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CUTTING STATION
CUT TO THE CHASE

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CUT TO THE CHASE

Product code	30ASS7
Internal dimensions	Top (with extended back): 1125x955x1000mm Bottom: 1125x710x550mm
External dimensions (including protrusions)	Standard: 1390x780x1900mm Extended: 3225x1090x1900mm
Weight (kg)	175
Colour	Charcoal grey; RAL-7021, Pillar box red; RAL-3020
Finished Coating	Powder Coat Steel
Material	Steel
Material Thickness	1.5mm
Locking mechanism	Highly Secure, keyed alike 5-Lever Deadlock
Does it have Forklift Skids?	Yes
Does it have Gas Arms?	No
Safety stay	No
Quantity of keys supplied	2 keys
Optional Extras Available	SS7X, SS7C, CLEK
Quantity of Shelves as standard	0
Are Castors standard or optional extra	Standard - heavy duty
How are the Castors fitted?	Quick-fix bolt on Castor kit. Extra Heavy-duty Castors using Armorgard castor plates.
Fire resistant?	Yes - fire resistant foam

FEATURES:

- A multi-purpose cutting platform, with a secure cabinet beneath the workbench area
- Recessed 240V inlet power supply
- 2 x 110V internal sockets
- Extendable support arms with 4 configurations
- Heavy-duty all-swivel wheels for easy moving
- Extendable back panel provides extra workspace for mitre saws
- Sound deadening fire-rated foam to reduce noise pollution
- Rubber mat to reduce vibration
- European Patent Application Number EP17183824.6
- European Community Design Registration Number 004511525

PRACTICAL METHODS FOR REDUCING CUTTING NOISE LEVELS

Partnered with a power tool manufacturer and with a noise testing expert from construction product distributor VJ Technology to look at practical options for reducing noise when cutting metal. In this instance the test will be carried out on M10 studding and 41 mm galvanised steel U-channel.

The reference condition was a Makita cut-off saw with a standard 78-thooth metal cutting blade mounted on an open bench. This is typical of the arrangement used on site by many Mechanical and Electrical contractors.

Noise levels for around 350 cutting operations were measured at various locations around the cutting tools. Tests were carried out with and without the CuttingStation using different cutting tools and blades.

The CuttingStation was found to significantly reduce noise emissions in all three directions screened by the closed sides of the enclosure without increasing the noise exposure to the operator.

Optimising the power tool and blade to suit the task was also beneficial. Using a bandsaw rather than a TCT saw significantly reduced noise exposures by cutting somewhat more slowly, but much more quietly than the TCT saw. Using a higher specification TCT blade was also found to reduce noise exposures mainly by increasing the speed of the cutting operations.

Combining the benefits of the CuttingStation with quieter tools gave some substantial noise level reductions.

As an example, using the CuttingStation with a bandsaw rather than a TCT saw when cutting channel gave a 19 dB(A) noise reduction at 1 metre from the tool on the (closed) side opposite the tool the operator.

The measured noise level at this location decreased from 97.1 dB(A) to 77.9 dB(A). This would increase the time to reach the 80 dB(A) daily Lower Noise Exposure Action Value (LEAV) given in the Control of Noise at Work Regulations from under ten minutes to more than eight hours of continuous operation.

Note: The tables below show some of the individual measurements taken. Noise levels were recorded consecutively at each location and averaged over three cuts carried out quickly one after the other. The overall findings reported in the conclusions are based on non-parametric statistical analysis of all measurements taken.

NOISE LEVEL RESULTS

		Channel - TCT Saw	Channel - Band Saw	Stud - TCT Saw	Stud - Band Saw
OPEN BENCH	FRONT	00:15	02:39	02:34	05:00
	SIDE	00:13	01:08	01:01	01:14
	BACK	00:09	00:43	01:52	03:02
CUTTING STATION	FRONT	00:12	02:33	03:24	06:48
	SIDE	01:33	03:24	05:21	>8hr
	BACK	02:12	>8hr	>8hr	>24hr
DIFFERENCE	FRONT	-00:03	-00:16	00:50	01:48
	SIDE	01:20	02:16	04:20	>8hr
	BACK	02:03	>8hr	>8hr	>8hr

Table 1 Increase in time taken to reach the LEAV calculated from measurements taken at 1 metre from the test bench.

