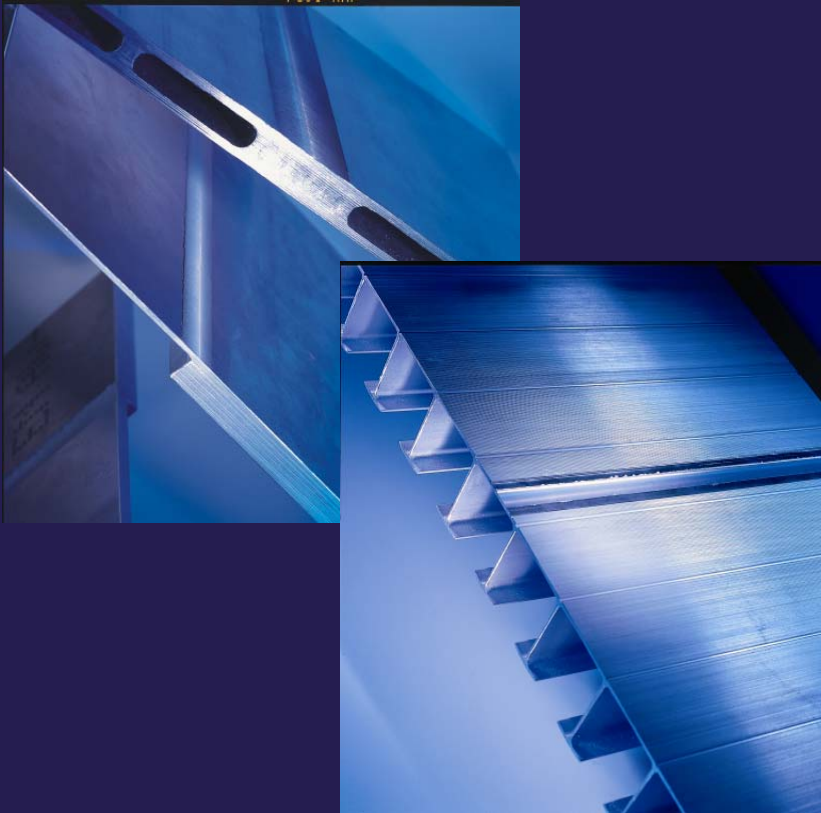
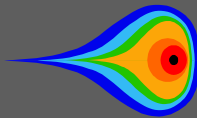


DanStir ApS

Danish Stir Welding Technology



DanStir
Friction Stir Welding



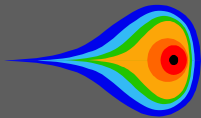
DanStir ApS

Danish Stir Welding Technology

- Established in year 2000 with offices at the Centre for Advanced Technology in Denmark
- In year 2000 Industrial Member of TWI with a license to use the FSW-technology
- In 2001 formalized a strategic alliance with FORCE Technology, the Danish welding institute
- Commissioned our 1st FSW installation in october 2001



