THE PROGRAM OF APPLIANCES FOR DISABLED PEOPLE (PADP)

Organisation:

Independent Rehabilitation Suppliers Association of NSW

Name:

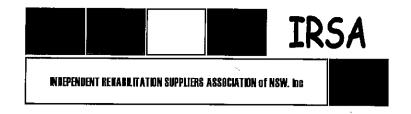
Mr Chris Sparks

Position:

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3/09/2008



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2nd September 2008

Ms Beverly Duffy
Director
General Purpose Standing Committee Number 2
Parliament House
Macquarie Street
SYDNEY NSW 2000

Dear Ms Duffy,

Following please find a submission from the Independent Rehab Suppliers Association of NSW (IRSA) for the Legislative Council's inquiry into the Program of Appliances for Disabled People.

This submission has been authorised by IRSA's Executive Management Committee comprising -

Greg Kline (President)
 Malcolm Turnbull (Vice-President)
 Terry Gallagher (Secretary/Treasurer)

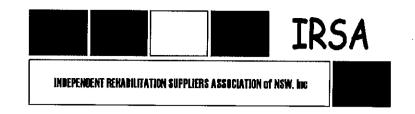
As Executive Officer, I would welcome the opportunity to provide further evidence to the Inquiry by way of interview. I have more than 20 years experience in the supply of equipment for people with disabilities and the elderly and am myself a wheelchair user.

Thank you for committing the time to inquire into this critical public issue and please contact me if I can be of assistance in any way.

Yours sincerely,

Chris Sparks Executive Officer

encl



Independent Rehabilitation Suppliers Association of NSW

September 2008

Submission to

NSW Legislative Council Inquiry Program of Appliances for Disabled People (PADP)

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1. Executive Summary

Suppliers of equipment for people with disabilities and the elderly play a pivotal role in the entire equipment supply process yet are seldom consulted when it comes to developing Government policies and processes regarding schemes such as PADP. This was the case in the NSW Government's 2006 PADP Review undertaken by PricewaterhouseCoopers. The Independent Rehabilitation Suppliers Association of NSW (IRSA) is now the largest organisation of its type representing the views and aspirations of equipment suppliers.

The NSW PADP scheme is of great importance to IRSA members, who would provide the majority of non-consumable equipment funded by the program.

The goals of IRSA members are closely aligned to the goals of individuals with a disability, the elderly and their caregivers. A competitive, ethical, energetic and viable industry is essential to deliver the high service levels required by therapists and end users who rely on a range of equipment for their daily living.

IRSA's members believe there are a range of initiatives that need to be implemented to improve end user outcomes, reduce cost to Government and increase the viability of our industry. This submission makes a number of important recommendations in regard to client assessment, equipment trials, payment of invoices, sole supplier contracts, equipment service and maintenance etc. These recommendations demonstrate our willingness to work with all stakeholders to deliver a better PADP scheme.

- There is approximately \$4,000,000 per annum to be saved by Government and business in moving to a pre-approved funding model and by reforming the client assessment and re-assessment process.
- It is estimated that overdue PADP payments cost business more than \$1,200,000 annually in interest and recovery costs.
- EnableNSW must ensure PADP policies and practices are commercially realistic,
 considering the high service levels required by therapists and end users.
- Sole supplier contracts must be carefully constructed to ensure service levels are maintained and costs do not escalate as has been the case in other States.

- Special consideration has to be given to suppliers in rural and remote areas to support
 their viability so they can continue to service people with disabilities and the elderly
 who live outside the major metropolitan centres.
- Equipment servicing and maintenance needs to be given greater focus to ensure cost effectiveness and the safety of end users and care givers.

The viability of our industry is under threat from rising business costs, demands for higher service levels, increased compliance/red tape and poor payment practices of some Government agencies. The fallout of business failures in our industry sector will have a devastating impact on the lives of those will disabilities and the elderly who depend on our products and services. It is incumbent upon Government at every level to ensure they conduct themselves so as to stimulate and support our industry whilst achieving best value for the public dollar.

IRSA's members appreciate the opportunity to be heard at the Legislative Council's inquiry and are committed to working with the NSW Government and other keys groups to ensure a better PADP system.

2. Introduction to IRSA

IRSA was established in August 2000 to represent the interests of businesses who compete in the non-pharmaceutical sectors of the Australian healthcare industry.

Our members manufacture, import, distribute, supply, service and hire a broad range of equipment for people with disabilities and the elderly such as –

- Manual mobility aids (wheelchairs, walking frames, crutches and rollators)
- Powered mobility aids (electric wheelchairs and scooters)
- Patient lifters
- Electric beds
- Lift up chairs
- Pressure sore prevention cushions and mattresses
- Postural aids
- Respiratory products (home oxygen concentrators, aerosol compressors and nebulisers)
- CPAPs and related sleep products
- Daily living aids

IRSA member companies range from small, family owned businesses to large multi-national corporations.

IRSA and its members are also pivotal to the training and education of occupational therapists and others involved in assessing people with disabilities and specifying equipment to address their needs.

IRSA's objectives are -

- 1. To give our industry a voice that...
 - * Has a positive influence on Government policy via a representative, unified approach
 - * Educates Governments and other stakeholders about our industry
 - * Promotes a robust, competitive and commercially viable marketplace

- 2. To improve the quality of equipment provision by...
 - * Supporting the ongoing training and education of therapists and prescribers
 - * Promoting ethical business practices that safeguard the interests of the end user
 - * Participating in the development of appropriate and cost effective product standards
- 3. To develop alliances with all relevant stakeholders to...
 - * Drive continued improvement in outcomes for end users
 - * Minimise the total lifetime costs of equipment
 - * Ensure an open, fair and competitive market

IRSA is a not for profit industry association and is proud to be a member of the NSW Physical Disabilities Council.

3. 2006 PADP Review

The NSW Government's review of PADP presented in June 2006 by PricewaterhouseCoopers (PWC) has formed the foundation of the changes currently being undertaken to improve PADP.

Although the review makes multiple references to consultations with equipment suppliers, IRSA has not been able to find any supplier that was interviewed by PWC. Several IRSA members contacted PWC seeking to make a submission however they did not receive a response. As such we believe that the review was significantly flawed as it failed to take into account the concerns of equipment suppliers who are a major stakeholder in the provision of aids and appliances.

There are some specific excerpts from the review that should be noted -

- 6.1.1 The financial cost of the PADP scheme (page 89) Table 31 highlights the fact Assessment Costs (\$22.4M) are almost half of the total cost to Government of the PADP scheme. However none of the recommendations provided by PWC target potential cost savings in this area. Assessment costs are significant for equipment suppliers and could well be in excess of the Government's cost.
- Re-assessments (page 96) The Review states that
 "Re-assessments required as a result of PADP waiting lists consume approximately 68

 hours per assessor at a cost of almost \$2,000 per assessor."

 If this figure is multiplied by the 403 FTE assessors (Table 34 on page 94) almost

 \$1,000,000 is wasted annually on re-assessing clients' needs due to funding delays.

 IRSA members believe that each re-assessment costs the equipment supplier between

 \$250 and \$600 and significantly adds to the frustration on the client. It is not

 uncommon for a supplier to be asked to re-assess a client some 18-36 months later

 during which time not only have the client's needs changed but the equipment that was

 originally selected may no longer be available or be superseded. Inevitably pricing will

 have changed necessitating re-quoting and re-approval. Note the recommendations in

 Section 4 of this submission Client Assessment.
- Recommendation 18 (page 154) This recommendation concerns the establishment of
 a defined equipment list. IRSA members should be consulted as to how such a list will
 be established and maintained to ensure that PADP clients have access to the most

appropriate, affordable and contemporary equipment. Such a list needs to be inherently flexible to take into account new equipment trends and to ensure that equipment is matched to the user, not the user's needs compromised to match the defined equipment list.

Appendices (page 235) – The Review states that -

"There is an issue with suppliers not knowing the functions of their own equipment.

Prescribers should not seek advice from manufacturers as the prescription needs to be an independent decision."

Our experience suggests that the opposite is true and that it is the equipment manufacturers and suppliers who have the specialist knowledge of equipment and its appropriate application. Excluding suppliers/manufacturers from the prescription process would dramatically increase the number of inappropriate prescriptions. Appendix A4 is an example of a specification/prescription form for complex rehab equipment.

IRSA has recently established the IRSA Professional Series which provides multi-level development and education to therapists in relation to client assessment and equipment prescription. It has become obvious at these events that the suppliers' knowledge is significantly ahead of the majority of therapists.

RECOMMENDATIONS:

- That IRSA is included in any process and ongoing procedures that establish and maintain the defined equipment list.
- The NSW Department of Health collaborate with IRSA and provide support to the IRSA Professional Series to facilitate improved education and up-skilling of therapists.

4. Client Assessment

IRSA members play a major role in assessing an individual client's needs and configuring a specific and often complex equipment solution that provides the best possible outcome for the client. This process requires extensive knowledge and experience and its takes most people some years of on the job training to become proficient.

IRSA members estimate that it costs on average between \$300-\$700 to perform a detailed client assessment including travel time and administration. When PADP insists on 3 quotations to be submitted per client, the cost to industry escalates to \$900-\$2,100 per assessment with no guarantee to any supplier of eventually receiving an order.

It is important to note that these client assessments are generally performed before PADP funding has been approved for the client. The funding approval can then take from a month to 2 or more years. It is common for IRSA members to receive an order for an assessment that was done more than 18 months earlier.

When such a delay in funding approval occurs, the client inevitably needs to be reassessed adding more cost to the equipment supply process. Over this time the originally recommended equipment may no longer be available, pricing could change and of course the client's needs could well have changed.

One IRSA member who specialises in complex rehab equipment reports -

 "Of the last 100 orders we received from PADP, the average was 144 days from quoting. Of that 100, 50 were at an average of 248 days. Basically anything over 3 months that is not a standard item we would reassess. So probably 40-50% of these quotes would at least require a follow up to full reassessment."

The PWC review into PADP suggests that reassessments cost the NSW Government nearly \$1,000,000 annually. IRSA believes the real figure is significantly higher than this and that in addition the cost to industry is between \$2,500,000 and \$3,500,000 per annum.

EnableNSW has embraced the concept of funding pre-approval however to date no significant progress has been made to implement such a program.

- PADP must transition to a pre-approved funding model saving Government and business more than \$4,000,000 annually.
- Suppliers should be allowed to charge a reasonable fee for performing reassessments.

 EnableNSW should establish a working committee including all stakeholders to examine the high costs of client assessment and recommend strategies that will help minimise these costs.

5. Equipment Trials

As part of the assessment process, IRSA members and other suppliers are expected to provide equipment for trial by the clients to ensure it is appropriate to their needs. These trials are generally performed free of charge by the suppliers.

There has been increasing pressure on suppliers to provide equipment for extended trials and this will add further cost to the assessment process. For example, a complex electric wheelchair and seating system may cost in excess of \$15,000 and require several hours of setup and customisation before the trial takes place (refer Appendix A3). It is commercially unsustainable to have such pieces of equipment out on extended trials.

Aside from the trial process, suppliers also provide long term loan equipment to institutions, assessment centre and the Independent Living Centre.

To undertake an equipment trial and prepare a detailed specification typically takes from 2 to 10 hours depending upon the complexity of the client's needs and the travel time to attend the consultation (refer Appendix 4 for a typical complex specification). The supplier then provides the therapist and/or PADP with detailed specifications and quotations.

