

TALBOYS

Hotplate/Stirrers



Performance,
Selection,
Control

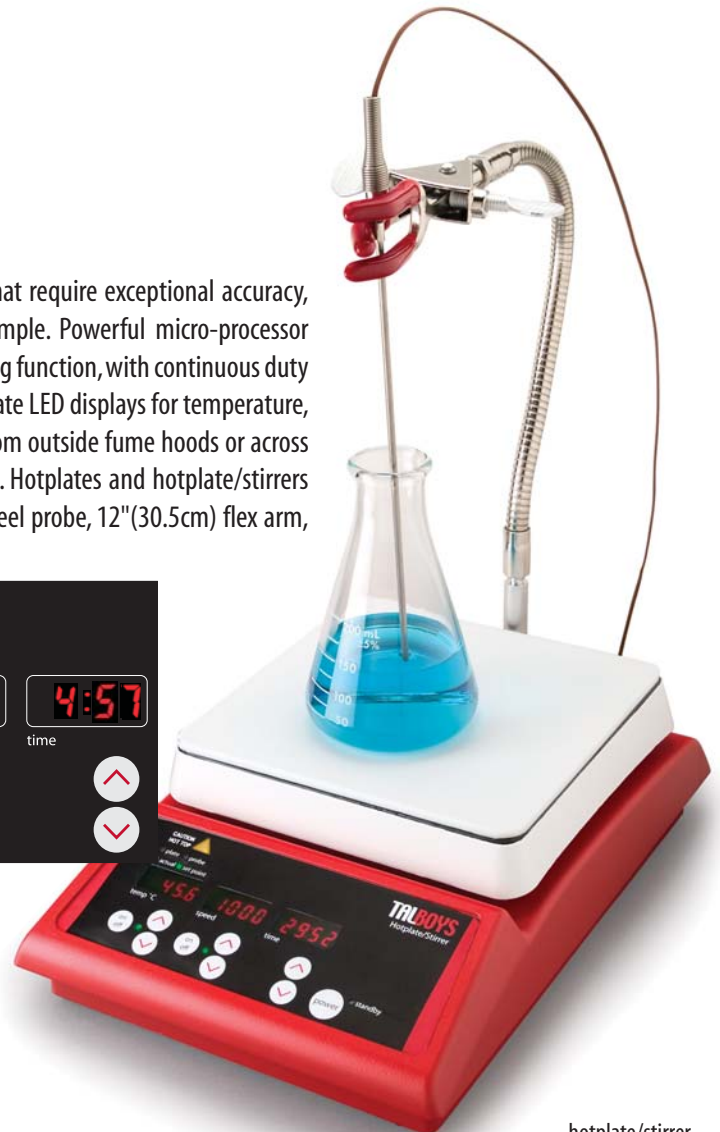
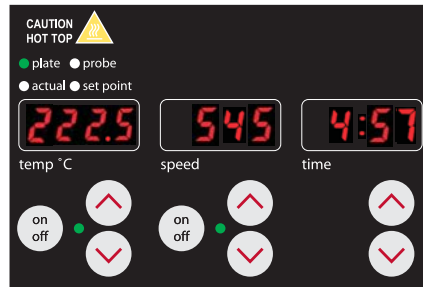
Professional Hotplates, Stirrers and Hotplate/Stirrers

- Display for speed, temperature, and time
- External temperature probe
- Electronic stir brake
- Safety system protects operator
- Includes ultra flex support kit

Professional hotplates, stirrers, and hotplate/stirrers are designed for applications that require exceptional accuracy, stability and repeatability. Exclusive safety system helps protect operator and sample. Powerful micro-processor control offers an external probe option that delivers $\pm 1\%$ temperature stability. Stirring function, with continuous duty motor and magnet, maintains set speed even under changing load or viscosity. Separate LED displays for temperature, speed and time allow operator to view all settings at once. Display is easily visible from outside fume hoods or across lab benches. Spill-resistant housing channels fluids away from internal components. Hotplates and hotplate/stirrers are supplied with a probe kit package. The probe kit includes 8" (20.3cm) stainless steel probe, 12" (30.5cm) flex arm, interchangeable 3-prong clamp, 2-prong clamp and spring clamp heads.

