Air consumption cylinders/machines

Air consum. cylinders measured at 3.000 strokes p/h at 6 atm. (90psi)

Length Cylinder	Diameter 12	Diameter 20	Diameter 32	Diameter 40
300mm			156 NL/minute	243 NL/minute
250mm			130 NL/minute	202,5 NL/minute
200mm			104 NL/minute	
150mm			78 NL/minute	
100mm		20,5 NL/minute	52 NL/minute	
70mm		14,35 NL/minute		
50mm		10,25 NL/minute		
20mm	1,38 NL/minute	4,1 NL/minute		
16mm	1,1 NL/minute	3,3 NL/minute		
12mm	0,83 NL/minute	2,5 NL/minute		

Air consumption in NL/minute per item

Machine	Measured speed	NL/minute
POP pot dispenser	3000 strokes per hour	10,25
LPO large pot dispenser	3000 strokes per hour	39,75
Osmocote dispenser*	1500 strokes per hour	52
Blowers continuous**	N.a.	262
Blowers per stroke	3000 strokes per hour	56,50
Placing robot NZ0-1 + staggering***	500 strokes per hour	83,50
Pick-up robot NZ100 + staggering***	500 strokes per hour	4,3
Compact pick-up NZL100	500 strokes per hour	
Compact placing NZL0-1	500 strokes per hour	
Linea Recta pick-up NZLR100	500 strokes per hour	
Linea Recta placing NZLR0-1	500 strokes per hour	

Notes:

NL = Nominal Liter p. m. x 0.264= gallon p.m. (GPM) : 7.48 = Cubic feet p. m. (CFM)

- Air consumption for a potting machine measured at 3,000 strokes per hour with a LPOD, AFLPR1, AFLA1 = 250 NL/minute (8.8 CFM)

- Intake capacity is mentioned in NL/minute.

*The inner cylinder is adjusted at 2cm. (¾")

** Not reduced, with a 2mm (3/32") blower opening

*** Staggering stroke at 100mm. (4")

JAVO OPTIMA (SU1O)

Specifications:

Voltage	400Volt 50z 3~+N+PE (N. America 208/220V. 60Hz)
Power connection machine	16A 3 phase 5 pin
Power	2,95kW
Switched plug box	1x 16A 3 phase 5 pin
Length	4.400mm (14'8")
Width	2.050mm (6'10")
Height	1.840mm (6'2")
Weight	±1.500kg (3300lbs)
Height take off belt	790mm (31½")
Max. capacity	3.060 p. p/hour (pulley 118 with V-belt B45)
Min. Capacity	1.560 p. p/hour (pulley 118 with V-belt B45)
Min. Pot size	8cm (3¼")
Max. pot size	29cm (10ltr) (11¾")
Number pot holders	18
Volume soil bin	1.135ltr (1,3m³)
Maintenance set	16A plug, 3x open end wrench, 1x door key, 1x allen wrench, 2x locknut m10, 2x allen screw m8, 2x rubber washer
Drill holder (motor shaft 19mm)	Drill shaft 14mm (up to drill 15cm) (6")
Wheels front side	Air wheels

Options:	**Code:**	**Specifications:**
4mtr 5x1.5 cable incl. 16A plug	900965	
Continuous plug box	900966	Not standard
Pulley with V-belt	SPB 180, B48	Capacity: 1080>2040 p.p./hour
System double next to each other	SU1 OD	Base plates + pot separators Max size: 2x14cm(12¾")
Double drill installation	ST100-3	from 60 to 150mm (5¼ to 6")
Soil bin extension	SU1G	1390ltr extra
Universal bare root system pneumatical	GNV-1*	Air controlled valve
Universal bare root system manually	GNV*	Manual control of the soil valves in paddle wheel
Osmocote Dosing unit	ST90-13	
Brush unit behind drill	BM 201	
Motorized pressure roller complete	201-500-01-02	Electronic speed control
Heavy air wheels front side	SU1L	
Heavy air wheels with tow bar rear side	SU1ZL	Wider than soil bin (no tilter possible)
Massive swivel wheels with brake rear side	SU1ZM	No tow bar
Electronic speed control on elevator	SU1E**	Min. Speed -25%, max. speed +20%
Electronic speed control on pottrack	SU1E**	Min. Speed -25%, max. speed +20%
Height take off belt		Pottrack only factory installed adjustable in height. Can be heightened 3x by 46mm (5¾")

