nox ATTACHMENTS

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.

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.

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.

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.

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.

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.

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.

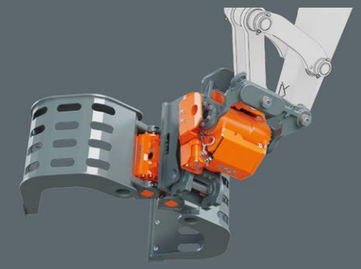
DEMOLITION

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.

POWERED BY KINSHOFER nox

nox

Large variety of KINSHOFER attachments

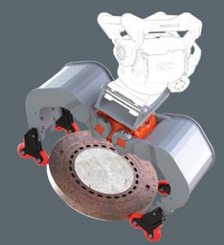


4-Grip clamping device

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 max. 900 kg (depending on model)**



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	2.5 - 4.5

Standard package: TR045NOX, upper bracket direct mount, quick coupler system S-Lock, NOX-Control DF10

Other adapter, quick coupler & control systems on request.

Transport pallet NOX

Type	Width (mm)	Length (mm)	Weight (from kg) depending on adapter
NOX Cargo	800	1,200	100

Package consists of: transport pallet with adapter

Please specify the quick coupler type.

Gripper module

Type	Opening (mm)	Closing force (kN)	Load capacity (kg)	Weight (from kg)
F07H	424	7.5	300	77

Package consists of: gripper with integrated adapter

Other adapter systems on request.

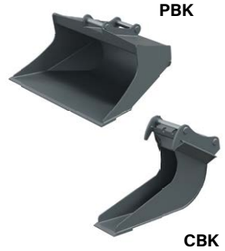
FH

Profile buckets

Type	Bucket types	Adapter	Width (mm)	Volume (m^3)	Weight (kg)
PBK04-110-S40	grading bucket	S40	1,100	0.16	131
CBK04-022-OQ40-5	cable bucket	OQ40-5	220	0.035	64

Package consists of: grading bucket / cable bucket, adapter

Other bucket types, widths, volumes or adapters on request.



PBK

CBK

Note: Other attachments and adapters from other manufacturers on request

Attachments for NOX Tiltrotators TR045NOX

Demolition and sorting grabs with *HPXdrive* or hydraulic cylinder

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Load capacity form locking (kg)	Operating weight (t)
D05TR-40 HPX	420	1,045	75	240	1,500	3 - 6
D05TR-40	420	1,212	60	160	1,500	3 - 6

Package consists of: demolition and sorting grab, hydraulic block for HPX, adapter system S-Lock (S40)

Available as an option: 4-Grip

Other adapter systems on request.

Multi purpose grabs with *HPXdrive* or hydraulic cylinder

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Load capacity form locking (kg)	Operating weight (t)
A05TR-40 HPX	386	1,043	70	225	1,500	3 - 6
A05TR-40	386	1,233	70	165	1,500	3 - 6

Package consists of: multi purpose grab, hydraulic block for HPX, adapter system S-Lock (S40)

Available as an option: 4-Grip

Other adapter systems on request.

4-Grip

Type	For grab types	Load capacity (kg)	Weight (kg)	Operating weight (t)
KM 685-05-D04-A04	D05TR / A05TR	600	24	<6

Fork tines

Type	Tine adjustment	Load capacity max. (mm)	Tine length (mm)	Weight (kg)	Operating weight (t)
PF03M-100	mechanical	1,900	1,000	145	<3
PF03H-100	hydraulically	1,900	1,000	160	<3

Package consists of: fork tines, frame with adapter system S-Lock (S40)

Other adapter systems on request.

Note: Other attachments and adapters from other manufacturers on request

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

Standard package: TR07NOX, upper bracket direct mount, quick coupler system S-Lock, NOX-Control DF10

Other adapter, quick coupler & control systems on request.

Transport pallet NOX

Type	Width (mm)	Length (mm)	Weight (from kg) depending on adapter
NOX Cargo	800	1,200	100

Package consists of: transport pallet with adapter

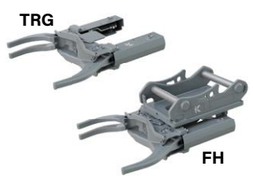
Please specify the quick coupler type.