Safety system includes:

- **Maximum temperature limiting** - User defined plate limiting temperature ensures unit will never exceed users programmed limit, allowing for control of sensitive flash points (for heating models).
- **Probe protection** - If probe disengages from sample, unit will automatically shut off heater (for heating models).
- **Stir protection** - If stirrer motor stops or fails, unit will automatically shut down heater (for stirring models).
- **Overshoot protection** - If unit exceeds set temperature by 10°C unit will automatically shut down (for heating models).
- **Hot top indicator** - Hot symbol warning light is illuminated when unit is heated above 40°C. Remains on until unit cools below 40°C, even when heater is turned off (for heating models).
- **Audible alarm** - In timed mode alarm will sound when time reaches zero or when unit reaches set-point temperature (for heating models).



hotplate/stirrer with ultra flex support kit

Micro-processor control - Regulates both heating and stirring functions. Samples are heated to temperature

quickly and accurately. Speed is precisely controlled, and provides consistent stirring throughout the entire range. Ramping feature slowly increases speed to avoid splashing, improves magnetic coupling and provides excellent low speed control.

LED display - Shows set point and actual temperatures, speed from 60 to 1600rpm and time from 1 second to 160 hours. Display is easy-to-read and provides repeatable and accurate results every time. Timer will display elapsed time or when programmed to user defined limit, will shut off unit when time reaches zero.

Ceramic or aluminum top plate materials - Ceramic tops feature a chemical resistant, reflective white top plate surface that's easy to clean. Durable aluminum tops will provide a more even heating surface and will not crack or chip.

Electronic stir brake - Quickly stops spin bar when stir function is turned off. Powerful, continuous duty motor and magnet deliver dependable and reliable stirring for a long service life (for stirring models).

Optional NIST traceable certificate - Includes a 4 point NIST traceable calibration. The traceable certificate includes actual calibration measurement data and uncertainty. The calibration laboratory is NVLAP accredited to the ISO/IEC 17025 standard (for heating models).



Professional Specifications

| | |
|-------------------------------|---|
| Dimensions, Top Plate | 7 x 7" (17.8 x 17.8cm) |
| Temperature Range | ceramic ambient +5° to 500°C aluminum ambient +5° to 400°C |
| Temperature Stability* | ±1% |
| Speed Range | 60 to 1600rpm |
| Speed Stability | ±2% |
| Maximum Capacity | 2500mL |
| Dimensions, Overall | 12"L x 8.25"W x 3.5"H (30.5cm x 21cm x 8.9cm) |
| Shipping Weight | 9.45lbs (4.3kg) |

* Below 100°C ±1°C. Environmental and sample conditions permitting.

Ordering Information

Units include a detachable, 3-wire cord and plug (230 volt units are supplied with Euro type plug). Stirrers and hotplate/stirrers are supplied with a PTFE coated spin bar. UL, cUL, CE marked.

