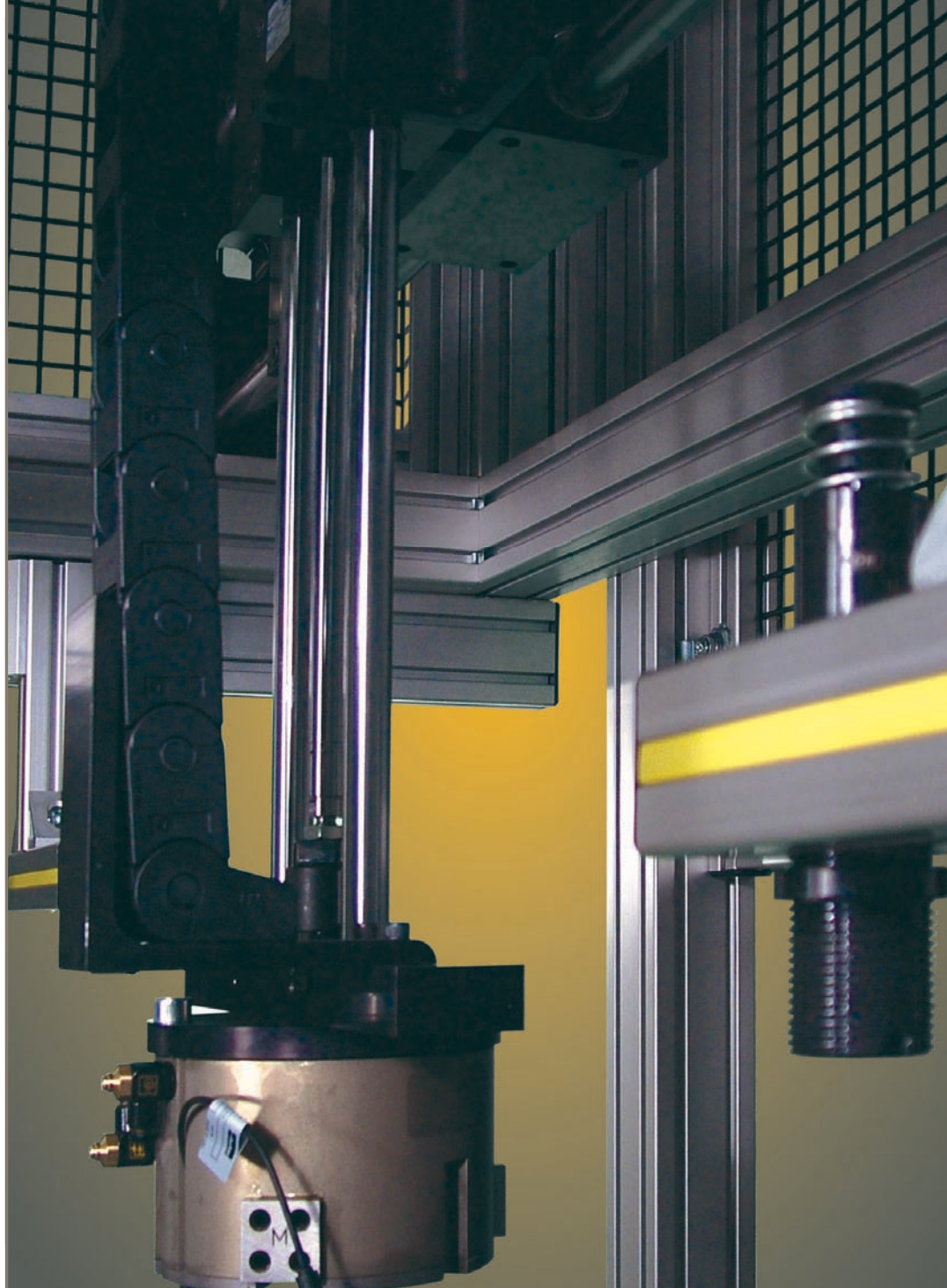
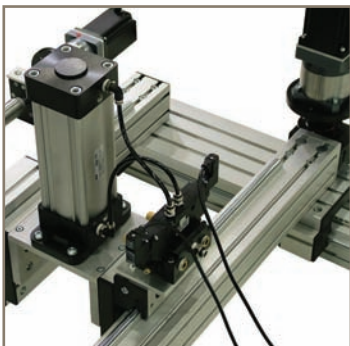
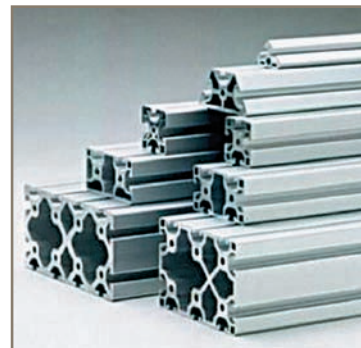