Gripper module

Type	Opening (mm)	Closing force (kN)	Load capacity (kg)	Weight (from kg)
TRG07	424	7.5	300	40
F07H	424	7.5	300	77

Package consists of: gripper / gripper with integrated adapter

Other adapter systems on request.

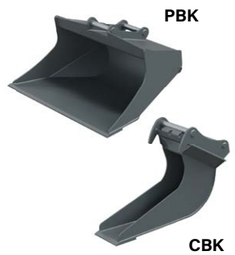


Profile buckets

Type	Bucket types	Adapter	Width (mm)	Volume (m³)	Weight (kg)
PBK05-120-S40	grading bucket	S40	1,200	0.25	174
PBK06-120-S45	grading bucket	S45	1,200	0.3	199
CBK05-020-OQ40-5	cable bucket	OQ40-5	200	0.13	75
CBK06-030-OQ40-5	cable bucket	OQ45	300	0.16	100

Package consists of: grading bucket / cable bucket, adapter

Other bucket types, widths, volumes or adapters on request.



Levelling bars with roller

Type	Width (mm)	Weight (kg)	Operating weight (t)
AVB 8-1800	1,800	200	<8
AVB 8-2100	2,100	300	<8
AVB 8-2200	2,200	420	<8

Package consists of: levelling bar with roller, adapter system S-Lock (S45)

Other adapter systems on request.

Note: Other attachments and adapters from other manufacturers on request

We reserve the right to amend specifications without prior notice! • www.kinshofer.com

Attachments for NOX Tiltrotators TR07NOX

Demolition and sorting grabs with *HPXdrive* or hydraulic cylinder

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Load capacity form locking (kg)	Operating weight (t)
D07TR-45 HPX	470	1,350	150	310	2,000	5 - 8
D07TR-45	470	1,345	90	180	2,000	5 - 8

Package consists of: demolition and sorting grab, hydraulic block for HPX, adapter system S-Lock (S45)

Available as an option: 4-Grip

Other adapter systems on request.

Multi purpose grabs with *HPXdrive* or hydraulic cylinder

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Load capacity form locking (kg)	Operating weight (t)
A07TR-45 HPX	450	1,344	145	305	2,000	5 - 8
A07TR-45	450	1,340	100	225	2,000	5 - 8

Package consists of: multi purpose grab, hydraulic block for HPX, adapter system S-Lock (S45)

Available as an option: 4-Grip

Other adapter systems on request.

Clamshell buckets with *HPXdrive*

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Load capacity (kg)	Operating weight (t)
C07TR-40 HPX	400	1,110	115	295	3,000	3 - 7
C07TR-50 HPX	500	1,110	140	310	3,000	3 - 7
C07TR-60 HPX	600	1,110	170	325	3,000	3 - 7

Package consists of: clamshell bucket, hydraulic block for HPX, adapter system S-Lock (S45)

Other adapter systems on request.

4-Grip

Type	For grab types	Load capacity (kg)	Weight (kg)	Operating weight (t)
KM 685-05-D06/09-A06/09	D07TR & A07TR	600	28	<11

Fork tines

Type	Tine adjustment	Load capacity max. (mm)	Tine length (mm)	Weight (kg)	Operating weight (t)
PF06M-100	mechanical	1,900	1,000	165	<6
PF06H-100	hydraulically	1,900	1,000	180	<6

Package consists of: fork tines, frame with adapter system S-Lock (S40)

Other adapter systems on request.

Note: Other attachments and adapters from other manufacturers 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

Standard package: TR11NOX, upper bracket direct mount, quick coupler system S-Lock, NOX-Control DF10

Other adapter, quick coupler & control systems on request.

Transport pallet NOX

Type	Width (mm)	Length (mm)	Weight (from kg) depending on adapter
NOX Cargo	800	1,200	100

Package consists of: transport pallet with adapter

Please specify the quick coupler type.

Gripper module

Type	Opening (mm)	Closing force (kN)	Load capacity (kg)	Weight (from kg)
TRG11	644	10	500	77
F11H	644	10	500	131

Package consists of: gripper / gripper with integrated adapter

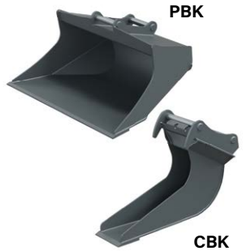
Other adapter systems on request.

