

## 4 Technical data

### 4.1 Machine type code

RG	42	
VECOPLAN Shredder	Input – width 42 inch	Input – length 48.8 inch

### 4.2 Characteristics of the machine/system

#### 4.2.1 Functional data

- Rotor diameter (orbit): 9 inch
- Rotor length: 42 inch
- Rotor speed: 120 RPM
- Number of reducing tools: 27 pcs.

#### 4.2.2 Dimensions and weight

- Overall length: Approx. 101 inch
- Overall width: Approx. 79 inch
- Overall height: Approx. 51 inch
- Weight: Approx. 2.65 tn
- Dimensional drawing: 05000898 007

#### 4.2.3 Main drive

- Type:	Electric motor with Turbo-clutch, V-belt drive and gearing
- Translation ration (gears):	$i = 12.5$
- Rated power of motor:	30 HP
- Nominal motor current:	34.5 A
- Motor speed:	1755 RPM
- Input voltage:	460 V
- Power frequency:	60 Hz
- Protection class:	IP 54
- Construction type:	B3
- Lubricant quantity:	See "Gearbox type plate"
- Lubricant types:	See "Gearbox type plate"
- Hydraulic fluid quantity (turbo clutch):	4.1 liters
- Hydraulic oil types:	Shell HR-F NATURELL
- V-belt pulley turbo clutch:	$d_1 = 7.1$ inch
- V-belt pulley gears:	$d_2 = 8.3$ mm
- Translation ration (belt drive):	$i = 1.18$
- Drive belt profile:	P = SPB
- Number of drive belts:	Z = 3 pieces
- Power belt effective length:	$L_w = 65$ inch
- Axle distance:	$e_{nom} = 20.35$ inch
- Belt run length:	L = 20.34 inch
- Impression depth:	$E_a = 0.66$ inch
- Test force per drive belt:	F = 16.86 lbf
- Natural frequency of the free belt run:	49.41 Hz

## 4.2.4 Hydraulic power unit

- Ram power output:  $P = 1.8 / 2,3 \text{ HP}$
- Max. ram operating pressure: up to 2320 PSI
- Hydraulic oil quantity: 10 liters
- Hydraulic oil types: Shell TELLUS HLP 46

## 4.2.5 Suction nozzle

- suction nozzle  $D = 7.87 \text{ inch}$
- minimum air speed  $v = 1102 \text{ inch/s}$