| Professional Hotplates | | | | | |
|---|----------------|---------------------------|-------------------|--------------------|--------------|
| Dimensions | Model # | Top Plate Material | Electrical | Part Number | Price |
| 7 x 7 | P-HP70 | Ceramic | 120v 50/60 Hz | 985611 | \$660.00 |
| 7 x 7 | P-HP70 | Ceramic | 230v 50/60 Hz | 985614 | 817.00 |
| 7 x 7 | P-HP75 | Aluminum | 120v 50/60 Hz | 985621 | 807.00 |
| 7 x 7 | P-HP75 | Aluminum | 230v 50/60 Hz | 985624 | 999.00 |
| Professional Hotplates with NIST traceable certificate | | | | | |
| Dimensions | Model # | Top Plate Material | Electrical | Part Number | Price |
| 7 x 7 | P-HPT70 | Ceramic | 120v 50/60 Hz | 985651 | \$940.00 |
| 7 x 7 | P-HPT70 | Ceramic | 230v 50/60 Hz | 985654 | 1124.00 |
| 7 x 7 | P-HPT75 | Aluminum | 120v 50/60 Hz | 985661 | 1090.00 |
| 7 x 7 | P-HPT75 | Aluminum | 230v 50/60 Hz | 985664 | 1320.00 |
| Professional Stirrers | | | | | |
| Dimensions | Model # | Top Plate Material | Electrical | Part Number | Price |
| 7 x 7 | P-S70 | Ceramic | 120v 50/60 Hz | 985612 | \$692.00 |
| 7 x 7 | P-S70 | Ceramic | 230v 50/60 Hz | 985615 | 856.00 |
| 7 x 7 | P-S75 | Aluminum | 120v 50/60 Hz | 985622 | 839.00 |
| 7 x 7 | P-S75 | Aluminum | 230v 50/60 Hz | 985625 | 1035.00 |
| Professional Hotplate/Stirrers | | | | | |
| Dimensions | Model # | Top Plate Material | Electrical | Part Number | Price |
| 7 x 7 | P-HPS70 | Ceramic | 120v 50/60 Hz | 985613 | \$797.00 |
| 7 x 7 | P-HPS70 | Ceramic | 230v 50/60 Hz | 985616 | 857.00 |
| 7 x 7 | P-HPS75 | Aluminum | 120v 50/60 Hz | 985623 | 940.00 |
| 7 x 7 | P-HPS75 | Aluminum | 230v 50/60 Hz | 985626 | 1010.00 |
| Professional Hotplate/Stirrers with NIST traceable certificate | | | | | |
| Dimensions | Model # | Top Plate Material | Electrical | Part Number | Price |
| 7 x 7 | P-HPST70 | Ceramic | 120v 50/60 Hz | 985653 | \$1074.00 |
| 7 x 7 | P-HPST70 | Ceramic | 230v 50/60 Hz | 985656 | 1172.00 |
| 7 x 7 | P-HPST75 | Aluminum | 120v 50/60 Hz | 985663 | 1224.00 |
| 7 x 7 | P-HPST75 | Aluminum | 230v 50/60 Hz | 985666 | 1340.00 |

Advanced Hotplates, Stirrers and Hotplate/Stirrers

- **Electronic stir brake**
- **LED display**
- **Overshoot protection**
- **On-board memory recalls last set temperature**

Advanced hotplates, stirrers and hotplate/stirrers deliver accurate and repeatable results. Low profile, space saving design takes up less space in the lab. Spill-resistant housing channels fluids away from internal components. Front panel features easy-to-use controls which allow users to dial-in adjustments. Integral support rod holder with locking knob accepts the optional ultra flex support kit. Kit includes 12"(30.5cm) flex arm, interchangeable 3-prong clamp, 2-prong clamp and spring clamp heads. Also available is the support rod and clamp kit which includes an 18"(45.7cm) support rod, thermometer/temperature probe extension clamp, 3-prong medium swivel clamp, and hook connector.

Micro-processor control - Regulates both heating and stirring functions. Samples are heated to temperature quickly and accurately. Speed is precisely controlled, and provides consistent stirring throughout the entire range. Ramping feature slowly increases speed to avoid splashing, improves magnetic coupling and provides excellent low speed control.