		Channel - TCT Saw	Channel - Band Saw	Stud - TCT Saw	Stud - Band Saw
OPEN BENCH	FRONT	00:28	04:09	04:51	>8hr
	SIDE	00:37	02:15	04:03	04:38
	BACK	00:47	01:47	04:57	06:27
CUTTING STATION	FRONT	00:29	03:49	07:08	>8hr
	SIDE	02:08	>8hr	>8hr	07:25
	BACK	02:42	>8hr	>24hr	>24hr
DIFFERENCE	FRONT	00:01	-00:10	02:17	04:21
	SIDE	01:31	>7hr	>8hr	>8hr
	BACK	01:55	>8hr	>8hr	>8hr

Table 2 Increase in time taken to reach the LEAV calculated from measurements taken at 3 metres from the test bench.

NOISE LEVEL RESULTS

Noise in db (A)		Channel - TCT Saw	Channel - Band Saw	Stud - TCT Saw	Stud - Band Saw
OPEN BENCH	FRONT	95.2	84.8	84.9	82.0
	SIDE	95.5	88.5	88.9	88.1
	BACK	97.1	90.4	86.3	84.2
CUTTING STATION	FRONT	96.0	85.3	83.7	80.7
	SIDE	87.1	83.7	81.8	79.5
	BACK	85.6	77.9	75.9	74.5
DIFFERENCE	FRONT	-0.8	-0.5	1.2	1.3
	SIDE	8.4	4.8	7.1	8.6
	BACK	11.5	12.5	10.4	9.7

Table 3 Noise levels measured at 1 metre from the test bench.

Noise in db (A)		Channel - TCT Saw	Channel - Band Saw	Stud - TCT Saw	Stud - Band Saw
OPEN BENCH	FRONT	92.4	82.8	82.2	79.2
	SIDE	91.1	85.5	83.0	82.4
	BACK	90.0	86.5	82.1	80.9
CUTTING STATION	FRONT	92.2	83.2	80.5	77.6
	SIDE	85.7	79.2	76.6	80.3
	BACK	84.7	77.9	74.3	73.6
DIFFERENCE	FRONT	0.2	-0.4	1.7	1.6
	SIDE	5.4	6.3	6.4	2.1
	BACK	5.3	8.6	7.8	7.3

Table 4 Noise levels measured at 3 metres from the test bench.

CONCLUSIONS FROM TESTING

The overall average noise levels when using the Armorgard cutting station was significantly quieter than cutting on an open bench.

The greatest improvements were for locations at the back (closed) side of the CuttingStations.

The noise levels at the operator generally did not decrease, but they did not generally increase either suggesting that the cutting station was successfully absorbing some of the noise rather than simply redirecting it away from the closed sides and towards the operator.

There was no significant reduction in cutting speed when using the Armorgard cabinet compared to the open bench.

The operator preferred the ergonomics of the CuttingStation over the previous design.

Using the CuttingStation, using an improved cutting blade and using an alternative cutting tool were all found to significantly reduce the noise levels in the vicinity of the cutting operation.

For example, using the CuttingStation with a bandsaw rather than a TCT saw on an open bench when cutting channel gave a 19 dB(A) noise reduction at 1metre from the tool.

The CuttingStation substantially increased the times before exposed personnel stood to the side or back of the cutting station would be expected to reach the Lower Exposure Action Value given in the Control of Noise at Work Regulations.

Figure 1: Comparative view of cutting Scenarios.

TECHNICAL SPECIFICATION SHEET

Reference: RX 25/140
Basis: Charcoal ESTUR Foam

Characteristics	Test Method	Spec
Density:	BS EN ISO 845 :2009	23.8-26.3kg/m3
Tensile Strength:	BS EN ISO 1798 :2008	50kPa(Min)
Nominal Hardness	BS EN ISO 2439: Method B 2001	125-155 Newton
Elongation @ Break	BS EN ISO 1798 :2008	90% (min)
Compression Set (dry)	BS EN ISO 1856 :2001	15% (Max)
*Classification	BS 3379 :2005	A