Profile buckets

Type	Bucket types	Adapter	Width (mm)	Volume (m³)	Weight (kg)
PBK08-130-S45	grading bucket	S45	1,300	0.36	262
CBK08-030-OQ45	cable bucket	OQ45	300	0.25	132

Package consists of: grading bucket / cable bucket, adapter

Other bucket types, widths, volumes or adapters on request.



Levelling bars with roller

Type	Width (mm)	Weight (kg)	Operating weight (t)
AVB 8-1800	1,800	200	<8
AVB 8-2100	2,100	300	<8
AVB 8-2200	2,200	420	<8

Package consists of: levelling bar with roller, adapter system S-Lock (S50)

Other adapter systems on request.

Note: Other attachments and adapters from other manufacturers on request

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Attachments for NOX Tiltrotators TR11NOX

Demolition and sorting grabs with *HPXdrive* or hydraulic cylinder

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Load capacity form locking (kg)	Operating weight (t)
D11TR-50 HPX	520	1,545	220	360	2,500	7 - 12
D11TR-50	520	1,665	165	305	2,500	7 - 12

Package consists of: demolition and sorting grab, hydraulic block for HPX, adapter system S-Lock (S50)

Available as an option: 4-Grip

Other adapter systems on request.

Multi purpose grabs with *HPXdrive* or hydraulic cylinder

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Load capacity form locking (kg)	Operating weight (t)
A11TR-50 HPX	500	1,545	210	365	2,500	7 - 12
A11TR-50	500	1,650	175	310	2,500	7 - 12

Package consists of: multi purpose grab, hydraulic block for HPX, adapter system S-Lock (S50)

Available as an option: 4-Grip

Other adapter systems on request.

Clamshell buckets with *HPXdrive*

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Load capacity (kg)	Operating weight (t)
C11TR-40 HPX	400	1,250	145	265	3,000	5 - 11
C11TR-50 HPX	500	1,250	180	295	3,000	5 - 11
C11TR-60 HPX	600	1,250	220	315	3,000	5 - 11

Package consists of: clamshell bucket, hydraulic block for HPX, adapter system S-Lock (S50)

Other adapter systems on request.

4-Grip

Type	For grab types	Load capacity (kg)	Weight (kg)	Operating weight (t)
KM 685-05-D06/09-A06/09	D11TR & A11TR	900	28	<11

Fork tines

Type	Tine adjustment	Load capacity max. (kg)	Tine length (mm)	Weight (kg)	Operating weight (t)
PF12M-120	mechanical	2,500	1,200	220	<12
PF12H-120	hydraulically	2,500	1,200	240	<12

Package consists of: fork tines, frame with adapter system S-Lock (S50)

Other adapter systems on request.

Note: Other attachments and adapters from other manufacturers on request

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

Standard package: TR14NOX, upper bracket direct mount, quick coupler system S-Lock, NOX-Control DF10

Other adapter, quick coupler & control systems on request.

Transport pallet NOX

Type	Width (mm)	Length (mm)	Weight (from kg) depending on adapter
NOX Cargo	800	1,200	100

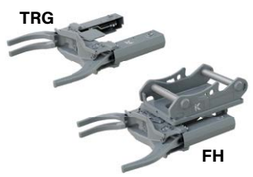
Package consists of: transport pallet with adapter

Please specify the quick coupler type.

Gripper module

Type	Opening (mm)	Closing force (kN)	Load capacity (kg)	Weight (from kg)
TRG19	734	18.5	900	127
F19H	734	18.5	900	265

Package consists of: gripper / gripper with integrated adapter



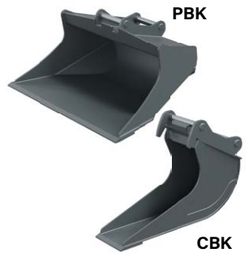
Other adapter systems on request.

Profile buckets

Type	Bucket types	Adapter	Width (mm)	Volume (m^3)	Weight (kg)
PBK12-150-S45	grading bucket	S45	1,500	0.5	356
PBK15-160-S60	grading bucket	S60	1,600	0.7	480
CBK08-030-OQ45	cable bucket	OQ45	300	0.25	132

Package consists of: grading bucket / cable bucket, adapter

Other bucket types, widths, volumes or adapters on request.



