



VK4000

MEDIUM SPEED DEBARKER FOR SMALL AND MIDSIZE PRODUCTION MILLS



VALON KONE – DEBARKER SPECIALIST

MODERN. COMPACT. SAFE. ROBUST.

VK4000 DEBARKER WITH ONE DEBARKING ROTOR

NEW DEBARKER FRAME

- New frame design in compact size – modular structure
- Available with 2-roll and 4-roll frame modules
- Standard debarker configuration with 6 feedrolls – short log version (SL) with 8 feedrolls
- Wide feedrolls with stoppers inside machine frame – for smooth log flow **NEW**

DEBARKING ROTOR

- Three rotor sizes – always with six tool arms
- Available with both hydraulic and pneumatic pressure systems for debarker tool arms

A) Hydraulic tool pressure

- Ø 48 cm (19") and Ø 62 cm (24")
- Tool arms manufactured from forged steel and installed on the outfeed side of the rotor
- Pressure is created by stretching rubber spring hydraulically – pressure level is adjusted by hand-pump

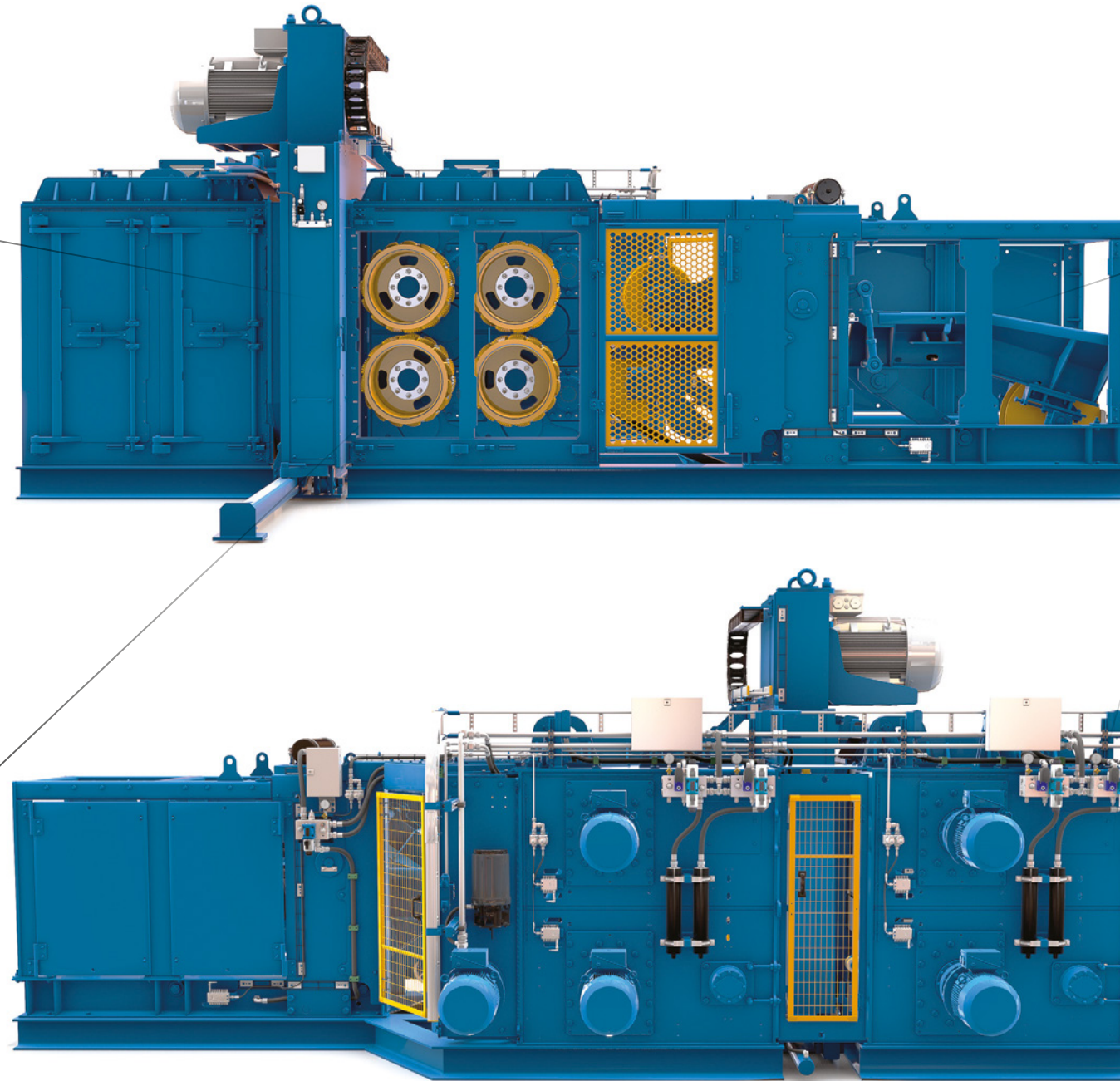
B) Pneumatic tool pressure (Air Seal construction)

