

LANDSCAPING

The NOX Tiltrotator provides a third dimension, resulting in a reduced need to reposition your carrier machine. Ground damages and subsequent recultivation works are minimized. When laying out a garden or protecting slopes from erosion, the functionality of the NOX strongly shortens the construction time.



GENERAL CONSTRUCTION

Excavation or filling works can be realized precisely thanks to the NOX Tiltrotator with its tilt and turn function. The work can be done within the reach of the excavator arm without repositioning the carrier machine in a faster and more profitable way. The working safety on site is also increased when handling construction material.



RAIL CONSTRUCTION

Thanks to the NOX Tiltrotator, a lot of works that are difficult or impossible in rail construction due to the limited lateral mobility of the carrier machine can be realized. Works under already existing rails or at slopes as well as the exact positioning of sleepers are possible without repositioning the excavator thanks to the tilt and turn function.



ROAD CONSTRUCTION

When constructing roads, time is a crucial factor, but also precision and safety when e.g. levelling grounds, working at embankments or excavating soil. Thanks to the tilt and turn function of the NOX Tiltrotator, all works can be managed safely from the driver's cabin and less manpower is required in the danger area.



CABLE DUCT WORKS

The NOX Tiltrotator enables precise working under, in between or close to already existing cables. By tilting and turning the attachment in the required position, you can reduce manual cable duct works.

When maintaining existing cable ducts or installing new ones, works can be realized much more effectively and after all more safely.



MATERIAL HANDLING

Precise handling of e.g. palletized curbstones is no problem with the NOX Tiltrotator. The high and constant holding torque allows for a safe holding of loads. When operating in narrow areas, loads can be held e.g. around scaffolding or lifted over a fence.



SEWAGE WORKS

Working in sewer systems is characterized by little space and narrow areas. With a NOX Tiltrotator you can easily dig around gully wells or excavate from the required angle without repositioning the excavator. The endless rotation and the tilt angle to both sides allows for the exact positioning of the attachment.

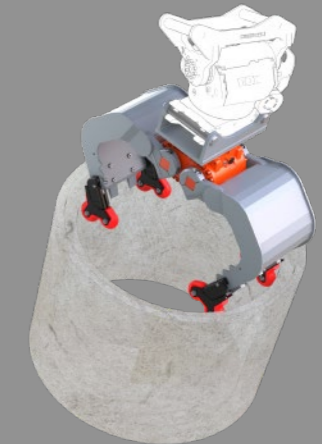


DEMOLITION

The immediate separation of debris at the demolition site saves a lot of time and recycling costs. Some building materials have to be disposed separately and with the NOX Tiltrotator you can separate those precisely from the other materials. After loading the material, the construction site can be cleared with e.g. a brush mounted to the NOX.



NOX Large variety of KINSHOFER attachments

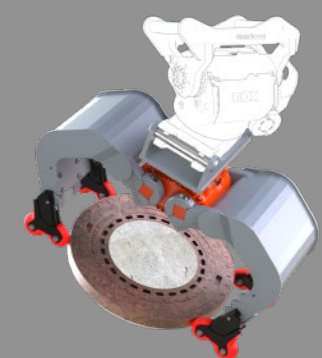


4-Grip

Easy mounting - easy handling of your tasks: that is our new 4-Grip for our demolition and sorting grabs of the D-series up to 9t operating weight as well as our multi purpose grabs of the A-series up to 9t. The device is easily bolt onto the shells and you can grab concrete units, curbstones etc. smoothly.

Thanks to its special kinematics you can grab items not only when closing the shells but also when opening. Shaft rings can be loaded and unloaded fast and easy without damaging them!

- ▷ **Economic solution**, as it is only an accessory that increases the flexibility of your attachment
- ▷ **Robust design**
- ▷ **Plastic compression rolls** avoid damage of the material to be gripped
- ▷ **Fast and easy mounting and removal** on site
- ▷ **Low additional weight:** only 28 kg in total
- ▷ **High load capacity of 750 kg**



Tiltrotator TR045NOX

Type	Breakout force max. (ISO) (kN)	Tilt angle (°)	Tilt torque (kNm)	Rotation torque (kNm)	Weight (from kg)	Operating weight (t)
TR045NOX	40	2 x 45°	6,5 constant	3,8	150	2 - 4,5



Gripper module

Type	Opening (mm)	Closing force (kN)	Load capacity (kg)	Weight (kg)
F07H-OQ30	424	7,5	300	66

Package consists of: gripper module, adapter system OilQuick

Other adapter systems on request.

