

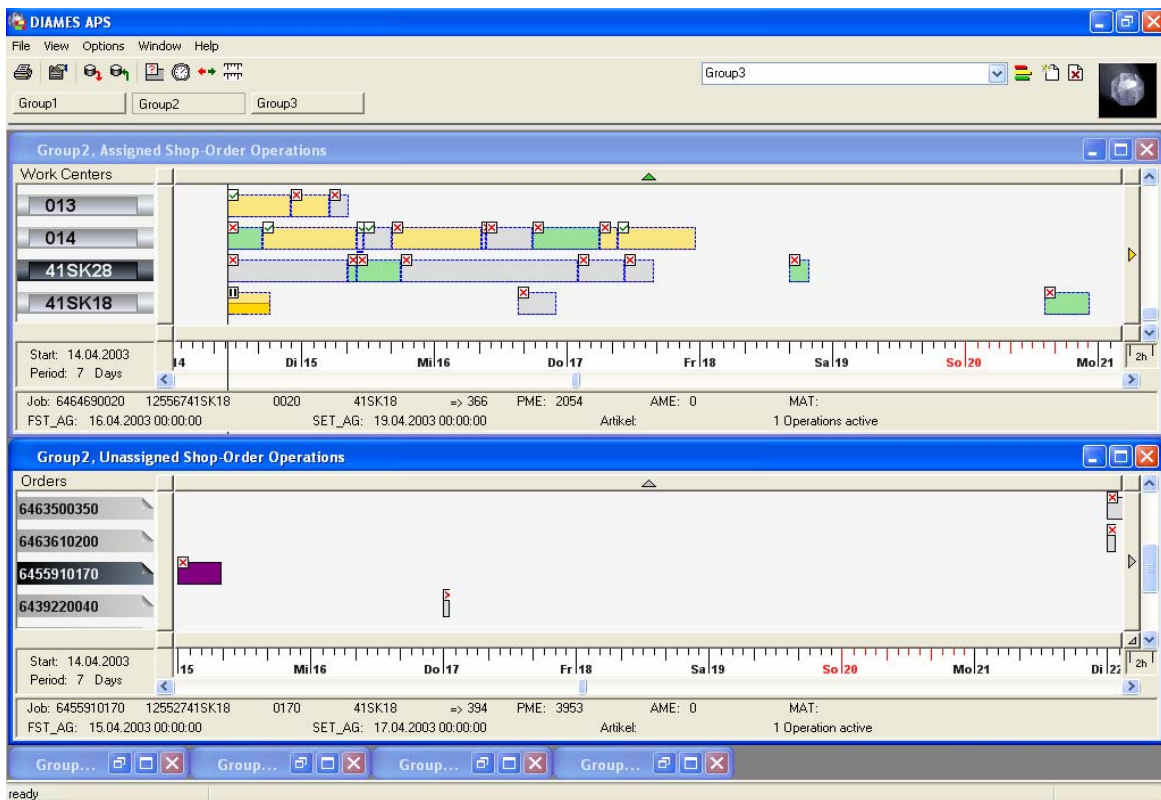
DIAMES® Advanced Production Scheduler

The Advanced Production Scheduler (“APS”) is a graphical finite planning tool with a simple and effective MS-Windows based GUI that is complementary to the DIAMES® family of products. The production planner deals with problems that were identified by the APS and are related to deadlines and the sequence of operations by optimising the interdependent production programs of the different work centres. The planner can quickly and easily modify the sequence of shop order operations. He eliminates bottlenecks related to the respective production resource by transferring the respective shop order operations to other work centres. The graphical interface of the APS offers a choice of two views:

- a view showing the shop order operations that have already been assigned and that are sorted per work centre, i.e. the effective production schedule.
- a view showing released shop order operations that have not yet been assigned and that are sorted in operation sequence order.

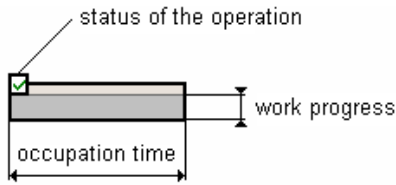
In an online dialog session with the DIAMES® server the planner selects work centres with the respective production schedules or production orders with unassigned operations. Selections that are frequently required may be saved as separate profiles. The user defines the starting date and the period for the view.

The sequential position of an operation within a production order and the individually allocated timeframe of any operation are indicated by specific colour coding as explained on the next page. This also applies to the up-to-date work status. General functions for specific presentation forms or global data manipulation are standard features.



The user retrieves or returns up-to-date data from/to the DIAMES® server at any time, either manually or even automatically under certain circumstances. This ensures that the view displayed by the APS is always up-to-date, matching the real-world production schedule and progress.

Shift schedules are displayed in the background as a coloured grid. For this purpose the APS retrieves the list of the weekly events and special days from the DIAMES® server.







The DIAMES[®] server validates all APS transactions. The colour that the APS assigns to operations indicates the date/time positioning of the operation with respect to the scheduled timeframe. The colour also shows the sequenced relationship with respect to a preceding operation of the same shop order. The represented job occupation time depends on APS parameter settings and effective work in progress.

Status of the operation

- ▶ Active
- ✗ Never started, still locked
- || Interrupted
- ✓ Never started, ready

Colours match with respect to schedule

-  Too early
-  O.k.
-  Overdue
-  Sequential error with respect to the operation that immediately precedes the current one.

Special operation (job) signatures and context menu



Additional (raw-) material information available



Operations "banked" fix confirmed planned start



- Show Order
- Show planned Work Center
- Show Op's from same Order

A right-click on a selected operation displays a context menu. This context menu provides access to predefined sorting and presentation functions.


A single click with the left mouse key on an operation displays the respective key-information at the bottom of the view; e.g.:

Job: ^	64332	13556663	0100	=> 366	PME: 0	AME: 0	MAT: xxx
FST_AG:	2003-02-21			SET_AG: 04d-2003-02		Artikel:	

A2032 / 0010 / 00 / Spez.Kabel / 21001DB

Operation Information (Page 1) | Operation Information (Page 2) | Operation Information (Page 3)

Earliest Start Timestamp:	10.06.2003 15:56:45	Operation Runtime:	0.11 [h]
Latest Start Timestamp:	10.06.2003 16:00:00	Operation Occupation Time:	0.57 [h]
Latest Finish Timestamp:	10.06.2003 00:00:00	Operation Setup + Teardown Time:	0.00 [h]
Planned Occupation Time:	15.00 [h]		
Estimated Occupation Time:	0 [h]		
Remaining Occupation Time:	0 [h]		
Planned Setup:	0.25 [h]		
Planned Run Time:	14.75 [h]		

Actual Time: 11.06.2003 11:23:49 

A double-click on an operation opens a text box containing detailed information on the planned and actual properties of the respective operation.