aerospace  
climate control  
electromechanical  
filtration  
fluid & gas handling  
hydraulics  
pneumatics  
process control  
sealing & shielding



# Industrial Profile Systems

Structural Framing Products & Engineered Solutions



ENGINEERING YOUR SUCCESS.

# Modular Structural Solutions

## High-Strength Aluminum Framing and Components



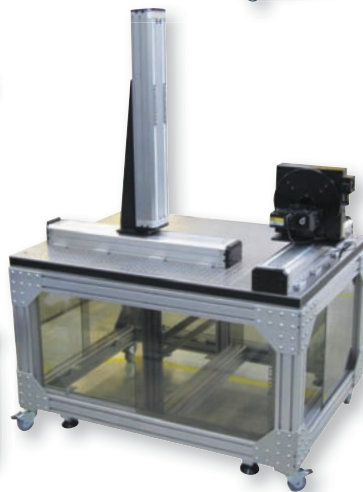
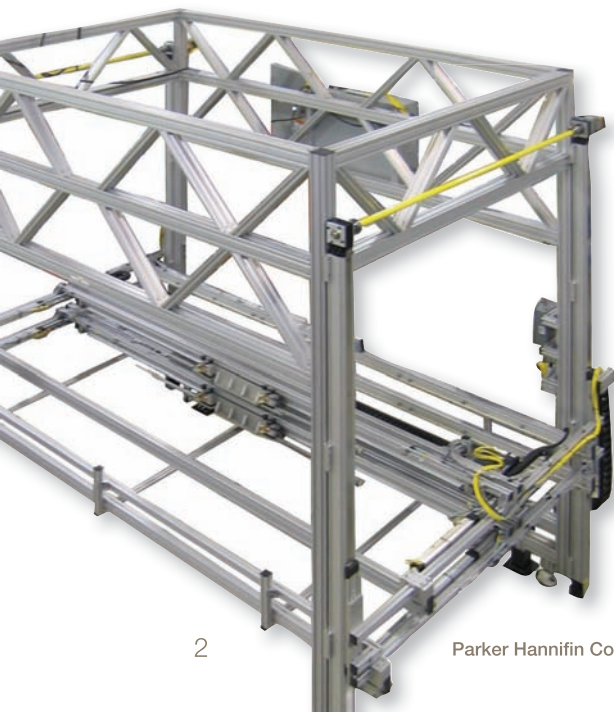
Parker Industrial Profile Systems (IPS) is a leading value-added manufacturer of high-strength aluminum framing, systems and components. Our focus is on our customer. By offering local inventory, application engineering, fabrication and assembly, and integration of industry leading Parker motion control products, we strive to exceed our customer's expectations in service, quality, delivery, and value.

### Typical Applications

- Motion system integration
- Enclosures and guarding
- Machine bases and frames
- Work stations and tables
- Material handling systems
- Lean manufacturing tools
- Cleanroom designs

### Benefits

- Extremely short turnaround time from design to completion
- No welding, grinding, cleaning, painting, or distortions
- Eliminates costly traditional manufacturing processes
- Flexibility to re-configure as requirements change



### Your Choice to Suit Your Needs

Choose a level of service to suit your needs from a completely assembled structure to a bundle of uncut profiles.



