexpected events.
- RADIO COMMUNICATION FAILURE PROCEDURE
- If available call +375172157600 and listen to navigation aids voice frequencies.
- RNAV 1 approved aircraft:**
- If STAR was assigned and acknowledged by flight crew:**
- continue with assigned STAR;
set transponder to 7600 and in 2 minutes start descending in accordance with vertical restrictions specified on chart;
execute approach and land.
- If STAR was assigned, acknowledged by flight crew and vectoring was initiated:**
- continue on assigned heading, adhering to last assigned and acknowledged altitude;
set transponder to 7600, in 2 minutes start descending and proceed to initial approach fix (IAF) in accordance with vertical restrictions;
execute approach and land.
- If STAR was not assigned:**
- continue according to FPL;
set transponder to 7600 and in 2 minutes start descending in accordance with vertical restrictions specified on chart;
execute approach and land.
- RNAV 1 not approved aircraft:**
- maintain last assigned and acknowledged altitude/flight level;
set transponder to 7600;
proceed to MNS VOR/DME;
hold over MNS VOR/DME descending to altitude 4000 (all turns RIGHT, 1 min, inbound course 310°);
then proceed to TP (R 332.7° D12.2 MNS VOR/DME) descending to 3000;
execute turn final intercept IMDL LOC, approach and land.
If landing is not possible, climb on track 130° to 3000, turn LEFT to MNS VOR/DME and follow crew decision.
- IAS 200 KT on base leg/closing heading to final approach up to 12 NM to touchdown.
IAS 180 KT on final approach course within 12 NM to 6 NM to touchdown.
IAS 160 KT on final approach course within 6NM to 4NM to touchdown.
These speeds are applied for ATC separation purposes and are mandatory.
All speed restrictions are to be flown as accurately as possible.
Aircraft unable to confirm to these speeds should inform ATC and state what speeds to be used.

CHANGE: data of correction MAG VAR.

SCALE 1:750 000



TABULAR DESCRIPTION

DAKWI2E										
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation	Distance NM	Turn Direction	Altitude FT	Speed KT	Navigation Specification
001	IF	DAKWI	-	-	9	-	-	-	-	RNAV1
002	TF	MS225	-	358(007.0)	9	27.6	-	+FL160	-	RNAV1
003	TF	MS224	-	312(320.9)	9	24.3	-	+FL110	-	RNAV1
004	TF	MS223	-	310(318.7)	9	15.4	-	+5000	-220	RNAV1
005	TF	BIZIF	-	310(319.1)	9	5.5	-	@4000	-220	RNAV1
006	TF	MS222	-	310(319.1)	9	4.0	-	-	-220	RNAV1
007	TF	MS221	-	310(319.0)	9	4.0	-	-	-220	RNAV1
008	TF	MS220	-	310(318.9)	9	4.5	-	-	-220	RNAV1
009	TF	MS203	-	220(228.7)	9	7.5	-	+3000	-200	RNAV1
010	TF	MS202	-	130(139.0)	9	4.5	-	-	-200	RNAV1
011	TF	MS201	-	130(139.0)	9	4.0	-	-	-200	RNAV1
012	TF	NIWAZ	-	123(132.2)	9	4.3	-	@3000	-200	RNAV1
KIZIR2E										
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation	Distance NM	Turn Direction	Altitude FT	Speed KT	Navigation Specification
001	IF	KIZIR	-	-	9	-	-	-	-	RNAV1
002	TF	MS208	-	047(055.8)	9	8.4	-	-FL160	-	RNAV1
003	TF	MS207	-	047(056.0)	9	14.1	-	-	-	RNAV1
004	TF	MS206	-	047(056.2)	9	7.0	-	+6000	-220	RNAV1
005	TF	BIHOL	-	040(049.0)	9	6.0	-	@5000	-220	RNAV1
006	TF	MS205	-	310(319.0)	9	4.5	-	+4000	-220	RNAV1
007	TF	MS204	-	310(319.0)	9	4	-	-	-220	RNAV1
008	TF	KAZAL	-	040(049.2)	9	7.5	-	+3000	-200	RNAV1
009	TF	MS203	-	130(139.1)	9	4.0	-	-	-200	RNAV1
010	TF	MS202	-	130(139.0)	9	4.5	-	-	-200	RNAV1
011	TF	MS201	-	130(139.0)	9	4.0	-	-	-200	RNAV1
012	TF	NIWAZ	-	123(132.2)	9	4.3	-	@3000	-200	RNAV1
KOLOS2E										
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation	Distance NM	Turn Direction	Altitude FT	Speed KT	Navigation Specification
001	IF	KOLOS	-	-	9	-	-	-	-	RNAV1
002	TF	MS209	-	007(016.1)	9	18.6	-	-FL140	-	RNAV1
003	TF	MS207	-	007(016.1)	9	11.7	-	-	-	RNAV1
004	TF	MS206	-	047(056.2)	9	7.0	-	+6000	-220	RNAV1
005	TF	BIHOL	-	040(049.0)	9	6.0	-	@5000	-220	RNAV1
006	TF	MS205	-	310(319.0)	9	4.5	-	+4000	-220	RNAV1
007	TF	MS204	-	310(319.0)	9	4.0	-	-	-220	RNAV1
008	TF	KAZAL	-	040(049.2)	9	7.5	-	+3000	-200	RNAV1
009	TF	MS203	-	130(139.1)	9	4.0	-	-	-200	RNAV1
010	TF	MS202	-	130(139.0)	9	4.5	-	-	-200	RNAV1
011	TF	MS201	-	130(139.0)	9	4.0	-	-	-200	RNAV1
012	TF	NIWAZ	-	123(132.2)	9	4.3	-	@3000	-200	RNAV1
LENOK2E										
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation	Distance NM	Turn Direction	Altitude FT	Speed KT	Navigation Specification
001	IF	LENOK	-	-	9	-	-	-	-	RNAV1
002	TF	KAZAL	-	166(174.9)	9	17.5	-	+3000	-200	RNAV1
003	TF	MS203	-	130(139.1)	9	4	-	-	-200	RNAV1
004	TF	MS202	-	130(139.0)	9	4.5	-	-	-200	RNAV1
005	TF	MS201	-	130(139.0)	9	4	-	-	-200	RNAV1
006	TF	NIWAZ	-	123(132.2)	9	4.3	-	@3000	-200	RNAV1

