

NEMUS

Universal
drum screen





OVERVIEW

Universal drum screen with hydraulic drive

In a modern material stream economy, screening – i.e. separation by different particle sizes – remains one of the most important process steps. Through long experience making screening machines, Komptech's drum screens are ideal for performing this key function.

Like no other, the Nemus combines the practice-proven virtues of its predecessors with new solutions for more convenience and performance. The large steep-walled hopper, the screen drum with its improved material feed and the high-performance discharge system harmonize perfectly with the proven, robust diesel-hydraulic drive. The control with visualization makes operation easier, and the longer discharge conveyors – up to 3.5 metres cone height – boost material removal flexibility.

Engine power (kW)

55



70

Hopper volume (m³)

5

Screening area (m²)

30

Throughput (m³/h)

up to

170

- ▶ Automatic hopper belt control for precise straight-ahead conveyance
- ▶ Quiet-running, low-wear Drumgrip drive
- ▶ Hydraulically folding sidewalls for easy cleaning and drum changes
- ▶ Broad range of screen drum choices in terms of hole size, wall thickness and material quality

Wide range of applications



01 Compost

Adjustable hopper and drum speeds enable precise adaptation to the feedstock, and the load-dependent hopper control prevents overfilling of the drum. In the drum itself, a feed worm ensures optimum use of the screening area.

02 Excavated earth, sand, gravel, light C&D waste

Heavy materials aren't a problem; a folding hopper pre-screen keeps massive contraries out. The hopper belt control prevents belt tilting, and screen drums with walls up to 10 mm thick give long service.

03 Biomass, bark, chips, waste wood

The input hopper is designed for the drum size. Steep hopper walls prevent bridging, and a conveyor with T-nubs moves the feedstock to the drum dependably. The discharge conveyors permit high cones, and with belt widths up to 1 m there are no traffic jams.

04 Waste (preshredded)

Enough room between the drum and sidewall ensures stoppage-free operation even with large screen holes. Large side doors and panels make access easy for cleaning and maintenance.

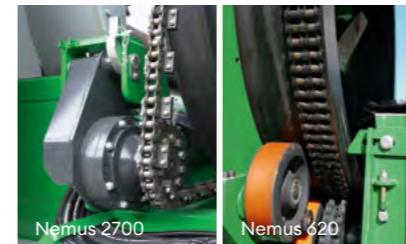


The machine in detail

Komptech stands for quality, reliability and value retention. This is assured by the use of high-quality components, certified production processes and gapless quality control.



01



Power plant and drum drive

- Modern Perkins diesel engine in 2 power classes
- Nemus 2700: Quiet-running, low-wear Drumgrip drive
- Nemus 620: Drum drive by sprocket and chain welded to the drum, for easy drum changes

02



Feed hopper

- 4 m loading length, more than 5 m³ capacity
- Drum-side hopper belt drive for better power transfer
- Automatic hopper belt control for precise straight-ahead conveyance

03



Screen drum

- Optimum material conveyance by feed worm for higher throughput
- Generous spacing of drum to sidewall for a wide range of materials
- Complete drum change can be done without tools

04



Operation

- Electrical control for more functionality
- Display with graphic representation of key functions
- Optimum positioning of all controls

05



Ease of use

- 4 hydraulic support feet for stability
- Discharge conveyors with up to 3.5 m cone height
- Fines conveyor as corrugated edge belt for high performance without leakage (optional)

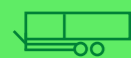
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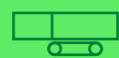
Maintenance

- Engine compartment accessible from all sides; the engine unit can also be run out
- Fines collection conveyor completely removable as a cassette
- Sidewall folds down 90° hydraulically (with or without drum)

Mobility



Trailer



Track

Screen holes*



10 | 15 | 20 | 25 | 30
40 | 50 | 60 | 70 | 80

Screen drum wall thickness*



6 mm | 8 mm | 10 mm

* Standard screen drum



Nemus 620

Be flexible – stay flexible

The Nemus 620 is the right solution for all who have long been aware of the advantages of a Komptech drum screen, but have been unwilling to switch because of their investment in existing machines.

Its dimensions and design are exactly the same as the Nemus 2700, but the drum drive is different. The Nemus 620 doesn't have Drumgrip; instead, drum drive is by

two sprockets on the motor and a chain welded to the drum. This permits the use of original Doppstadt SM 620 type drums without conversion work (note that subsequent conversion to use Komptech screen drums is not possible).

Mobility versions

The right way to move



Trailer

In the standard trailer version, the Nemus is mounted on a tandem central axle trailer with 17 tonnes permitted total weight.



Track

For manoeuvring on soft ground, the Nemus Track with its tracked chassis is the best option. Auxiliary hydraulics make it possible to lift the frame off the chassis.





AT WORK

In daily use

High ease of use

The electrical control with visualization adds extra functionality. An automatic start/stop function further boosts ease of use. Practical options like hopper sensor control, central lubrication and wireless remote control with display also make the workday easier.

