



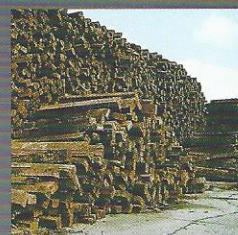
HAMMEL
RECYCLINGTECHNIK



HAMMEL-Primary Shredder

Type 450/650/750/850/950

Diesel / Electric





“We prove power” - Technical specifications

The HAMMEL-primary shredder processes extremely difficult materials like wood waste, railway sleepers, root stems, green waste, industrial- and bulky waste, paper rolls, tires and car bodies, etc. Due to its robust and clear construction the HAMMEL-shredder is reliable for volume reduction. It is equipped with a slow-speed 2-shaft-system. These shafts turn with a speed of approx. max. 46 rpm.

Therefore the HAMMEL-shredder belongs to the extremely slow running shredders and has a huge number of advantages

Engine performances

450 D/DK	140 hp	450 E	110 kW
650 D/DK	280 hp	650 E	160 kW
750 D/DK	350 hp	750 E	260 kW
850 D/DK	480 hp	850 E	320 kW
950 DK	710 hp	950 E	500 kW

Weights*

450 D/E	8 tons	450 DK	11 tons
650 D/E	16 tons	650 DK	19 tons
750 D/E	17 tons	750 DK	20 tons
850 D/E	25 tons	850 DK	30 tons
950 E	30 tons	950 DK	42 tons

* approx. value for base model without options

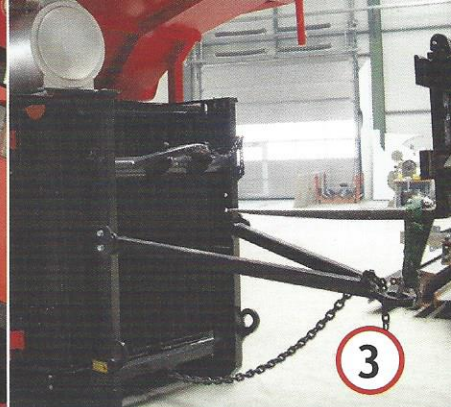




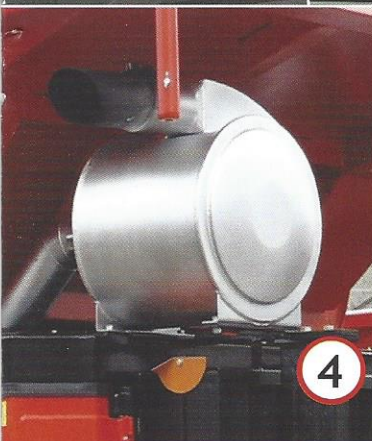
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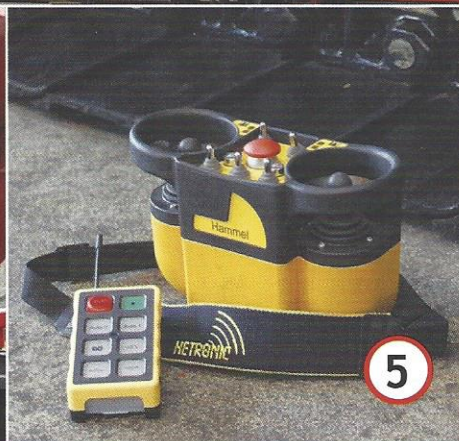
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All inclusive

Every HAMMEL - primary shredder is equipped with a high quality basic configuration to meet your requirements.

Basic configuration

1. drive

electric or diesel engine

2. transportability

stationary build on hook lift frame

3. pulling drawbar

provides a fast conversion of the shredder on the factory premises

4. low sound emission

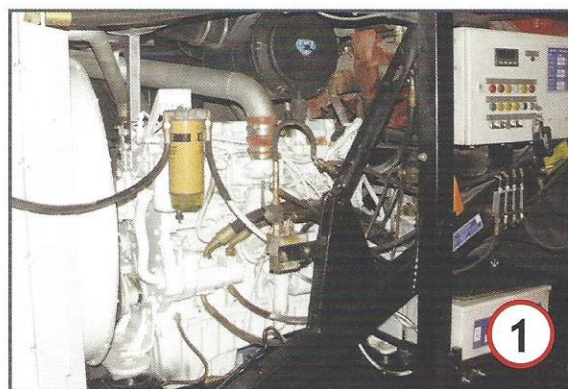
noise-reducing construction

5. remote control

with different customized functions

6. tilting hopper

for ideal feeding



1



2



We were born in wood!