Levelling bars with roller

Type	Width (mm)	Weight (kg)	Operating weight (t)
AVB 24-2500	2,500	420	<24
AVB 24-2700	2,700	470	<24

Package consists of: levelling bar with roller, adapter system S-Lock (S60)

Other adapter systems on request.

Note: Other attachments and adapters from other manufacturers on request

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Attachments for NOX Tiltrotators **TR14NOX**

Demolition and sorting grabs

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Load capacity (kg)	Operating weight (t)
D14TR-60	600	1,555	260	400	3,000	11 - 14

Package consists of: demolition and sorting grab, adapter system S-Lock (S60)

Other adapter systems on request.

Multi purpose grabs

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Load capacity (kg)	Operating weight (t)
A14TR-60	600	1,890	260	510	3,000	11 - 14

Package consists of: multi purpose grab, adapter system S-Lock (S60)

Other adapter systems on request.

Clamshell bucket

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Load capacity (kg)	Operating weight (t)
C14TR-60	600	1,645	245	510	4,500	11 - 14

Package consists of: clamshell bucket, adapter system S-Lock (S60)

Other adapter systems on request.

Multi-Grip

Type	Width (mm)	Opening (mm)	Volume (m^2)	Weight (kg)	Load capacity (kg)	Operating weight (t)
MG16	531	1,822	0.36	474	8,000	12 - 18

Package consists of: Multi-Grip, adapter system S-Lock (S60)

Other adapter systems on request.

Fork tines

Type	Tine adjustment	Load capacity max. (kg)	Tine length (mm)	Weight (kg)	Operating weight (t)
PF12M-120	mechanical	2,500	1,200	220	<12
PF12H-120	hydraulically	2,500	1,200	240	<12

Package consists of: fork tines, frame with adapter system S-Lock (S60)

Other adapter systems on request.

Note: Other attachments and adapters from other manufacturers 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

Standard package: TR19NOX, upper bracket direct mount, quick coupler system S-Lock, NOX-Control DF10

Other adapter, quick coupler & control systems on request.

Transport pallet NOX

Type	Width (mm)	Length (mm)	Weight (from kg) depending on adapter
NOX Cargo	800	1,200	100

Package consists of: transport pallet with adapter

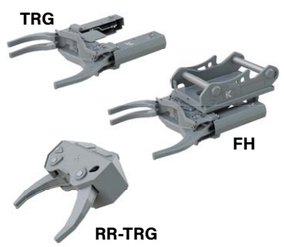
Please specify the quick coupler type.

Gripper module

Type	Opening (mm)	Closing force (kN)	Load capacity (kg)	Weight (from kg)
TRG19	734	18.5	900	127
F19H	734	18.5	900	165
RR-TRG19	822	30.1	5,000	170

Package consists of: gripper / gripper with integrated adapter

Other adapter systems on request.



Profile buckets

Type	Bucket types	Adapter	Width (mm)	Volume (m^3)	Weight (kg)
PBK19-170-S60	grading bucket	S60	1,700	0.9	660
CBK19-040-OQ65	cable bucket	OQ65	400	0.34	350
CBK19-040-OQ70/55	cable bucket	OQ70/55	400	0.34	360

Package consists of: grading bucket / cable bucket, adapter

Other bucket types, widths, volumes or adapters on request.

Levelling bars with roller

Type	Width (mm)	Weight (kg)	Operating weight (t)
AVB 24-2500	2,500	420	<24
AVB 24-2700	2,700	470	<24

Package consists of: levelling bar with roller, adapter system S-Lock (S60)

Other adapter systems on request.

Note: Other attachments and adapters from other manufacturers on request

Attachments for NOX Tiltrotators TR19NOX

Demolition and sorting grabs

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Load capacity (kg)	Operating weight (t)
D19TR-60	600	1,550	225	450	4,000	14 - 19
D19TR-80	800	1,550	300	500	4,000	14 - 19

Package consists of: demolition and sorting grab, adapter system S-Lock (S60)

Other adapter systems on request.

Multi purpose grabs

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Load capacity (kg)	Operating weight (t)
A19TR-60	600	1,900	300	570	4,000	14 - 19

Package consists of: multi purpose grab, adapter system S-Lock (S60)

Other adapter systems on request.