DanStir
Friction Stir Welding



Core Research Base



TWI industrial member

Access to core research and support at TWI



GSP-12030 co-sponsor

R&D project on FSW-process and tool technology



EUROSTIR participant

Collaboration on industrialization of FSW



AL- JOIN consortium member

R&D on crash worthiness of rail car structures



SOLVSTIR consortium member

R&D on FSW of steel

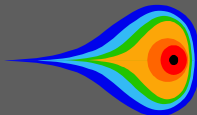


INNOJOIN industrial member

Danish Research Council project on modelling of FSW



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Friction Stir Welding

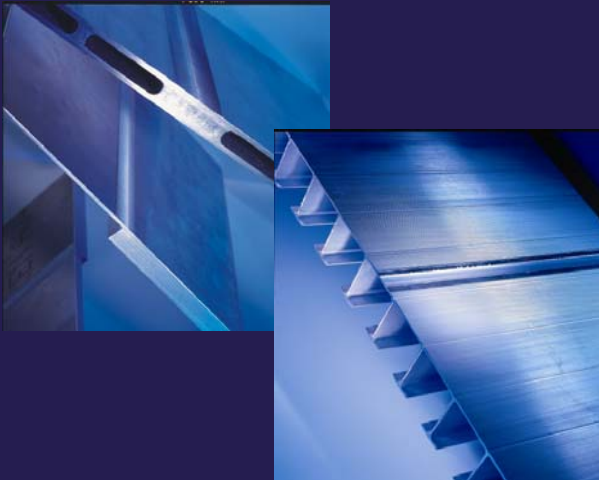


DanStir ApS

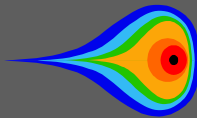
Danish Stir Welding Technology

Representative Examples

Automotive, Aerospace
and Medical sector

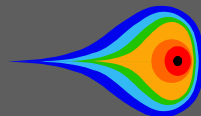
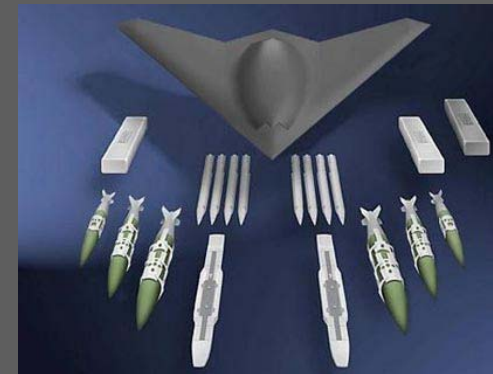


DanStir
Friction Stir Welding



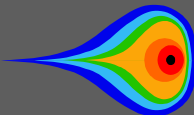
Representative eksempler

Leight weigth "ferry tank" for BOEING' UAV



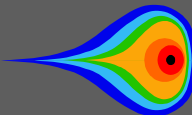
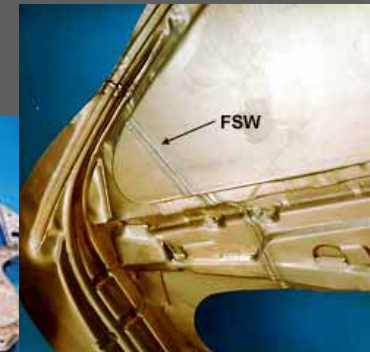
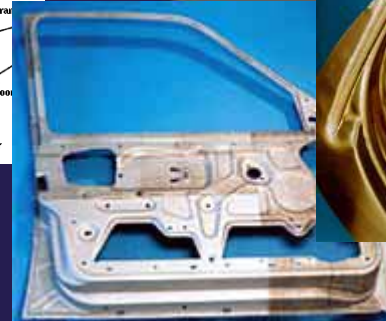
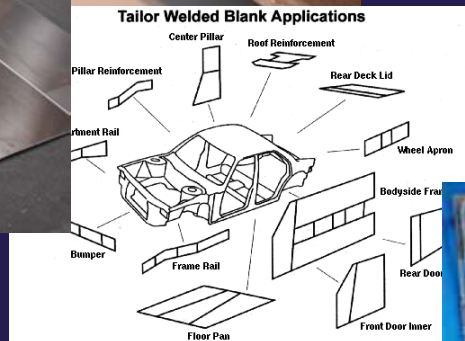
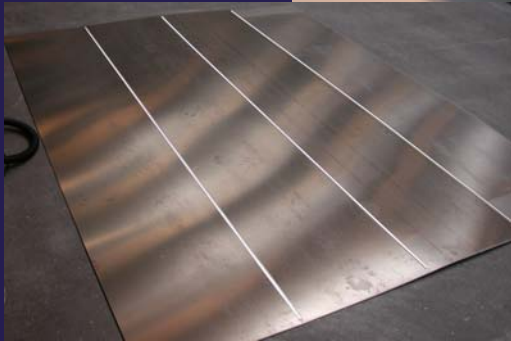
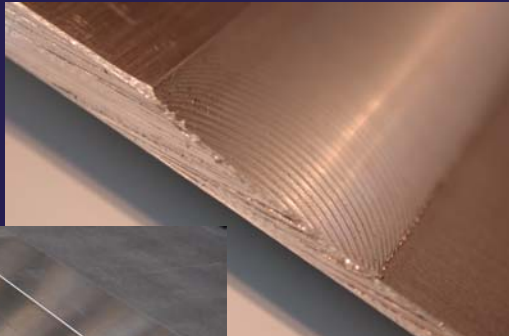
Representative Examples