In 1984 the first HAMMEL-machine was developed for shredding root stems. The wood waste recycling market has challenged us until today, so that our shredding technology has been adapted to today's demands and makes the HAMMEL-shredder a leading primary shredder for all kind of wood in the recycling sector.

We rely on our years of experience to find the most suitable shaft configuration for every customer and application.

Very low wear and tear and energy consumption as well as high performances are reached by sophisticated engineering and perfectly matching shafts.

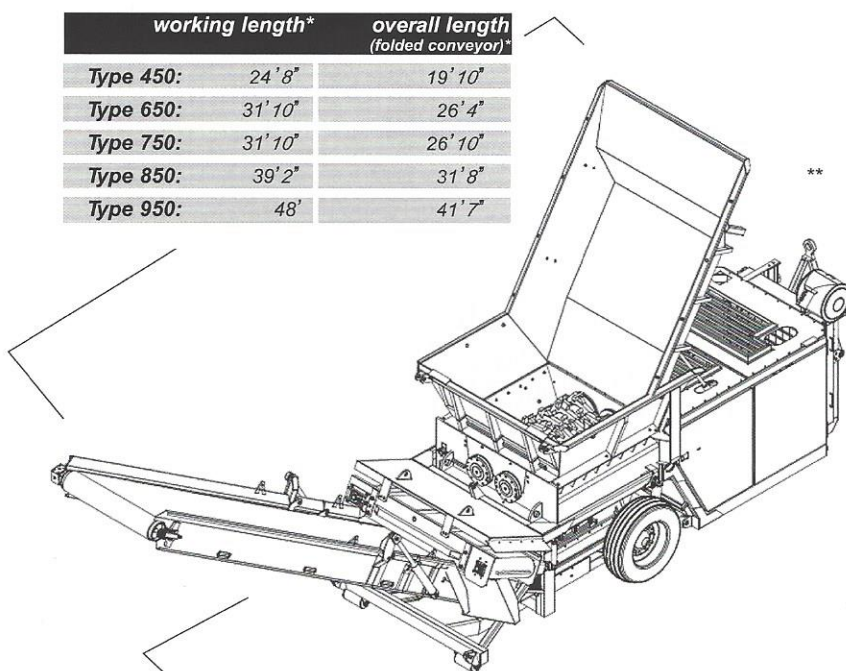


Innovation - Experience - Economy - Satisfaction



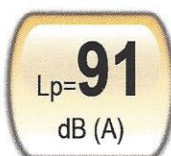
*approx. values

	working length*	overall length (folded conveyor)*
Type 450:	24' 8"	19' 10"
Type 650:	31' 10"	26' 4"
Type 750:	31' 10"	26' 10"
Type 850:	39' 2"	31' 8"
Type 950:	48'	41' 7"



	overall height*
Type 450:	6' 2"
Type 650:	8' 10"
Type 750:	8' 10"
Type 850:	10' 3"
Type 950:	10' 6"

	overall width*
Type 450:	5' 7"
Type 650:	8' 2"
Type 750:	8' 2"
Type 850:	8' 5"
Type 950:	10'