**Turnkey Assemblies** - Parker IPS offers complete assembled solutions that are designed, custom fabricated, and shipped in as little as seven business days.



**Kits** - Profiles are cut and machined to order, fasteners and accessories are included based on a parts list, and the entire order is packaged and shipped for final assembly at your location.



**Bundles** - Our entire product line can be ordered as bundles of uncut or cut-to-length profiles, with packages of fasteners and accessories.

## Profiles

Parker Industrial Profile Systems has one of the most comprehensive product offerings in the industry.

- **More than 100+ individual high-strength aluminum profiles**
- **All structural profiles are aircraft grade, high strength, mill-certified with metallurgical properties of 6105-T5**
- **Aesthetically appealing extrusions offer best-in-class rigidity, durability, and hardness**
- **Unique T-slot design for reliable connection and easy modification**
- **Metric sizes range from 20 mm to 160 mm; inch sizes range from 1" to 6"**
- **Extensive range of smooth, grooveless profiles**

## Linear Motion Components

- **Roller bearing components**
- **Delrin and UHMW slide bearings**
- **Easy-to-design, do-it-yourself, belt-driven solutions**

## Tools and Support

Parker IPS offers the tools needed to design and develop your assembly solution. Download the tools you need at:

[www.parkermotion.com/ips](http://www.parkermotion.com/ips)

- **Complete selection and specification information on all IPS products available on-line in pdf format**
- **3D CAD files for all available IPS products**

Avoid paying too much for an over-engineered solution, contact our applications team today at 800-333-4932 for quick response and help with designing the best solution.

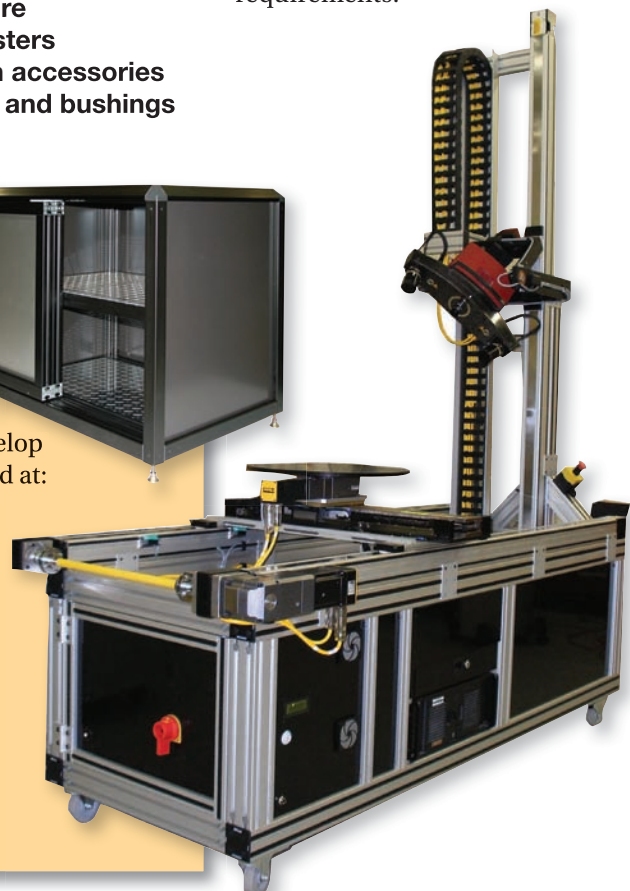
## Fasteners and Accessories

The design of our structural framing fasteners and accessories takes a number of criteria into consideration, including functionality, aesthetics, strength, ease of assembly, and modular, flexible adaptation.