- Ø 56 cm (22")
- Tool arms manufactured from wear resistant steel and installed on the infeed side of the rotor
- Remote control of tool pressure
- Four tool pressure levels to be chosen from control panel
- Automatic tool arm opening if feeding stops

- Tool arms featuring a bolt-on leading-edge design are available for Air Seal rotors – it simplifies and accelerates tool service **NEW**
- Replaceable and durable carbide tool tips – available different versions to guarantee optimal debarking result in varying conditions
- Tool tips manufactured using Laser Metal Deposition (additive manufacturing / 3D printing) are now available for Air Seal rotors – providing guaranteed durability without brazed carbide parts **NEW**
- Rotor pull-out to service position - for easy maintenance **OPTION**

NEW FEEDROLLS AND POWER TRANSMISSION

- Feedroll diameter 56 cm (22") **NEW**
- Feedroll width 60 cm (23 ½") **NEW**
- Heavy duty planetary drive gears – no belts needed **NEW**
- All chain drives installed inside machine frame – no covers needed **NEW**
- Replaceable inserts for easy maintenance (FibreMax) – available different insert types ensuring grip in varying conditions



ENHANCED SAFETY

- Safety switches and safety sensors on all service doors
- Safety sensors for recognizing when rotor is in in/out position **NEW**
- Service platform opens when rotor is in out position **NEW**
- All moving parts are inside machine frame or covered with safety guards, no need for additional protection **NEW**
- Centering infeed conveyor equipped with guard doors on both sides **NEW**

NEW CENTERING INFEEED CONVEYOR VK42

- Centers log both vertically and horizontally before log enters debarker
- Improved feeding of small, curved, and low-grade logs for optimal debarking quality with minimal fiber loss
- Equipped with hydraulic pre-opening of pressure roll/flap
- Log diameter measurement with integrated light-curtain (HD) **NEW**

NEW FEEDROLL HYDRAULIC PRESSURE SYSTEM

- Piston accumulators (nitrogen) **NEW**
- Two different feedroll hydraulic systems available – closed circuit (Basic) or active hydraulic (Heavy Duty = HD)
- Closed circuit system with constant working pressure designed for lower feed speeds (Basic)
 - designated cylinder and pressure accumulator for each feedroll pair
 - pressure level is adjusted by hand-pump
- Active hydraulic system with powerpack is needed for higher feed speeds (HD)
 - allows feedroll soft opening function
 - working pressure starts as log enters feedrolls
 - pressure level can be selected from operator's desk
 - allows to use feedroll pre-staging system – guarantees lowest possible load on machine and minimizes fiber loss **OPTION**