Options:	Code:	Specifications:
Drill rod extendors	201-423	Necessary from drill size 16cm (6”¼)
Large drill cover	204-5032	Necessary from drill size 16cm (6”¼)
Drill holder (motor shaft 19mm)		Drill shaft 19mm (from drill 16cm) (6”¼)
1000 rpm drill motor (motor shaft 24mm)		
Drill holder (motor shaft 24mm)		Drill shaft 14mm (up to drill 15cm) (6”)
Drill holder (motor shaft 24mm)		Drill shaft 19mm (from drill 16cm) (6”¼)
Take off machanical***	AFLM3	Only possible on the same side as the pot dispenser.
Pot dispenser feed belt		For tall pots

Notes:

- * Bare root system standard equipped with adjustable pot plates (stainless steel)

- ** dial on electrical panel

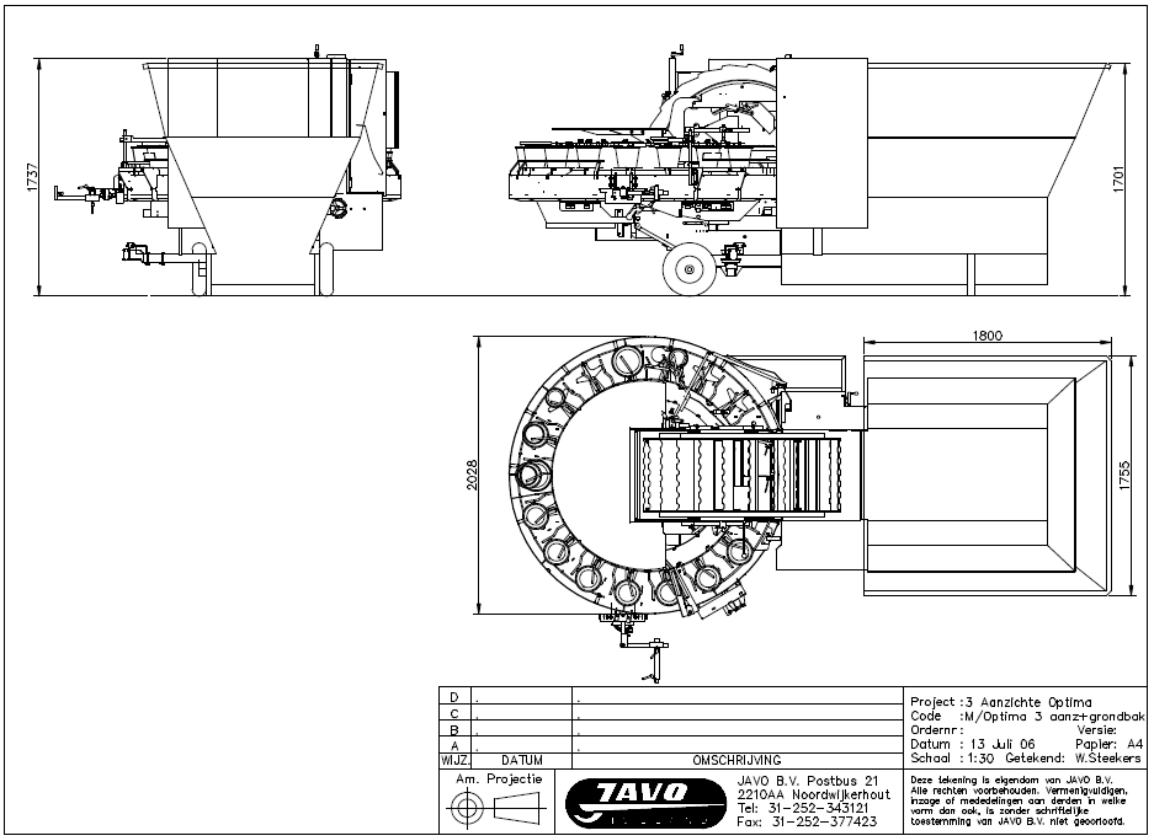
- *** Mechanical take off may have problems with the larger pots

