

## JCB MIDI EXCAVATOR | 8055



A Product  
of Hard Work

Courtesy of MachineMarket

## The new benchmark in midi excavator performance

Best-in-class performance and comfort. Class-leading controllability. The best service rating of any comparable machine on the market. The JCB Midi 8055 is quite simply a superb machine, so no wonder the accolades keep coming.

Replacing the 8052, the 8055 now shares class-leading features of the 8045 and 8060 and is available as Reduced Tailswing (RTS, 55mm Tailswing) or Zero Tailswing (ZTS, -15mm Tailswing) models. Both machines offer maximum protection and compact operation for applications and workforce safety in the 5- to 6-tonne sector.

Boasting a new Tier III Isuzu engine, the 8055 delivers superior tearout, tractive effort, dump height and dig depth plus, an all-new cab built for comfort, all-round visibility and day-long productivity, and a rugged, tough design that doesn't compromise on serviceability or functionality.

The machine also features a number of new options to satisfy growing market demand, including air conditioning and proportional, low-flow and high-flow hydraulics for more precise control of attachments. New standard features include greater tracking speeds and tearouts for even greater productivity, and auto kickdown track motors for ease of operation in changing ground conditions.

Add incredible versatility, with a huge range of JCB attachments to choose from, and you have the perfect compact performer for plant hire, construction, waste, highways, utilities . . . you name it.

# THE MIDI EXCAVATOR





# THAT'S IN A CLASS OF ITS OWN



A Product  
of Hard Work

Courtesy of [Machine.Market](#)

# FAST FACTS

- Tier III Isuzu engine delivers best-in-class performance
- Reduced tailswing or zero tailswing design gives machine and workforce protection on site, and additional stability for lifting applications
- Superior tearout forces, tractive effort, dump height and dig depth equal greater productivity
- For regular maintenance, service access points are grouped together and a remote access panel makes daily checks quick and easy
- Single-acting (optional double-acting) auxiliary pipework to the dipper lets you power attachments



## Excellent productivity, serviceability and versatility

Best-in-class performance puts the JCB Midi 8055 at the head of the pack when it comes to productivity.

A brand new Tier III Isuzu 35.9kW (48.1 hp) engine delivers impressive power that is transferred into efficient and effective digging and tracking performance via the load-sensing hydraulic system.

The JCB 8055 manages to combine impressive tearout forces, and high levels of tractive effort and tracking speeds, with superior dump height (4.106m) and dig depth (3.8m). Plus, it offers either reduced or zero tailswing, cutting down on the risk of damaging the machine in restricted-space sites. The kingpost design further enhances performance in confined spaces and gives the added benefit of protection for dipper, bucket and auxiliary hoses.

The two-speed track motors and electronic throttle control gives you real power; while the upgraded Nachi track motors improve track speed (2.7 – 5.1 km/h) and spin-turn performance. The 8055 also features auto kickdown, which automatically senses pressure increase when you select a high speed, and changes down to a lower gear. As soon as the pressure decreases again, the system automatically changes back up to high speed. It makes operating this machine in varied terrains much easier and more productive. Add a track length and width of 2516mm x 2000mm, and you've got excellent

all-round stability, mobility through tracking power and speed for all environments.

But the 8055 isn't just noted for its excavating and in-line tracking performance. The improved serviceability is also excellent. For regular maintenance, service access points have been grouped together and a remote access panel makes daily checks quick, easy and accessible. Plus, a durable removable floor plate also improves access to hoses below the cab.

As you would expect from JCB this is a highly versatile machine. Single-acting auxiliary pipework to the dipper lets you power breaker attachments, while optional double-acting pipework lets you switch between single and double, for when you need to power earth drills, for example. The machine is also compatible with a full range of JCB attachments for specific applications.











# Class-leading comfort, quality and controllability

Along with best-in-class performance comes best-in-class comfort and class-leading controllability. It all adds up to a machine that is easy to use for day-long productivity, and an excellent investment with a high resale value.