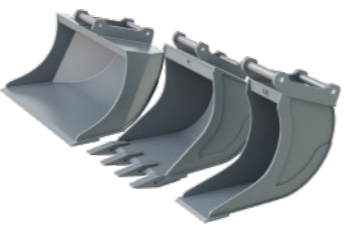


Profil buckets

Type	Bucket types	Width (mm)	Volume (liter)	Weight (kg)
SKP4-130	grading bucket	1100	130	90
SKK4-60	cable bucket	300	60	50
SKD4-120	digging bucket	620	120	80

Package consists of: grading bucket / cable bucket / digging bucket incl. teeth, adapter system S-Lock

Other bucket types, widths or volumes on request.



Fork tines

Type	Tine adjustment	Load capacity max. (mm)	Width (mm)	Weight (kg)	Operating weight (t)
GAF6	mechanical	1900	1000	140	3 - 6
GAH6	hydraulically	1900	1000	160	3 - 6

Package consists of: fork tines, frame with adapter for system S-Lock



Demolition and sorting grabs with HPXdrive or hydraulic cylinder

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Operating weight (t)	Load capacity form locking (kg)	Closing force (kN)
D05TR-40 HPX	420	1045	75	240	3 - 6	1500	18
D05TR-40	420	1212	60	160	3 - 6	1500	21,5

Package consists of: demolition and sorting grab (hydraulic block incl. hosing for HPX)

Available as an option: 4-Grip

Multi purpose grabs with HPXdrive or hydraulic cylinder

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Operating weight (t)	Load capacity form locking (kg)	Closing force (kN)
A05TR-40 HPX	386	1043	70	225	3 - 6	1500	18
A05TR-40	386	1233	70	165	3 - 6	1500	21

Package consists of: multi purpose grab (hydraulic block incl. hosing for HPX)

Available as an option: 4-Grip

4-Grip

Type	For grab types	Load capacity (kg)	Weight (kg)	Operating weight (t)
KM 685-05-D04-A04	D05TR / A05TR	750	24	<6

Tiltrotator TR07NOX

Type	Breakout force max. (ISO) (kN)	Tilt angle (°)	Tilt torque (kNm)	Rotation torque (kNm)	Weight (from kg)	Operating weight (t)
TR07NOX	50	2 x 50°	11 constant	4,7	200	4 - 7



Gripper module

Type	Opening (mm)	Closing force (kN)	Load capacity (kg)	Weight (kg)
F07H-OQ40-5	424	7,5	300	77

Package consists of: gripper module, adapter system OilQuick

Other adapter systems on request.

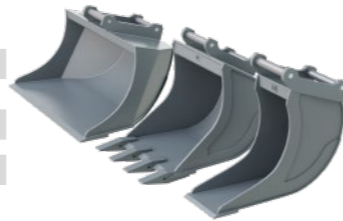


Profil buckets

Type	Bucket types	Width (mm)	Volume (liter)	Weight (kg)
SKP4-160	grading bucket	1100	160	110
SKK6-160	cable bucket	300	160	75
SKD4-160	digging bucket	620	160	100

Package consists of: grading bucket / cable bucket / digging bucket incl. teeth, adapter system S-Lock

Other bucket types, widths or volumes on request.



Levelling bars with roller

Type	Width (mm)	Weight (kg)	Operating weight (t)
AVB 8-1800	1800	200	<8
AVB 8-2100	2100	300	<8
AVB 8-2200	2200	420	<8

Package consists of: levelling bar with roller, adapter system S-Lock



Fork tines

Type	Tine adjustment	Load capacity max. (mm)	Width (mm)	Weight (kg)	Operating weight (t)
GAF6	mechanical	1900	1000	140	3 - 6
GAH6	hydraulically	1900	1000	160	3 - 6
GAF8	mechanical	1900	1200	190	6 - 8
GAH8	hydraulically	1900	1200	210	6 - 8

Package consists of: fork tines, frame with adapter for system S-Lock



Note: other attachments and adapters on request

Demolition and sorting grabs with HPXdrive or hydraulic cylinder

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Operating weight (t)	Load capacity form locking (kg)	Closing force (kN)
D07TR-45 HPX	470	1350	150	310	5 - 8	2000	18
D07TR-45	470	1345	90	180	5 - 8	2000	21