Cargo floor panels for the LOCKHEED MARTIN C-130 aircraft



Representative Examples

Tailor Welded Blanks (TWB) for RENAULT door panels

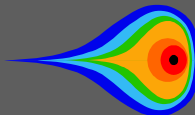


Representative Examples

C-arc beams for PHILIPS medical X-ray scanners

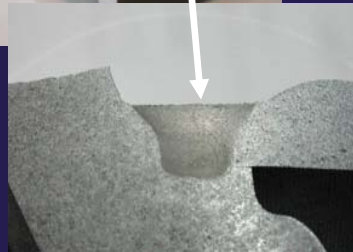


PHILIPS

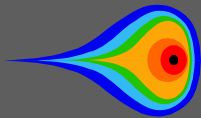


Representative Examples

Two-part light metal wheels for VOLVO XC90



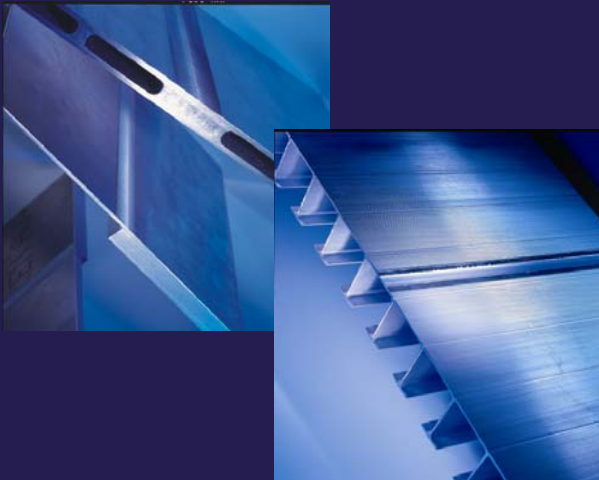
VOLVO



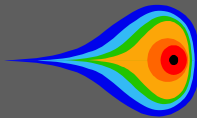
DanStir ApS

Danish Stir Welding Technology

**Summer 2007
change of strategy and mission**



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Friction Stir Welding

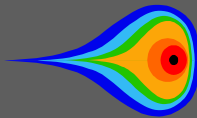


Change of strategy and mission

**DanStir entered into a business arrangement with
BAYARDS Aluminium Construction B.V. in The Netherlands**

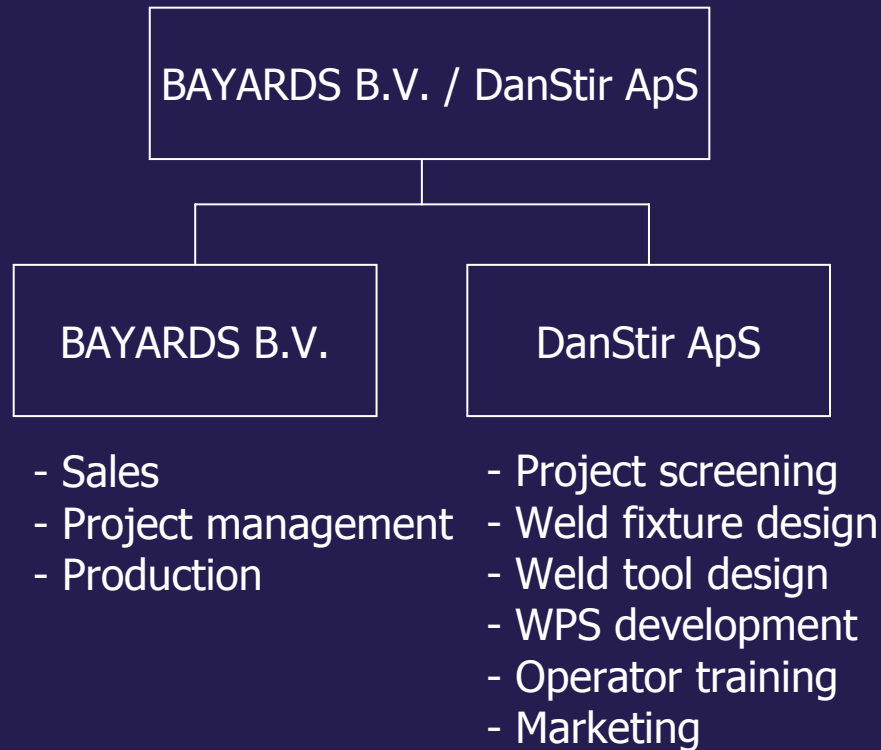


DanStir
Friction Stir Welding

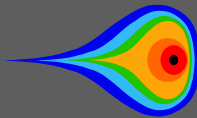


BAYARDS DanStir

Structure of cooperation



DanStir
Friction Stir Welding



BAYARDS BV

Facts sheet

BAYARDS facts sheet:

Started in 1963

Today \approx 150 employees

Annual turn-over \approx 28.000.000 [euro]

Production facilities: \approx 9.000 square meters

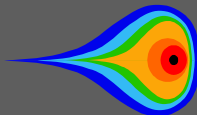
Production sites: 2 in Holland

Offices: Holland (1) and Italy (1)