The operator environment on the JCB Midi 8055 is very spacious, particularly for a reduced or zero tailswing model. You can fully adjust the seating position to suit your needs, and optional air conditioning lets you achieve the optimum working conditions. The whole cab is isolated from slew for minimum vibration and comprehensive sound proofing results in low noise levels. And, with an ergonomic control layout and increased servo control, the 8055 is also extremely easy to use.



This machine is as much about safety as it is about performance and comfort, so you'll find all-round visibility is excellent. You can see the whole of the left track and to the right, a sloped side-engine cover also results in a good view of the track. The hoses are routed on top of the boom rather than down the side, again to improve the view, and the large front screen gives a clear view of the load up to dump height.

Moving on to controllability, the 8055 load-sensed, flow-on-demand hydraulics offer straight-line tracking. This gives precise control when positioning next to obstacles or loading/unloading, by allowing safe travel without veering off when a service is operated. The system also automatically controls flow and pressure, providing hydraulic oil to a service only when required, so the engine is never overworked and you save on fuel. An electronic throttle control with auto idle function also improves fuel economy and ease of use, while pilot op track servo hydraulic controls improve controllability further.

Finally, as with all JCB machines, the build quality of the 8055 is second to none, with a robust undercarriage and superstructure designed for maximum reliability and minimum downtime. This machine also offers the best servicing rating of any comparable machine on the market, making cost of ownership incredibly low.

## FAST FACTS

- Spacious, comfortable cab with low noise and vibration, and optional air con, gives day-long productivity
- Superb visibility to both tracks and of the load up to dump height enhances safety
- Straight-line tracking lets you easily operate the excavator while traveling
- Ergonomic layout and increased servo control make the machine easy to operate
- Best service rating of any comparable machine equals low cost of ownership



# 8055 MACHINE

## CAB AND CONTROLS

- All-round visibility
- Convenient front window opening
- Excellent styling and space
- Reduced sound and vibration for the operator
- Certified to ROPS and TOPS safety standard

## SERVICE ACCESS

- Grouped access to routine checks and fills
- Fewer hydraulic joints for fewer potential leaks
- Easy access to major service tasks
- 500-hour service intervals

## ENGINE AND HYDRAULICS

- Powerful Isuzu Tier III engine
- Large diesel tank for uninterrupted day's work
- Improved hydraulic pressures for optimum power and performance
- Hydraulic flows and pressures to power a range of JCB attachments
- An array of auxiliary options to suit the needs of all applications





# WALKAROUND



## BOOM, DIPPER AND BUCKET

- Strong boom provides excellent operator visibility and strength
- Excellent dig envelope
- Hoses routed neatly for improved visibility and protection
- Boom reaches further back increasing load-over height
- Impressive break-out forces for this class of machine
- Wrap-around design for a more robust dipper

## UNDERCARRIAGE

- Superb tractive effort
- Strong, rigid dozer blades fitted as standard
- Nachi track auto-kickdown track motors
- 2-speed tracking as standard

## TRACKS

- Continuous Avon rubber tracks fitted as standard
- Steel tracks available
- Easy change from rubber tracks to steel
- Top and bottom roller guides
- Fully protected hydrostatic track motors
- Electronic throttle control
- Excellent dozer performance



