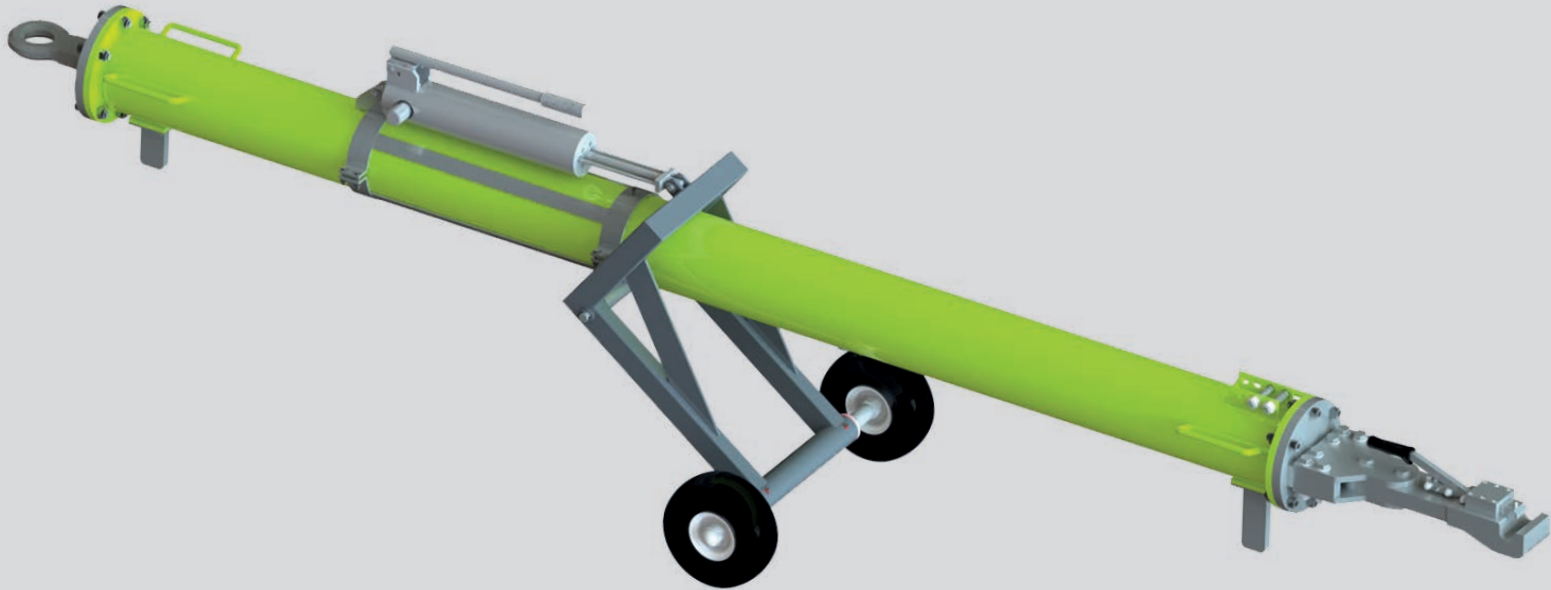




In safe hands.



TOW-BARS PRODUCT CATALOGUE



TOW-BARS FOR COMMERCIAL AIRCRAFT



TOW-BARS FOR MILITARY AIRCRAFT



TOW-BARS FOR REGIONAL AIRCRAFT

| | | | |
|--|---|--|---|
| <p>Max:</p> <p>560</p> <p>tons push/pull for A380</p> | <p>65%</p> <p>of our customers choose the standard tow-bar version</p> | <p>15%</p> <p>choose the multi version, designed for use with multiple aircraft</p> | <p>At least</p> <p>10</p> <p>years of spare parts availability</p> |
|--|---|--|---|