Parker offers a complete line of accessories to provide the right part for your application including:

- **T-slots, end caps, fasteners, and covers**
- **Gussets, plates and brackets**
- **Handles and hinges**
- **Panels, sliding doors and gate hardware**
- **Feet and casters**
- **Work station accessories**
- **Slide blocks and bushings**



## Panels & Wire Mesh

Panels and wire mesh are available in full sheets or to specified cut-to-size dimensions. Standard panel choices include:

- **Lexan®**
- **Trespa®**
- **Expanded PVC**
- **PVC coated wire mesh**
- **Aluminum composite**

Specialty panels of any material can be ordered for any project.

## Machining Services

Standard machining options include cutting, tapping, drilling, and counter boring. Additional custom machining by our expert machinists ensure that your design is complete and to your exact requirements.

# Together we can help you think it, design

From Concept to Completion.

## Markets Served

- Aerospace
- Automotive
- Educational
- Industrial manufacturing
- Medical
- Packaging
- Pharmaceutical
- Plastics
- Semiconductor
- Textiles
- Tires

## Typical Applications

- Motion systems integration
- Enclosures and guarding
- Machine bases and frames
- Workstations and tables
- Material handling systems
- Lean manufacturing tools
- Clean room applications
- Conveyor frames
- Test equipment
- Tool racks
- Test tables
- Tradeshow booths
- Store fixtures
- Sound enclosures

Turn your brainstorm into an application quote in as little as 24 hours – Parker’s application engineers can do it!

Are other structural aluminum providers hampering your solution? Our experienced applications engineers can convert pen or pencil sketches into final drawings and quotes, often saving you money.

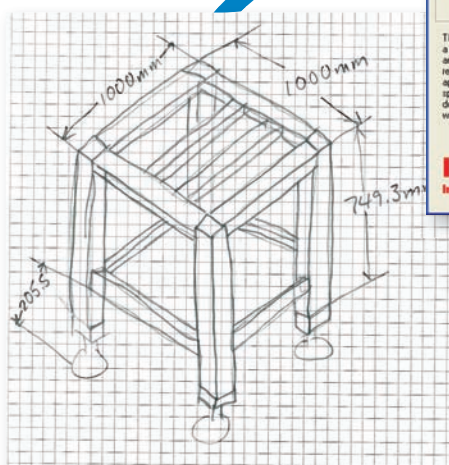
Parker can also supply engineered kits or sub-assemblies to make your next project flow smoothly. Most quotes can be turned around within 24 hours.

Call **330-335-6740** or **800-333-4932** to discuss your requirements with an applications engineer.

## Parker Structural System Designer (PSD)

Parker IPS utilizes the most versatile modeling package available for engineering high-strength structural systems. Our advanced 3D modeling will save you time and money, allowing engineers to test the form, fit and function of a complete structural system design.

Parker PSD will produce 3D model output for most 3D CAD packages. Graphic output is also available for design review.



Deflection and Stress Calculation Program v2.0.2

**1 - Select a profile**  
 10.080 80x40 Standard

**2 - Enter profile length**  
 max 5000 mm  
 1000 mm

**3 - Define the load**  
 Concentrated Load  
 50 N  
 Additional Uniform Load  
 0 N/m

**Profile Properties**

|   | X-axis         | Y-axis         |
|---|----------------|----------------|
| Moment of Inertia, cm <sup>4</sup> [in <sup>4</sup> ] | 71.97 [1.7291] | 17.23 [0.4140] |
| Section Modulus, cm <sup>3</sup> [in <sup>3</sup> ]   | 17.99 [1.0976] | 8.62 [0.5260]  |
| Profile Weight, kg/m [lb/ft]                          | 3.18 [2.14]    |                |

**Maximum Deflection at Critical Points, mm [inch]**

|                        | mm           | [inch]       |
|------------------------|--------------|--------------|
| Supported at Both Ends | 0.03 [0.001] | 0.12 [0.005] |
| Fixed at One End       | 0.41 [0.016] | 1.71 [0.067] |
| Fixed at Both Ends     | 0.01 [0.000] | 0.03 [0.001] |