Some PADP offices then use these specifications and quotations to go "quote shopping" to other suppliers (who have not participated in the lengthy assessment process) in an attempt to obtain a lower price. IRSA members have reported instances of being faxed another company's specification/quote with a request to counter quote with a lower price. This completely undermines the assessment/service model and contravenes the intellectual property rights of the suppler who developed the initial specification.

- If the PADP system demands extended equipment trials, suppliers should be permitted to charge a reasonable fee for setup, delivery and hire of the equipment.
- EnableNSW must strictly prohibit the practice of "quote shopping" for equipment where a detailed client assessments has been performed by a supplier.

6. Payment of Invoices

Many of the suppliers that work with PADP are small businesses who operate on a very lean basis with frequent cash flow pressures. The often slow processing and payment of invoices by PADP adds significant costs to the proprietors of these businesses with increased finance and overdraft charges.

In April 2008 IRSA had to contact the NSW Department of Health's Finance Director on behalf of a member who was owed more than \$400,000 by various PADP offices of which some \$270,000 was well passed due. With the assistance of the Finance Director, payment was received promptly. Unfortunately this scenario was repeated in August 2008 and this time value of outstanding invoices was even higher.

Suppliers are often unable to finalise equipment delivery due to factors that are outside of their control such as —

- They are required to deliver to a 3rd party organisation (ie seating clinic) for additional work before the equipment goes to the end user.
- The attending therapist is unavailable for an extended period of time (ie on holiday)
 and delays delivery.
- The end user is in unavailable due to hospitalisation etc.

Instances such as these can delay invoicing and payment for many months on highly customised and often expensive equipment that has been specifically ordered to meet an end user's requirements.

- EnableNSW institute systems and protocols to ensure that suppliers' invoices are paid in full in 30 days.
- Suppliers are entitled to charge a commercially reasonable rate of interest on overdue accounts.
- EnableNSW meet with IRSA to agree fair invoicing practices where final delivery of equipment is outside the suppliers' control.

7. Sole Supplier Contracts

Governments throughout Australia legitimately attempt to obtain the best value for their expenditure of public monies. One common method is to utilise public tenders or contracts to force suppliers to submit their lowest price to win the business on an exclusive or semi-exclusive basis. This method although successful in some situations has major risks for people with disabilities through NSW.

Suppliers to PADP generally have to provide very high levels of service based on years of experience and knowledge of disabilities and equipment. This level of service is often overlooked when "the lowest price per widget" becomes the over riding objective.

The NSW OfficeMax experience has shown what happens when the supply of equipment to people with disabilities is treated in the same manner as purchasing paper clips or copy paper. OfficeMax took over the Q Stores operation formerly run by the Government and has now extended its product range to include healthcare items. The OfficeMax arrangement was meant to conclude in December 2007 but now appears to be extended indefinitely.

There are many instances of equipment ordered through OfficeMax having been dropped off on the front porch of an elderly or disabled person by a courier with no intention to install the equipment or train the end user and/or care givers in its proper use. Even seemingly simple items such as commodes generally need to be height adjusted to the physical environment and the end user. This is best done by a properly trained industry professional and not by a well meaning neighbour or family member.

The move to central supply contracts for standard equipment may have a drastic impact on the lives of people with disabilities and the elderly living in smaller regional centres. The viability of equipment suppliers' businesses in these areas relies upon them being able to sell a basket of goods to PADP. Removing a percentage of their income by granting sole supply to another, often larger, competitor can end up putting them out of business. This would have a major, detrimental effect on service levels to people with disabilities and the elderly living in these areas.

The Victorian Government's experience with a single supplier/broker for rehab and aged care equipment resulted in increased costs, particularly on highly customised products. No

single supplier has direct access to all products and brands and so has to source from another supplier and then adds a margin. It was broadly known throughout our industry that prices typically increased by 20-30% under this scheme. It should also be noted that the scheme has now been disbanded due to the higher costs and associated administrative difficulties experienced.

RECOMMENDATIONS:

- The OfficeMax supply scheme to PADP be cancelled and an open tender issued as soon as is practical.
- No attempt be made to purchase highly customised equipment through sole supplier contracts.
- The NSW Department of Health commits to supporting the viability of PADP equipment suppliers in rural areas.
- EnableNSW incorporate appropriate service level standards in any contract or tender for the provision of appliances to PADP.

8. Equipment Service & Maintenance

Most equipment provided under the PADP system requires some degree of ongoing maintenance or periodic inspection. This is particularly the case with more complex equipment such as patient lifters, electric wheelchairs, scooters etc. PADP currently engages a range of companies or individuals to provide this service with little regard to qualifications and training.

The range and complexity of equipment provided to PADP requires that only properly trained and accredited individuals undertake the necessary maintenance and service. When this is not the case the end user or carers may be placed at risk and often costs escalate. IRSA members have provided the following examples —

- "PADP called a low cost service company to repair one of our wheelchairs. They
 could not repair it, but still billed PADP for the service call just adding to the costs."
- "PADP engaged another service company to repair a wheelchair we had sold. They
 went to the client 4 times to fix an intermittent problem but were unable to rectify it,
 however when we attended it was fixed first time."

- "Some PADP departments will not pay for the fitting of wheelchair tyres and tubes.
 They advise to get the NRMA to fit them. I believe that NRMA are looking at discontinuing this free community service as it was only meant to be for emergency breakdowns only."
- "Most wheelchairs are supplied with a user manual that recommends a service schedule. PADP will generally not pay for regular servicing and as a result, by the time we get the call to repair the wheelchair sometimes more damage has been done. For example if you keep your front castor bearing adjusted properly you will never have a problem with the castor fork. Often by the time we get the service call we have to replace the bearings and the fork at higher cost to PADP."
- "Some PADP departments are requesting we go out and see the client and then
 provide them with a quote to fix the problem. We send the quote and then they raise
 another order for us to go and fix the chair and they get billed for two call out fees
 and labour charges surely there is a better way?"
- "We had an occasion where a another service company ordered a replacement
 controller for a power wheelchair as it was out of warranty and the cost was \$2600.
 We became aware of the replacement issue and were able to discuss it with the
 manufacturer and have the part replaced under warranty saving PADP thousands of
 dollars."

Equipment which is not properly maintained and serviced can be inherently unsafe for the end user and their care givers and potentially place the Government at risk of having to pay compensation in the event of injury or death.

- Products supplied under the PADP scheme should be serviced and maintained as per the manufacturers' instructions.
- EnableNSW, in consultation with IRSA, review their guidelines for engaging and authorising service companies to ensure the most efficient and cost effective practices are in place.
- That EnableNSW require all service and maintenance to PADP equipment be undertaken by companies and individuals who are appropriately authorised by the original equipment manufacturer.

9. Australian Therapeutic Goods Administration

Much of the equipment supplied to PADP is classified by the Australian Therapeutic Goods Administration (TGA) as a Class 1 Medical Device. Before someone can supply such products in Australia they are required to make an application to have the products entered in the Australian Register of Therapeutic Goods (ARTG). There are different processes to do this depending on whether the application is made by a local manufacturer or by an importer/distributor of equipment that is manufactured overseas (referred to by the TGA as a sponsor).

The TGA and ARTG processes play an important watchdog role in safeguarding the interests of end users and funding bodies. They are also pivotal in managing equipment safety recalls and field modifications, however there is a cost to industry in complying with the TGA regulations.

Unfortunately there remains a number of suppliers who try to operate outside the TGA regulations by importing equipment through various channels not authorised by the original manufacturer, by substantially modifying products or by selling equipment which has not been listed on the ARTG. This places end users and funding bodies at risk of purchasing potentially unsafe or untraceable equipment and is likely to compromise manufacturers' product warranties.

Government agencies who purchase equipment from these suppliers undermine the TGA governance process and impact on the business of those companies who act responsibly in complying with the TGA. This could also place the likes of EnableNSW at risk of litigation in the event that someone is injured or killed as a result of being provided with equipment that was not listed on the ARTG.

- PADP should only purchase equipment that has been properly listed on the ARTG and should request from suppliers the relevant ARTG number.
- To avoid potentially high liabilities, PADP should only purchase equipment from those companies authorised and trained by the manufacturer to sell the equipment.

10. Industry Viability

The home medical equipment industry is typified by relatively low profitability due to high service costs and low product margins. A 2007 US based study on the Complex Rehab Industry performed by the University of Rochester (refer Appendix A2) highlights this fact. The study concludes that —

"Under such low profitability it is extremely hard to forecast the future financial performance of the industry; because the threat of more & more firms exiting the industry becomes stronger as profitability goes lower... ... These results are shocking since it is hard to imagine what drives these companies under such low levels of profitability?... ... this is a cause driven industry which serves the needs of thousands of disabled people in the need of rehabilitation. An industry like this being struck by a financial crisis could further have detrimental microeconomic & macroeconomic effects as a whole."

In discussions with NSW based suppliers it is evident that our local industry faces similar profit pressures that threaten its viability. Gross margins of domestic suppliers (non-manufacturers) are typically 5-13% lower than those reported in the US study. This suggests that our local industry may operate leaner and more efficiently than our US counterparts.

The low profitability of our industry sector is in contrast to other medical sectors such as pharmaceuticals and medical consumables. In recent times this has been fuelled by a dramatic reduction in the average sell prices of standard equipment, added equipment complexity, increased compliance costs and a demand for higher and higher service levels.

There is also significant generational change underway within our industry sector as many of the pioneering business leaders reach retirement age and either sell their business or simply close down. What is disturbing is the lack of new entrants into this industry, particularly in the more complex and demanding equipment sectors.

Several multi-national companies have sought to buy into the Australian industry over the past 4 years and on the whole have been disappointed by the low profitability of the businesses they have acquired. This has led some of these companies to rationalise their businesses and exit high service, low profit areas of the market which in turn reduces choice and service levels for people with disabilities and the elderly.

RECOMMENDATIONS:

• The NSW Department of Health join a review of the viability of PADP suppliers and establish what Government practices can be improved to deliver better outcomes for Government, business and most importantly the end user.