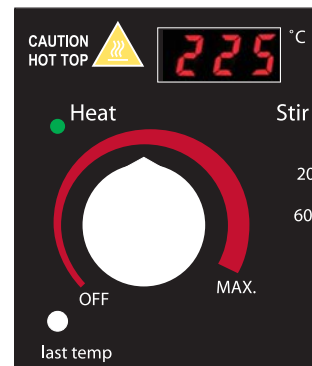
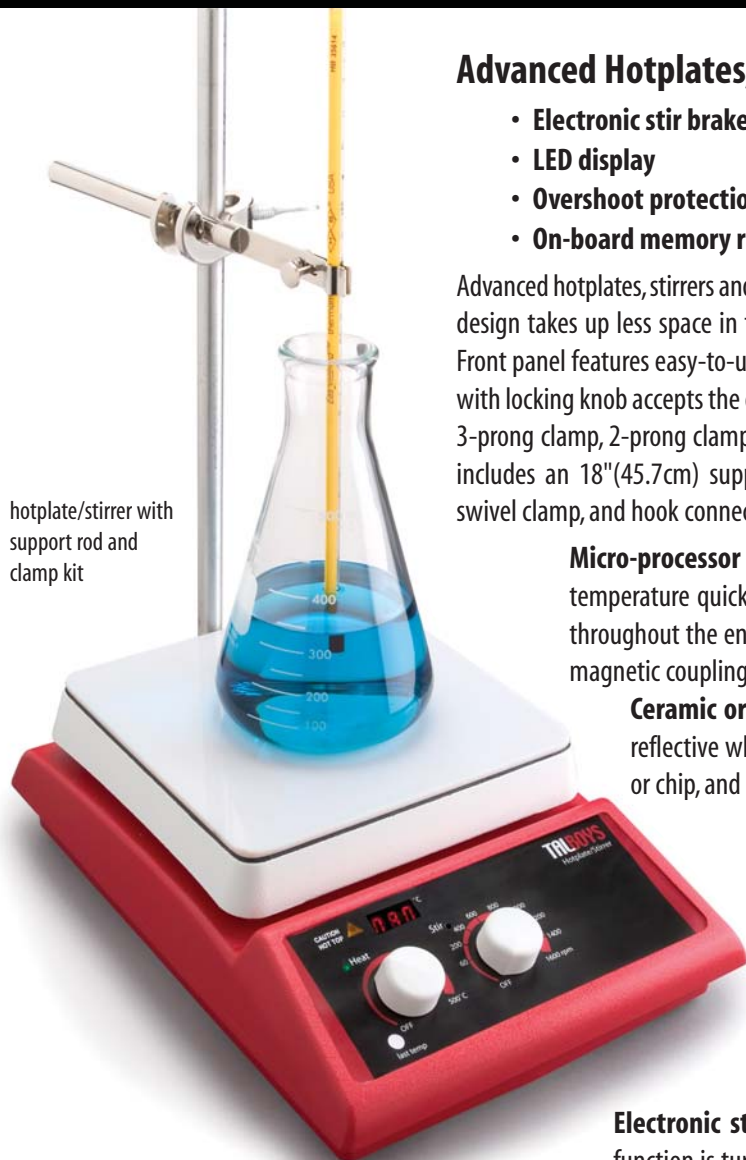
Ceramic or aluminum top plate materials - Ceramic tops feature a chemical resistant, reflective white top plate surface that's easy to clean. Durable aluminum tops will not crack or chip, and provide a more even heating surface.

LED display - Shows set point temperature. Display is easy-to-read and provides repeatable and accurate results every time.

Hot top indicator - For additional safety, hot symbol warning light is illuminated when unit is heated above 40°C. Remains on until unit cools below 40°C, even when heater is turned off.

Electronic stir brake - Quickly stops spin bar when stir function is turned off. Powerful, continuous duty motor and magnet deliver dependable and reliable stirring for a long service life (for stirring models).

hotplate/stirrer with support rod and clamp kit



Stir protection - If stirrer motor stops or fails, unit will automatically shut down heater (for stirring models).

Overshoot protection - If unit exceeds set temperature by 10°C unit will automatically shut down.

Recall last temp - Built-in memory allows users to recall last set temperature even when unit has been turned off.



Advanced Specifications

| Dimensions, Top Plate | 4 x 4"(10.2 x 10.2cm) | 7 x 7"(17.8 x 17.8cm) |
|------------------------------|---|--|
| Temperature Range | ceramic ambient +5° to 500°C aluminum ambient +5° to 400°C | ambient +5° to 500°C ambient +5° to 400°C |
| Temperature Stability | ceramic* ±3% aluminum* ±2% | ±3% ±2% |
| Speed Range | 60 to 1600rpm | 60 to 1600rpm |
| Speed Stability | ±2% | ±2% |
| Maximum Capacity | 600mL | 2500mL |
| Dimensions, Overall | 9.13"L x 5.38"W x 3.5"H (23.2cm x 13.7cm x 8.9cm) | 12"L x 8.25"W x 3.5"H (30.5cm x 21cm x 8.9cm) |
| Shipping Weight | 5.55lbs(2.5kg) | 8.66lbs(3.9kg) |

* Below 100°C ±2°C. Environmental and sample conditions permitting.



ultra flex support kit

Ordering Information

Units include a detachable, 3-wire cord and plug (230 volt units are supplied with Euro type plug). Stirrers and hotplate/stirrers are supplied with a PTFE coated spin bar. UL, cUL, CE marked.