DanStir

Friction Stir Welding



BAYARDS BV

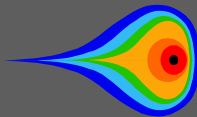
Technical capabilities



15 × 3.4 meter high-speed 5-axes milling facility



DanStir
Friction Stir Welding



BAYARDS BV

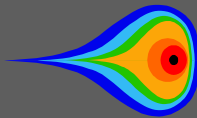
Technical capabilities



18 × 0.7 meter profile machining facility



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Friction Stir Welding



BAYARDS BV

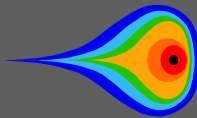
Technical capabilities



15.5 × 3.5 meter Friction Stir Welding facility



DanStir
Friction Stir Welding



BAYARDS BV

Technical capabilities

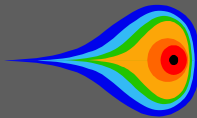


Robotized fusion welding facilities



DanStir

Friction Stir Welding



BAYARDS BV

Technical capabilities

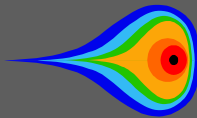


Manual MIG- and TIG-welding specialists



DanStir

Friction Stir Welding

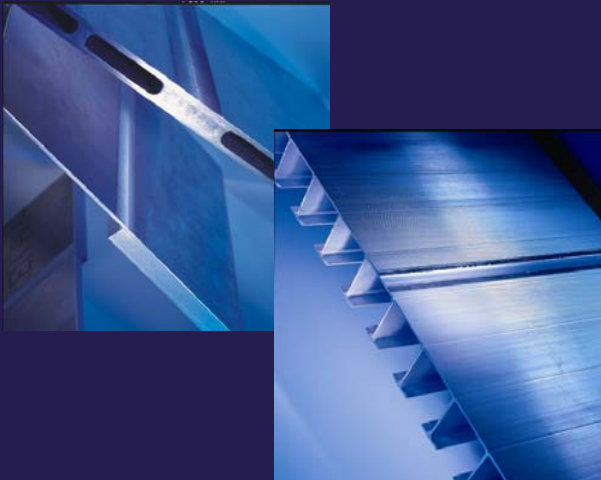


BAYARDS BV

Representative examples from production

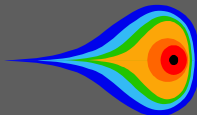
Representative Examples

Defense, Marine, Off-shore
& Construction sector



DanStir

Friction Stir Welding



BAYARDS BV

Representative examples from production



BAYARDS BV

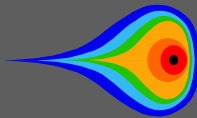
Representative examples from production



Super structures for ferries and yachts

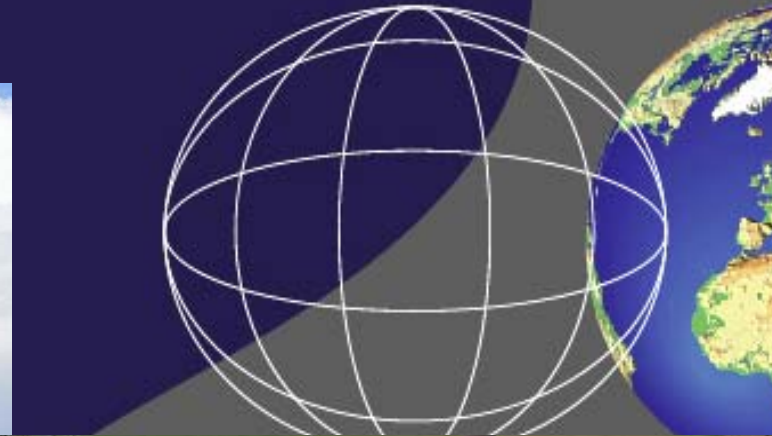


DanStir
Friction Stir Welding



BAYARDS BV

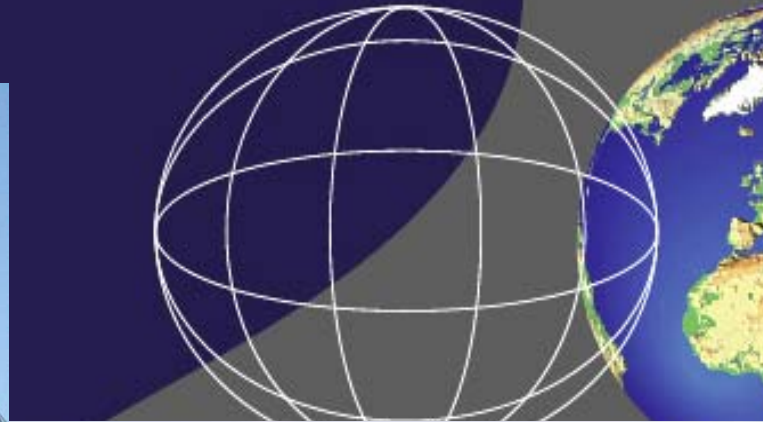
Representative examples from production



Helidecks for ships, off-shore rigs and buildings

BAYARDS BV

Representative examples from production



Structures for buildings, bridges etc.