Appendices

- A1 IRSA Member Companies
- A2 US Study on the Complex Rehab Industry
- A3 Article "The journey to Matt's mobility"
- A4 Complex Equipment Specification Example

Appendix A1 - IRSA Member Companies

Dejay Medical

1 Prince William Drive
SEVEN HILLS NSW 2147
Ph (02) 9838-8869
Fax (02) 9838-7869
www.dejay.com.au

Disability Hire Vehicles 49 Hession Road

OAKVILLE NSW 2765
Ph (02) 4573-6788
Fax (02) 4573-6989
www.disabilityhire.com.au

E&S Wheelchair Sales

Unit 6 - 1 Field Close

MOOREBANK NSW 22170

Ph (02) 9822-4323

Fax (02) 9822-4207

GTK Rehab

Unit 11 - 14 Boden Road SEVEN HILLS NSW 2147 Ph (02) 9620-9177 Fax (02) 9620-9081 www.gtkrehab.com.au

Home Safety and Comfort

2/187 Lake Road
PORT MACQUARIE NSW 2444
Ph (02) 6581-2400
Fax (02) 6581-2422

Independent Living Specialists

67 Mars Road LANE COVE NSW 2065 Ph (02) 9427-4995 Fax (02) 9427-4338 www.ilsau.com,au

Invacare Australia

1 Lenton Place

NORTH ROCKS NSW 2151

Ph (02) 8839-5333

Fax (02) 8839-5353

www.invacare.com.au

Hospital at Home (Eniax Pty Ltd)

2/30 Heathcote Road
MOOREBANK NSW 2170
Ph (02) 9601-6909
Fax (02) 9601-7870
www.hospitalathome.com.au

Kalnin Corporation

PO Box R1751

ROYAL EXCHANGE NSW 1225

Ph (02) 8259-9600

Fax (02) 9247-6990

www.agedcaretechnologies.com

Lifehealthcare

5 George Place

ARTARMON NSW 2064

Ph 1300 133 120

Fax (02) 9618-5111

www.lifehealthcare.com.au

Met-A-Lite Manufacturing Company

17-19 Mitchell Road BROOKVALE NSW 2100 Ph (02) 9905-3947 Fax (02) 9905-2213 www.metalite.com.au

Mogo Wheelchairs

Unit 5 – 42 Canterbury Road
BANKSTOWN NSW 2200
Ph (02) 9708-5255
Fax (02) 9796-2470
www.mogowheelchairs.com.au

Mobility Matters

35 Townsville Street
FYSHWICK ACT 2609
Ph (02) 6280-7244
Fax (02) 6239-1281
www.mobilitymatters.com.au

Northcott Equipment Solutions

1 Fennell Street

NORTH PARRAMATTA NSW 2151

Ph 1800 11-8481

Fax (02) 9890-0924

www.northcottes.com.au

Northern River Surgical

18 Endeavour Close
BALLINA NSW 2478
Ph (02) 6686-6644
Fax (02) 6686-9383
www.intermobility.com.au

Otto Bock Australia

62 Norwest Boulevarde
BAULKHAM HILLS NSW 2153
Ph (02) 8818-2800
Fax (02) 8814-4500
www.ottobock.com.au

Peak Care Equipment

1/187 Lake Road

PORT MACQUARIE NSW 2444

Ph (02) 6581-2400

Fax (02) 6581-2422

www.peakcareequipment.com.au

Pride Mobility Products

21 Healy Road

DANDENONG VIC 3175

Ph (03) 9706-4611

Fax (03) 9706-4622

www.pridemobility.com.au

Scooters & Mobility Group

13 NSW Outlets www.scootersandmobility.com.au

Seating Dynamics

Unit 3 - 19 Boden Road SEVEN HILLS NSW 2147 Ph (02) 9620-7839 Fax (02) 9012-0087 www.seatingdynamics.com.au

Specialised Wheelchair Company

Unit 5 - 26 Wattle Road BROOKVALE NSW 2100 Ph (02) 9905-5333 Fax (02) 9905-2208 <u>www.swco.com.au</u>

Sunrise Medical

Unit 7 - 15 Carrington Street
CASTLE HILL NSW 2154
Ph (02) 9899-3144
Fax (02) 9899-3244
www.sunrisemedical.com.au

Appendix A2 – US Study

Refer following pages

Complex Rehab Industry

A study of the business & financial performance of the industry in $2007\,$

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A NOTE OF THANKS

I am extremely thankful to the various organizations that commissioned me to undertake this study on behalf of the industry comprising of complex rehab equipment suppliers. Being a part of this extensive study has been an extremely knowledgeable and enlightening experience for me; and I truly appreciate the opportunity given to me in relation to the same.

I would like to express my gratitude to all the complex rehab equipment suppliers who participated in this study. Thank you very much for trusting me with your confidential business & financial information. I hope that I have done justice to your efforts in sharing the information with me; and I truly hope that the information obtained from this study would prove to be beneficial & useful for you as well in the longer run.

Yours Sincerely,

Gautam Garg

EXECUTIVE SUMMARY

The ensuing pages of this report contain an analysis of the business & operating performance of the industry comprising of complex rehab equipment suppliers (referred to as the "complex rehab industry"). The analysis is based on the quantitative analysis of the financial information which was shared by these suppliers in response to an email survey questionnaire. The survey was made available to the industry in the month of May 2008; and responses were obtained throughout the months of May & June in the same year. The *response rate* for the survey was 20%; which is considered fairly high¹ if we take into the account the settings of the survey. The survey responses were clearly indicative of the highly diverse nature of the complex rehab industry. The companies that participated in the survey were from all across the United States; representing the states of New York, New Jersey, Wyoming, Ohio, North Carolina, Connecticut, Virginia, Idaho, California, Minnesota, Michigan, Florida & Texas to name a few. Furthermore, the participants were companies with annual revenue varying from a compact \$250,000 to an expanding \$21,000,000. To enable the understanding of the business of the complex rehab industry in a more concrete, analytical & justifiable manner; the companies belonging to the industry have been divided into three (3) major groups:

- (1) Small Companies: Annual revenue less than \$5 Million (representing 53% of the industry)
- (2) Medium Companies: Annual revenue \$5 Million to \$10 Million (representing 42% of the industry)
- (3) Large Companies: Annual revenue more than \$10 Million (representing 5% of the industry)

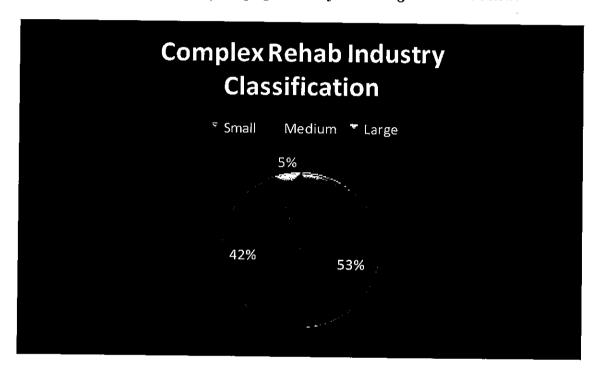
http://www.supersurvey.com/papers/supersurvey white paper response rates.pdf

¹ The survey was circulated through email; in contrast to the more conventional means like paper surveys, website surveys & in-person surveys. Further, the survey involved the sharing of confidential & privileged financial information for private corporations. A response rate of 20% in these settings is considered fairly high as per recent research & studies (see web articles below).

CLASSIFICATION OF THE COMPLEX REHAB INDUSTRY

In agreement with the survey responses, the entire industry comprising of complex rehab equipment suppliers can be classified into three (3) broad categories as discussed above.

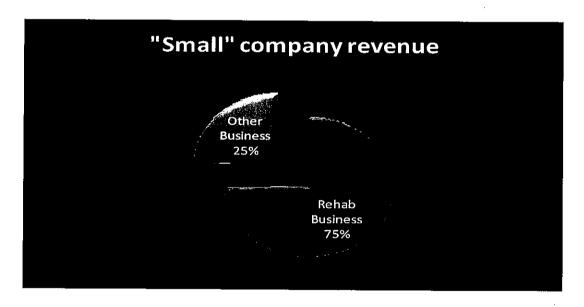
The percentages of companies belonging to each of these categories are as below:



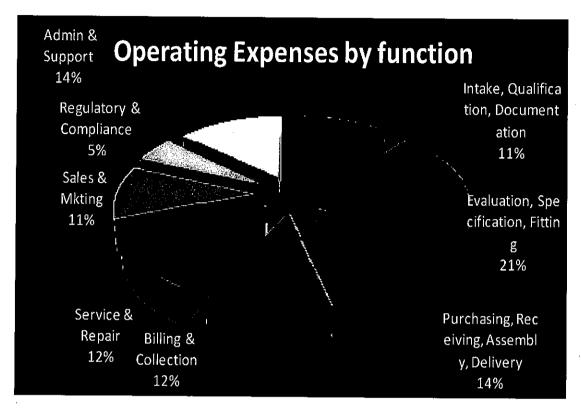
As observed, the majority (53%) of the companies in the complex rehab industry are 'Small' companies with annual revenue of less than \$5 Million. 'Medium' companies with annual revenue of \$5 Million to \$10 Million also represent a significant (42%) of the complex rehab industry. 'Large' companies with annual revenue in excess of \$10 Million represent the smallest . (5%) of the complex rehab industry.

ANALYSIS OF THE "SMALL" SECTOR

- Companies with annual revenue of less than \$5 Million.
- The sector represents 53% of the complex rehab industry; hence the maximum number of companies in the complex rehab industry belong to this revenue range.
- For the year 2007; a significant percentage of the companies suffered losses (or made negligible profit) as evident from the pretax profit expressed as a percentage of revenue. An average of 33% of the companies into losses or making negligible profits.
- On an average, a typical "small" company earns 75.42% of its revenue from the rehab business.



• The following represents the average breakup of the operating expense by function based on 2007 financials for the companies belonging to this sector:



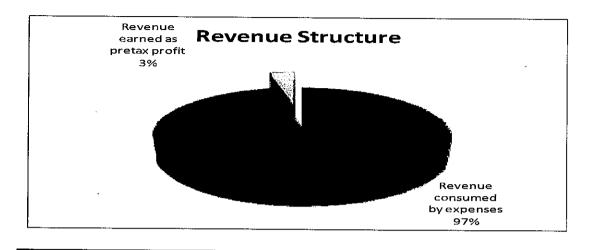
• The common size analysis² of the average income statement (I/S) for 2007 is as follows:

Common Size Analysis of I/S (average % of revenue)

Revenue	100.00%
Cost of Sales	50.16%
Gross Profit	49.84%
Operating Expenses	46.13%
Operating Profit (Loss)	3.71%
Interest Expense	0.24%
Other Income (Expense)	0.12%
Pretax Profit (Loss)	3.44%

² Common Size Analysis of a financial statement refers to representing each & every item of the financial statement as a percentage (%) of total sales or total revenue. Expressing expenses & income as a % of sales/revenue gives a better understanding of the financial performance of a company.

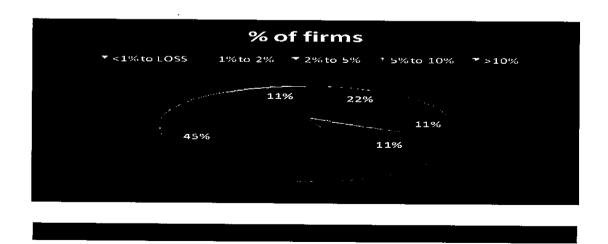
The following shows the average pretax profit that is earned by a typical "small" company from its total revenue:



The following chart represents the percentage of firms having a particular range for the pretax profit expressed as a % of total revenue:

FY2007

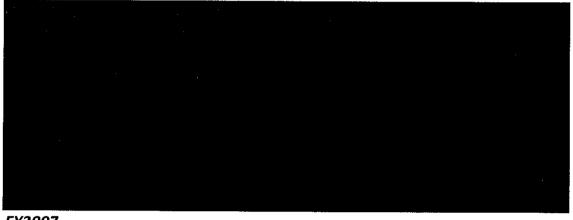
Pretax Profit as a % of revenue	% of firms
<1% to LOSS	22%
1% to 2%	11%
2% to 5%	11%
5% to 10%	44%
>10%	11%



The table below summarizes the financial results obtained for the "small" sector from the survey (the same results are depicted in the analysis discussed above):

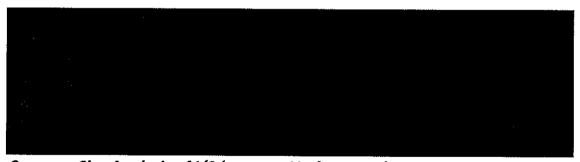
Percentage of companies in this category Percentage of business revenue from rehab