**Maximum Stress at Critical Points, N/mm<sup>2</sup> [psi]**

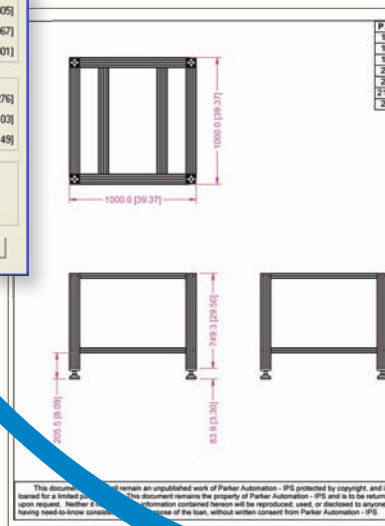
|                        | N/mm <sup>2</sup> | [psi]      |
|------------------------|-------------------|------------|
| Supported at Both Ends | 0.9 [132]         | 1.9 [276]  |
| Fixed at One End       | 3.6 [529]         | 7.6 [1103] |
| Fixed at Both Ends     | 0.5 [71]          | 1.0 [149]  |

**Stress Limits**

|   |              |
|---|--------------|
| Yield Strength (0.2%), N/mm <sup>2</sup> [psi]    | 240 [35 000] |
| Factor of Safety (D=1)                            | 1            |
| Allowable Working Stress, N/mm <sup>2</sup> [psi] | 240 [35 000] |

**IPS™**  
 Industrial Profile Systems

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 800-333-4932 281-853-0100 281-893-4836 fax  
[www.industrialsystems.com](http://www.industrialsystems.com)



# Design and build it...

## Need a Quote in a Hurry?

Parker IPS has the engineering experience to make ground-up system development quick and easy. From our design software packages to our assembly or kitted solutions, we take system development to the next level. Let us assist you in designing your next system from concept to completion.



The IPS team of engineers is available to help design systems to ensure perfect field integration. IPS solutions are custom fabricated and shipped installation ready as kit or complete assemblies within a few business days.

### Machine Services

- Cutting
- Tapping
- Drilling
- Counter boring

Custom services also available by our expert machinists to meet your exact requirements.

### Value Added Services

- Metric and Imperial design catalog
- Parker Structural System Designer (PSD)
- Motion system integration
- Deflection program
- Engineering quotes and drawings
- Quick quote software
- Assembly manuals
- Assemblies, kits and bundles

Parker Hannifin Corp.  
Electromechanical, N.A.