| Advanced Hotplates | | | | | |
|-----------------------------------|----------------|---------------------------|-------------------|--------------------|--------------|
| Dimensions | Model # | Top Plate Material | Electrical | Part Number | Price |
| 4 x 4 | A-HP40 | Ceramic | 120v 50/60 Hz | 985511 | \$194.00 |
| 4 x 4 | A-HP40 | Ceramic | 230v 50/60 Hz | 985514 | 285.00 |
| 4 x 4 | A-HP45 | Aluminum | 120v 50/60 Hz | 985521 | 232.00 |
| 4 x 4 | A-HP45 | Aluminum | 230v 50/60 Hz | 985524 | 385.00 |
| 7 x 7 | A-HP70 | Ceramic | 120v 50/60 Hz | 985531 | 217.00 |
| 7 x 7 | A-HP70 | Ceramic | 230v 50/60 Hz | 985534 | 299.00 |
| 7 x 7 | A-HP75 | Aluminum | 120v 50/60 Hz | 985541 | 257.00 |
| 7 x 7 | A-HP75 | Aluminum | 230v 50/60 Hz | 985544 | 335.00 |
| Advanced Stirrers | | | | | |
| Dimensions | Model # | Top Plate Material | Electrical | Part Number | Price |
| 4 x 4 | A-S40 | Ceramic | 120v 50/60 Hz | 985412 | \$240.00 |
| 4 x 4 | A-S40 | Ceramic | 230v 50/60 Hz | 985415 | 303.00 |
| 4 x 4 | A-S45 | Aluminum | 120v 50/60 Hz | 985422 | 272.00 |
| 4 x 4 | A-S45 | Aluminum | 230v 50/60 Hz | 985425 | 259.00 |
| 7 x 7 | A-S70 | Ceramic | 120v 50/60 Hz | 985432 | 251.00 |
| 7 x 7 | A-S70 | Ceramic | 230v 50/60 Hz | 985435 | 329.00 |
| 7 x 7 | A-S75 | Aluminum | 120v 50/60 Hz | 985442 | 277.00 |
| 7 x 7 | A-S75 | Aluminum | 230v 50/60 Hz | 985445 | 372.00 |
| Advanced Hotplate/Stirrers | | | | | |
| Dimensions | Model # | Top Plate Material | Electrical | Part Number | Price |
| 4 x 4 | A-HPS40 | Ceramic | 120v 50/60 Hz | 985513 | \$356.00 |
| 4 x 4 | A-HPS40 | Ceramic | 230v 50/60 Hz | 985516 | 329.00 |
| 4 x 4 | A-HPS45 | Aluminum | 120v 50/60 Hz | 985523 | 419.00 |
| 4 x 4 | A-HPS45 | Aluminum | 230v 50/60 Hz | 985526 | 455.00 |
| 7 x 7 | A-HPS70 | Ceramic | 120v 50/60 Hz | 985533 | 377.00 |
| 7 x 7 | A-HPS70 | Ceramic | 230v 50/60 Hz | 985536 | 442.00 |
| 7 x 7 | A-HPS75 | Aluminum | 120v 50/60 Hz | 985543 | 448.00 |
| 7 x 7 | A-HPS75 | Aluminum | 230v 50/60 Hz | 985546 | 520.00 |
| Accessories | | | | | |
| Description | | | | Part Number | Price |
| Ultra flex support kit | | | | 985797 | \$89.00 |
| Support rod and clamp kit | | | | 985690 | 79.00 |



Basic Mini Hotplate, Stirrer, Hotplate/Stirrer

- Stirs from 100 to 1200 rpm
- Heats up to 400°C
- Mixes up to 1000ml of water
- Ideal for educational labs
- Cast aluminum top plate
- Built-in support rod holder

This rugged, compact unit heats and stirs up to 1000ml of liquid. Durable 4.5"(11.4cm) diameter cast aluminum top plate provides an even heating surface. Bi-metallic thermostat offers reliable temperature control. Powerful heater reaches maximum temperature in only minutes. Electronic speed control adjusts stirring from 100 to 1200 rpm. Powerful motor and magnet deliver reliable and consistent stirring. Compact design saves bench space. The built-in support rod holder with locking knob accepts optional support rod and clamp kit. The support rod and clamp kit includes 18"(45.7cm) support rod, thermometer extension clamp, 3-prong medium swivel clamp, and hook connector. Optional support plate allows hotplate to be mounted to lab frames or ring stands.