53.33% 75.42%



FY2007

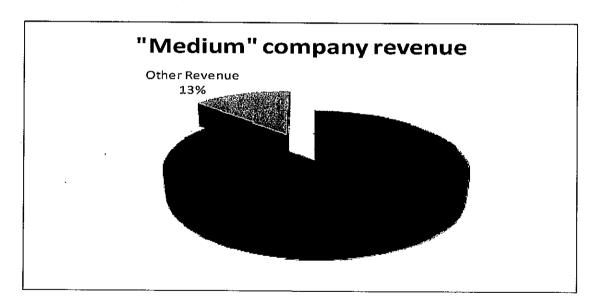
Average Revenue	\$ 2,185,631.68
Average Pretax Profit (Loss)	\$ 67,930.79
Average Common Size Profit (Loss) as a % of revenue	3.44%



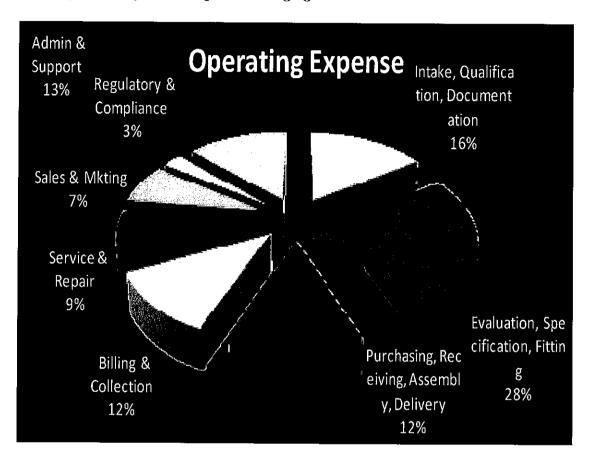
Common Size Analysis of I/S (average % of revenue)	
Revenue	100.00%
Cost of Sales	50.16%
Gross Profit	49.84%
Operating Expenses	46.13%
Operating Profit (Loss)	3.71%
Interest Expense	0.24%
Other Income (Expense)	0.12%
Pretax Profit (Loss)	3.44%

ANALYSIS OF THE "MEDIUM" SECTOR

- Companies with annual revenue of \$5 Million to \$10 Million.
- The second most populated sector in the complex rehab industry; 41.67% of the companies in the industry having annual revenue in this range.
- An average pretax profit expressed as a percentage of revenue at around 7%. Considerably higher pretax profit than the "small" sector; but in the "medium" sector almost 44% of the firms suffered losses or made negligible profits in 2007 (a percentage even higher than the "small" sector).
- On an average, a typical "medium" company earns a very high 87.29% of its revenue from the rehab business annually.



 The following represents the average breakup of the operating expense by function based on 2007 financials for the companies belonging to this sector:

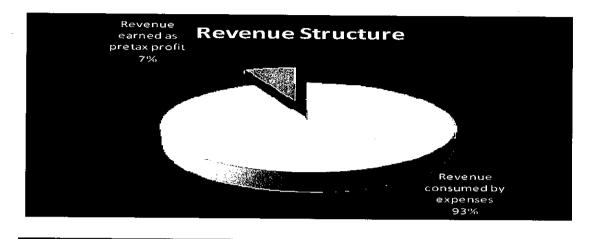


• The common size analysis of the average income statement (I/S) for 2007 is as follows:

Common Size Analysis of I/S (average % of revenue)

, , , , , , , , , , , , , , , , , , , ,	
Revenue	100.00%
Cost of Sales	46.46%
Gross Profit	53.54%
Operating Expenses	45.35%
Operating Profit (Loss)	8.17%
Interest Expense	1.26%
Other Income (Expense)	0.13%
Pretax Profit (Loss)	6.87%

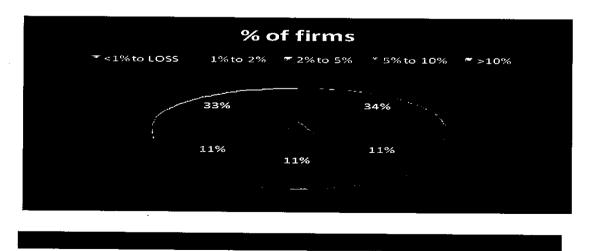
The following shows the average pretax profit that is earned by a typical "medium" company from its total revenue:



The following chart represents the percentage of firms having a particular range for the pretax profit expressed as a % of total revenue:

FY2007

Pretax Profit as a % of revenue	% of firms
<1% to LOSS	33%
1% to 2%	11%
2% to 5%	11%
5% to 10%	11%
>10%	33%

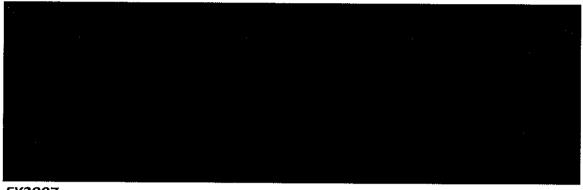


The table below summarizes the financial results obtained for the "medium" sector from the survey (the same results are depicted in the analysis discussed above):

Percentage of companies in this category Percentage of business revenue from rehab

41.67%

87.29%



FY2007

Average Revenue	\$ 7,313,125.78
Average Pretax Profit (Loss)	\$ 434,898.01
Average Common Size Profit (Loss) as a % of revenue	6.87%

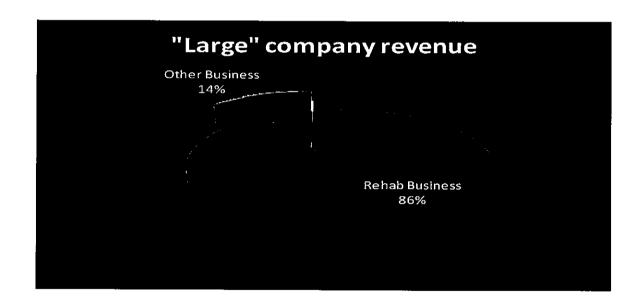


Common Size Analysis of I/S (average % of revenue)

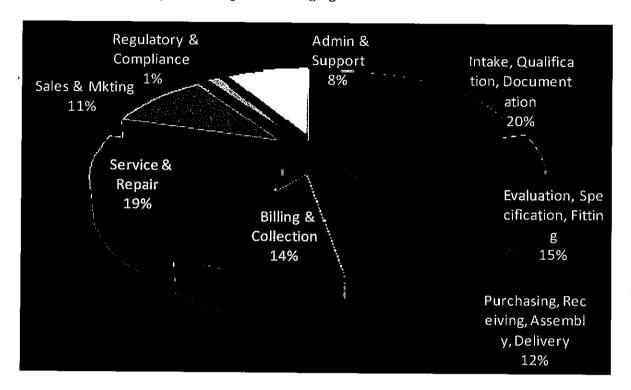
	•
Revenue	100.00%
Cost of Sales	46.46%
Gross Profit	53.54%
Operating Expenses	45.35%
Operating Profit (Loss)	8.17%
Interest Expense	1.26%
Other Income (Expense)	0.13%
Pretax Profit (Loss)	6.87%

ANALYSIS OF THE "LARGE" SECTOR

- Companies with annual revenue in excess of \$10 Million.
- The least populated sector with just 5% of the complex rehab equipment suppliers having revenue in excess of \$10 Million.
- A considerably weak performance amongst "large" companies as well; with 33% of the companies nearing losses with extremely low profits last year. Further, an average pretax profit of 4%-5% expressed as a percentage of revenue which is significantly low for a \$10 Million enterprise.
- A typical large company having 86.50% of its revenue coming from the rehab business.



• The following represents the average breakup of the operating expense by function based on 2007 financials for the companies belonging to this sector:

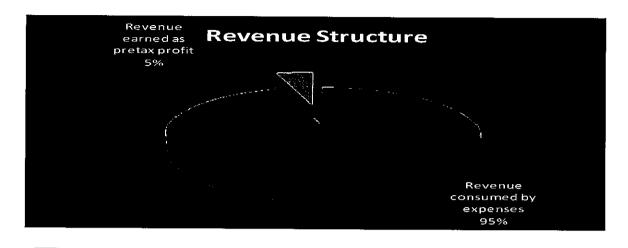


The common size analysis of the average income statement (I/S) for 2007 is as follows:

Common Size Analysis of I/S (average % of revenue)

Revenue	100.00%
Cost of Sales	47.79%
Gross Profit	52.21%
Operating Expenses	46.63%
Operating Profit (Loss)	5.58%
Interest Expense	0.50%
Other Income (Expense)	-0.08%
Pretax Profit (Loss)	4.83%

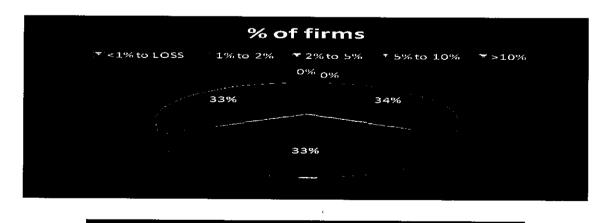
The following shows the average pretax profit that is earned by a typical "large" company from its total revenue:



The following chart represents the percentage of firms having a particular range for the pretax profit expressed as a % of total revenue:

FY2007

Pretax Profit as a % of revenue	% of firms	
<1% to LOSS	0%	
1% to 2%	33%	
2% to 5%	33%	
5% to 10%	33%	
>10%	0%	



The table below summarizes the financial results obtained for the "large" sector from the survey (the same results are depicted in the analysis discussed above):

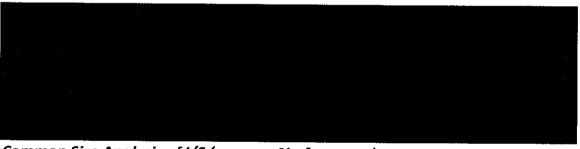
Percentage of companies in this category Percentage of business revenue from rehab

5.00% 86.50%

			•
EV2007			

FY2007

Average Revenue	\$ 20,668,909.50
Average Pretax Profit (Loss)	\$ 977,421.00
Average Common Size Profit (Loss) as a % of revenue	4.83%

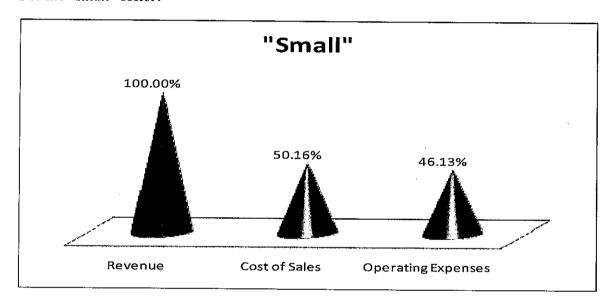


Common Size Analysis of I/S (average % of revenue)	
Revenue	100.00%
Cost of Sales	47.79%
Gross Profit	52.21%
Operating Expenses	46.63%
Operating Profit (Loss)	5.58%
Interest Expense	0.50%
Other Income (Expense)	-0.08%
Pretax Profit (Loss)	4.83%

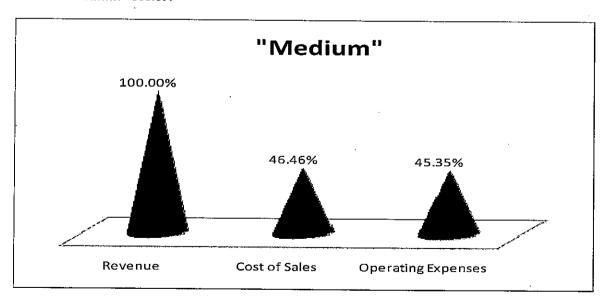
A HIGH EXPENSE INDUSTRY!