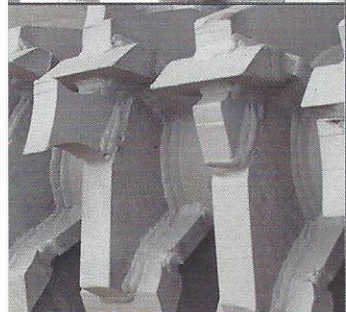
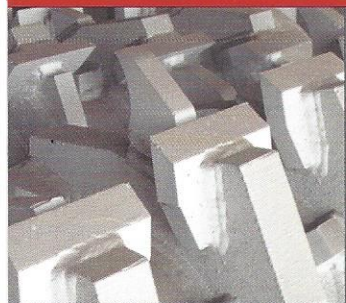
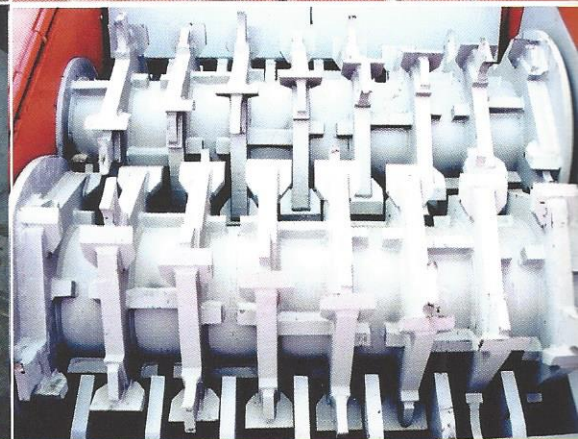
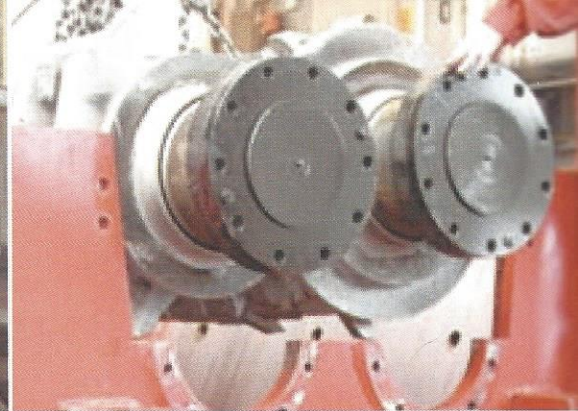
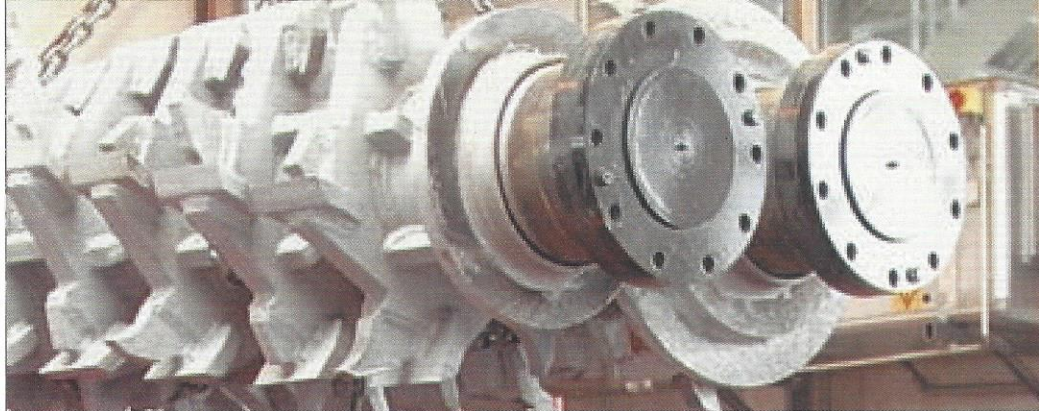


ADVANTAGES

- high performance
- very low noise
- minimum of dust generation
- long life time of the shredding tools
- no projectiles
- no fire hazard
- customized
- knives are welded on, not bolted

**illustration incl. special equipment

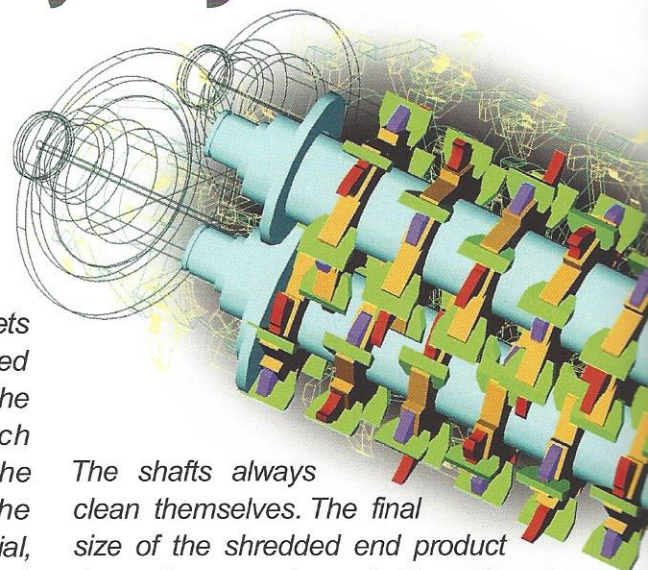
***as special equipment available



The patented "2-shaft system"