## JCB MIDI EXCAVATOR | 8055 (RTS/ZTS)

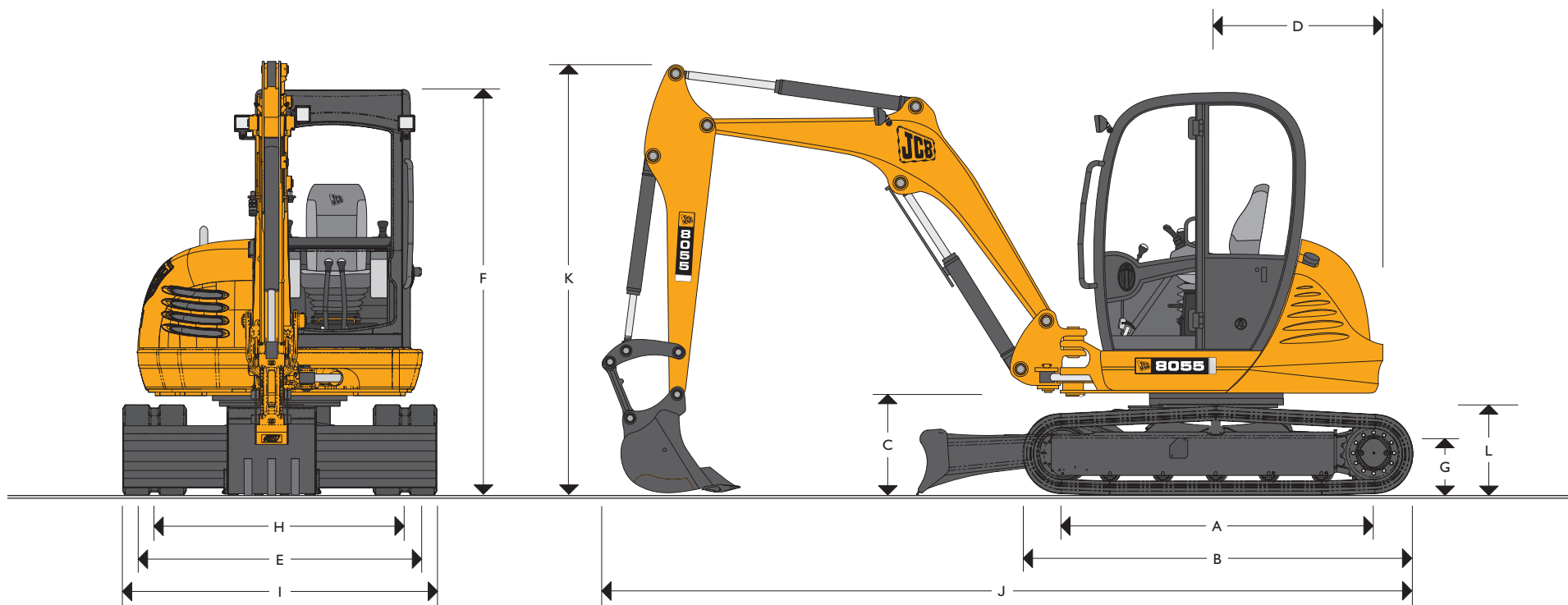


OPERATING WEIGHT:

RTS – 5300 kg (11660 lbs), ZTS (excluding counterweight)– 4995kg (11012lbs)

NETT ENGINE POWER:

34.1 kW (45.7 hp)



### STATIC DIMENSIONS

Machine model	8055
	mm (ft-in)
A Sprocket idler centres – rubber	1991 (6-6)
Sprocket idler centres – steel	2006 (6-7)
B Undercarriage overall length – rubber	2516 (8-3)
Undercarriage overall length – steel	2531 (8-4)
C Kingpost clearance	682 (2-3)
D Tailswing radius	1055 (3-5)
E Overall width of superstructure	1800 (5-11)

Machine model	8055
	mm (ft-in)
F Height over cab	2563 (8-5)
G Ground clearance	340 (1-1)
H Track gauge	1600 (5-3)
I Width over tracks	2000 (6-7)
J Transport length with standard dipper	5153 (16-11)
K Transport height	2758 (9-1)
L Track height	650 (2-2)

A Product  
of Hard Work





# JCB MIDI EXCAVATOR | 8055 (RTS/ZTS)



## ENGINE

Machine Model	8055	
Model	Isuzu 4LE-1NA Tier III	
Fuel	Diesel	
Cooling	Water Cooled	
Gross power	kW (hp) @ 2600 rpm	35.9 (48.1)
Net power	kW (hp) @ 2600 rpm	34.1 (45.7)
Gross torque	Nm (lbf ft) @ 1800 rpm	140 (103)
Net torque	Nm (lbf ft) @ 1800 rpm	134.4 (99.1)
Displacement	cc	2179
Gradeability	degrees	35
Battery	volt/amps	12 / 75Ah
Alternator	amps	80 (120)