The above analysis clearly shows the high amount of expenses & costs associated with the complex rehab industry. Observing the common size income statement values derived from the average of the financials for 2007 for the various companies; we can clearly see that cost of sales & operating expenses are a significantly high percentage of the total revenue for each sector.

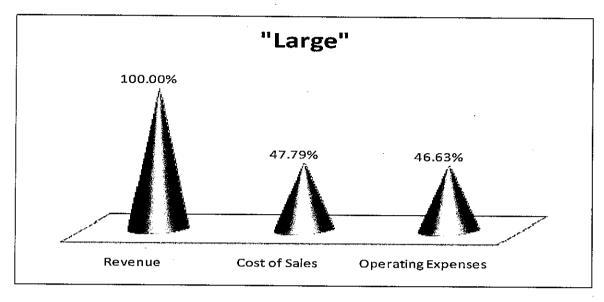
For the "small" sector:



For the "medium" sector:



For the "large" sector:



Comment:

It is clearly observed that all the sectors have almost their entire "annual revenue" being consumed in paying for the "cost of sales" & "operating expenses". This leaves an almost "negligibly small revenue" left as the "net income" for a company once the income taxes, interest expenses & other expenses are taken into account. Hence, the reason for the low profitability of the complex rehab industry is clearly explained here.

This expense/revenue model is synonymous to the "airline industry" where the profitability is kept extremely low on account of the high costs & expenses involved in operating an airline company (fleets, pilots, stewards, staff, logistics & fuel).

However, there is no such erratic expense (like fuel) involved in operating a typical complex rehab company. There is a **clear need for measures** that help to balance the expense/revenue equation in case of the complex rehab industry to improve the profitability of the companies belonging to the industry. Under such a low profitability it is extremely hard to forecast the future financial performance of the industry; because the **threat of more & more firms exiting the industry becomes stronger as profitability goes lower.**

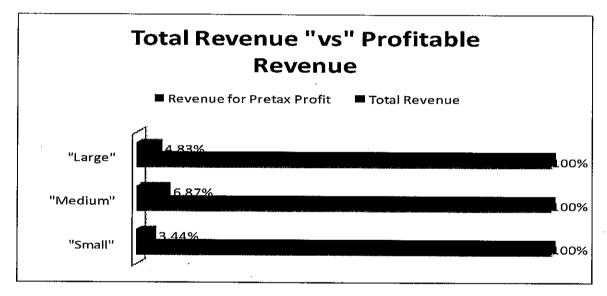
COMPLEX REHAB INDUSTRY:

NEXT TO NEGLIGIBLE PRETAX PROFITS

WHAT IS DRIVING IT THEN?

Observing the pretax profits expressed as a percentage of revenue (common size profits) for all the three sectors:

	Total Revenue	Revenue for Pretax Profit
"Small"	100%	3.44%
"Medium"	100%	6.87%
"Large"	100%	4.83%



We can clearly observe that all the sectors in the complex rehab industry are experiencing extremely low pretax profits. The net profit (net income) can be considered next to negligible once the effects of income taxes & other tax/interest related expenses are taken into consideration in computing them from the pretax figures shown in our analysis/survey. These results are shocking since it is hard to imagine what drives these companies under such low levels of profitability?

Further, even from a macroeconomic standpoint – this is not a healthy environment since most of the small to large companies in this industry are sources of employment, services & revenue to the nation. Also, this is a cause driven industry which serves the needs of thousands of disabled people in the need of rehabilitation. An industry like this being struck by a financial crisis could further have detrimental microeconomic & macroeconomic effects as a whole.

Appendix A3 – Article

The Journey to Matt's Mobility



- 1. Matr's initial evaluation at the rehab hospital took place on September 2, 2005. The evaluation constant of measurements, evaluation of hearthful exaction and assessment of scating and mobility options based on his home environment and physical needs. In addition, pressure mapping also was completed to evaluate the lucation of increased pressure arms and the amount of pressure on his current bed sore. This evaluation cook over two bours of non-billable time by the CRTS. It was determined that Matrinerded a power wheelthsis with a power tilt and redine system with except scating.
- 2 While waiting for prior multiorization from his primary private insurance and Medicaid, his family had to purchase a reclining back wheelchair, our of-packet, to custile blatt to go borne. Another evaluation was completed-mother boar of non-

billable time by the CRTS. This manual wheelthair and wheelthair curbicon had to be cushed as his decharge date was set and could not be changed unless be had a complication. This manual wheelthair meant that Mait would be able to go home but he would not "Abtured match 10 hours of way."

- have any independence while he waited for his power wheelets!.

 After he got home, it was determined that the reclinar wheeletsir his family paid for was not meeting his needs, and emising ferther friction and shearing consist bed soes. The CRTS benght a leaner (non-hillable) this in-space wheeletsir to enable blatt to have position changes but not emise friction durage to his skin from friction and shearing. This temporary chair had to be specifically configured for Matr's needs; usuals sense for positioning, headers for head support; chear belt for upper trank control; and a contoured back to support his trank for optimizan breathing, comfort, and digestion. The leaner wheelchair configured for Matt was provided at no charge since insurance only pays for one wheelchair. All the evaluation and assembly time is need-belt-she, Approximately ten hours was speciate get Matt's borner wheelchair configured and deferred to his borne.
- After he was in his losser wheelthair the CRTS then needed to return to the barne to re-adjust the beadlest. This was one-billable time.
- 5. On December 18, 2003, Marris power wheelchair was ready for delivery to his home. The delivery with training and adjustments took over two hours of non-billable time. Assembly of the power wheelchair to Mart's specifications took over six hours.
- 6. A few days later the CRTS received a call that Metroses unable to colorate the wheelstein back and lateral support on his new power wheelshair. The rehab technician went to the home with the loaner wheelshair as a back up. Suggestions on altering the back of the power wheelshair did not work and Mart's family consected the CRTS that evening for further evaluation.
- 7. On December 24, 2003, the CRTS went to the home for additional evaluation of the seating and Matr's position. It was determined that Matr would need the back he used while in rehab a more constanted back to suppost his teach and allow him to sit with greater comfort. Measurements were completed. Matt attended to the loaner wheelehair since his power wheelehair needed to return to the production shop for mudifications to accommodate the new back. There was more than right boars of non-billable time spont for re-evaluation, production/ modification and re-dishvery.

"Apprecimately 10 hours of nonbillable time was spent to get lebett's location wheelchair configured and delivered to his home."

Non-Billable Time Overview

Initial Evaluation by CRTS = 2 has

Evaluation for kinner wheelship to get Mart home = 1 hr

Configuration of lowner tilt-in space desir and delivery = 10 hrs

Re-Adjast headrest = 1 hr

Dekresy and adjustment of Matrix powerchait = 2 hts

Assembly of Matt's promodule to his specifications = 6 has

Fullow up that to felially imbility to tokerate back and supports = 1.5 hea

lte-evaluation, exclineation and redelivery of powerclasts = 8 him

Funding, purchasing, payables and receiving admin time = 7 hrs

Total Non-Billsbie Teur = 38.5 hrs

Appendix A4 – Complex Equipment Specification

Refer following pages

Invacare® Formula™ CG Tilt/Recline for Storm Series® Bases

Distributor Wholesale Price List and Order Form Effective October 9, 2006 - Revised April 9, 2007



For ease of ordering, contact Customer Service

	X freight (Note: All accessory prices apply to whole chair purchases. Please us		w.invacare.com.au eparate accessory orders)	Yes, you can:
Company Na	me		Accoun	t#
Phone #	P.O.#			_Date
	e & Address			
	Spec	fall Note. 🦠 👍		
Pri	ces are approximate retail prices. Subject to dealer del rices please contact your Invacare Distributor. Phone In	livery charges, ot	her local charges and	change without notice.
	<u>B</u>	<u>ase</u>		
CHAIRTY	PE/POWERED SEATING BASE	CASTER C	PTIONS	
	Arrow for Formula _{CG} with MK6i™ (K0884)6,993.00	□ 1259		atic CastersNo Charge
□ 3GRX-C0	Ranger X for Formula _{CG} with MK6i (K0862)5,285.00	☐ (23) ☐ (228-3	9" X 2 35" Sami Pro	umatic Casters Lt. GreyStandard
	G Torque SP for Formula _{CG} with MK6i (K0884)4,830.00	☐ 1251-3		CastersNo Charge
		→ 1231-3 → 1220-3	9" X 2 75" Pneumati	c CastersNo Charge
TRANSPOI	RT TIE DOWN	7 □ 1465-3	9" X 2.75" Foam Fill	ed CastersNo Charge
¹ □ TRBKTS	Wheelchair Transport Brackets175.00			
	Transpore trie Down	CASTER S	USPENSION	
		□ 9213-6	Shock Fork for 6" C	asters (E1016)112.00
TRBKTS includ	les four factory-installed wheelchair transport brackets.	□ 9213-8	Shock Fork for 8" C	asters (E1016)112.00
	ot been crash-tested in accordance with WC19. Use these ets only to secure an unoccupied wheelchair during transport.	WHEEL OF	DTIONS	
i ansport or acid	co only to secore an anoccupied wheelenan during danspore	WHEEL O		T' 0. 1 .
As of this date,	the Department of Transportation has not approved any	☐ 1430-3		TiresStandard
tie-down systen	ns for transportation of a user while in a wheelchair, in a	□ 431-3 ' □ 440		m Filled Inserts70.00 Tires55.00
moving vehicle of	of any type. It is Invacare's position that users of wheelchairs	9 1441		am Filled Inserts125.00
	ferred into appropriate seating in vehicles for transportation	''	IT AT IIIes W/IQa	an Tilled Tilser &125.00
Invacare cannot	e of the restraints made available by the auto industry. and does not recommend any wheelchair transportation	10 FREE WHE	EL HUB	
systems.	and does not recommend any wheelchair transportation	☐ FHUB		88.00
	own option is not retrofittable to existing models and receble.			
USER WEIG	GHT LIMITS			
ARROW		FOOTNOT	ES	
² □ U300	User Weight <300 lbsNo Charge		ble with MED or TALL Se	
³ □ U400	User Weight <400 lbsNo Charge			m range of tilt is 55 degrees.
RANGER X				m range of tilt is 45 degrees.
₃□ U400	User Weight <400 lbsNo Charge			enables driver to track straighter
TORQUE SP		•	or the terrain, inicues Mon speed. Must also select N	roe® spring shock suspension, and
²□ ∪300	User Weight <300 lbsNo Charge	5 Vent tray or		tht capacity by approximately 50 lbs.
TRUETRAC	CK UPGRADE			2". Must pick long base.
4□ TRUTK	True Track Upgrade2,390.00		e with short base.	
			e with 9" casters.	
VENT TRAY	rs			width of the base by 2.5". Does not
☐ VENT	Articulating Vent Tray (EI 030)1,225.00	True Track (Jpgrade.	fender. Not available with (TRUTK)
FRAMETYF	PF .			able with TrueTrack Upgrade (TRUTK).
•□ SFS		Does not in	clude Storm Series design	wheel or render.
□ LFS	Short Base			
பப்	Long BaseNo Charge			

NOTE: All specifications and dimensions are approximate.