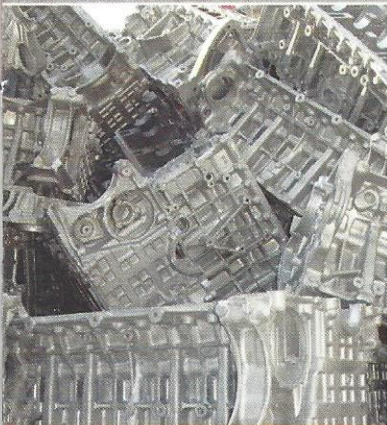
The special, counter-rotating shafts with aggressive hooks and knives pull in the material directly loaded onto the shafts. The input material is ripped, torn and cut and discharges directly from the shafts onto the conveyor belt.

When extremely difficult material like carpets and mattresses or root stems are processed and a hydraulic end pressure is reached, the hydraulically controlled shafts switch automatically into reverse. Therefore the shafts turn backwards, and break the material again, clean the shaft from material, switch automatically again into the forward mode and the normal shredding stage can be continued without even being noticed by the operator. This function guarantees that all material was shredded before it enters the discharge conveyor belt, and rolling up of any stringy material is avoided through this special and fully automatic roll up protection.



The shafts always clean themselves. The final size of the shredded end product depends on various shaft configurations, HAMMEL can provide you with. Generally, an end product size between approx. 6"-16" is achieved. Thanks to our long-term experience in the wood and waste sector the shafts have a long life span of more than thousand operating hours before refurbishing is needed.

The shaft configuration is defined according to the input material and the end product specifications of the customer.

