

## **4 Technical data**

### **4.1 Machine type code**

<b>RG</b>	<b>42</b>	
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:	$P = \text{SPB}$
- Number of drive belts:	$Z = 3$ pieces
- Power belt effective length:	$L_w = 65$ inch
- Axle distance:	$e_{\text{nom}} = 20.35$ 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 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 inch
- minimum air speed v = 1102 inch/s