Accessories and Options

Base

FRAME FI	NISH	FRAME FII	NISH (CONTINUED)	
CONTEMPO		WAY COOL		
□ 24P	Wet BlackNo Charge	☐ 62P	Electric Blue	No Charge
□ 60P	Silver MetallicNo Charge	□ 104P	Electric Teal	No Charge
🗖 71P	Silver VeinNo Charge	☐ 121P	Lolly Pop Blue	No Charge
□ 105P	Midnight BlueNo Charge	□ 122P	Cosmic Blue	No Charge
_ □ 115P	Black Prism:No Charge	□ 25P	Emerald Green	No Charge
тоо нот		□ 127P	Grasshopper Green	No Charge
□ 30P,	Sunny YellowNo Charge			
□ 61P	Electric RedNo Charge			
□ 119P	Bubblegum PinkNo Charge			
□ 120P	Grape MadnessNo Charge		-	
	S.	<u>eat</u>		
SYSTEMT	YPE		BLE SEAT DEPTH RANG	E
CGTR	Tilt & Recl. w/Mechanical Shear Reduction (El 007)2,520.00	CONVENTI	ONAL/CONTOURA	
		☐ 1619D	16" to 19" Deep (Adjustable)	No Charge
SEAT-TO-F	LOOR HEIGHT	☐ 1922D	19" to 22" Deep (Adjustable)	
ı □ LOW	17.75"No Charge		, (, , , , , , , , , , , , , , , , , ,	
■ MED	18.75"No Charge	CONVENTIONAL & CONTOURA		
☐ TALL	19.75"No Charge	SEAT DEP	TH SETTING	
		□ D16	16" Seat Depth	No Charge
SEAT SELE	CHON	□ D17	17" Seat Depth	No Charge
2 CTS	Contoura™ Seating315.00	□ D18	18" Seat Depth	No Charge
☐ CNB	Conventional BackNo Charge	□ D19	19" Seat Depth	No Charge
	Omit CushionLess 15.00	□ D20	20" Seat Depth	No Charge
. Di 1611 1155	IDI EG	□ D21	21" Seat Depth	No Charge
PUSH HAN	· -	□ D22	22" Seat Depth	No Charge
☐ PCNB	Push Handles for ConventionalNo Charge			-
CEATIAND		SEAT TILT		
SEAT WIDT		□ OSA	0°	
□ 1620W	16" to 20" Width (Adjustable)No Charge	□ 5\$A	5°	No Charge
🗀 2024W	20" to 24" Width (Adjustable)No Charge			
SEAT WIDT	TH SETTING			
□ W16	16" Seat WidthNo Charge	FOOTNOT		
□ W17	17" Seat Width (not available w/Contoura)No Charge		le with Transport Tie Down option.	
□ WI8	18" Seat WidthNo Charge		eat Depth on Contoura assumes 1" o	
□ W19	19" Seat Width (not available w/Contoura)No Charge		n. For example: When choosing an	
□ W20	20" Seat WidthNo Charge	from the from	ont of the back cushion to the front	of the seat pan equals 17".
□ W21	21" Seat Width (not available w/Contoura)No Charge	3 Puch handle	ra back cushion is 2" thick includes is will add an additional 3.5" to back	reatnemette seat cushion.
□ W22	22" Seat Width		ly with 400 lb. package.	cane neight.
4 □ W23 4 □ W24	23" Seat Width (not available w/Contoura) No Charge			
1 🏻 ሃየፈኅ	24" Seat WidthNo Charge	NOTE: All spe	ecifications and dimensions are	approximate.

Accessories and Options

<u>Seat</u>

BACK HEIG CONVENTION		LATERALS 2 CONVENTION	
☐ TSBH20 ☐ TSBH21 ☐ TSBH22 ☐ TSBH23 ☐ TSBH24 ☐ TSBH25 ☐ TSBH26 CONTOURA ☐ TSBH25 ☐ TSBH25 ☐ TSBH25 ☐ TSBH2700 ☐ TAR 127700	Back Height 20"	☐ TMSLM ☐ TMSLL ☐ TMSLL ☐ TMSLL ☐ TWB-TPR ☐ TWB-TPR ☐ TWB-TPR ☐ TWB-TPR ☐ TWB-TPR ☐ CSLM ☐ CSLM ☐ CSLLL ☐ CSLLL	Swingaway Laterals Medium (E0956)
☐TAR12800 ☐ T0022400 ☐TAR22400 ☐ T0022600	Two-Step Headrest (E0955)	☐ TWB-CPR ☐ CPRH ☐ TWB-CPR	TERALS FOR CONTOURA Adj. Swing Contoura Lat Med (E0956)
STEALTH HE. □ CPI75 □ CPI75	14" Multi Axis Headrest (E0955)347.00 HW Removable & Adjustable Hardware (E1028) .lncluded	SEAT POSIT	FIONING STRAPS Airline Buckle Seat Pos. Strap42.00 Push Button Style Seat Pos. StrapStandard
☐ CP180 ☐ CP180F ☐ CP280	10" Multi Axis Headrest (E0955)	CHEST POS ☐ 7311BK ☐ 9515 ☐ 7321BK	Airline Buckle Chest Pos. Strap (E0960)
ARM TYPE (RA19FL RA19FR RA29FL RA29FR	(PAIR) Reclining Full Length Adj. Hgt LeftNo Charge Reclining Full Length Adj. Hgt RightNo Charge Reclining Desk Length Adj. Hgt LeftNo Charge Reclining Desk Length Adj. Hgt RightNo Charge		
OTTO BOCK	C ARM PADS (PAIR)		
☐ OB20400 ☐ OB20500 ☐ OB20600 ☐ OB20700	One Piece Channel Armpads (E2209) 203.00 Large Forearm Pads 203.00 Medium Forearm Pads 203.00 Small Forearm Pads 203.00	2. For use with	ES ble with quadlink retractable joystick mount. channel canes only. Contoura seating only.
	(HAND PADS (PAIR)		
	Large Flat Hand Pads	NOTE: All spec	ifications and dimensions are approximate.

Accessories and Options

Electronics

	·
MK6i [™] CONTROL	JOYSTICK MOUNTING HARDWARE
TORQUE SP, RANGER X	8 ☐ QLAM6 Quad Link Retract. Joystick Mnt MPJ+ (E1028)245.00
☐ MK690ACC Controller with Actuator ControlStandard	☐ ARM250 Stealth Height Adjustable Joystick Mount (€1028)189.00
☐ MK6TT True Track ControllerNo Charge	☐ LEFT Left Handed Mounted Joystick
ARROW	☐ RIMHW RIM Hardware For 1500 (E1028)193.00
☐ MK6TT True Track ControllerStandard	☐ PKG32669 Complete Bib Assembly (Tash/1558)
	☐ GATMPJ6 Gatlin Midline for MPJ (E1028)
EXPANDABLE CONTROLLER SYSTEMS	GAT1812 Gatlin Midline for 1812 (E1028)
☐ MPJM6 MPJ™+ Multiple Drive Joystick (E2377)Standard	
² PSFM6 Personal Joystick, Inductive on Front (E2399).No Charge	□ RCM Rear Cane Mount for Compact Joystick357.00
in the property of the party of	ELECTRONIC ACCESSORIES
= (LZ377).110 Offerigo	ELECTRONIC ACCESSORIES
= Charge	☐ 1813M6 MK6i Programmer w/Pro Memory Card305.00
The state of the s	☐ 1813SD Pro Memory Card (USB Ready)77.00
↓□ OR On/Off Mounted RightNo Charge	☐ 1560 "T" Handle Flexible Joystick Ext. (E2323)67.00
□ OL On/Off Mounted LeftNo Charge	☐ 1561 Straight Handle Flexible Joystick Ext. (E2323)67.00
5 ASLRDYM6 MK6 Display Only	☐ 1826 Chin Cup (E2324)39.00
(No Driver Control) (E2377)No Charge	☐ A24VPS 24V MK6 Auxilliary Power Source175.00
	☐ AUXI2M6 Auxillary Module For I & 2595.00
FOR YOUR ASL DRIVE SYSTEM NEEDS	☐ AUX34M6 Auxillary Module For 3 & 4
PLEASE REFER TO THE FOLLOWING:	
ASL SINGLE INVOICE PRICE LIST FORM # 02-097.	POWER SEATING ACCESSORIES
	⁹ ☐ 4WSB Four Way Switch BoxNo Charge
☐ 1500M6 Prop RIM Control Head Control w/Display (E2327)1,197.00	10 ☐ S4WSB Multiple Actuator Interface Box (E2311)364.00
☐ SMHD Small HeadrestNo Charge	☐ FWT 4 Way ToggleNo Charge
□ LGHD Large HeadrestNo Charge	☐ QPB 4 Push ButtonsNo Charge
☐ 1558MM6 Compact Joystick w/Display (E2373)441.00	-
	ASL OPTIONAL ACCESSORIES
ALTERNATIVE DIGITAL CONTROL SYSTEMS	☐ EGSBLK Egg Switch - Black60.00
6 ☐ SNPM6 Sip-N-Puff/Digital Interface Box (E2325)770.00	☐ ASL304 Light Wobble Switch w/611 Mount287.00
6 ☐ 5018M6 Wafer Board & Digital Interface Box (E2322)805.00	□ ASL202J Fiber Optic Switch543.00
6 ☐ 5020M6 Mini Tash Joystick & Digital Interface Box (E2321)945.00	□ □ ASL208] Adjustable Proximity Switch
,,,	□ ASL504M6 Remote Emergency Stop Switch
SIP N PUFF KIT	B,
☐ PKG32666 Therafin® Sip-N-Puff Breath Tube Kit (E2326)112.00	
ADDITIONAL CONTROL CHOICES	
☐ I558M6 Compact Joystick - Less Std Mount441.00	FOOTNOTES
7 ☐ 5018 Wafer Board315.00	Includes Monoport "Y" Cable to provide additional switch input port.
□ F000	2 TOD-SS: Taggle On Off Drive Salact Speed Speed Projections and

- 1. Includes Monoport "Y" Cable to provide additional switch input port.
- 2. TOD-SS: Toggle On/Off Drive Select, Speed, Speed Potientiometer Standard.
- 3. Drive Select through mode switch, or mode switch and Joystick Commands.
- 4. PSRM6 Only.
- 5. Display Only, No Driver Control. Allows choice from order form.
- 6. Must also use either a Multiple Drive Joystick or MK6 Display.
- 7. Requires SNPM6 Sip-N-Puff Interface Box.
- 8. QLAM6 includes ARM250 standard.
- 9. Required with all multiple actuator systems. Provides a D-9 port for the
- 4-way toggle or 4 push buttons.

 10. Replaces the Four Way Switch Box and allows multiple actuator operation through the driver control.
- 11. Must add MK6 Auxilliary Power Source.

NOTE: All specifications and dimensions are approximate.