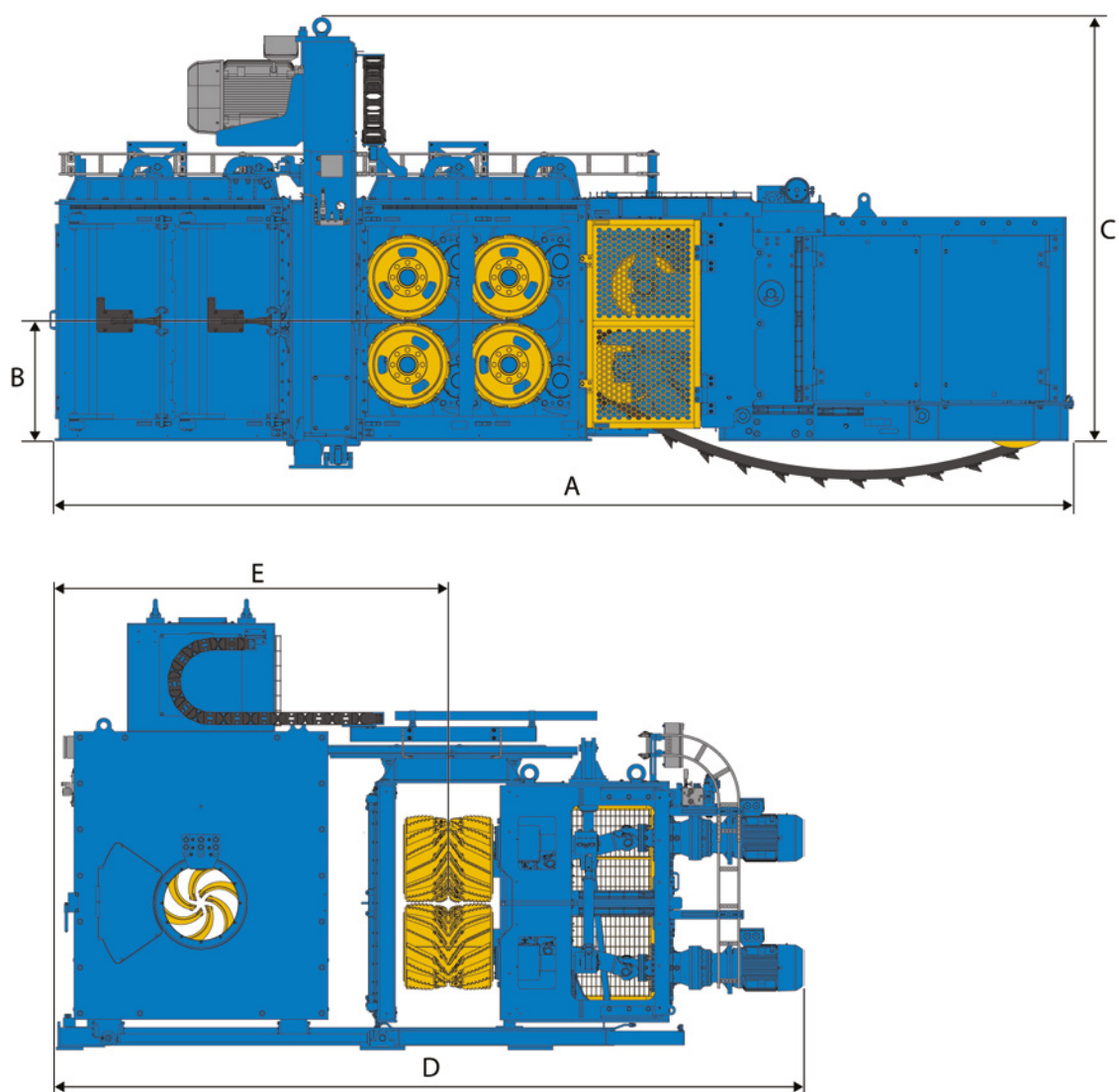
NEW LUBRICATION SYSTEMS

- Oil lubrication for rotor bearing and conveyor flite-chain
- Grease lubrication for all other bearings requiring constant lubrication – total 12-16 greasing points / feedroll pair and 30 greasing points / infeed conveyor
- All grease lubrication lines are connected to distributors mounted on outside wall of debarker/conveyor frame – easy access to help daily use **NEW**
- Available with progressive automatic lubrication system with flow control **OPTION**
- Oil collecting and recycling system available for Air Seal rotors **OPTION**



Technical Data

VK4000 BASIC OR HEAVY DUTY		VK4048 Basic VK4048HD (6 feedrolls)	VK4048SL Basic VK4048HDSL (8 feedrolls)	VK4062 Basic VK4062HD (6 feedrolls)	VK4062SL Basic VK4062HDSL (8 feedrolls)	VK4056HD Air Seal (6 feedrolls)	VK4056HDSL Air Seal (8 feedrolls)
A	mm (in)	6145 (242)	6825 (268 ¾)	6145 (242)	6825 (268 ¾)	6313 (248.5)	6993 (275)
B	mm (in)	985 (38 ¾)	985 (38 ¾)	985 (38 ¾)	985 (38 ¾)	985 (38 ¾)	985 (38 ¾)
B without pull-out	mm (in)	800 (31.5)	800 (31.5)	800 (31.5)	800 (31.5)	800 (31.5)	800 (31.5)
C	mm (in)	3019 (119)	3019 (119)	3019 (119)	3019 (119)	3383 (133)	3383 (133)
C without pull-out	mm (in)	2834 (112)	2834 (112)	2834 (112)	2834 (112)	2998 (118)	2998 (118)
D	mm (in)	4995 (196 ¾)	4995 (196 ¾)	4995 (196 ¾)	4995 (196 ¾)	5340 (210)	5340 (210)
D without pull-out	mm (in)	3292 (130)	3292 (130)	3292 (130)	3292 (130)	3630 (143)	3630 (143)
E	mm (in)	2624 (103 ¼)	2624 (103 ¼)	2624 (103 ¼)	2624 (103 ¼)	2990 (118)	2990 (118)
Debarking diameter (rotor opening)	mm (in)	80-480 (3 ½-19)	80-480 (3 ½-19)	100-620 (4-24 ½)	100-620 (4-24 ½)	80-560 (3"-22")	80-560 (3"-22")
Minimum log length	m (ft)	2,1 (6'10")	1,7 (5'7")	2,1 (6'10")	1,7 (5'7")	2,3 (7'7")	1,9 (6'3")
Rotor	kW (hp)	55 (75)	55 (75)	55 (75)	55 (75)	75 (100)	75 (100)
Infeed conveyor	kW (hp)	11 (15)	11 (15)	11 (15)	11 (15)	11 (15)	11 (15)
Feedworks	kW (hp)	2x11 (2x15)	4x11 (4x15)	2x11 (2x15)	4x11 (4x15)	2x11 (2x15)	4x11 (4x15)
Weight, BASIC	kg (lbs)	16 100 (35 500)	18 750 (41 350)	16 250 (35 800)	18 900 (41 650)	---	---
Weight, HEAVY DUTY	kg (lbs)	16 850 (37 150)	19 500 (43 000)	17 000 (37 450)	19 650 (43 300)	19 350 (42 700)	22 000 (48 500)



Due to continuous product development the technical data is subject to change without further notice.

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