- The use of a 1000 rpm drill motor for big drills is recommended

- Air consumption at 3.000 rph LPOD, AFLPR1 = 250NL/minute

- Pay attention while placing a crate tilter at the side of the soil bin, the safety cover plate need to be shortened because of the soil that falls behind the machine.

- Don’t place a crate tilter at the side of the electrical panel. Move the panel or the tilter to the other side.



SUBJECT: Optima

DATE: 03-09-09

The pot track of the Javo Optima can be mounted to the machine on 4 heights.

Ex works, the pot track will be mounted in the lowest height. This way, the upper side of the take off belt is ± 800mm of the floor.

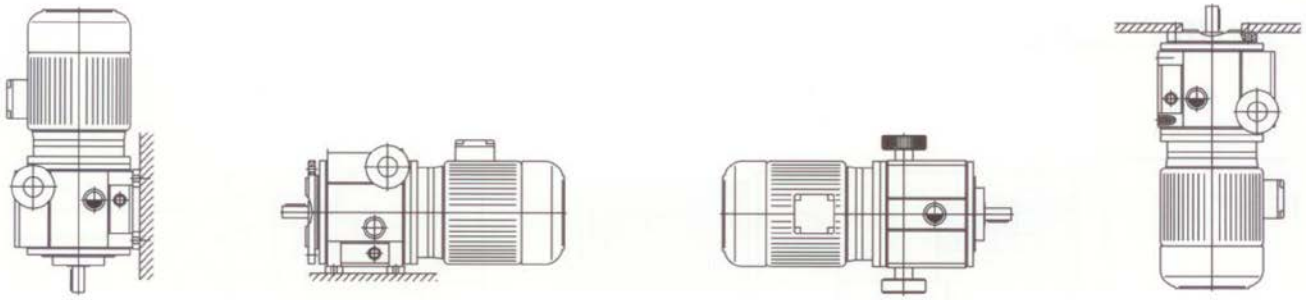
It is possible to mount the pot track on 3 other different heights, each 46mm higher.

SUBJECT: Optima changes

DATE: 07-05-09

1. The pot track has been changed, so that the machine is suitable for 10ltr pots (± 30cm). Pot seats have been moved to the outside, the rail has been moved 15mm to the outside and the fingers have been lengthened.
2. The mechanical take off has been changed. The turning point of the take off arm has been moved and has been lengthened to be able to process larger pots on a wider belt

Oil quantities (ccm) variable-speed ball drive KR1-KR4



Einbaulage	V1, V5, V18	B3, B5, B14	B6, B7	V3, V6, V19
KR1	70	70	70	70
KR2	200	125	200	125
KR3	400	250	400	250
KR4	800	450	800	450

Only the use of Santotrac 50/Variotrac 32 synthetic traction fluid ensures full power transmission. The warranty requires this oil type to be used. The oil should be changed after 5000 operating hours (at least once per year). The oil change must not be carried out during operation. No other maintenance work is required.

Oil quantities FMRV + FDL:

Drive:	**Quantity (ltr):**	**Type:**
FMRV030	0,05	BP Energol SG-XP320
FMRV040	0,1	BP Energol SG-XP320
FMRV050	0,15	BP Energol SG-XP320
FDL018	0,13 (aber in vertikal mit Wellenende nach unten: 0,2)	BP Autran DX
FDL037	0,15 (aber in vertikal mit Wellenende nach unten: 0,25)	BP Energol SG-XP320

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