Package consists of: demolition and sorting grab (hydraulic block incl. hosing for HPX)

Available as an option: 4-Grip

Multi purpose grabs with HPXdrive or hydraulic cylinder

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Operating weight (t)	Load capacity form locking (kg)	Closing force (kN)
A07TR-45 HPX	450	1344	145	305	5 - 8	2000	18
A07TR-45	450	1340	100	225	5 - 8	2000	21

Package consists of: multi purpose grab (hydraulic block incl. hosing for HPX)

Available as an option: 4-Grip

Clamshell buckets with HPXdrive

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Operating weight (t)	Load capacity (kg)	Closing force (kN)
C07TR-40 HPX	400	1110	115	295	3 - 7	3000	22
C07TR-50 HPX	500	1110	140	310	3 - 7	3000	22
C07TR-60 HPX	600	1110	170	325	3 - 7	3000	22

Package consists of: clamshell bucket, (hydraulic block incl. hosing for HPX)

4-Grip

Type	For grab types	Load capacity (kg)	Weight (kg)	Operating weight (t)
KM 685-05-D06/09-A06/09	D07TR, D11TR, A07TR and A11TR	750	24	<11

Note: other attachments and adapters on request

Tiltrotator TR11NOX

Type	Breakout force max. (ISO) (kN)	Tilt angle (°)	Tilt torque (kNm)	Rotation torque (kNm)	Weight (from kg)	Operating weight (t)
TR11NOX	75	2 x 50°	16 constant	7,5	320	6 - 11



Gripper module

Type	Opening (mm)	Closing force (kN)	Load capacity (kg)	Weight (kg)
F11H-OQ45	644	10	500	131

Package consists of: gripper module, adapter system OilQuick

Other adapter systems on request.

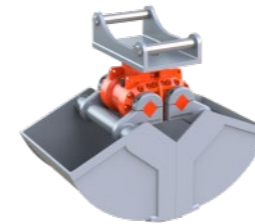


Profil buckets

Type	Bucket types	Width (mm)	Volume (liter)	Weight (kg)
SKP6-300	grading bucket	1300	300	200
SKK10-160	cable bucket	300	160	75
SKD10-350	digging bucket	800	350	190

Package consists of: grading bucket / cable bucket / digging bucket incl. teeth, adapter system S-Lock

Other bucket types, widths or volumes on request.



Levelling bars with roller

Type	Width (mm)	Weight (kg)	Operating weight (t)
AVB 8-1800	1800	200	<8
AVB 8-2100	2100	300	<8
AVB 8-2200	2200	420	<8

Package consists of: levelling bar with roller, adapter system S-Lock



Fork tines

Type	Tine adjustment	Load capacity max. (mm)	Width (mm)	Weight (kg)	Operating weight (t)
GAF8	mechanical	1900	1200	190	6 - 8
GAH8	hydraulically	1900	1200	210	6 - 8
GAF12	mechanical	2500	1200	200	9 - 12
GAH12	hydraulically	2500	1200	220	9 - 12

Package consists of: fork tines, frame with adapter for system S-Lock



Demolition and sorting grabs with HPXdrive or hydraulic cylinder

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Operating weight (t)	Load capacity form locking (kg)	Closing force (kN)
D11TR-50 HPX	520	1545	220	360	7 - 12	2500	15,3
D11TR-50	520	1665	165	305	7 - 12	2500	24

Package consists of: demolition and sorting grab (hydraulic block incl. hosing for HPX)

Available as an option: 4-Grip

Multi purpose grabs with HPXdrive or hydraulic cylinder

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Operating weight (t)	Load capacity form locking (kg)	Closing force (kN)
A11TR-50 HPX	500	1545	210	365	7 - 12	2500	15,3
A11TR-50	500	1650	175	310	7 - 12	2500	25

Package consists of: multi purpose grab (hydraulic block incl. hosing for HPX)

Available as an option: 4-Grip

Clamshell buckets with HPXdrive

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Operating weight (t)	Load capacity (kg)	Closing force (kN)
C11TR-40 HPX	400	1250	145	265	5 - 11	3000	22
C11TR-50 HPX	500	1250	180	295	5 - 11	3000	22
C11TR-60 HPX	600	1250	220	315	5 - 11	3000	22

Package consists of: clamshell bucket, (hydraulic block incl. hosing for HPX)