Safe discharge

The fine fraction is discharged by an angled conveyor and a profiled discharge conveyor, or by a one-piece corrugated edge belt. For oversize discharge there is a choice of T-cleats and V-profile belts. Adjustable conveyor speed and magnetic drums are further discharge system options.

Well-equipped for minerals

The hopper pre-screen prevents damage from massive contraries when screening excavated earth, gravel or light C&D waste. The tough grate folds out hydraulically by remote control, and has a chute for discharging contraries next to the machine.





Always know what's going on

The Connect! app, which is freely usable with every Nemus, enables transparent administration, optimum job planning and remote monitoring of machines. GPS data provides for precise locating, and the data history and exports offer many possibilities for improving operating economy.


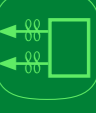


Maintenance made easy

The sidewalls can be hydraulically lowered and the drum lifted out quickly and safely for easy removal of encrusted material. Numerous details make maintenance easier, like the extendable engine unit, uncomplicated hopper conveyor change, and the fines collection band that can be removed as a single cartridge.




Functions

-  Automatic mode
-  Side wall foldable
-  Engine unit extendable
-  Remote control

Operation

-  Variable belt speed
-  Cleanfix fan
-  Drive mode (Track)
-  Condition Monitoring

Options

-  Hopper sensor
-  Hopper pre-screen
-  Magnetic drum



SERVICE

The Komptech plus



Top advice

We'll show you how to optimize your processes, based on our experience and extensive data analyses.



Service near you

Expert technicians are on-site quickly to make sure your machines keep running.



Spare parts always available

Intelligent stocking for the fast, economical provision of high-quality spare parts.



All-in solutions

From individual mobile machines to complex stationary systems, with us you get the right process solution.



Productivity in view

Apps and integrated monitoring let you keep an eye on operating data and economy.



Need-based service

Our maintenance and service agreements, as well as extended warranties, are aligned with your needs.

Overview of our technology

Look here for the newest updates, specifications and more detailed descriptions:



Model 2700 620

Engine

Manufacturer	Perkins	Perkins
Power (kW/HP)	55/74 74/100	55/74 74/100

Material feeding

Hopper volume (m ³)	5	5
Feeding length (mm)	4,000	4,000
Feeding width (mm)	1,675	1,675
Feeding height (mm)	2,850	2,850

Screening drum

Screening area (m ²)	30	30
Length (mm)	5,500	5,500
Screening drum diameter (mm)	2,000	2,000
Max. drum rpm	23	23
Drum drive	Drumgrip	sprocket-chain (welded to the drum)

Material discharge (Trailer)

Max. discharge height coarse fraction (mm)	3,550	3,550
Max. discharge height fine fraction (mm)	3,550	3,550

Dimensions transport/working position

Trailer – L x B x H (mm)	11,900 x 2,550 x 4,000	15,675 x 6,420 x 3,800
Track – L x B x H (mm)	10,500 x 3,000 x 3,680	14,749 x 6,689 x 3,744

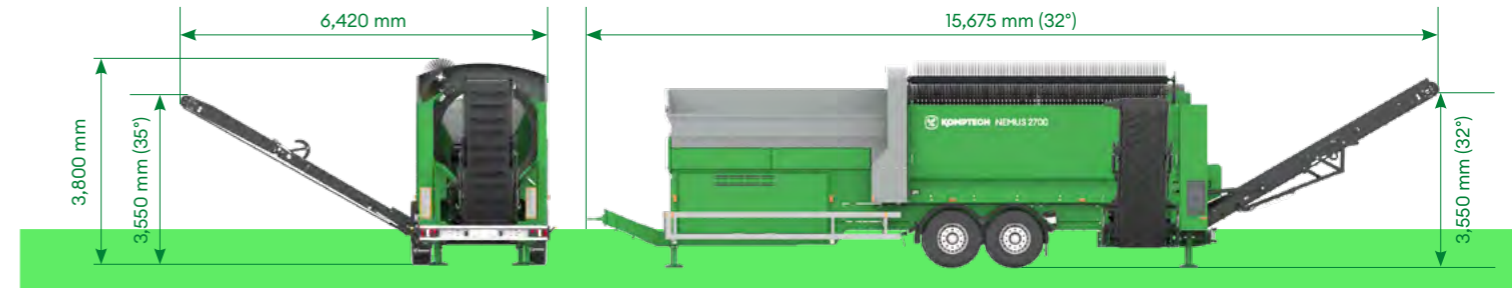
Weight (depending on features)

Trailer (t)	17	17
Track (t)	22	22

Throughput (depending on material)

Throughput (m ³ /h)	170	170
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Trailer



Track



Never waste an opportunity.

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Waste-stream expertise

Because you need a
setup that's tailored to
your waste stream.



Innovative technology

Because you need to
adapt your output to
your market needs.



Flexible sales models

Because you have the
choice between new, rental
and used machines.



Service excellence

Because you always
need to keep your
system running.