## UNDERCARRIAGE

Machine model	8055	
No of bottom rollers (per side)	5	
Track width	mm (in)	400 (15¾)
Ground bearing pressure	kg/cm² (psi)	0.333 (4.73)
Ground clearance	mm (in)	340 (1-1)
Track tensioning	Grease	
Travel speed – low	kph (mph)	2.7 (1.7)
Travel speed – high	kph (mph)	5.1 (3.2)
Tractive effort	kN (lbf)	60.7 (13645.9)

## HYDRAULIC SYSTEM

Machine Model	8055	
Pump	63cc	
Nominal output (@ rated)	lpm	163
Nominal output	US gal/min	43
Excavator/track main relief	bar (psi)	250 (3626)
Slew main relief	bar (psi)	220 (3191)
Auxiliary hydraulic flow	litres (US gal)	90 (23.8)
Auxiliary low flow	litres (US gal)	25 (6.6)
Auxiliary high flow	litres (US gal)	140 (37)
Hydraulic motors	Piston	



## JCB MIDI EXCAVATOR | 8055 (RTS/ZTS)



### OPERATOR ENVIRONMENT

		External	Internal
Cab/canopy height with FOGS guard	mm (ft-in)	2563 (8-5)	1550 (5-1)
Cab/canopy height no FOGS guard	mm (ft-in)	2575 (8-5¼)	1550 (5-1)
Cab height with air conditioning	mm (ft-in)	2706 (8-10½)	1550 (5-1)
Cab height no air conditioning	mm (ft-in)	2575 (8-5¼)	1550 (5-1)
Cab/canopy length	mm (ft-in)	1328 (4-4)	1187 (3-11)
Cab/canopy width	mm (ft-in)	980 (3-2½)	933 (3-1)
Distance from seat base to roof	mm (ft-in)	1570 (5-2)	1570 (5-2)
Door aperture width	mm (ft-in)	564 (1-10)	564 (1-10)

### SERVICE CAPACITIES

Machine model		8055
Fuel tank	litres (US Gal)	68 (18)
Engine coolant	litres (US Gal)	13.5 (3.56)
Engine oil	litres (US Gal)	9 (2.3)
Hydraulic system	litres (US Gal)	98 (25.88)
Hydraulic tank	litres (US Gal)	55 (14.52)

### MACHINE WEIGHTS

Machine model		8055
Operating weight*	kg (lb)	5300 (11660)
Transport weight	kg (lb)	5225 (11495)
With canopy	kg (lb)	-80.0 (-176.0)
With FOGS guard	kg (lb)	+25 (+55)

\*Operating weight to ISO 6016 including cab, rubber tracks, standard dipper, 460mm (18in) bucket, full tanks and a 75kg (165lb) operator.

### DOZER BLADE

Machine model		8055
Max height (above ground)	mm (ft-in)	432 (1-5)
Dig depth (below ground)	mm (ft-in)	553 (1-9¾)
Approach angle	degrees	27.5
Width	mm (ft-in)	2020 (6-7½)
Height	mm (ft-in)	411 (1-4)
Reach in front of tracks	mm (ft-in)	721.4 (2-4½)