STANDARD ARRIVAL CHART
INSTRUMENT (STAR) – ICAOMINSK-2
RNAV RWY 13L

PPENAL2E										
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation	Distance NM	Turn Direction	Altitude FT	Speed KT	Navigation Specification
001	IF	PENAL	-	-	9	-	-	-FL160	-	RNAV1
002	TF	MS226	-	208(217.3)	9	26.0	-	-	-	RNAV1
003	TF	BIZIF	-	230(239.1)	9	5.0	-	@4000	-220	RNAV1
004	TF	MS222	-	310(319.1)	9	4.0	-	-	-220	RNAV1
005	TF	MS221	-	310(319.0)	9	4.0	-	-	-220	RNAV1
006	TF	MS220	-	310(318.9)	9	4.5	-	-	-220	RNAV1
007	TF	MS203	-	220(228.7)	9	7.5	-	+3000	-200	RNAV1
008	TF	MS202	-	130(139.0)	9	4.5	-	-	-200	RNAV1
009	TF	MS201	-	130(139.0)	9	4.0	-	-	-200	RNAV1
010	TF	NIWAZ	-	123(132.2)	9	4.3	-	@3000	-200	RNAV1
RAFMA2E										
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation	Distance NM	Turn Direction	Altitude FT	Speed KT	Navigation Specification
001	IF	RAFMA	-	-	9	-	-	-	-	RNAV1
002	TF	POMZO	-	287(295.7)	9	18.5	-	-FL120	-	RNAV1
003	TF	MS223	-	255(264.0)	9	28.6	-	+5000	-220	RNAV1
004	TF	BIZIF	-	310(319.1)	9	5.5	-	@4000	-220	RNAV1
005	TF	MS222	-	310(319.1)	9	4.0	-	-	-220	RNAV1
006	TF	MS221	-	310(319.0)	9	4.0	-	-	-220	RNAV1
007	TF	MS220	-	310(318.9)	9	4.5	-	-	-220	RNAV1
008	TF	MS203	-	220(228.7)	9	7.5	-	+3000	-200	RNAV1
009	TF	MS202	-	130(139.0)	9	4.5	-	-	-200	RNAV1
010	TF	MS201	-	130(139.0)	9	4.0	-	-	-200	RNAV1
011	TF	NIWAZ	-	123(132.2)	9	4.3	-	@3000	-200	RNAV1
RUHAL2E										
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation	Distance NM	Turn Direction	Altitude FT	Speed KT	Navigation Specification
001	IF	RUHAL	-	-	9	-	-	-	-	RNAV1
002	TF	POMZO	-	255(264.0)	9	11.8	-	-FL120	-	RNAV1
003	TF	MS223	-	255(264.0)	9	28.6	-	+5000	-220	RNAV1
004	TF	BIZIF	-	310(319.1)	9	5.5	-	@4000	-220	RNAV1
005	TF	MS222	-	310(319.1)	9	4.0	-	-	-220	RNAV1
006	TF	MS221	-	310(319.0)	9	4.0	-	-	-220	RNAV1
007	TF	MS220	-	310(318.9)	9	4.5	-	-	-220	RNAV1
008	TF	MS203	-	220(228.7)	9	7.5	-	+3000	-200	RNAV1
009	TF	MS202	-	130(139.0)	9	4.5	-	-	-200	RNAV1
010	TF	MS201	-	130(139.0)	9	4.0	-	-	-200	RNAV1
011	TF	NIWAZ	-	123(132.2)	9	4.3	-	@3000	-200	RNAV1
TIWOK2E										
Serial Number	Path Descriptor	Waypoint Identifier	Fly - over	Course °M(°T)	Magnetic Variation	Distance NM	Turn Direction	Altitude FT	Speed KT	Navigation Specification
001	IF	TIWOK	-	-	9	-	-	-	-	RNAV1
002	TF	MS206	-	104(113.4)	9	20.2	-	+6000	-220	RNAV1
003	TF	BIHOL	-	040(049.0)	9	6	-	@5000	-220	RNAV1
004	TF	MS205	-	310(319.0)	9	4.5	-	+4000	-220	RNAV1
005	TF	MS204	-	310(319.0)	9	4	-	-	-220	RNAV1
006	TF	KAZAL	-	040(049.2)	9	7.5	-	+3000	-200	RNAV1
007	TF	MS203	-	130(139.1)	9	4	-	-	-200	RNAV1
008	TF	MS202	-	130(139.0)	9	4.5	-	-	-200	RNAV1
009	TF	MS201	-	130(139.0)	9	4	-	-	-200	RNAV1
010	TF	NIWAZ	-	123(132.2)	9	4.3	-	@3000	-200	RNAV1