Clamshell bucket

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Load capacity (kg)	Operating weight (t)
C19TR-60	600	1,655	245	575	4,500	14 - 19

Package consists of: clamshell bucket, adapter system S-Lock (S60)

Other adapter systems on request.

Multi-Grip

Type	Width (mm)	Opening (mm)	Volume (m^2)	Weight (kg)	Load capacity (kg)	Operating weight (t)
MG16	531	1,822	0.36	474	8,000	12 - 18
MG20	531	2,279	0.52	560	10,000	16 - 22

Package consists of: Multi-Grip, adapter system S-Lock (S60)

Other adapter systems on request.

Fork tines

Type	Tine adjustment	Load capacity max. (kg)	Tine length (mm)	Weight (kg)	Operating weight (t)
PF18M-120	mechanical	4,000	1,200	320	<18
PF18H-120	hydraulically	4,000	1,200	345	<18

Package consists of: fork tines, frame with adapter system S-Lock (S60)

Other adapter systems on request.

Note: Other attachments and adapters from other manufacturers 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

Standard package: TR25NOX, upper bracket direct mount, quick coupler system S-Lock, NOX-Control DF10

Other adapter, quick coupler & control systems on request.

Transport pallet NOX

Type	Width (mm)	Length (mm)	Weight (from kg) depending on adapter
NOX Cargo	800	1,200	100

Package consists of: transport pallet with adapter

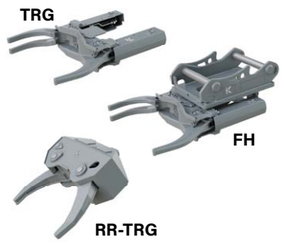
Please specify the quick coupler type.

Gripper module

Type	Opening (mm)	Closing force (kN)	Load capacity (kg)	Weight (from kg)
TRG25	1,137	19.5	1,300	224
F25H	1,137	19.5	1,300	265
RR-TRG25	822	30.1	5,000	187

Package consists of: gripper / gripper with integrated adapter

Other adapter systems on request.



Profile buckets

Type	Bucket types	Adapter	Width (mm)	Volume (m³)	Weight (kg)
PBK23-180-S70	grading bucket	S70	1,800	1.15	830
PBK28-200-S70	grading bucket	S70	2,000	1.8	1,160
CBK23-060-OQ70/55	cable bucket	OQ70/55	600	0.4	375
CBK28-060-OQ70/55	cable bucket	OQ70/55	600	0.5	500

Package consists of: grading bucket / cable bucket, adapter

Other bucket types, widths, volumes or adapters on request.

Levelling bars with roller

Type	Width (mm)	Weight (kg)	Operating weight (t)
AVB 24-2500	2,500	420	<24
AVB 24-2700	2,700	470	<24

Package consists of: levelling bar with roller, adapter system S-Lock (S70)

Other adapter systems on request.

Note: Other attachments and adapters from other manufacturers on request

Attachments for NOX Tiltrotators TR25NOX

Demolition and sorting grabs

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Load capacity (kg)	Operating weight (t)
D25TR-84	840	1,890	380	725	5,000	18 - 25
D25TR-100	1,000	1,890	450	770	5,000	18 - 25

Package consists of: demolition and sorting grab, adapter system S-Lock (S70)

Other adapter systems on request.

Multi purpose grabs

Type	Width (mm)	Opening (mm)	Volume (liter)	Weight (kg)	Load capacity (kg)	Operating weight (t)
A25TR-70	700	2,038	400	815	5,000	18 - 25

Package consists of: multi purpose grab, adapter system S-Lock (S70)

Other adapter systems on request.

Multi-Grip

Type	Width (mm)	Opening (mm)	Volume (m²)	Weight (kg)	Load capacity (kg)	Operating weight (t)
MG20	531	2,279	0.52	560	10,000	16 - 22

Package consists of: Multi-Grip, adapter system S-Lock (S70)

Other adapter systems on request.

Fork tines

Type	Tine adjustment	Load capacity max. (kg)	Tine length (mm)	Weight (kg)	Operating weight (t)
PF24M-120	mechanical	5,000	1,200	410	<24
PF24H-120	hydraulically	5,000	1,200	440	<24

Package consists of: fork tines, frame with adapter system S-Lock (S70)

Other adapter systems on request.

Note: Other attachments and adapters from other manufacturers on request