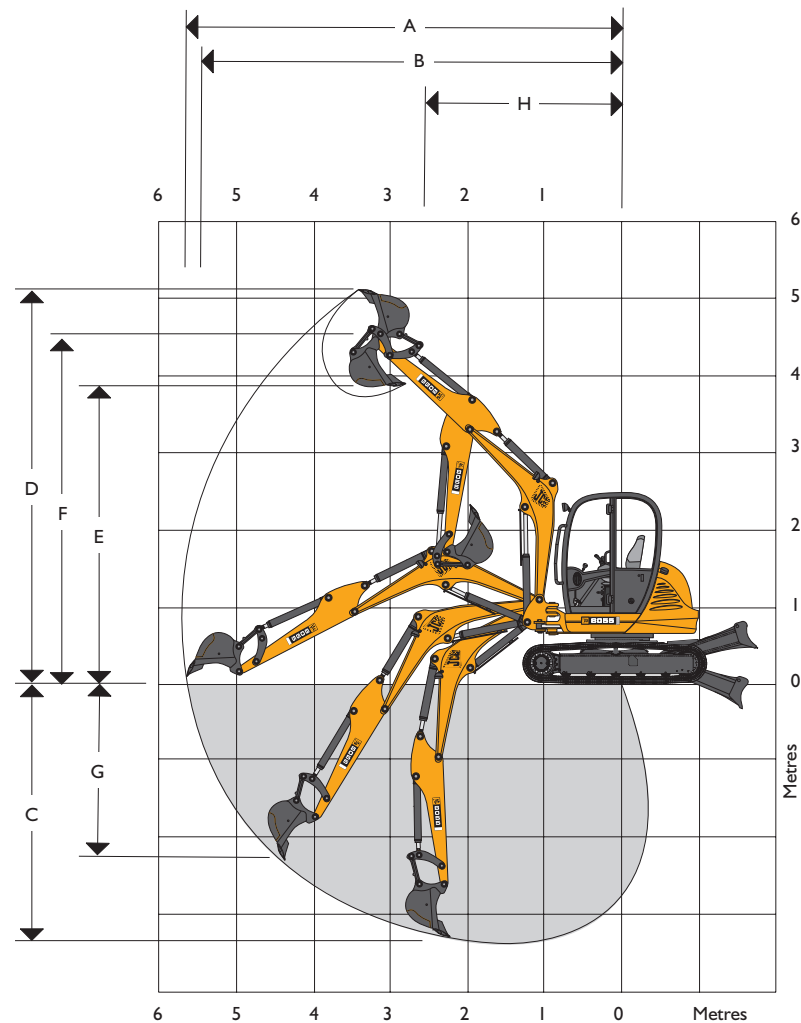
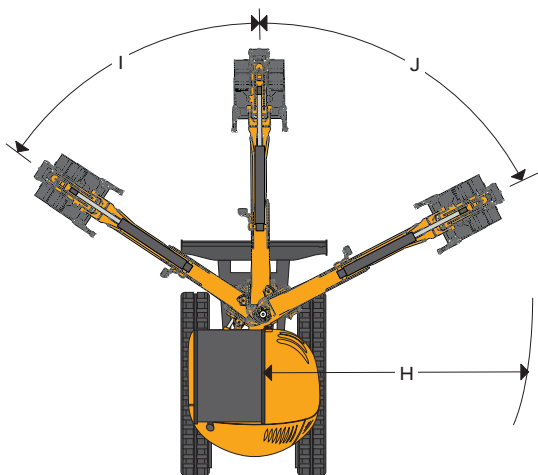


# JCB MIDI EXCAVATOR | 8055 (RTS/ZTS)



## WORKING RANGE

Machine model		8055
<b>Dipper length</b>		<b>1900 (6-3)</b>
<b>A</b> Max digging reach	mm (ft-in)	6050 (19-10)
<b>B</b> Max digging reach on ground	mm (ft-in)	5933 (19-6)
<b>C</b> Max digging depth – dozer up	mm (ft-in)	3760 (12-4)
<b>C</b> Max digging depth – dozer down	mm (ft-in)	3956 (12-11 1/2)
<b>D</b> Max digging height	mm (ft-in)	5525 (18-1)
<b>E</b> Max dump height	mm (ft-in)	4106 (13-6)
<b>F</b> Max height to dipper nose pivot pin	mm (ft-in)	4787 (15-8)
<b>G</b> Max vertical wallcut depth	mm (ft-in)	2705 (8-11)
<b>H</b> Min. front swing radius (no offset)	mm (ft-in)	2891 (9-6)
<b>H</b> Min. front swing radius (fully offset)	mm (ft-in)	2186 (7-2)
<b>I</b> Boom swing left	degrees	60
<b>J</b> Boom swing right	degrees	65
Bucket rotation	degrees	197
Dipper rotation	degrees	126
Bucket tearout	kN (lbf)	42.2 (9486.9)
Dipper tearout	kN (lbf)	27.8 (6249.7)
Slew speed	rpm	10