7 □ 5020

□ PACM6

⁷ □ 1552M

Mini Tash Joystick......350.00

Proportional Attendant Control525.00

Digital Attendant Control......525.00

Accessories and Options

□ IMPACTG

☐ ALPT

☐ ALPT4

Miscellaneous

BATTERY BOXES FRONT RIGGING □ GP24 Group 24 Battery BoxesNo Charge CENTER PIVOT STYLE (ASB) (PAIR) ☐ 22NF 22NF Battery Box......No Charge 6 ☐ 60HD 60° Swingaway Footrests......No Charge 6 ☐ 70NHD 70° Swingaway Footrests.....Standard ² BATTERIES 6 ☐ 70STAPER 70° Tapered Footrests.....No Charge ³ □ 22NFBATTERY 22 NF Battery (On Chair) (E2361)......525.00 7 ☐ AT5544 Manual Elevating Legrests (E0990).....224.00 □ 24BATTERY 24 Gel Battery (On Chair) (E2363)......630.00 PIN STYLE (PSB) (PAIR) □ PW93 Swingaway Footrests 13.5" - 19......No Charge **MISCELLANEOUS ACCESSORIES** Swingaway Elevating Legrests 16" - 19.75" (E0990) .179.00 7 □ P904A Wheel Locks......109.00 □ 1303 7 D PAL4A Smartleg Art. Legrests 17.25" - 21.5" (K0053)......294.00 4 🗆 9205-3 Suspension Shocks (E1016)......175.00 POWER ELEVATING LEGRESTS-ARTICULATING Suspension Shocks (Heavy Duty) (E1018)175.00 4 D 9205H-3 Power ELR w/Articulation (EI 010)......1,435.00 L ELRPW 4 ☐ FDR Fender......105.00 **FOOTPLATE OPTIONS (PAIR)** 5 D EXTP Extended Anti-Tippers......70.00 Flip -Up Composite Footplates......No Charge □ 1651 □ 1350 Extra Large Aluminum Footplates.....No Charge □ AT5543 Adjustable Angle Flip-Up Footplates.....102.00 **FOOTNOTES** 1. Only available on Torque SP (Standard on Arrow and Ranger X). Must FOOTREST/LEGREST ACCESSORIES select for TRBKTS. □ 1337 Calf Strap (E0038)......26.00 Batteries will be installed by Invacare Corporation at no additional charge. ☐ 1600BK Heel Loops w/Ankle Straps (E0951)53.00 Chair will be shipped complete with batteries. Longer Pivot Slide Tube For 1350......77.00 ☐ LPT2

guards on the footrests. Manually elevating legrests.

Independant powered elevating legrests include elevating and articulating legrests with adjustable angle footplates. Extension range is 13-20".

Not available with 19" or 20" wide and 9" casters. Standard with impact

Not available with Arrow GB, Ranger X, or TrueTrack systems.

Comes standard with vent tray. Adds 2.5" to overall length.

Standard with arrow GB or True Track Systems,

NOTE: All specifications and dimensions are approximate.

Seating

Impact Guards......48.00

Longer Pivot And Slide Tube77.00

Longer Pivot And Slide Tube 4"......77.00

Front Riggings

FOR YOUR SEATING NEEDS PLEASE REFER TO THE FOLLOWING

REHAB SEATING & POSITIONING PRODUCTS SEE PRICE LIST FORM # 07-027.

Accessories and Options

	Battery Boxes	
	*Standard Battery Tray	
Arrow	Group 24	
Ranger X	Group 24	<u> </u>
Torque SP	22 NF	
	Group 24 (Optional)	
*Sealed Gel Cell Ba	tteries Recommended	

n .		•
Bat	tor	ıοc

22NF batteries with terminal configuration (positive on the left and negative on the right) MUST be used. 22NF batteries that have the reverse terminal configuration MUST not be used. Terminals MUST have a cross hole for proper battery connection.

GP24 batteries with terminal configuration (negative on the left and positive on the right) MUST be used. GP24 batteries that have the reverse terminal configuration MUST not be used. Terminals MUST have a cross hole for proper battery connection. See Owner's Manual, part number 1114809. These recommendations MUST be followed otherwise injury and damage may occur.

	D16	DI7	DI8	D19	D20	D21	D22
WI6	X	X	X	х	х	*	*
WI8	×	×	×	×	X	*	*
W20	×	Х	×	×	Х	Х	Х
W22	*	*	Х	Х	Х	Х	Х
W24	*	*	×	×	×	×	X

Memory Card - BASIC

- Standard with ALL Expandable Control Systems (MPJ+, PSR+, PSF+, MK6i Display).
- Used to Back Up/Restore Programmed Settings for Only One Chair.
- May be given to user or kept with provider's files for safe keeping
- safe keeping.

 Does not Contain Advanced Diagnostics/Help Screens/File Structure.
- Not compatible with SPJ+ Joysticks.

Memory Card - PROFESSIONAL

- Standard with ALL MK6i Programmers.
- Available also with USB Card Reader on Order Form.
- Contains Advanced Diagonstics, Help Screens, Software Updates, File Storage/Retrieval.
- Used to back up multiple chairs and programming settings.
- Intended for use by qualified providers only.
- Not compatible with SPJ+ Joysticks.

	Arrow	Ranger X	Torque SP
Maximum Speed MP	Н	_	•
TrueTrack	7	7 (option)	7 (option)
4-pole	N/A	N/A	N/A
4-pole HD	N/A	N/A .	6.5
Perf 4-pole	N/A	5	N/A
Seat-To-Floor			
at 0°			
Low	17.75"	17.75"	17.75"
High	19.75"	19.75"	19.75"
Weight Limits			
<300 lb.			X
<400 lb.		X	
<300 lb. True Track	X		X
<400 lb. True Track	X	X	

المتستالي المتنافع باللانفطالية المتنافع المتنا

- Weight capacity of 300 lb. or 400 lb. (with heavy-duty motors).
- Recline range of 170°
- Mechanical Shear reduction of 3".
- Conventional or Contoura style seating.
- Adjustable seat frame with Conventional style.
- Seat-to-Floor height of 17.75" at 0° tilt.

After Market Backrests)

- The following companies also have hardware to make their backrests work with our new canes;
 - * AEL planar seating system
 - Freedom Designs® planar seating system
 - Canyon planar seating system

Gonventila	ril Scrit State (1944)
Seat Widths	16" - 24"
Seat Depths	16" - 22"
Back Heights	20" - 26"



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Form No. 06-010 Rev 0407

Supersedes all previous versions

For ease of ordering, contact Customer Services:

Invacare Australia Pty Ltd: Ph +61 2 8839 5333 or Fax +61 2 8839 5353

Prices AUD RRP, Ex-freight

www.invacare.com.au

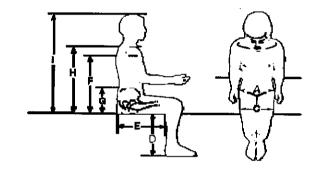


Yes, you can.

Client:		Phone:		
Dealer:		PO#:		te:
W/C Make	Model	Width	Depth	Back Ht

Client Measurements

Α	Hip Width	
В	Chest Width	
C	Thigh Width	
D	Leg length below the knee	
E	Thigh length	
F	Axilla to buttocks	
G	PSIS	
Н	Shoulder height	
I	Head height	



Standard KSS Seating System

A Kinesthetic Seating System includes: Ultimate Base, Curved Back, Basic Headrest, Basic lateral Supports, Padded Lap Belt and a) growth bracket/mounting hardware or b) mounting hardware. Standard KSS items have a 4 – 6 week lead time. For custom product sizing, please complete form where indicated and consult customer service for pricing, availability and lead time. Check below if ordering a complete KSS and make hardware selection on page 3.

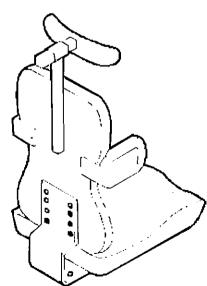
X (1)	W/C Size	Model	Colour (2)	Deluxe	Price
	10" Wide	KSS10R	Black		
	12" Wide	KSS12R	Black		
	14" Wide	KSS14R	Black		
	16" Wide	KSS16R	Black		
	16" Wide	KSS16T	Black		
	18" Wide	KSS18T	Black		
	20" Wide	KSS20T	Black		
	Custom (2)	KSSxxx	Black		



(2) Colour choice is Black only

(3) Any product over 21" wide, form must include clients weight

(4) Additional up-charge for customization, call customer services for pricing



KSS Base (Ultimate Base)

Bases are designed to suspend between the seat rails using: a) flush mount hooks, b) 1 " drop hooks or c) 2" drop hooks or d) 3" drop hooks.



Standard width (W) and depth (D) and height (H) measurements are listed in the table.

 - D -
H

For custom mounting of base, (e.g., when using adductors) please specify if suspended design (plywood drops between rails) or top mounted design (plywood overlaps rails) is desired. Top mount gives additional 2" in total width (outside rail to outside rail).

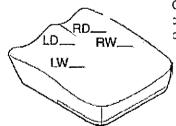
X (1)	W/C Size	Base Model	W	·D	Н	D/Price (4
	10"	UMJB1010	10	10 1/2	2 1/4	
	12"	UMJB1212	11 ½	12 ½	2 3/4	
	14"	UMJB1414	13 ½	14 1/2	2 3/4	
	14"	UMJB1416	13 ½	16 ½	2 3/4	
	16"	UMB1616	16	17	3	
	16"	UMB1618	16	18	3	-
	18"	UMB1816	18	18	3	
	18"	UMB1818	18	19 1/2	3	
	20"	UMB2016	20	18	3	
	20"	UMB2018	20	19 1/2	3	
		Custom Jr (2)			ĺ	
		Custom Adult (3)			<u> </u>	

- (1) Select required base model.
- (2) Indicate custom junior sizes for base and size of wheelchair
 - umjbiawxxiádxx.
- (3) Indicate custom adult sizes for base and size of wheelchair - UMBIAWXXIADXX.
- (4) Price only applicable if ordered separately from KSS.
- (5) Additional upcharge for customization, call customer service for pricing.

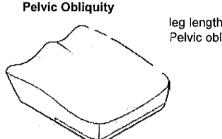
		Hardware Style			
Х	Base Style	Flush	1"	2"	3"
	Top Mount		N/A	N/A	N/A
	Suspended				

Customization Options for Ultimate Base

Leg length discrepancy



Custom cutout to accommodate discrepancy. pad buildup



	Pelvic obliquity	
/)	

X (1)	Model	Description	D/Price
_	L1	1" Cutout; user's Left	
	L2	2" Cutout; user's Left	
	R1	1" Cutout; user's Right	
	R2	2" Cutout; user's Right	
	Custom (2)		(3)

- (1) Select model for leg length cutout.
- (2) Indicate custom log cutout width (RW or LW) and depth (RD or LD) on drawing above.
- (3) Additional upcharge for customization, call customer service for pricing

X (1)	Model	Description	D/Price
	OBL.5	User's left, 1/2"	
	OBL1	User's left, 1"	
	OBL1.5	User's left, 1 1/2"	
	OBR.5	User's right, 1/2"	
	OBR1	User's right, 1"	
	OBR1.5	User's right, 1 1/2"	
	Custom (2)		(3)

- (1) Select model for obliquity modification.
- (1) Indicate custom sizing.
- (3) Additional upcharge for customization, call customer service for pricing.

Growth Bracket/Hardware

For base hardware, select ...