TOW-BAR MODELS FOR COMMERCIAL AIRCRAFT

| Manufacturer | Aircraft | Standard tow-bar | Universal tow-bar | TOWMULTI multiple applications | TOWMULTI towhead | Fly-Away tow-bar |
|-------------------|--|------------------------------|------------------------|-----------------------------------|------------------------------|-------------------------------|
| AIRBUS | A220-100, A220-300 | TOWCS300S | | | | TOWCS300F |
| | A300, A310 | TOWA300-AS (lockpin type) | | TOWMULTI1S | TOWHEAD-1J (lockpin type) | TOWA310-L-8 (lockpin type) |
| | | TOWA300S (clamp type) | | | TOWHEAD-1D (clamp type) | TOWA310-C-8 (clamp type) |
| | A318, A319, A320, A321, A319neo, A320neo, A321neo | TOWA320S | TOWUNIV3S TOWUNIV9S | TOWMULTI-2 | TOWHEAD-2C | TOWA320F |
| | A330-200, A330-200F, A330-300, A330-800, A330-900 | TOWUNIV4S | TOWUNIV8S | TOWMULTI1S | TOWHEAD-1A | TOWA330-C-8 |
| | A340-200/ -300 | TOWUNIV4S | TOWUNIV8S | TOWMULTI1S | TOWHEAD-1A | |
| | A340-500/ -600 | TOWA345S | | | | TOWA345-C-8 |
| | A350-900/ -1000 | TOWUNIV4S | TOWUNIV8S | TOWMULTI1S | TOWHEAD-1A | TOWA350-C-8 |
| BOEING | A380 | TOWA380S | | | | TOWA380F |
| | B707 | TOWB707S | | TOWMULTI1S | TOWHEAD-1L | |
| | B717 | TOWMD80-L | | | | |
| | B727 | TOWB727S | | | | |
| | B737-300/ -400/ -500/ -600/ -700/ -800/ -900/ -7/ -8/ -9 | TOWB737S | TOWUNIV3S | TOWMULTI-2 | TOWHEAD-2B | TOWB737F |
| | B747 | TOWB747S | | TOWMULTI1S | TOWHEAD-1E | TOWB747-C-8 |
| | B757 | TOWB757S | | TOWMULTI1S TOWMULTI-2 | TOWHEAD-1F TOWHEAD-2H | TOWB757-C-8 |
| | B767 | TOWUNIV4S | TOWUNIV8S | TOWMULTI1S | TOWHEAD-1A | TOWB767-C-8 |
| MCDONNELL DOUGLAS | B777-200/ -300/ -200LR/ -300LR | TOWUNIV5S | TOWUNIV8S | TOWMULTI1S | TOWHEAD-1N | TOWUNIV5F |
| | B787-8/ -9/ -10 | TOWUNIV5S | TOWUNIV8S | TOWMULTI1S | TOWHEAD-1N | TOWUNIV5F |
| | DC-3 | | | | | TOWDC3-C-1+8 |
| | DC-8 | TOWDC08-L | | | | |
| | DC-9 | TOWMD80-L | | TOWMULTI-2 | TOWHEAD-2D | |
| ANTONOV | MD80, MD90 | TOWMD80-L | | TOWMULTI-2 | TOWHEAD-2D | |
| | DC-10-30/ -40, MD11 | | TOWUNIV6S | TOWMULTI1S | TOWHEAD-1N | |
| | AN-12 | TOWAN12-L | | TOWMULTI-2 | TOWHEAD-2G | |
| | AN-30 | TOWAN26-L | | | | |
| ILYUSHIN | AN-32 | TOWAN26-L | | | | |
| | AN-124 | TOWAN124-L | | | | TOWAN124-L-001 |
| | IL-18 | TOWIL18-L | | | | |
| | IL-62 | TOWIL62-L | | | | |
| | IL-76 | TOWIL76-L | | | | TOWIL76-L-8 |
| TUPOLEV | IL-86 | TOWIL86-L | | | | |
| | IL-96 | TOWIL96S | TOWUNIV4S | TOWMULTI1S | TOWHEAD-1A | TOWIL96-C-8 |
| | TU-134 | TOWT134-L | | TOWMULTI-2 | TOWHEAD-2E | |
| COMAC | TU-154 | TOWT154-L | | | | |
| | TU-204/ TU-214 | TOWT204-C | | TOWMULTI1S | TOWHEAD-1G | TOWT204-C-1+8 |
| | C919 | to be defined | | | | |