# JCB attachments



## HAMMERMASTER

- Sealed-for-life accumulator for minimum maintenance
- Solid body protects the power cell and aids sound reduction
- Oval double tool retainers reduces tool rotation and extend tool and bush life
- Large diameter tool of 65mm offers higher tolerance to side stresses and better transfer of blow energy
- Supplied complete and ready to use



## QUICKHITCH

- Proven reliability – heavy-duty casting
- Ready to use, supplied with one set of bucket pins
- Manual version
- Off pins



## AUGER

- Accurate ground removal, minimal reinstatement
- Compact design with 50mm hex output shaft
- All hydraulic components are well protected
- High torque rating for better performance
- Full range of flights: standard, heavy and rock duty
- Replaceable wear-part system



## KERBMASTER

- Designed for accurate and safe placement of kerb edges
- Incorporates hose-burst check valve for operator safety
- Heavy-duty nylon face plate and nylon rollers eliminate damage to the kerb stone faces
- Available with manual or full hydraulic rotation
- Reduces health risks associated with manual handling



## BUCKETS

- Complete range including off-pin and dedicated buckets: general purpose, ditching/grading
- Range of widths and duty to suit most applications
- Designed to maximise machine productivity
- Replaceable wear-part system



# The best back-up in the business

## Always on hand to help

You demand more from your machines than ever before: more efficiency, more reliability, more performance. That's why superb product support has never been so vital.



Together with our extensive dealer network, at JCB we're as innovative and forward-thinking when it comes to customer care as we are in machine development. Our product support and after-sales service have one aim: to give you peace of mind.

The care and quality we offer is exceptional. All servicing is carried out by the best, factory-trained JCB engineers. Using the internet to pass vital information between on-site service personnel and our product support engineers, these professionals always have specialist information at their fingertips, so they can get you up and running again, faster.

## Protect your machine and your cashflow

Everyone has individual needs and preferences. So we offer a range of service options all designed to help you cope with the unexpected and minimise costly downtime. Whether it's additional breakdown cover, an all-inclusive scheduled service programme, or servicing, we've got the best service option for you.



## Finance packages, tailored to your needs

With ever-growing pressures on cashflows, the finance options available through JCB can provide a vital lifeline. Backed by JCB Finance, who can provide tax-efficient and cost-effective finance solutions, designed and tailored specifically to your needs.

## Trust the genuine article

JCB parts are renowned worldwide for performance, reliability and safety. With replacement parts, we supply only the genuine

article, helping to safeguard the impressive residual values that you can expect in years to come.

As well as large stocks of parts engineered specifically for your machine, your JCB dealer also holds an extensive range of JCB: Filters, Lubricants, Grease, Wearparts, Tyres, Rubber Tracks and Service Exchange Components all manufactured to the same exacting standards. Your requirements can usually be supplied immediately by our dealers, but where this is not possible they can be ordered through the direct computer link between your dealer and JCB Service and processed through our impressive automated World Parts Centre warehouse. Despatch is normally the same day either to you or the dealer.

**Whether we're providing you with support, parts or finance, we aim for 100% satisfaction. It's all part of our promise to put you, the customer, first.**





**A Product  
of Hard Work**

JCB Sales Limited, Rocester, Staffordshire ST14 5JP. Tel: 01889 590312. Fax: 01889 590588. Web: <http://www.jcb.com>

©2008 JCB Sales. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any other means, electronic, mechanical, photocopying or otherwise, without prior permission from JCB Service.

JCB reserves the right to change specifications without notice. Illustrations & specifications shown may include optional equipment and accessories. The JCB logo is a registered trademark of J C Bamford Excavators Ltd.

Printed in the UK on paper made from sustainable forests. The pulp used in the manufacture of this paper is made from renewable timber produced on a fully sustainable basis, and is bleached without the use of chlorine gas (ECF – Elemental Chlorine Free). This paper is suitable for recycling.

9999/5381 6/08 Issue 1

*Courtesy of Machine.Market*