RNAV HOLDING INDIFICATION					
Path Descriptor	Holding Fix	Inbound MAG Track° (True Track°)	Altitude (ft) / Flight Level	Time / Distance outbound	Turn Direction
HM	BIZIF	310(319.1)	+4000	1MIN	R
HM	DAKWI	324(333.0)	+FL100	1MIN	L
HM	DUZIK	166(175.0)	+6000	1.5 MIN	R
HM	GIFLI	271(280.0)	+6000	1.5 MIN	R
HM	KAZAL	130(139.1)	+4000	1MIN	L
HM	KIZIR	071(080.0)	+FL100	1MIN	R
HM	KOLOS	047(056.0)	+FL100	1MIN	R
HM	LENOK	144(153.0)	+FL100	1MIN	R
HM	POMZO	255(264.0)	+6000	1MIN	L
HM	TIWOK	101(110.0)	+FL100	1MIN	L

WAYPOINT LIST		
Waypoint Identifier	Coordinates	
BIHOL	540419.1N	0272858.2E
BIZIF	540807.2N	0275712.1E
DAKWI	530607.0N	0284037.0E
DUZIK	541844.3N	0275718.9E
GIFLI	534705.9N	0285644.0E
KAZAL	541537.7N	0272910.4E
KIZIR	534352.4N	0264004.0E
KOLOS	532723.0N	0265723.0E
LENOK	543305.0N	0272629.0E
MS201	540614.0N	0274305.5E
MS202	540914.8N	0273837.7E
MS203	541236.9N	0273338.8E
MS204	541043.7N	0271930.0E
MS205	540742.7N	0272357.6E
MS206	540023.3N	0272118.5E
MS207	535629.8N	0271129.3E
MS208	534836.2N	0265145.9E
MS209	534513.8N	0270559.4E
MS220	541732.7N	0274314.4E
MS221	541409.3N	0274816.7E
MS222	541108.3N	0275244.7E
MS223	540357.8N	0280318.7E
MS224	535222.7N	0282030.3E
MS225	533329.5N	0284612.0E
MS226	541041.5N	0280431.5E
MS710	535757.7N	0281207.8E
NIWAZ	540322.9N	0274826.5E
PENAL	543105.0N	0283117.0E
POMZO	540646.0N	0285142.0E
RAFMA	535841.0N	0291959.0E
RUHAL	540758.0N	0291142.0E
TIWOK	540820.0N	0264945.0E