4-Grip

Type	For grab types	Load capacity (kg)	Weight (kg)	Operating weight (t)
KM 685-05-D06/09-A06/09	D07TR, D11TR, A07TR and A11TR	750	24	<11

Tiltrotator TR14NOX

Type	Breakout force max. (ISO) (kN)	Tilt angle (°)	Tilt torque (kNm)	Rotation torque (kNm)	Weight (from kg)	Operating weight (t)
TR14NOX	110	2 x 50°	31 constant	11	485	10 - 14



Demolition and sorting grabs

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Operating weight (t)	Load capacity (kg)	Closing force (kN)
D14TR-60	600	1555	260	400	11 - 14	3000	30

Package consists of: demolition and sorting grab

Gripper module

Type	Opening (mm)	Closing force (kN)	Load capacity (kg)	Weight (kg)
F19H-OQ65	825	18,5	900	265

Package consists of: gripper module, adapter system OilQuick

Other adapter systems on request.



Multi purpose grabs

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Operating weight (t)	Load capacity (kg)	Closing force (kN)
A14TR-60	600	1890	260	510	11 - 14	3000	30

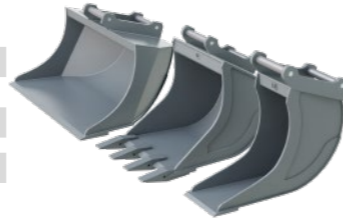
Package consists of: multi purpose grab

Profil buckets

Type	Bucket types	Width (mm)	Volume (liter)	Weight (kg)
SKP14-600	grading bucket	1600	600	390
SKK14-250	cable bucket	300	250	110
SKD14-500	digging bucket	800	500	255

Package consists of: grading bucket / cable bucket / digging bucket incl. teeth, adapter system S-Lock

Other bucket types, widths or volumes on request.



Clamshell bucket

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Operating weight (t)	Load capacity (kg)	Closing force (kN)
C14TR-60	600	1645	245	510	11 - 14	4500	39

Package consists of: clamshell bucket

Levelling bars with roller

Type	Width (mm)	Weight (kg)	Operating weight (t)
AVB 24-2500	2500	420	<24
AVB 24-2700	2700	470	<24

Package consists of: levelling bar with roller, adapter system S-Lock



Multi-Grip

Type	Width (mm)	Opening (mm)	Volume (m²)	Weight (kg)	Operating weight (t)	Load capacity (kg)	Closing force (kN)
MG16	531	1822	0,36	474	12 - 18	8000	27

Package consists of: Multi-Grip, adapter system S-Lock

Fork tines

Type	Tine adjustment	Load capacity max. (mm)	Width (mm)	Weight (kg)	Operating weight (t)
GAF18	mechanical	4000	1200	340	13 - 18
GAH18	hydraulically	4000	1200	340	13 - 18

Package consists of: fork tines, frame with adapter for system S-Lock



Note: other attachments and adapters on request

Note: other attachments and adapters on request

Tiltrotator TR19NOX

Type	Breakout force max. (ISO) (kN)	Tilt angle (°)	Tilt torque (kNm)	Rotation torque (kNm)	Weight (from kg)	Operating weight (t)
TR19NOX	150	2 x 50°	40,5 constant	12	580	14 - 19



Gripper module

Type	Opening (mm)	Closing force (kN)	Load capacity (kg)	Weight (kg)
F19H-OQ65	825	18,5	900	265
F19H-OQ70/55	825	18,5	900	346

Package consists of: gripper module, adapter system OilQuick

Other adapter systems on request.

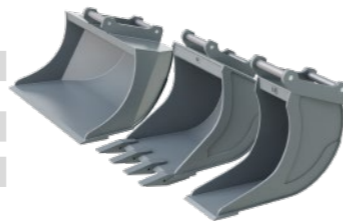


Profil buckets

Type	Bucket types	Width (mm)	Volume (liter)	Weight (kg)
SKP18-750	grading bucket	1700	750	520
SKK22-300	cable bucket	300	300	260
SKD16-650	digging bucket	900	650	400

Package consists of: grading bucket / cable bucket / digging bucket incl. teeth, adapter system S-Lock

Other bucket types, widths or volumes on request.