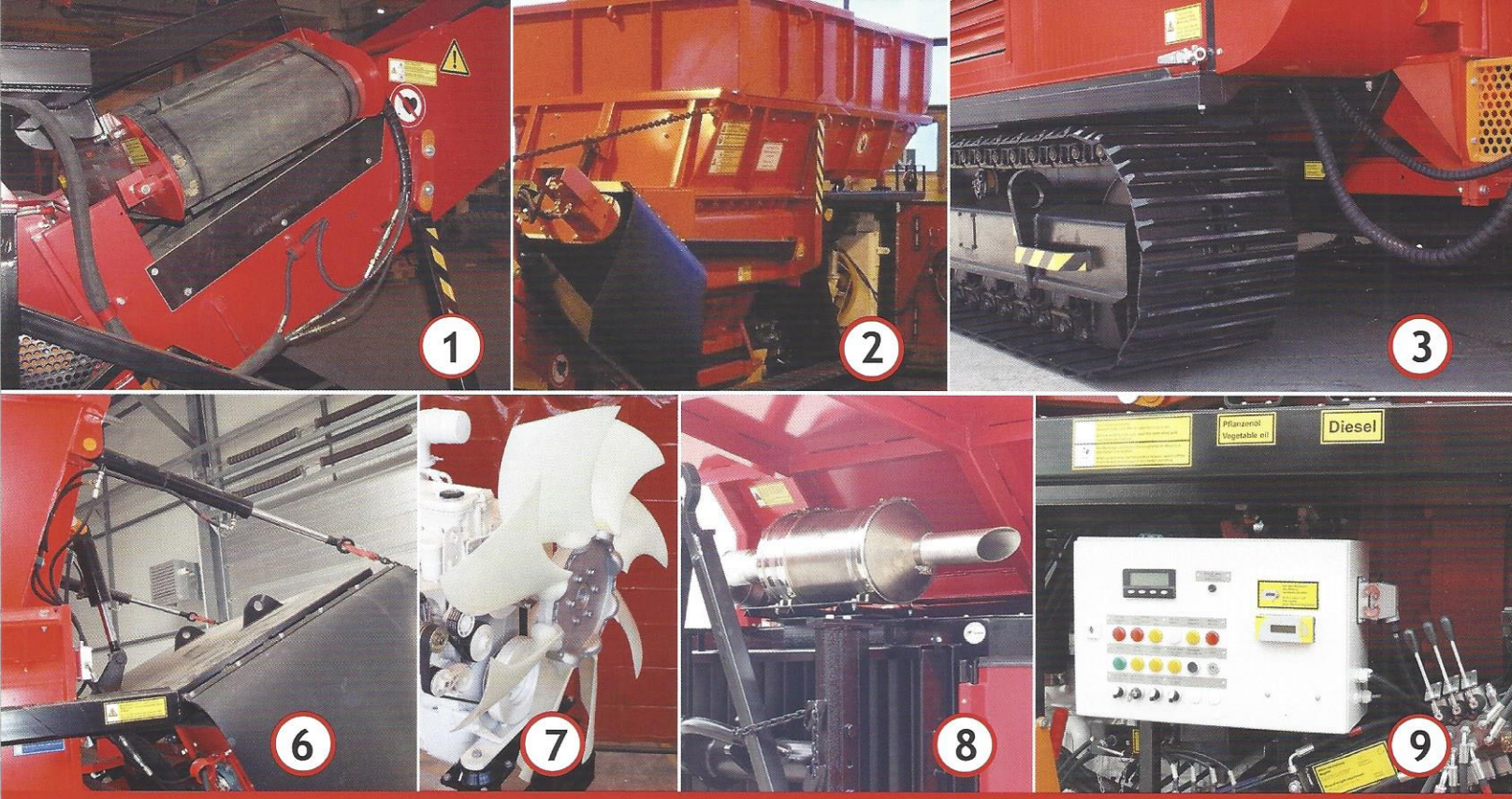


Performance Characteristics

Recycling Material	HAMMEL Shredder Type				
	primary shredder				
	450 D/E	650 D/E	750 D/E	850 D/E	950 D/E
domestic waste	15 t/h	30 t/h	50 t/h	100 t/h	200 t/h
industrial/commercial waste			45 t/h	80 t/h	150 t/h
bulky waste			30 t/h	60 t/h	110 t/h
C&D			35 t/h	80 t/h	150 t/h
paper		10 t/h	20 t/h	45 t/h	70 t/h
paper rolls		10 t/h	15 t/h	30 t/h	60 t/h
used tires			20 t/h	30 t/h	50 t/h
aluminium profiles	5 t/h		12 t/h	20 t/h	40 t/h
car bodies					50 t/h
high caloric fuels 150 mm			20 t/h	30 t/h	70 t/h

* performances up to approx.

With a HAMMEL-primary shredder an end product size between 6" - 16" can be reached depending on the selected shaft configuration.



Our innovations - Your choice

ECO
mode

BIO
Diesel

LOW
Emission

CAN
controlled

SYS II
cleaning
system

PLC
controlled

***For best results
the right equipment***

FAN
sickle type

low
NOISE
level

FAN
reversible

Tools
bolted



Performance Characteristics

Recycling Material	HAMMEL Shredder Type				
	primary shredder				
	450 D/E	650 D/E	750 D/E	850 D/E	950 D/E
wood waste/demolition wood	10 t/h	30 t/h	60 t/h	120 t/h	230 t/h
pallets	8 t/h	25 t/h	50 t/h	90 t/h	200 t/h
mixed wood	12 t/h	30 t/h	60 t/h	100 t/h	190 t/h
cable drums	6 t/h***	25 t/h	40 t/h	60 t/h	130 t/h
railway sleepers		15 t/h	25 t/h	50 t/h	70 t/h
telephone poles		15 t/h	25 t/h	50 t/h	70 t/h
root stems	8 t/h**	25 t/h	40 t/h	50 t/h	90 t/h
green waste	15 t/h	25 t/h	50 t/h	80 t/h	120 t/h

* performances until approx.

** up to Ø 16"

*** up to Ø 3'

With a HAMMEL-primary shredder an end product size between 6" - 16" can be reached depending on the selected shaft configuration.



Options

1. metal separation

permanent- over belt magnet that selects ferrous metal parts

2. hopper extension

a higher volume avoids the dropping of the input material

3. chassis

stationary, wheel axle, track system

4. breaker bar

with and without combs or breaker basket, to produce a smaller end product

5. water sprinkling system

for dust minimisation

6. hydraulic heightadjustment of the discharge belt

for a perfect adjustment of the discharge height for optimizing of the discharge quantity

7. sickle fan

provides additional noise reduction

8. particulate filter

for all diesel machines

9. alternative fuel

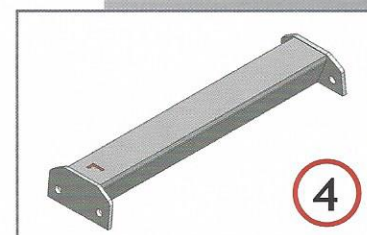
alteration for use of bio-diesel, rapeseed oil, etc.