I.) One pair of hardware, indicating diameter of hardware and number of pieces and style of hardware (e.g., 2 @ 2"drop); also indicate if growth bracket is required or 2.) Two pairs of hardware, indicating diameter of hardware and number of pieces and style of hardware (e.g., 4 @ 2" drop)

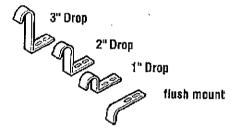
Model	Base Model	Fixed Growth Bracket (1)	7/8" Diam	1" Diam	Flush Mount	1" Drop	2" Drop	3" Drop (4)
KSS10R	UMJB1010			-		N/A	N/A	N/A
KSS12R	UMJB1212							N/A
KSS14R	UMJB1414							N/A
	UMJB1416						-	N/A
KSS16R	UMB1616							130
	UMB1618	N/A	·					
·	UMB1816	N/A						-
	UMB1818	N/A						
	UMB2016	N/A						
	UMB2018	N/A						-
	Custom Jr (2)				-			
	Custom Adult (3)	N/A						

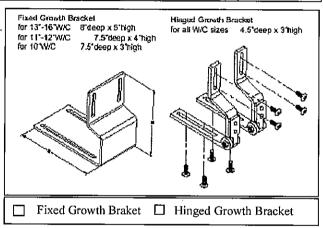
(1) Select if growth bracket required.

(2) Indicate hardware selection for custom junior size base or system.

(3) Indicate hardware selection for custom adult size base.

(4) 3" drop may not be attainable on all chairs.





For back hardware, select ..

1) If growth bracket ordered above, one pair of hardware, indicating diameter of hardware and number of pieces and style of hardware (e.g., 2 @ 2" drop) or 2) Two pairs of hardware, indicating diameter of hardware and number of pieces and style of hardware (e.g., 4 @ 2' drop)

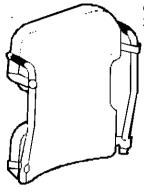
Model	Base Model	7/8" Diam	1" Diam	Flush Mount	1" Drop	2" Drop	3" Drop (4)
KSS10R	CBK10R (3)						N/A
KSS10R	CBKG10R (3)						N/A
KSS12R	CBK12R						N/A
KSS14R	CBK14R						N/A
KSS16R	CBK16R				-		
	CBK16T						-
	CBK18T						
	CBK20T			-		-11	
	Custom Jr (2)						
	Custom Adult (3)						

(1) Indicate hardware selection for custom junior size base or system.

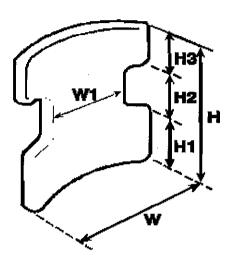
(2) Indicate hardware selection for custom adult size base.
(3) CBK1 OR not T-nutted for growth bracket; CBKG1 OR is T-nutted to accommodate growth bracket,

KSS Back / Curved Back

Backs are drop hooks or c)



designed to suspend between the back posts using a) flush mount, b) 1" 2" drop hooks.



Standard (actual) height (H), width (W) and cutout (WI, HI, H2, H3) measurements are as follows:

X (1)	W/C Size	Base Model	H	W	W1	H1	H2	Н3	D/Price (3)
	10"	CBK10R (5)	10 ½"	10"	4 1/2"	4 1/2"	1 1/2"	4 ½"	
	10"	CBKG10R (5)	10 ½"	10"	6 ½"	4 ½"	1 ½"	4 ½"	
	12"	CBK12R	12 ½"	10"	7"	4"	4	4 1/2"	
	14"	CBK14R	15 ½"	12"	9"	5"	4	6 ½"	
	16"	CBK16R	17 ½"	14"	9 ½"	6 1/2"	4 1/2"	6 ½"	1
	16"	CBK16T	20 ½"	14"	10"	6 ½"	4 1/2"	9 ½"	<u> </u>
	18"	CBK18T	20 ½"	16"	12"	6 1/2"	4 1/2"	9 1/2"	-
	20"	CBK20T	20 ½"	18 1/4"	14"	6 ½"	4 1/2"	9 1/2"	
		Custom (2)		F	lease See	Notes Page		<u> </u>	(4)

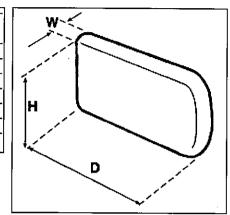
(1) Select required back model.
 (2) Indicate size of custom back and wheelchair size – CBK/XXX.
 (3) Price only applicable if ordered separately from KSS.
 (4) Additional up-charge for customization, call customer service for pricing.
 (5) CBK10R is not T-nutted for growth bracket; CBKG10R is T-nutted to accommodate growth bracket.

See diagram attached for builder specifications

KSS Lateral Supports

Standard (actual) width (W), depth (D) and height (H) measurements for the lateral supports are as follows:

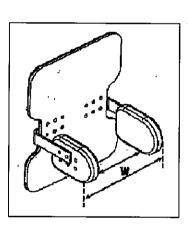
X (1)	H/Ware Style	Model	Н	D	W	D/Price
	Basic	BLSFLG	5"	7 ½"	1"	
	Basic	BLSFMD	4 1/2"	6"	1"	
-	Basic	BLSFSM	4"	5"	1"	
	Swingaway	BLSSLG	5"	7 1/2"	1 ⁿ	
	Swingaway	BLSSMD	4 1/2"	6"	1"	
	Swingaway	BLSSSM	4"	5"	1"	
	Custom (2)					



- (1) Select hardware style required (lateral supports come in pairs).
- (2) Indicate sizes under H, D & W and hardware style (i.e., basic, swingaway)
- (3) Price only applicable if ordered separately from KSS.
- (4) Swingaway laterals available as additional charge item.
- (5) Additional upcharge for customization, call customer service for pricing.

Minimum and maximum width adjustments of laterals supports on curved back are indicated. (Note: more width can be achieved if back is flush mounted.) The chart below is for informational purposes only; no selection necessary.

W/C Size	Base Model	Min Width	Max Width (1" or 2" drop)	Max Width (flush mount)	Range in H+ Adj (1)
10"	CBK10R (2)	5"	7"	8"	3"
10"	CBKG10R (2)	5"	7"	8"	3"
12"	CBK12R	5"	7"	8"	3'
14"	CBK14R	7"	9 ½"	9 ½"	3"
16"	CBK16R	8"	10"	10"	3"
16"	CBK16T	8"	10"	10"	4"
18"	CBK18T	8 ½"	11 1/2"	11 ½"	4"
20"	CBK20T	11 1/2"	14 1/2"	14 1/2'	4"



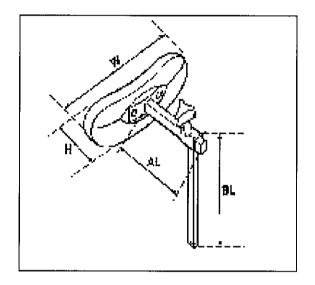
- (1) Range in height adjustments includes adjustment allowed by placement of hardware on back and placement of hardware on lateral pad.
- (2) CBKI OR is not T-nutted for growth bracket; CBKG1 OR is T-nutted to accommodate growth bracket.

KSS Neck and Head Support

Basic Headrest

	_	Pad	Size	Hardware Adjustment		Hardware Length		
X (1) Model	Н	W	A (2)	B (2)	AL	BL	D/Price (3)	
	BNSC (child)	2 ½"	7 1/2"	3"	5 3/4"	5"	8"	<u> </u>
	BNSA (adult)	3"	10"	5"	5 3/4"	7"	8"	
	Custom (4)						İ	(6)
	Other (5)	N/A	N/A	N/A	N/A	N/A	N/A	
	HR15	N/A	N/A	N/A	N/A	N/A	N/A	

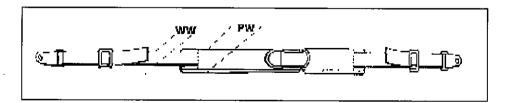
- (1) Select headrest model.
- (2) Adjustment ranges via hardware are indicated vertical and horizontal.
- (3) Price only applicable if ordered separately from KSS.
- (3) Price only applicable if ordered separately from K55.
 (4) Indicate custom sizes.
 (5) Other styles of head support available at additional charge (consult customer service for pricing); may require Adjustable Headrest Adapter Plate (HR1 5).
 (6) Additional upcharge for customization, call customer service for ...
- pricing.



Padded Lap Belt

		Overall Ler	gth (3) (OL)	(PW)	(WW)	
X (1)	Model	Max L	Min L	Pad Width	Webbing Width	D/Price (4)
	BPSLG	60"	25"	1"	1 ½"	,
	BPSMD	34"	17"	1 1/2"	1"	
	BPSSM	32"	13"	1 ½"	1"	
	Custom (2)					(5)

- (1) Select belt model.
- (2) Indicate custom sizes.(3) Maximum and minimum length adjustments are indicated.
- (4) Price only applicable if ordered separately from KSS.
 (1) Additional upcharge for customization, call customer service for pricing.

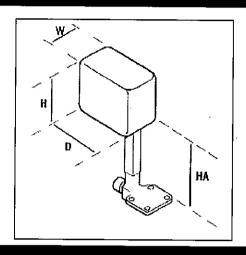


Abductors

Abductors include flip-down height adjustable mounting hardware. Pad can be reversed for backward/forward depth adjustment.

X (1)	Model	H	D	W	HA (3)	D/Price
	ABDLG	4"	6"	3 ½"	3 ½"	
	ABDMD	3"	4 3/4"	2 1/4"	1 1/2"	
	Custom (2)					(4)

- (1) Select abductor model.
- (2) Indicate custom sizes.
- (3) Height adjustment range.
- (4) Additional upcharge for customization, call customer service for pricing.

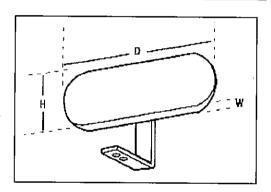


Adductors

Note: When ordering adductors, base must be top mount only to accommodate t-nutting for hardware to attach adductors

X (1)	Model	H	D	W	D/Price
	ADDMD	4 1/2"	12"	1"	
	ADDLG	4 1/2"	14"	1"	
	ADDSM	4 1/2"	10"	1"	
	Custom (2)				(4)

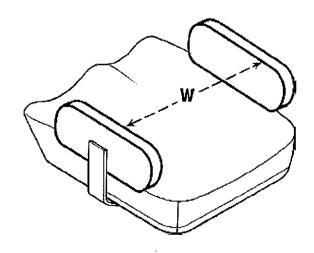
- (1) Select adductor model.(2) Small: fits models UMJ12-14; Large: fits models UMB16 and larger.
- (3) Indicate custom sizes.
 (3) Additional upcharge for customization, call customer service for pricing.



Width adjustment chart for maximum and minimum width positioning of adductors on Ultimate bases using flush mount hooks:

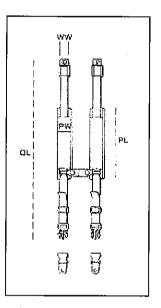
Model	Max*W	Min W
UMJB1010	12 1/2"	8"
UMJB1212	12 1/2"	8"
UMJB1414	14 ½"	10"
UMJB1416	14 1/2"	10"
UMB1616	16 ½"	12"
UMB1618	16 ½"	12"
UMB1816	18 ½"	14"
UMB1818	18 ½"	14"
UMB2016	20 ½"	16"
UMB2018	20 ½"	16"

^{*}Max width will vary with wheelchair model



X (1)	Model	OL (3)	PW (4)	PL (5)	WW (6)	D/Price
	SSLG	45	2	14	1 1/2	
	SSMD	43	1 1/2	12	1	
	SSSM	35	1 1/2	9	1	
	Custom (2)					(7)

- (1) Select shoulder support model(2) Indicate custom sizes
- (3) Overall length
- (4) Pad width (5) Pad length
- (6) Webbing width
- (7) Additional upcharge for customization, call customer service for pricing



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