Mini Specifications

| | |
|----------------------|---|
| Temperature Range | to 400°C |
| Speed Range | 100 to 1200rpm |
| Maximum Capacity | 1000mL |
| Dimension, Top Plate | 4.5"(11.4cm) diameter |
| Dimensions, Overall | 6.5"L x 5.75"W x 4.75"H (16.5cm x 14.6cm x 12.1cm) |
| Shipping Weight | 4.5lbs(2kg) |

Ordering Information

Units include a 72"(183cm), 3-wire cord and plug (230 volt units are supplied with Euro type plug). Stirrers and hotplate/stirrers are supplied with a PTFE coated spin bar. UL, cUL, CE marked.

Mini Hotplate, Stirrer, Hotplate/Stirrer

| Description | Electrical | Part Number | Price |
|-----------------------|---------------|-------------|----------|
| Mini hotplate | 120v 50/60 Hz | 953201 | \$125.00 |
| Mini hotplate | 230v 50/60 Hz | 953205 | 132.00 |
| Mini stirrer | 120v 50/60 Hz | 953200 | 149.00 |
| Mini stirrer | 230v 50/60 Hz | 953204 | 109.00 |
| Mini hotplate/stirrer | 120v 50/60 Hz | 953202 | 293.00 |
| Mini hotplate/stirrer | 230v 50/60 Hz | 953206 | 315.00 |

Accessories

| Description | Part Number | Price |
|--|-------------|---------|
| Support rod and clamp kit | 985690 | \$79.00 |
| Support plate, 9.5"L x 6.5"W (24.1 x 16.5cm) | 916299 | 89.00 |

Accessories

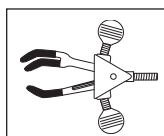


Ultra Flex Support Kit

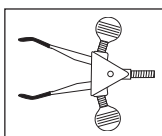
Extremely versatile with a unique flex arm that can be placed in virtually every position or angle. Includes 12" (30.5cm) flex arm and interchangeable 3-prong clamp, 2-prong clamp and spring clamp heads.

| Description | Part Number | Price |
|------------------------|-------------|---------|
| Ultra flex support kit | 985797 | \$89.00 |

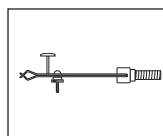
Ultra Flex Support Kit Includes:



3-prong clamp



2-prong clamp



Spring clamp



Support Rod and Clamp Kit

Designed for holding temperature probes, thermometers or other glass tubes. Includes an 18" (45.7cm) support rod, thermometer/temperature probe extension clamp, 3-prong medium swivel clamp, and hook connector.

| Description | Part Number | Price |
|---------------------------|-------------|---------|
| Support rod and clamp kit | 985690 | \$79.00 |



Support Plates

Designed to hold hotplate/stirrers and other apparatus to lab-frames or ring stands. Support plates include holder for mounting to vertical rod up to .75" (1.9cm) and non-skid mat. Aluminum construction offers strength and durability.

| Size | Dimensions | Part Number | Price |
|--------|-----------------------------|-------------|---------|
| Small | 9.5 x 6.5" (24.1 x 16.5cm) | 916299 | \$89.00 |
| Medium | 12.75 x 9" (32.4 x 22.9cm) | 916300 | 139.00 |
| Large | 15.75 x 12" (40.0 x 30.5cm) | 916302 | 179.00 |



Stainless Steel Lab-lifts

Stable lifting platforms easily raise or lower hotplate/stirrers. Ideal for use in fume hoods, allowing air to flow under hotplate/stirrer for better ventilation and safety. Constructed of 300 series stainless steel, heavy-duty lab-lifts are designed for use in extreme environments and high load applications. Equipped with over-sized, sure-grip adjustment knobs that provide extra leverage for easy height adjustments. Stainless steel construction allows them to be autoclaved or chemically cleaned.

| Deck Size | Max. Ht. | Closed Ht. | Capacity | Part Number | Price |
|--------------------------|----------------|--------------|---------------|-------------|----------|
| 8 x 8" (20.3 x 20.3cm) | 13" (33.0cm) | 3.5" (8.9cm) | 55lbs (25kg) | 960057 | \$249.00 |
| 10 x 10" (25.4 x 25.4cm) | 13" (33.0cm) | 3.5" (8.9cm) | 80lbs (36kg) | 960058 | 329.00 |
| 12 x 12" (30.5 x 30.5cm) | 19.5" (49.5cm) | 4" (10.2cm) | 150lbs (68kg) | 960059 | 599.00 |

TALBOYS

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