TOW-BAR MODELS FOR REGIONAL/ BUSINESS AIRCRAFT

| Manufacturer | Aircraft | Standard tow-bar | TOWMULTI multiple applications | TOWMULTI towhead | Fly-Away tow-bar |
|---------------------------------------|---|------------------|-----------------------------------|---------------------|---------------------|
| ANTONOV | AN-24/ -26/ -72/ -74 | TOWAN26-L | | | |
| | AN-140/ -148 | TOWAN148-C | | | TOWAN148-C-1+8 |
| ATR | ATR42/ ATR72 | TOWATRAS | TOWMULTI3S | TOWHEAD-3U | TOWMULTI3F |
| BAE SYSTEMS/ AVRO | BAE 146, RJ70, RJ85, RJ100, RJ115 | TOWAVRO-C | | | TOWAVRO-C-1+8 |
| BOMBARDIER/ CANADAIR/ DE HAVILLAND | CRJ-100/ -200/ -700/ -900/ -1000 | TOWREGIS | | | |
| | Dash7 | | TOWMULTI3S | TOWHEAD-31J | TOWMULTI3F |
| | Dash8-100/ -200/ -300 | | TOWMULTI3S | TOWHEAD-3A | TOWMULTI3F |
| | Dash8-Q400 | | TOWMULTI3S | TOWHEAD-3B | TOWMULTI3F |
| | GlobalExpress | TOWGLOB-L | | | |
| | Challenger 300 | TOWCL300-L | | | |
| | Challenger 850 | TOWREGIS | | | |
| | CS-100/ -300 | TOWCS300S | | | TOWCS300F |
| COMAC | ARJ21-700 | | | | TOWARJ21-C-1+8 |
| DASSAULT/ FALCON | Falcon 7X | | TOWMULTI3S | TOWHEAD-310 | TOWMULTI3F |
| | Falcon 10/20/100/200 | | TOWMULTI3S | TOWHEAD-3R | TOWMULTI3F |
| | Falcon 50EX/ 900DX/ 900EX/ 2000DX/ 2000EX | | TOWMULTI3S | TOWHEAD-3S | TOWMULTI3F |
| DORNIER | DO328 | TOWD328-L | | | |
| EMBRAER | ERJ-145 | TOWE145-L | TOWMULTI3S | TOWHEAD-3F | TOWMULTI3F |
| | LINEAGE 1000 | TOWE1701S | | | TOWE1701-C-1+8 |
| | EMBRAER 170/ 175/ 190/ 195 | TOWE1701S | | | TOWE1701-C-1+8 |
| | EMBRAER E190-E2/ E195-E2 | TOWUNIV9S | | | |
| FOKKER | F-27 | TOWF027-L | | | |
| | F-28 | TOWF028-L | | | |
| | Fokker 50/ 60 | TOWF050-C | TOWMULTI3S | TOWHEAD-3Q | TOWMULTI3F |
| | Fokker 70/ 100 | TOWF070S | | | TOWF070-C-1+8 |
| GULFSTREAM | GV/ G350/ G450/ G500/ G550 | | TOWMULTI3S | TOWHEAD-3G | TOWMULTI3F |
| SAAB | Saab 340/ -2000 | TOWSAAB-L | TOWMULTI3S | TOWHEAD-3D | TOWMULTI3F |
| SOCATA | TBM700/-850/ -900/ -910/ -930 | | TOWMULTI3S | TOWHEAD-31U | TOWMULTI3F |
| SUKHOI | RRJ-95 / SSJ 100-95 | TOWRRJ-C | | | TOWRRJ-C-1+8 |
| YAKOVLEV | Yak-40 | TOWYK40-L | TOWMULTI-2 | TOWHEAD-2L | |
| | Yak-42 | TOWYK42-L | TOWMULTI-2 | TOWHEAD-2K | |