10. special painting

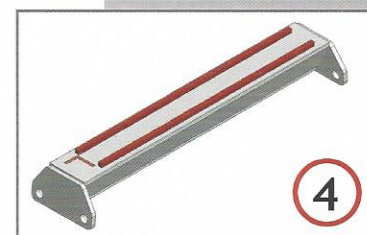
according to your company color

11. stone crusher specification

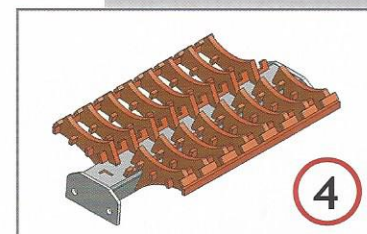
for the shredding of stones and concrete ties



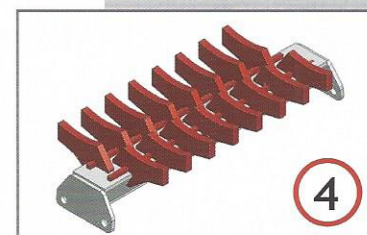
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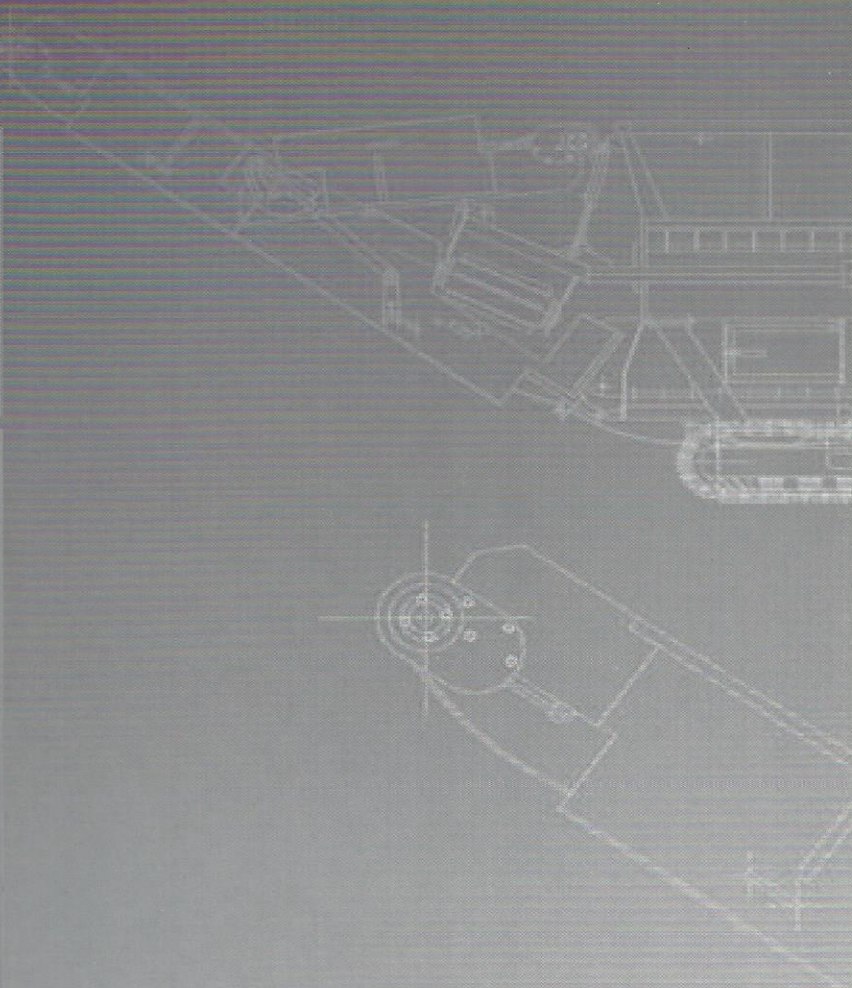


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