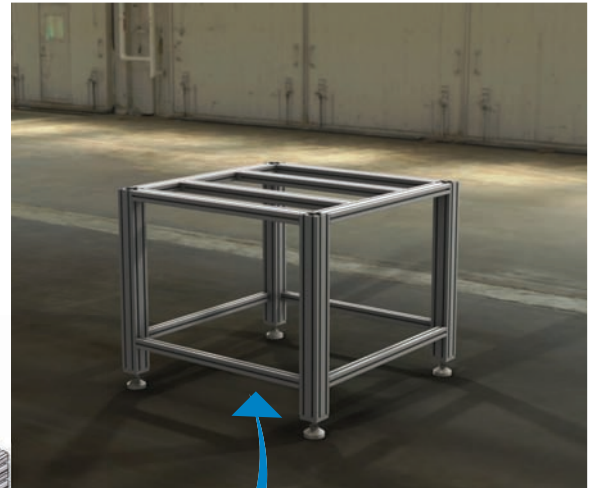
**QUOTATION**

Part Number: Parker IPS 135 Quadral Drive, Wadsworth, OH 44381

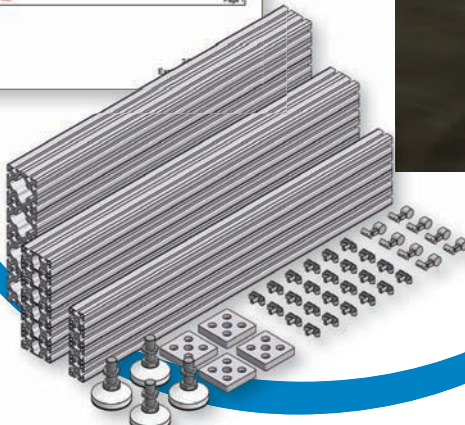
Customer: \_\_\_\_\_ Date: 02/07/11  
 Customer No: \_\_\_\_\_ Salesperson: \_\_\_\_\_  
 Requestor: \_\_\_\_\_ Shipping Address: \_\_\_\_\_ Customer E-Mail: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Billing Address: \_\_\_\_\_ RFG or PO #: \_\_\_\_\_  
 Units Quoted: 1 Unit Ship Date: \_\_\_\_\_  
 1 Unit Req to-Quote Date: \_\_\_\_\_  
 1 Unit Ship Via: \_\_\_\_\_

| Part Number | Qty | Length | UOM | Description                      | Buy Cut | Tap | Hole | Units | Unit List Price | Line Disc | Unit Net Price | List Extended Price | Total Bk | Notes |
|-------------|-----|--------|-----|----------------------------------|---------|-----|------|-------|-----------------|-----------|----------------|---------------------|----------|-------|
| 1 11-088    | 4   | 748.3  | mm  | PFL BOARD HVT CLR                | -       | -   | -    | 61.09 | 61.09           | 0         | 244.20         | 46.3                |          |       |
| 2 19-000    | 4   | 840    | mm  | PFL BOARD STD CLR                | -       | -   | -    | 32.78 | 32.78           | 0         | 131.14         | 25.3                |          |       |
| 3 10-040    | 4   | 840    | mm  | PFL BOARD STD CLR                | -       | -   | -    | 18.75 | 18.75           | 0         | 75.00          | 14.7                |          |       |
| 4 20-004    | 8   | -      | mm  | UNIV FITING SET 400              | -       | -   | -    | 3.00  | 3.00            | 0         | 24.00          | 4.7                 |          |       |
| 5 20-002    | 8   | -      | mm  | STD FITING SET 400               | -       | -   | -    | 1.58  | 1.58            | 0         | 12.64          | 2.4                 |          |       |
| 6 21-004    | 4   | -      | mm  | BASE PLATE BOARD-400 (ALUM)      | -       | -   | -    | 20.40 | 20.40           | 0         | 81.60          | 15.8                |          |       |
| 7 21-015    | 4   | -      | mm  | SLANG FOOT 400 SIVVEL ANTI-SHOCK | -       | -   | -    | 31.45 | 31.45           | 0         | 125.80         | 24.8                |          |       |

Internal Version 4.2  
Copy of Internal Quick Quote v4.2



| LENGTH DISCR   | PRICE |
|----------------|-------|
| 740.00 PFL 200 | 46.3  |
| 840.00 PFL 400 | 25.3  |
| 840.00 PFL 600 | 14.7  |
| UNIV FE        | 4.7   |
| STD FS         | 2.4   |
| BASE P         | 15.8  |
| LVLNG          | 24.8  |



# Factory Location & Contact Information

## A Commitment to Customer Service

Customer service and customer satisfaction is our objective. IPS service centers are located throughout North America to support our customers with local inventory, engineering, fabrication, assembly and installation.



## For More Information...



**For a hardcopy of our new catalog:**

Call or email us to request catalog 1816/3



**On the web:**

Download your IPS catalog or 3D CAD files at [www.parkermotion.com/ips](http://www.parkermotion.com/ips)



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Fax: 330-334-2350  
Email: [ipsquotes@parker.com](mailto:ipsquotes@parker.com)  
[emn\\_support@parker.com](mailto:emn_support@parker.com)