TOW-BAR MODELS FOR MILITARY AIRCRAFT

| Manufacturer | Aircraft | Standard tow-bar | TOWMULTI multiple applications | TOWMULTI towhead | Fly-Away tow-bar |
|-----------------------|---------------|--------------------------------|-----------------------------------|---------------------|---------------------|
| AIRBUS HELICOPTERS | Tiger | T322G10T0005, TOWBARTIGER-C | | | |
| | AS532 Cougar | | | | TOWCOUG-C-8 |
| ANTONOV | AN-178 | TOWAN178-C | | | |
| BAE SYSTEMS | Taranis | | TOWMULTI3S | TOWHEAD-31V | TOWMULTI3F |
| BOEING-VERTOL | CH-47 | TOWCH47-L | | | TOWCH47-L-1+8 |
| EADS CASA | C-295, CN235 | TOWC295-L | TOWMULTI3S | TOWHEAD-31E | TOWMULTI3F |
| | A400M | TOWA400-C | | | TOWA400-C-4+8 |
| EUROFIGHTER | Typhoon | TOWEF20-L | | | |
| HINDUSTAN AERONAUTICS | HJT-36 Sitara | TOWIJT36-L | | | |
| LOCKHEED | C-130 | TOWC130-C | | | |
| | F-16 | AS68 | | | |
| | F-35 | TOWF35S | | | |
| MIL | MI-8 | | TOWMULTI3S | TOWHEAD-31R | TOWMULTI3F |
| | MI-26 | TOWMI26-L | | | |
| NATO HELICOPTER IND. | NH90 | TOWNH90-L | | | |
| SIKORSKY | CH-53 | TOWCH53-L | | | |
| TRANSALL | C-160 | TOWC160 | | | |

HYDRO TOW-BARS: THE INSPIRING BEST PRACTICE SOLUTION

” As a company, dnata are expanding throughout the UK, having opened new operations in London Heathrow and Manchester airports. To support our customer airlines, HYDRO have become the preferred supplier for aircraft tow-bars. The reasons are simple; the package is excellent from customer services, quality of product, after sales support to delivery times. We consider HYDRO to be the world leader in design and safety aspects giving confidence for use in our operation. Tight schedules have not been a problem as HYDRO have been working in partnership to help us achieve them. ”

John Edmunds, Business Manager at dnata

” Our ground handling team at Dubai airport (DXB) currently has two HYDRO towbars (model TOWUNIV8S20SH1) in service since February 2019. They have been performing very well thanks to their flexibility in service for aircraft ranging from A350 to B777/ 787. We're very satisfied with the technical support and service we have received from HYDRO. ”

Robert Powell

Vice President - Technical Services dnata

TOW-BAR MODELS



STANDARD

Our standard tow-bars are available for aircraft towing and pushback operations of civil or military aircraft. They are suitable for one dedicated aircraft or aircraft family.



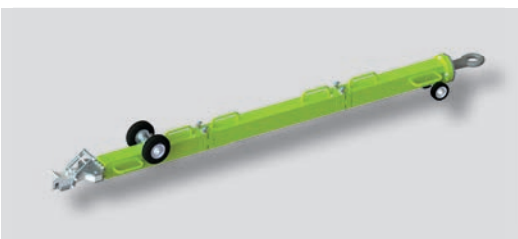
UNIVERSAL

The universal tow-bars are specially designed to suit multiple aircraft types. The universal tow-bar is fully equipped with multi-purpose tow head, tow-eye and undercarriage.



TOWMULTI

Our TOWMULTI system allows you to handle all different types of business and regional aircraft by simply replacing the tow head. This modular concept provides maximum flexibility and simplifies equipment maintenance radically.



FLY-AWAY

Our fly-away tow-bar has been specially designed for fly-away conditions. The fly-away tow-bar allows easier handling with maximum precision and offers a lightweight design.



WORLDWIDE FOOTPRINT



SALES REPRESENTATIVE



SERVICE CENTER



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HYDRO
Precision in Aircraft Support

In safe hands.