The Foam Complies with the furniture and furnishings (fire) (safety) regulations, 1988 S.I No 1324 schedule 1 part 1, (AMD 1989, AMD 1993 & 2010) The foam complies with horizontal burning foamed material UL94 HF1.
**The Fatigue Classification is based on BS3379 using BS EN ISO 3385 test method except where the waiting time after fatigue is 6 hours as recommended by the BPF note: the classification claimed is based on in house test results. *This information is based on our knowledge and test results. Values should be considered as an average, customers should check that the material is suitable for their applications. Results may vary dependent upon the conditions they are used in and recommendations are made without warranty or guarantee.*

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FLAMMABILITY TEST REPORT

Report No.: LEHTX00805029 **Date Received:** 26/03/15 **Date Tested:** 09/04/15 **Date Issued:** 10/04/15

Company Name & Address: CARPENTER LTD.
DINTING LODGE IND. EST.
GLOSSOP
DERBYSHIRE
SK13 6LE

Contact Name: DR. LISA EASOM

Sample Details
Order No.: 4570657170
Description: RX25140
Batch No.: 6864
Sample Description: 4 Blocks of polyurethane foam

Test Method	Pre Treatment	Flammability Performance Requirements	Result
BS 5852: Part 2: 1982, Ignition source 5 (Crib 5) as modified by Schedule 1 Part 1 of the Furniture & Furnishings (Fire) (Safety) Regulations 1988 (As Amended).	None	As Schedule 1 Part 1 (Ignition test for polyurethane foam in slab or cushion form) of The Furniture and Furnishings (fire) (safety) Regulations 1988 (as amended).	**Complies**

~~STEVEN OWEN~~	ANDREW HALLETT	~~CAROLE SPOWART~~	~~SIMON CHEE~~
~~(Chemical Technologist)~~	(Flammability Team Leader)	~~(Flammability Technician)~~	~~(Operations Manager)~~

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FLAMMABILITY TEST REPORT

Filling Specification

Filling Type:	Polyurethane Foam
Density / Hardness:	Not stated / Not stated
Cover Fabric:	Standard test fabric as detailed in Schedule 1 Part 1 of The Furniture (Fire) (Safety) Regulations 1988 (as amended).

Conditioning

Prior to Testing:	At least 72 hours in ambient indoor conditions, then at least 16 hours in an atmosphere having a temperature of 20±5°C and a relative humidity of 50±20%
At Time of Testing:	Temperature between 15°C & 30°C. Relative humidity between 20% & 70%

Test Results

"The following test results relate only to the ignitability of the combination of upholstery composites under the particular conditions of test; they are not intended as a means of assessing the fully potential fire hazard of the materials in use."

Pass / Fail Criteria	**Initial test**		**Repeat test**	
Progressive smouldering failure				
Externally detectable amounts of smoke, heat or glowing 60 min after crib ignition	No		No	
Escalating smouldering behaviour rendered the test unsafe to continue and required forcible extinction	No		No	
Smouldering essentially consumed the test specimen within the duration of the test	No		No	
Flaming failure				
The test specimen continued to flame for more than 10 minutes after the ignition of the crib	No		No	
Escalating combustion behaviour rendered the test unsafe to continue and required forcible extinction	No		No	
Flaming essentially consumed the test specimen within the duration of the test	No		No	
Final examination				
Progressive smouldering was observed when the sample was dismantled	No		No	
Comments				
Time to extinction of flames after crib ignition	3 Minutes 31 Seconds		4 Minutes 04 Seconds	
Time to extinction of glowing after crib ignition	Due to the position of the crib within the test specimen it was not possible to see when glowing ceased		Due to the position of the crib within the test specimen it was not possible to see when glowing ceased	
Time to extinction of smoke after crib ignition	Due to the amount of smoke in the test enclosure it was not possible to see when smoking ceased		Due to the amount of smoke in the test enclosure it was not possible to see when smoking ceased	
Maximum extent of damage to back (mm) Length / Width	400	150	400	185
Maximum extent of damage to base (mm) Length / Width	115	195	140	230
The resultant mass loss exceeded 60g	No (39g)		No (49g)	
Test Result	**PASS**		**PASS**	

Conclusions

The sample tested meets the requirements of Schedule 1 Part 1 (Ignition test for polyurethane foam in slab or cushion form) of The Furniture and Furnishings (fire) (safety) Regulations 1988 (as amended). **PASS.**

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