Levelling bars with roller

Type	Width (mm)	Weight (kg)	Operating weight (t)
AVB 24-2500	2500	420	<24
AVB 24-2700	2700	470	<24

Package consists of: levelling bar with roller, adapter system S-Lock



Fork tines

Type	Tine adjustment	Load capacity max. (mm)	Width (mm)	Weight (kg)	Operating weight (t)
GAF18	mechanical	4000	1200	340	13 - 18
GAH18	hydraulically	4000	1200	340	13 - 18
GAF20	mechanical	4000	1200	420	19 - 20
GAH20	hydraulically	4000	1200	420	19 - 20

Package consists of: fork tines, frame with adapter for system S-Lock



Note: other attachments and adapters on request

Demolition and sorting grabs

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Operating weight (t)	Load capacity (kg)	Closing force (kN)
D19TR-60	600	1550	225	450	14 - 19	4000	32
D19TR-80	800	1550	300	500	14 - 19	4000	27
D19TR-100	1000	1870	500	595	14 - 19	4000	25

Package consists of: demolition and sorting grab

Multi purpose grabs

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Operating weight (t)	Load capacity (kg)	Closing force (kN)
A19TR-60	600	1900	300	570	14 - 19	4000	27

Package consists of: multi purpose grab

Clamshell bucket

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Operating weight (t)	Load capacity (kg)	Closing force (kN)
C19TR-60	600	1655	245	575	14 - 19	4500	42

Package consists of: clamshell bucket

Multi-Grip

Type	Width (mm)	Opening (mm)	Volume (m²)	Weight (kg)	Operating weight (t)	Load capacity (kg)	Closing force (kN)
MG16	531	1822	0,36	474	12 - 18	8000	27
MG20	531	2279	0,52	560	16 - 22	10000	33

Package consists of: Multi-Grip, adapter system S-Lock

Note: other attachments and adapters on request

Tiltrotator TR25NOX

Type	Breakout force max. (ISO) (kN)	Tilt angle (°)	Tilt torque (kNm)	Rotation torque (kNm)	Weight (from kg)	Operating weight (t)
TR25NOX	170	2 x 50°	51,7 constant	15	860	19 - 25



Gripper module

Type	Opening (mm)	Closing force (kN)	Load capacity (kg)	Weight (kg)
F25H-OQ70/55	1050	19,5	1400	470

Package consists of: gripper module, adapter system OilQuick

Other adapter systems on request.

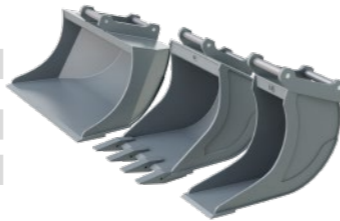


Profil buckets

Type	Bucket types	Width (mm)	Volume (liter)	Weight (kg)
SKP24-1200	grading bucket	1800	1200	780
SKK22-300	cable bucket	300	300	260
SKD22-1100	digging bucket	1000	1100	850

Package consists of: grading bucket / cable bucket / digging bucket incl. teeth, adapter system S-Lock

Other bucket types, widths or volumes on request.



Levelling bars with roller

Type	Width (mm)	Weight (kg)	Operating weight (t)
AVB 24-2500	2500	420	<24
AVB 24-2700	2700	470	<24

Package consists of: levelling bar with roller, adapter system S-Lock



Fork tines

Type	Tine adjustment	Load capacity max. (mm)	Width (mm)	Weight (kg)	Operating weight (t)
GAF20	mechanical	4000	1200	420	19 - 20
GAH20	hydraulically	4000	1200	420	19 - 20
GAF24	mechanical	5000	1200	440	21 - 24
GAH24	hydraulically	5000	1200	440	21 - 24

Package consists of: fork tines, frame with adapter for system S-Lock



Note: other attachments and adapters on request

Demolition and sorting grabs

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Operating weight (t)	Load capacity (kg)	Closing force (kN)
D25TR-84	840	1890	380	725	18 - 25	5000	42
D25TR-100	1000	1890	450	770	18 - 25	5000	42

Package consists of: demolition and sorting grab



Multi purpose grabs

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Operating weight (t)	Load capacity (kg)	Closing force (kN)
A25TR-70	700	2038	400	815	18 - 25	5000	38

Package consists of: multi purpose grab



Multi-Grip

Type	Width (mm)	Opening (mm)	Volume (m²)	Weight (kg)	Operating weight (t)	Load capacity (kg)	Closing force (kN)
MG20	531	2279	0,52	560	16 - 22	10000	33

Package consists of: Multi-Grip, adapter system S-Lock



Note: other attachments and adapters on request